



# GLOBAL PRODUCT OFFER

Electrofusion Fittings  
Spigot Fittings  
PE Ball Valves  
Transition Fittings  
Flow Limiters  
Equipment and Ancillaries



A dedicated member of the  AVR Group

The Fusion strategy is to become the customers' preferred partner as the leading innovator, manufacturer and supplier of products and services for gas, water, wastewater, irrigation and mining polyethylene pipeline systems, worldwide...

**Fusion is an international leader in the design, manufacture, and distribution of electrofusion fittings, PE ball valves, and associated products and services.**

Fusion is an innovator, responsible for many breakthroughs including Fusamatic automatic pin technology, comprehensive product traceability, and the Fusion Assist asset management application.

Fusion's manufacturing locations include facilities in the UK, Egypt, and China. These locations feed into Fusion-owned distribution networks, independent distributors, and utility end users.

Fusion was a pioneer in promoting polyethylene for pressure pipe networks in gas, water, wastewater, mining, and irrigation. We are proud of our heritage, but our sights are firmly fixed on delivering exceptional customer service today and into the future.

Since 2017, Fusion has been a member of the AVK Group. AVK is a privately owned industrial group currently comprising over 100 companies worldwide.

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# POLYETHYLENE ELECTROFUSION FITTINGS



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# COUPLER

Ø 20 - 280mm

FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Options

Available as an electrofusion end cap

Compatible with long spigot outlet electrofusion and spigot fittings

Available with threaded transition adaptors – brass and stainless steel

Available with excess flow valves

## Accessories

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Generators	278
Fusion Assist	

## SDR RANGE 11-21 WATER PN16 GAS 10 BAR PE100



COUPLER / Ø 20-280mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
CBKHFA20	20	77	37.5	29	20	11	35	3	0.04
CBKHFA25	25	77	37.5	33.5	25	11	30	3	0.04
CBKHFA32	32	77	37.5	43	32	11	45	3	0.06
CBKHFA40	40	91	44	51.5	40	11	40	5	0.09
CBKHFA50	50	91	44	61.5	50	11	90	5	0.10
CBKHFA63	63	102	50	78	63	11-17	35	5	0.17
CBKHFA75	75	122	59.5	92.5	75	11-17	50	5	0.27
CBKHFA90	90	122	60	109.5	90	11-17	90	10	0.39
CBKHFA110	110	144	70	133	110	11-17	160	10	0.59
CBKHFA125	125	154	75	151	125	11-17	200	15	0.79
CBKHFA140	140	165	81	173	140	11-17	160	10	1.12
CBKHFA160	160	175	86	195	160	11-17	300	20	1.45
CBKHFA180	180	187	92	219	180	11-17	360	20	1.92
CBKHFA200	200	187	92	242	200	11-17	440	20	2.31
CBKHFA225	225	222	111	270	225	11-17	600	30	3.65
CBKHFA250	250	222	111	303	250	11-21	900	30	4.80
CBKHFA280	280	260	130	345.5	280	11-21	900	30	8.28

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

1200/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# COUPLER

Ø 315 - 400mm

MANUAL PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
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Fusion Assist	

**SDR RANGE 11-21**  
**WATER PN16**  
**GAS 10 BAR**  
**PE100**



COUPLER / Ø 315 - 400mm / MANUAL PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
CBKHFM315	315	260	130	388	315	11-21	1140	30	9.9
CBKHFM355	355	265	132.5	431	355	11-21	1200	30	11.95
CBKHFM400	400	290	145	486	400	11-21	1680	30	16.95

Refer to the table above for the SDR rating of each individual fitting.

**1200/00-001**



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# LARGE DIAMETER COUPLER

Ø 450 - 630mm  
MANUAL PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

Gas
  Water
  Wastewater
  Irrigation
  Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR RANGE 11-17 WATER PN16 GAS 10 BAR PE100



1200/10-001



### LARGE DIAMETER COUPLER / Ø 450 - 630mm / MANUAL PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
CBKHF450FSN	450	320	160	560	450	11-17	1380	30	21
CBKHF500FSN	500	360	180	621	500	11-17	1800	30	33
CBKHF560FSN ◊	560	390	195	695	560	11-17	960	45	39
CBKHF630FSN ◊	630	430	215	780	630	11-17	1620	45	53

◊ Couplers greater than 500mm in diameter require two electrofusion cycles (dual shot), one for each end of the fitting. Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# LARGE DIAMETER COUPLER

Ø 450 - 630mm  
MANUAL PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN10 and Gas 6 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR RANGE 17-26 WATER PN10 GAS 6 BAR PE100



1200/20-001



### LARGE DIAMETER COUPLER / Ø 450 - 630mm / MANUAL PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
CBKHFM450FSV	450	320	160	521	450	17-26	1380	30	15
CBKHFM500FSV	500	360	180	579	500	17-26	1800	30	20
CBKHFM560FSV ◊	560	390	195	639	560	17-26	960	45	26
CBKHFM630FSV ◊	630	430	215	723	630	17-26	1380	45	35

◊ Couplers greater than 500mm in diameter require two electrofusion cycles (dual shot), one for each end of the fitting. Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# END CAP

Ø 20 - 250mm  
FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



Applications
<span style="color: yellow;">●</span> Gas <span style="color: blue;">●</span> Water <span style="color: green;">●</span> Wastewater <span style="color: lightblue;">●</span> Irrigation <span style="color: grey;">●</span> Mining
Product information
<b>Material:</b> All fittings are manufactured using virgin PE100 black polyethylene
<b>Pressure rating:</b> Water PN16 and Gas 10 Bar <small>All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.</small>
<b>Pin specification:</b> Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)
<b>Rising pin fusion indicators:</b> Allow for easy monitoring of the fusion process
<b>Temperature range:</b> -10°C to +40°C
<b>Welding temperature range:</b> -10°C to +40°C (When using Fusamatic electrofusion systems)
<b>Manual welding parameters:</b> Incorporated into the body of the fitting for easy reference
<b>Individual numbering:</b> Each fitting is individually numbered for precise tracking
<b>Permanent batch number:</b> Clearly marked for quality control
<b>Barcode and QR code tracking:</b> Enables full traceability of each fitting back to raw materials and critical components
<b>ISO Compliant barcodes:</b> Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4
<b>Brand:</b> Fusamatic branded

Designed and manufactured to
EN ISO 15494
EN 12201-3
EN 1555-3
ISO 4437-3
ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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Fusion Assist	

## SDR RANGE 11-21 WATER PN 16 GAS 10 BAR PE100



END CAPS / Ø 20 - 250mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
ECBKHFA20	20	82	37.5	29	20	11	35	3	0.05
ECBKHFA25	25	82	37.5	33.5	25	11	30	3	0.05
ECBKHFA32	32	84	37.5	43	32	11	45	3	0.08
ECBKHFA40	40	97	44	51.5	40	11	40	5	0.12
ECBKHFA50	50	101	44	61.5	50	11	90	5	0.14
ECBKHFA63	63	115	50	78	63	11-17	35	3	0.25
ECBKHFA75	75	133	59.5	92.5	75	11-17	50	5	0.38
ECBKHFA90	90	138	60	109.5	90	11-17	90	10	0.55
ECBKHFA110	110	164	70	133	110	11-17	160	10	0.89
ECBKHFA125	125	175	75	151	125	11-17	200	15	1.22
ECBKHFA140	140	208	81	173	140	11-17	160	10	1.90
ECBKHFA160	160	202	86	195	160	11-17	300	20	2.24
ECBKHFA180	180	214	92	219	180	11-17	360	20	3.13
ECBKHFA200	200	215	92	242	200	11-17	440	20	3.85
ECBKHFA225	225	251.7	111	270	225	11-17	600	30	6.00
ECBKHFA250	250	259.5	111	303	250	11-21	900	30	7.73

Refer to the table above for the SDR rating of each individual fitting.

1201/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.





# REDUCER

Ø 20x16mm – 180x125mm

FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

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The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

## SDR RANGE 11 - 17 WATER PN 16 GAS 10 BAR PE100



REDUCER / Ø 20x16mm – 180x125mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	D mm	D1 mm	D2 mm	D3 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
RBKHFA20X16	20x16	77	37	37	29.5	20	28.5	16	11	35	3	0.04
RBKHFA25X16	25x16	77	38.5	36.5	34	25	29	16	11	35	3	0.05
RBKHFA32X16	32x16	77	38.5	36.5	43	32	29	16	11	40	3	0.06
RBKHFA25X20	25x20	77	38.5	36.5	34	25	29	20	11	35	3	0.04
RBKHFA32X20	32x20	77	38.5	36.5	43	32	29	20	11	40	3	0.05
RBKHFA32X25	32x25	77	38.5	36.5	43	32	34	25	11	30	3	0.06
RBKHFA40X32	40x32	91	46	41	52	40	43	32	11	50	5	0.08
RBKHFA50X32	50x32	91	46.5	41	62	50	43	32	11	60	5	0.09
RBKHFA50X40	50x40	91	46.5	41	62	50	52	40	11	60	5	0.10
RBKHFA63X32	63x32	102	52	41	77	63	43	32	11	90	5	0.14
RBKHFA63X40	63x40	102	52	43	77	63	52	40	11	70	5	0.14
RBKHFA63X50	63x50	102	52	45.5	77	63	62	50	11	120	10	0.15
RBKHFA75X63	75x63	126	63	58.5	97	75	82	63	11-17	80	10	0.31
RBKHFA90X63	90x63	123	62	53	109.5	90	77	63	11-17	80	5	0.31
RBKHFA110X63	110x63	137	75	54	140	110	82	63	11-17	120	10	0.59
RBKHFA110X90	110x90	137	70	62	134	110	109.5	90	11-17	120	10	0.55
RBKHFA125X90	125x90	145	76	62	152	125	109.5	90	11-17	160	10	0.73
RBKHFA160X90	160x90	175	90	67	200	160	116	90	11-17	300	20	1.51
RBKHFA160X110	160x110	186	90	78	200	160	140	110	11-17	320	20	1.61
RBKHFA180X125	180x125	221	101	83	216	180	157	125	11-17	220	10	2.16

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

1202/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 90° ELBOW

Ø 20 - 250mm

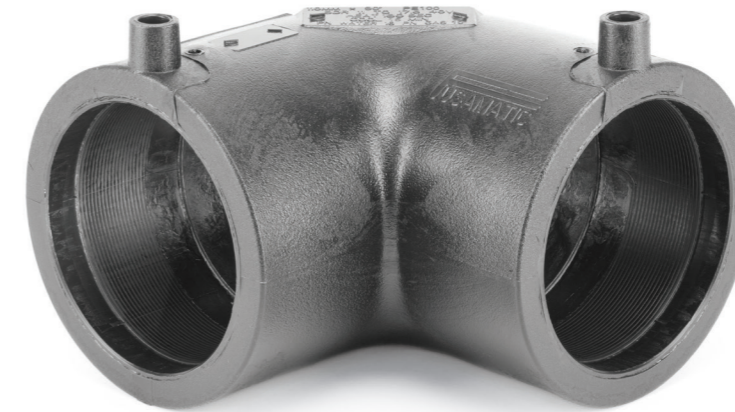
FUSAMATIC PIN 4.0mm



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Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Generators 278

Fusion Assist

## SDR RANGE 11 - 21 WATER PN 16 GAS 10 BAR PE100



90° ELBOW / Ø 20 - 250mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
EBKHFA20X90	20x90°	77	40	62	30	20	11	25	5	0.06
EBKHFA25X90	25x90°	76	41	60	35	25	11	30	5	0.07
EBKHFA32X90	32x90°	84	40	62	44	32	11	60	5	0.10
EBKHFA40X90	40x90°	91	42	65	52	40	11	50	5	0.12
EBKHFA50X90	50x90°	103	45	72	63	50	11	90	5	0.17
EBKHFA63X90	63x90°	123	50	84	80	63	11-17	35	5	0.31
EBKHFA75X90	75x90°	141	53	92	95	75	11-17	70	5	0.44
EBKHFA90X90	90x90°	165	60	109	113	90	11-17	90	10	0.68
EBKHFA110X90	110x90°	204	73	135	137	110	11-17	160	15	1.15
EBKHFA125X90	125x90°	228	75	152	154	125	11-17	200	15	1.64
EBKHFA160X90	160x90°	311.5	87	211.5	201	160	11-17	360	20	4.22
EBKHFA180X90	180x90°	308	90	197	222	180	11-17	360	20	4.65
EBKHFA200X90	200x90°	335	90	213	243	200	11-17	440	20	5.65
EBKHFA225X90	225x90°	376	100	239	274	225	11-17	600	30	7.40
EBKHFA250X90	250x90°	409	109	257	304	250	11-21	900	30	10.69

Refer to the table above for the SDR rating of each individual fitting.

1203/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 45° ELBOW

Ø 32-250mm

FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

## SDR RANGE 11-21 WATER PN 16 GAS 10 BAR PE100



45° ELBOW / Ø 32-250mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
EBKHFA32X45	32x45°	99	39	44	32	11	45	5	0.08
EBKHFA40X45	40x45°	108	41.5	53	40	11	50	5	0.10
EBKHFA50X45	50x45°	124	44.5	64	50	11	90	5	0.14
EBKHFA63X45	63x45°	137	50	78.5	63	11-17	35	5	0.23
EBKHFA75X45	75x45°	165	54	94	75	11-17	70	5	0.35
EBKHFA90X45	90x45°	177	60	117	90	11-17	110	10	0.55
EBKHFA110X45	110x45°	213	75	137	110	11-17	140	10	0.93
EBKHFA125X45	125x45°	240	81	154	125	11-17	140	10	1.28
EBKHFA160X45	160x45°	287.2	89	201	160	11-17	360	20	2.64
EBKHFA180X45	180x45°	299	90	222	180	11-17	360	20	3.25
EBKHFA200X45	200x45°	350	90	243	200	11-17	440	20	4.60
EBKHFA225X45	225x45°	377	100	274	225	11-17	600	30	5.60
EBKHFA250X45	250x45°	421	109	304	250	11-21	900	30	8.35

Refer to the table above for the SDR rating of each individual fitting.

1203/11-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal. For the latest information visit: [www.fusiongroup.com](http://www.fusiongroup.com)

# 22.5° ELBOW

Ø 180mm  
FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



22.5° ELBOW / Ø 180mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
EBKHFA180X22.5	180x22°	278	105	213	180	11-17	220	20	2.89

Refer to the table above for the SDR rating of each individual fitting.

1203/21-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# EQUAL TEE

Ø 20 - 250mm  
FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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## SDR RANGE 11 - 21 WATER PN 16 GAS 10 BAR PE100



EQUAL TEE / Ø 20 - 250mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	D2 mm	A mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
ETBKHFA20	20	98	35	30	20	20	86	11	25	5	0.06
ETBKHFA25	25	98	35	35	25	25	88.5	11	25	5	0.07
ETBKHFA32	32	98	30	44	32	32	93	11	50	5	0.10
ETBKHFA40	40	131	44	52	40	40	91	11	50	5	0.17
ETBKHFA50	50	141	43	63	50	50	104	11	90	5	0.23
ETBKHFA63	63	156	50	82	63	63	118	11	40	5	0.44
ETBKHFA75	75	174	55	97	75	75	134	11 - 17	50	10	0.63
ETBKHFA90	90	207	64	115	90	90	150	11 - 17	110	10	0.97
ETBKHFA110	110	239	73	139	110	110	168	11 - 17	140	10	1.65
ETBKHFA125	125	264	80	156	125	125	182	11 - 17	200	15	2.31
ETBKHFA160	160	313	89	200	160	160	213.5	11 - 17	360	20	4.00
ETBKHFA180	180	334	90	222	180	180	232	11 - 17	360	20	5.35
ETBKHFA200	200	358	90	242	200	200	260	11 - 17	440	20	6.77
ETBKHFA225	225	406	105	271	225	225	285	11 - 17	600	30	9.38
ETBKHFA250	250	448	109	303	250	250	314	11 - 21	900	30	13.35

Refer to the table above for the SDR rating of each individual fitting.

1204/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



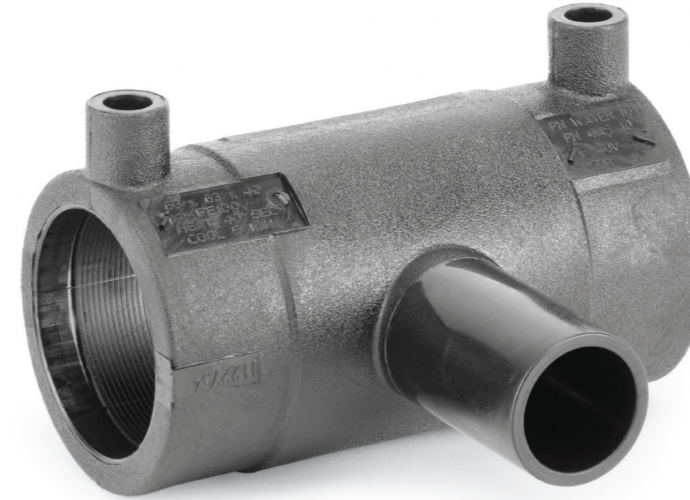
# REDUCING TEE

Ø 32-160mm OUTLET  
Ø 20-200mm BODY  
FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



Applications					
● Gas	● Water	● Wastewater	● Irrigation	● Mining	

Product information
<b>Material:</b> All fittings are manufactured using virgin PE100 black polyethylene
<b>Pressure rating:</b> Water PN16 and Gas 10 Bar <small>All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.</small>
<b>Pin specification:</b> Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)
<b>Rising pin fusion indicators:</b> Allow for easy monitoring of the fusion process
<b>Temperature range:</b> -10°C to +40°C
<b>Welding temperature range:</b> -10°C to +40°C (When using Fusamatic electrofusion systems)
<b>Manual welding parameters:</b> Incorporated into the body of the fitting for easy reference
<b>Individual numbering:</b> Each fitting is individually numbered for precise tracking
<b>Permanent batch number:</b> Clearly marked for quality control
<b>Barcode and QR code tracking:</b> Enables full traceability of each fitting back to raw materials and critical components
<b>ISO Compliant barcodes:</b> Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4
<b>Brand:</b> Fusamatic branded

Designed and manufactured to
EN ISO 15494
EN 12201-3
EN 1555-3
ISO 4437-3
ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



REDUCING TEE / Ø 32-160mm OUTLET / Ø 20-200mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	D2 mm	A mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
RTBKHFA20X32	20x32	98	35	44	20	32	88	11	30	3	0.13
RTBKHFA25X32	25x32	98	35	44	25	32	88	11	35	3	0.13
RTBKHFA50X40	50x40	146	49	67	50	40	100	11	120	10	0.30
RTBKHFA63X32	63x32	156	50	82	63	32	104	11	40	5	0.40
RTBKHFA63X40	63x40	156	50	82	63	40	105.5	11	40	5	0.41
RTBKHFA63X50	63x50	156	50	82	63	50	111.5	11	40	5	0.42
RTBKHFA90X63	90x63	206	63.5	115	90	63	135	11-17	110	10	0.88
RTBKHFA110X63	110x63	239	73	142	110	63	147	11-17	140	10	1.47
RTBKHFA110X90	110x90	239	73	139	110	90	162	11-17	140	10	1.55
RTBKHFA125X63	125x63	264	80	156	125	63	365	11-17	200	15	2.90
RTBKHFA125X90	125x90	264	80	156	125	90	179	11-17	200	15	2.28
RTBKHFA125X110	125x110	264	80	156	125	110	365	11-17	200	15	3.05
<b>M</b> RTBKHFA160X63	160x63	317	90	200	160	63	187	11-17	360	20	3.52
<b>M</b> RTBKHFA160X90	160x90	317	90	200	160	90	202	11-17	360	20	3.62
RTBKHFA160X110	160x110	313	89	200	160	110	203.5	11-17	360	20	3.73
RTBKHFA160X125	160x125	313	89	200	160	125	450	11-17	360	20	5.50
RTBKHFA180X63	180x63	334	90	222	180	63	450	11-17	360	20	7.10
RTBKHFA180X90	180x90	334	90	222	180	90	460	11-17	360	20	6.80
RTBKHFA180X125	180x125	334	90	222	180	125	222	11-17	360	20	4.85
<b>N</b> RTBKHFA200X63	200x63	358	92	243	200	63	213	11-17	440	20	5.77
<b>N</b> RTBKHFA200X90	200x90	358	92	243	200	90	228	11-17	440	20	5.86
<b>N</b> RTBKHFA200X110	200x110	358	92	243	200	110	233	11-17	440	20	5.95
<b>N</b> RTBKHFA200X160	200x160	358	92	243	200	160	248	11-17	440	20	6.30

◇ Fabricated fitting – Manufactured using electrofusion and spigot components certified against European norms. All dimensions and times may vary subject to component availability. Refer to the table above for the SDR rating of each individual fitting.

**N** New product    **M** Modified – Now fully moulded

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

1205/01-001



# FLANGED TEE

Ø DN50 - DN150 FLANGED OUTLET  
 Ø 63 - 180mm BODY  
 FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



Applications
<span style="color: blue;">●</span> Water <span style="color: green;">●</span> Wastewater <span style="color: blue;">●</span> Irrigation <span style="color: grey;">●</span> Mining
Product information
<b>Material:</b> All fittings are manufactured using virgin PE100 black polyethylene
<b>Pressure rating:</b> Water PN16 <small>All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.</small>
<b>Pin specification:</b> Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)
<b>Rising pin fusion indicators:</b> Allow for easy monitoring of the fusion process
<b>Construction:</b> A flanged tee consists of a standard electrofusion tee with a factory welded stub flange and backing ring assembly (PCD against EN 1092-NP16) – ideal for connecting flanged components such as water meters and valves
<b>Temperature range:</b> -10°C to +40°C
<b>Welding temperature range:</b> -10°C to +40°C (When using Fusamatic electrofusion systems)
<b>Manual welding parameters:</b> Incorporated into the body of the fitting for easy reference
<b>Individual numbering:</b> Each fitting is individually numbered for precise tracking
<b>Permanent batch number:</b> Clearly marked for quality control
<b>Barcode and QR code tracking:</b> Enables full traceability of each fitting back to raw materials and critical components
<b>ISO Compliant barcodes:</b> Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4
<b>Brand:</b> Electrofusion fittings Fusamatic branded (Fabricated)

**Designed and manufactured to**  
 EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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**Options**  
 For specific markets specialist rilsan or stainless steel backing rings are available upon request – please confirm at time of ordering.

**SDR RANGE 11 -17**  
**WATER PN 16**  
**PE100**

**1217/01-001**



FLANGED TEE / Ø DN50 - DN150 FLANGED OUTLET / Ø 63 - 180mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	D mm	D1 mm	D2 mm	A mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FTBKHFA63X50	Ø 63x50	156	50	82	63	63	210	11	40	5	1.7
FTBKHFA90X80	Ø 90x80	206.5	64	115	90	90	270	11-17	110	10	2.8
FTBKHFA110X80	Ø 110x80	239	73	139	110	90	290	11-17	140	10	3.4
FTBKHFA110X100	Ø 110x110	239	73	139	110	110	300	11-17	140	10	3.9
FTBKHFA125X80	Ø 125x80	264	80	156	125	90	310	11-17	200	15	4.1
FTBKHFA125X100	Ø 125x100	264	80	156	125	125	340	11-17	200	15	4.6
FTBKHFA160X80	Ø 160x80	313	89	200	160	90	380	11-17	360	20	7.0
FTBKHFA160X100	Ø 160x110	313	89	200	160	160	610	11-17	360	20	7.7
FTBKHFA160X150	Ø 160x150	313	89	200	160	160	400	11-17	360	20	8.8
FTBKHFA180X80	Ø 180x80	334	90	222	180	180	590	11-17	360	20	8.7
FTBKHFA180X100	Ø 180x100	334	90	222	180	180	620	11-17	360	20	9.3
FTBKHFA180X150	Ø 180x150	334	90	222	180	180	420	11-17	360	20	9.9

◊ Fabricated fitting – Manufactured using electrofusion and spigot components certified against European norms. All dimensions and times may vary subject to component availability. Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal. For the latest information visit: [www.fusiongroup.com](http://www.fusiongroup.com)

# MULTI SEAL TAPPING TEE

Ø 20 / 25 / 32mm OUTLET  
Ø 63 - 355mm BODY

TOP LOADING

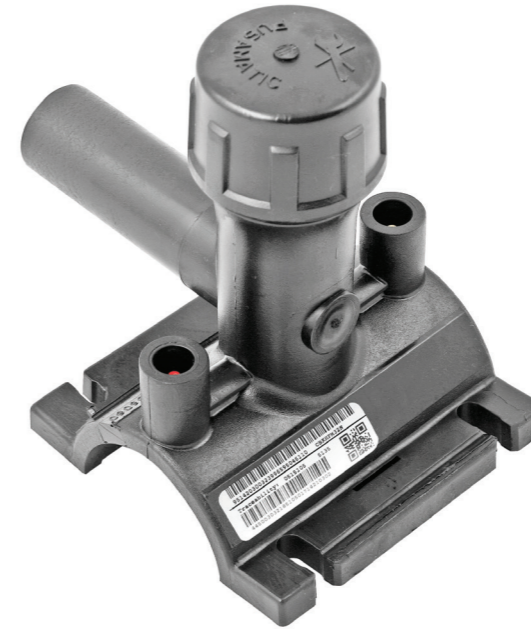
FUSAMATIC PIN 4.0mm  
WITHOUT CUTTER TUBE



All fittings are manufactured using virgin PE100 black polyethylene.

Multi Seal tapping tees deliver security, safety, simplicity and speed at the point of installation and offer a solution to providing a direct connection from a live or dead main.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



### Optional cutter tube

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA63X32T) – STV 1206/26-001

### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Tamper-proof LockCap:** Cannot be over-tightened and won't vibrate loose

**O-ring seals:** Two O-ring seals protect against leakage

**Double spigot outlet:** Ample spigot length to cut off a coupler and fuse a second fitting

**Saddle and fusion mat:** Designed to minimise joint cycle times

**Optional cutter tube:** Locks into the integral cutter allowing for leak free cut through of the mains pipe

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11 - 21 WATER PN 16 GAS 10 BAR PE100



MULTI SEAL TAPPING TEE / Ø 20 / 25 / 32mm OUTLET / Ø 63 - 355mm BODY / TOP LOADING / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA63X20	63x20	105	119	62	120	11-17	80	10	0.38
MTBKHFA63X25	63x25	105	119	62	120	11-17	80	10	0.38
MTBKHFA63X32	63x32	105	119	62	120	11-17	80	10	0.37
MTBKHFA75X20	75x20	105	110	77	120	11-17	90	10	0.46
MTBKHFA75X25	75x25	105	110	77	120	11-17	90	10	0.46
MTBKHFA75X32	75x32	105	110	77	120	11-17	90	10	0.48
MTBKHFA90X20	90x20	105	110	77	120	11-17	90	10	0.38
MTBKHFA90X25	90x25	105	110	77	120	11-17	90	10	0.40
MTBKHFA90X32	90x32	105	110	77	120	11-17	90	10	0.40
MTBKHFA110X20	110x20	105	117	87	120	11-17	80	10	0.39
MTBKHFA110X25	110x25	105	117	87	120	11-17	80	10	0.39
MTBKHFA110X32	110x32	105	117	87	120	11-17	80	10	0.39
MTBKHFA125X20	125x20	105	117	95	120	11-17	80	10	0.31
MTBKHFA125X25	125x25	105	117	95	120	11-17	80	10	0.39
MTBKHFA125X32	125x32	105	117	95	120	11-17	80	10	0.39
MTBKHFA160X20	160x20	105	122	112	120	11-17	100	10	0.32
MTBKHFA160X25	160x25	105	122	112	120	11-17	100	10	0.41
MTBKHFA160X32	160x32	105	122	112	120	11-17	100	10	0.41
MTBKHFA180X20	180x20	105	122	122	120	11-17	100	10	0.35
MTBKHFA180X25	180x25	105	122	122	120	11-17	100	10	0.41

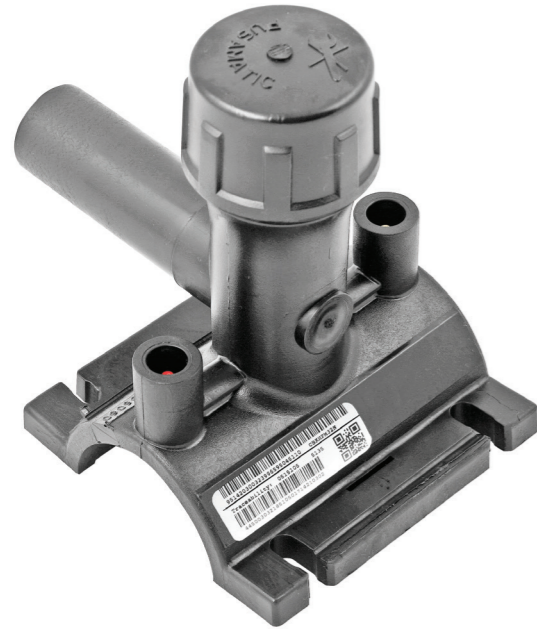
Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

1206/21-001







**Optional cutter tube**

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA63X32T) – STV 1206/26-001

**SDR RANGE 11-21  
WATER PN 16  
GAS 10 BAR  
PE100**



**1206/21-001**



MULTI SEAL TAPPING TEE / Ø 20/25/32mm OUTLET / Ø 63-355 mm BODY / TOP LOADING / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA180X32	180x32	105	122	122	120	11-17	100	10	0.41
MTBKHFA200X20	200x20	105	122	132	120	11-17	100	10	0.30
MTBKHFA200X25	200x25	105	122	132	120	11-17	100	10	0.32
MTBKHFA200X32	200x32	105	122	132	120	11-17	100	10	0.38
MTBKHFA225X20	225x20	105	122	145	120	11-17	100	10	0.32
MTBKHFA225X25	225x25	105	122	145	120	11-17	100	10	0.41
MTBKHFA225X32	225x32	105	122	145	120	11-17	100	10	0.40
MTBKHFA250X20	250x20	105	122	158	120	11-21	100	10	0.39
MTBKHFA250X25	250x25	105	122	158	120	11-21	100	10	0.39
MTBKHFA250X32	250x32	105	122	158	120	11-21	100	10	0.39
MTBKHFA280X20	280x20	105	122	176	120	11-21	100	10	0.43
MTBKHFA280X25	280x25	105	122	176	120	11-21	100	10	0.43
MTBKHFA280X32	280x32	105	122	176	120	11-21	100	10	0.43
MTBKHFA315X20	315x20	105	122	194	120	11-21	100	10	0.40
MTBKHFA315X25	315x25	105	122	194	120	11-21	100	10	0.41
MTBKHFA315X32	315x32	105	122	194	120	11-21	100	10	0.41
MTBKHFA355X20	355x20	105	122	214	120	11-21	100	10	0.40
MTBKHFA355X25	355x25	105	122	214	120	11-21	100	10	0.41
MTBKHFA355X32	355x32	105	122	214	120	11-21	100	10	0.40

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# MULTI SEAL TAPPING TEE

Ø 63mm OUTLET  
 Ø 250-450mm BODY  
**TOP LOADING**  
 FUSAMATIC PIN 4.0mm  
 WITHOUT CUTTER TUBE



All fittings are manufactured using virgin PE100 black polyethylene.

Multi Seal tapping tees deliver security, safety, simplicity and speed at the point of installation and offer a solution to providing a direct connection from a live or dead main.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



### Optional cutter tube

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA250X63T) – STV 1206/36-001

### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
 All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Tamper-proof LockCap:** Cannot be over-tightened and won't vibrate loose

**O-ring seals:** Two O-ring seals protect against leakage

**Double spigot outlet:** Ample spigot length to cut off a coupler and fuse a second fitting

**Saddle and fusion mat:** Designed to minimise joint cycle times

**Optional cutter tube:** Locks into the integral cutter allowing for leak free cut through of the mains pipe

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories Page

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Top load clamp 269

Tapping/cutter keys 281

Test caps 281

Integral flow limiters 236

Generators 278

Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11-21 WATER PN 16 GAS 10 BAR PE100



1206/31-001



MULTI SEAL TAPPING TEE / Ø 63mm OUTLET / Ø 250-450mm BODY / TOP LOADING / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA250X63	250x63	165	183	182	146	11-21	110	10	0.87
MTBKHFA280X63	280x63	165	184	196	146	11-21	120	10	0.86
MTBKHFA315X63	315x63	165	187	217	146	11-21	120	10	0.89
MTBKHFA355X63	355x63	165	187	238	146	11-21	120	10	0.91
MTKHFA400450X63	400/450x63	165	185	258/283	146	11-21	120	15	0.92

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# MULTI SEAL TAPPING TEE

Ø 20 / 25 / 32mm OUTLET  
Ø 40 - 225mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm  
WITHOUT CUTTER TUBE



All fittings are manufactured using virgin PE100 black polyethylene.

Multi Seal tapping tees deliver security, safety, simplicity and speed at the point of installation and offer a solution to providing a direct connection from a live or dead main.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



### Optional cutter tube

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA63X32UT) – STV 1206/06-001

### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Tamper-proof LockCap:** Cannot be over-tightened and won't vibrate loose

**O-ring seals:** Two O-ring seals protect against leakage

**Double spigot outlet:** Ample spigot length to cut off a coupler and fuse a second fitting

**Saddle and fusion mat:** Designed to minimise joint cycle times

**Optional cutter tube:** Locks into the integral cutter allowing for leak free cut through of the mains pipe

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories Page

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Tapping/cutter keys 281

Test caps 281

Integral flow limiters 236-243

Generators 278

Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



1206/01-001



MULTI SEAL TAPPING TEE / Ø 20 / 25 / 32mm OUTLET / Ø 40 - 225mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA40X20U	40x20	105	110	50	120	11	40	3	0.38
MTBKHFA40X25U	40x25	105	110	50	120	11	40	3	0.37
MTBKHFA40X32U	40x32	105	110	50	120	11	40	3	0.37
MTBKHFA50X20U	50x20	105	110	50	120	11	40	3	0.38
MTBKHFA50X25U	50x25	105	110	50	120	11	40	3	0.38
MTBKHFA50X32U	50x32	105	110	50	120	11	40	3	0.40
MTBKHFA63X20U	63x20	105	119	62	120	11-17	80	10	0.52
MTBKHFA63X25U	63x25	105	119	62	120	11-17	80	10	0.54
MTBKHFA63X32U	63x32	105	119	62	120	11-17	80	10	0.53
MTBKHFA75X20U	75x20	105	110	77	120	11-17	90	10	0.66
MTBKHFA75X25U	75x25	105	110	77	120	11-17	90	10	0.68
MTBKHFA75X32U	75x32	105	110	77	120	11-17	90	10	0.68
MTBKHFA90X20U	90x20	105	110	77	120	11-17	90	10	0.60
MTBKHFA90X25U	90x25	105	110	77	120	11-17	90	10	0.60
MTBKHFA90X32U	90x32	105	110	77	120	11-17	90	10	0.62
MTBKHFA110X20U	110x20	105	117	87	120	11-17	80	10	0.64
MTBKHFA110X25U	110x25	105	117	87	120	11-17	80	10	0.65
MTBKHFA110X32U	110x32	105	117	87	120	11-17	80	10	0.65
MTBKHFA125X20U	125x20	105	117	95	120	11-17	80	10	0.65
MTBKHFA125X25U	125x25	105	117	95	120	11-17	80	10	0.66

◇ Underpart with single screw.  
Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



**Optional cutter tube**

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA63X32UT) – STV 1206/06-001

**SDR RANGE 11-17  
WATER PN 16  
GAS 10 BAR  
PE100**



**1206/01-001**



**MULTI SEAL TAPPING TEE / Ø 20/25/32mm OUTLET / Ø 40-225mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE**

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA125X32U	125x32	105	117	95	120	11-17	80	10	0.67
MTBKHFA160X20U	160x20	105	122	112	120	11-17	100	10	0.73
MTBKHFA160X25U	160x25	105	122	112	120	11-17	100	10	0.73
MTBKHFA160X32U	160x32	105	122	112	120	11-17	100	10	0.71
MTBKHFA180X20U	180x20	105	122	122	120	11-17	100	10	0.74
MTBKHFA180X25U	180x25	105	122	122	120	11-17	100	10	0.75
MTBKHFA180X32U	180x32	105	122	122	120	11-17	100	10	0.73
MTBKHFA200X20U	200x20	105	122	132	120	11-17	100	10	0.71
MTBKHFA200X25U	200x25	105	122	132	120	11-17	100	10	0.73
MTBKHFA200X32U	200x32	105	122	132	120	11-17	100	10	0.73
MTBKHFA225X20U	225x20	105	122	145	120	11-17	100	10	0.76
MTBKHFA225X25U	225x25	105	122	145	120	11-17	100	10	0.78
MTBKHFA225X32U	225x32	105	122	145	120	11-17	100	10	0.78

◊ Underpart with single screw.  
Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# MULTI SEAL TAPPING TEE

Ø 40 / 50 / 63mm OUTLET  
Ø 63 - 225mm BODY

**UNDER CLAMP**

FUSAMATIC PIN 4.0mm  
WITHOUT CUTTER TUBE



All fittings are manufactured using virgin PE100 black polyethylene.

Multi Seal tapping tees deliver security, safety, simplicity and speed at the point of installation and offer a solution to providing a direct connection from a live or dead main.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



**SDR RANGE 11-17**  
**WATER PN 16**  
**GAS 10 BAR**  
**PE100**



**1206/11-001**



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Tamper-proof LockCap:** Cannot be over-tightened and won't vibrate loose

**O-ring seals:** Two O-ring seals protect against leakage

**Double spigot outlet:** Ample spigot length to cut off a coupler and fuse a second fitting

**Saddle and fusion mat:** Designed to minimise joint cycle times

**Optional cutter tube:** Locks into the integral cutter allowing for leak free cut through of the mains pipe

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Tapping/cutter keys 281

Test caps 281

Integral flow limiters 236-243

Generators 278

Fusion Assist

## Optional cutter tube

To order Multi Seal with the optional cutter tube simply add 'T' to the end of the fitting code (i.e. MTBKHFA225X40UT) – STV 1206/16-001

MULTI SEAL TAPPING TEE / Ø 40/50/63mm OUTLET / Ø 63-225mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm / WITHOUT CUTTER TUBE

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MTBKHFA63X40U	63x40	165	155	59.5	146	11-17	100	10	0.95
MTBKHFA63X50U	63x50	165	155	59.5	146	11-17	100	10	0.96
MTBKHFA63X63U	63x63	165	155	59.5	146	11-17	100	10	1.01
MTBKHFA75X40U	75x40	165	152	57	146	11-17	120	10	1.11
MTBKHFA75X50U	75x50	165	152	57	146	11-17	120	10	1.10
MTBKHFA75X63U	75x63	165	152	57	146	11-17	120	10	1.15
MTBKHFA90X40U	90x40	165	152	57	146	11-17	100	10	1.06
MTBKHFA90X50U	90x50	165	152	57	146	11-17	100	10	1.10
MTBKHFA90X63U	90x63	165	152	57	146	11-17	100	10	1.12
MTBKHFA110X40U	110x40	165	176	105	146	11-17	100	10	1.09
MTBKHFA110X50U	110x50	165	176	105	146	11-17	100	10	1.10
MTBKHFA110X63U	110x63	165	176	105	146	11-17	100	10	1.15
MTBKHFA125X40U	125x40	165	178	112	146	11-17	100	10	1.08
MTBKHFA125X50U	125x50	165	178	112	146	11-17	100	10	1.10
MTBKHFA125X63U	125x63	165	178	112	146	11-17	100	10	1.15
MTBKHFA160X40U	160x40	165	182	137	146	11-17	100	10	1.13
MTBKHFA160X50U	160x50	165	182	137	146	11-17	100	10	1.14
MTBKHFA160X63U	160x63	165	182	137	146	11-17	100	10	1.19
MTBKHFA180X40U	180x40	165	183	147	146	11-17	100	10	1.15
MTBKHFA180X50U	180x50	165	183	147	146	11-17	100	10	1.17
MTBKHFA180X63U	180x63	165	183	147	146	11-17	100	10	1.22
MTBKHFA200X40U	200x40	165	183	157	146	11-17	100	10	1.12
MTBKHFA200X50U	200x50	165	183	157	146	11-17	100	10	1.17
MTBKHFA200X63U	200x63	165	183	157	146	11-17	100	10	1.21
MTBKHFA225X40U	225x40	165	183	169	146	11-17	100	10	1.18
MTBKHFA225X50U	225x50	165	183	169	146	11-17	100	10	1.19
MTBKHFA225X63U	225x63	165	183	169	146	11-17	100	10	1.26

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# TAPPING VALVE SADDLE

Ø 63mm OUTLET  
Ø 63-225mm BODY  
UNDER CLAMP  
FUSAMATIC PIN 4.0mm

All fittings are manufactured using virgin PE100 black polyethylene.

Tapping valve saddles are specialised fittings used to add a new branch connection with an integral isolation valve to an existing pipeline, without disrupting the main flow.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of brass - CW617N

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Cutter and spindle:** 14mm AF Stainless Steel Grade 316 drive shaft provides a method of driving the integral brass cutter through the mains pipe wall in addition to actuating the valve once the cut through operation has been carried out (Max permitted cutting torque 120Nm)

**Moulded-in brass sleeve:** Design with integrated O-rings – provide a gas/water tight seal for both dead and live mains

**Integrated brass bodied valve:** Provides a reusable shutoff point – eliminating the requirement for an additional in-line valve within the service off-take (Max permitted torque for valve operation 90Nm)

**Double spigot outlet:** Ample spigot length to cut off a coupler/reducer and fuse a second fitting

**Saddle and fusion mat:** Designed to minimise joint cycle times

**Under clamp:** Designed to snap quickly in place, saves time and avoids the need for specialist tooling

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Moulded into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Each fitting can be individually traced back to the raw material and critical components.

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories Page

Electrofusion welding machines 258

Pipe cutters 279 / 280

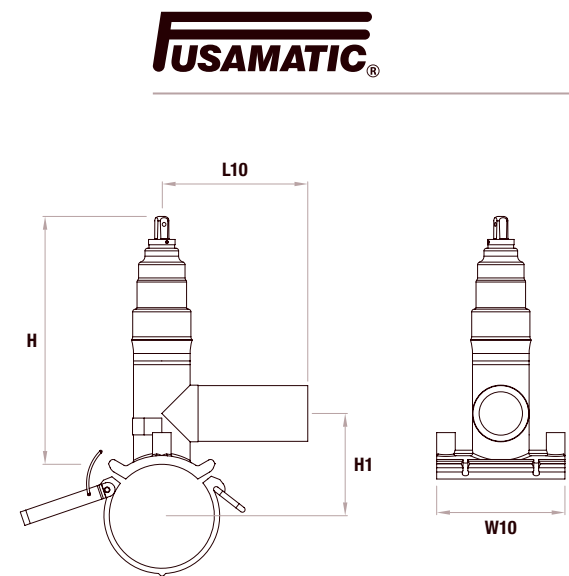
Pipe scrapers 264 / 279

Integral flow limiters 236-243

Generators 278

Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



TAPPING VALVE SADDLE / Ø 63mm OUTLET / Ø 63-225mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
TVSBKHFA63X63U	63x63	165	250	62	147	11-17	100	10	2.29
TVSBKHFA75X63U	75x63	165	250	68	147	11-17	120	10	2.40
TVSBKHFA90X63U	90x63	165	250	78	147	11-17	100	10	2.33
TVSBKHFA110X63U	110x63	165	269	103	147	11-17	120	10	2.49
TVSBKHFA125X63U	125x63	165	269	112	147	11-17	120	10	2.50
TVSBKHFA160X63U	160x63	165	272	137	147	11-17	120	10	2.53
TVSBKHFA180X63U	180x63	165	272	147	147	11-17	100	10	2.55
TVSBKHFA200X63U	200x63	165	272	157	147	11-17	100	10	2.55
TVSBKHFA225X63U	225x63	165	272	169	147	11-17	100	10	2.59

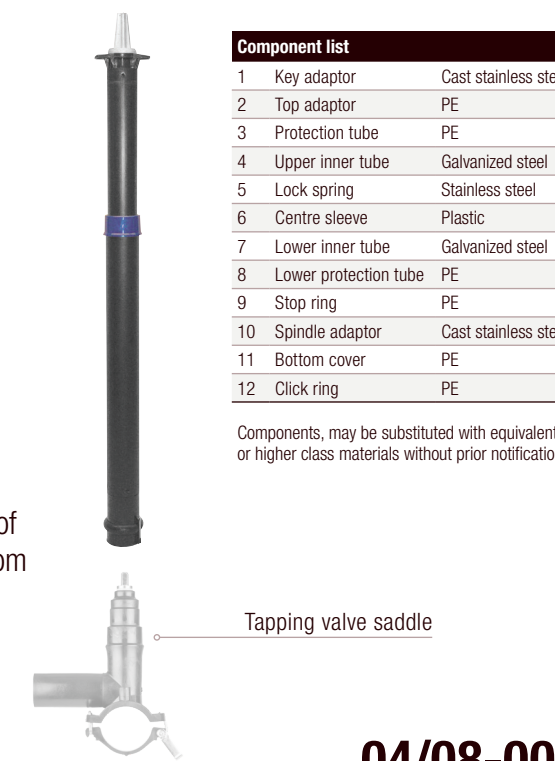
1233/01-001



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# TELESCOPIC EXTENSION SPINDLE

Telescopic extension spindles are designed for ease of use and long service life. The two fixation lugs can be attached to AVK surface boxes, a lock spring prevents the telescopic part from collapsing during installation, and a defrosting hole enables insertion of a heating element. The extension spindles are made of corrosion-free materials and the centre sleeve and bottom cover protect against penetration of impurities.



Component list		
1	Key adaptor	Cast stainless steel
2	Top adaptor	PE
3	Protection tube	PE
4	Upper inner tube	Galvanized steel
5	Lock spring	Stainless steel
6	Centre sleeve	Plastic
7	Lower inner tube	Galvanized steel
8	Lower protection tube	PE
9	Stop ring	PE
10	Spindle adaptor	Cast stainless steel
11	Bottom cover	PE
12	Click ring	PE

Components, may be substituted with equivalent or higher class materials without prior notification.

Tapping valve saddle

04/08-001

## TELESCOPIC EXTENSION SPINDLE FOR SERVICE CONNECTION VALVES

Reference code	Application	L8 mm	Pipe cover range mm	D mm	F3 mm	Theoretical weight/kg
04-032-2-0002	Water, natural liquids and gas	450-700	700-920	98	23-32	1.9
04-032-2-0502	Water, natural liquids and gas	650-1100	900-1320	98	23-32	2.6
04-032-2-1002	Water, natural liquids and gas	1050-1750	1300-1970	98	23-32	3.7
04-032-2-1202	Water, natural liquids and gas	1400-2350	1650-2570	98	23-32	5.0
04-032-2-1502	Water, natural liquids and gas	1700-2900	1950-3120	98	23-32	5.9

## Product information

The conical key adaptor fits most standard T-keys

The top adaptor has a defrosting hole intended for insertion of a heating element to prevent freezing of ground water inside

The two fixation lugs can be attached to AVK surface boxes and support tiles

A lock spring prevents the telescopic part from collapsing during installation, as it creates friction inside the inner square tube

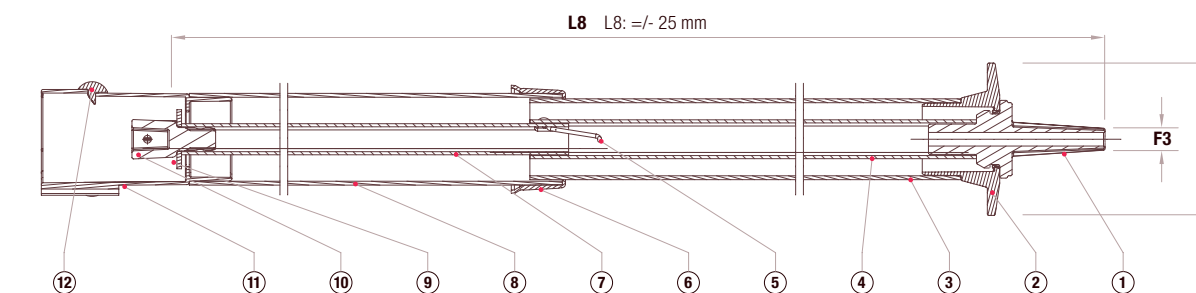
The centre sleeve protects against penetration of impurities between the two outer PE pipes

The inner tube is press fit to the key adaptor and bottom adaptor to safeguard the galvanization of the tube

Fast "Safe-click" mounting by fixing the spindle adaptor to the valve stem with a split and turning the bottom adaptor until a "click" indicates fixation to the valve bonnet

The bottom cover protects the valve spindle from sand and dirt and enables it to rotate freely

The design, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.



# FLEX TEE TAPPING TEE

Ø 20 / 25 / 32mm OUTLET  
 Ø 40 - 180mm BODY  
 UNDER STRAP  
 FUSAMATIC PIN 4.0mm



Designed to provide a solution to the jointing of tapping tees to oval and coiled pipe, enabling secure and robust quality joints every time.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



1207/01-001



**SDR RANGE 11-17**  
**WATER PN 16**  
**GAS 10 BAR**  
**PE100**



FLEX TEE TAPPING TEE / Ø 20 / 25 / 32mm OUTLET / Ø 40 - 180mm BODY / UNDER STRAP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	H mm	H1 mm	W10 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FLTBKHFA40X20U	40x20	83	100	45.5	112	11	45	5	0.17
FLTBKHFA40X25U	40x25	83	100	45.5	112	11	45	5	0.17
FLTBKHFA40X32U	40x32	83	100	45.5	112	11	45	5	0.17
FLTBKHFA50X20U	50x20	83	100	51.5	112	11	45	5	0.19
FLTBKHFA50X25U	50x25	83	100	51.5	112	11	45	5	0.19
FLTBKHFA50X32U	50x32	83	100	51.5	112	11	45	5	0.19
FLTBKHFA63X20U	63x20	82	100	59.5	119	11	110	10	0.23
FLTBKHFA63X25U	63x25	82	100	59.5	119	11	110	10	0.23
FLTBKHFA63X32U	63x32	82	100	59.5	119	11	110	10	0.23
FLTBKHFA75X20U	75x20	82	100	65.5	119	11-17	110	10	0.23
FLTBKHFA75X25U	75x25	82	100	65.5	119	11-17	110	10	0.23
FLTBKHFA75X32U	75x32	82	100	65.5	119	11-17	110	10	0.23
FLTBKHFA90X20U	90x20	82	100	73	119	11-17	110	10	0.24
FLTBKHFA90X25U	90x25	82	100	73	119	11-17	110	10	0.24
FLTBKHFA90X32U	90x32	82	100	73	119	11-17	110	10	0.24
FLTBKHFA110X20U	110x20	92	100	83	119	11-17	120	10	0.24
FLTBKHFA110X25U	110x25	92	100	83	119	11-17	120	10	0.24
FLTBKHFA110X32U	110x32	92	100	83	119	11-17	120	10	0.24
FLTBKHFA125X20U	125x20	92	100	90.5	119	11-17	120	10	0.25
FLTBKHFA125X25U	125x25	92	100	90.5	119	11-17	120	10	0.25
FLTBKHFA125X32U	125x32	92	100	90.5	119	11-17	120	10	0.25
FLTBKHFA160X20U	160x20	92	100	108	119	11-17	140	10	0.27
FLTBKHFA160X25U	160x25	92	100	108	119	11-17	140	10	0.27
FLTBKHFA160X32U	160x32	92	100	108	119	11-17	140	10	0.27
FLTBKHFA180X20U	180x20	92	100	118	119	11-17	140	10	0.28
FLTBKHFA180X25U	180x25	92	100	118	119	11-17	140	10	0.28
FLTBKHFA180X32U	180x32	92	100	118	119	11-17	140	10	0.28

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Applications				
<input type="checkbox"/> Gas	<input type="checkbox"/> Water	<input type="checkbox"/> Wastewater	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Mining

### Product information

- Material:** All fittings are manufactured using virgin PE100 black polyethylene
- Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.
- Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)
- Rising pin fusion indicators:** Allow for easy monitoring of the fusion process
- Temperature range:** -10°C to +40°C
- Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)
- Manual welding parameters:** Incorporated into the body of the fitting for easy reference
- Flexible:** The flexible body and electrofusion mat conforms to the shape of the pipe – quality joints without rerounding clamps
- Installation:** Fast and simple installation by means of two screws – only requires a screwdriver to install – removes the need for a top loading clamp
- Understrap:** Sacrificial under strap keeps the tapping tee in place both during and after the electrofusion jointing process
- Individual numbering:** Each fitting is individually numbered for precise tracking
- Permanent batch number:** Clearly marked for quality control
- Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components
- ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4
- Brand:** Fusamatic branded

### Designed and manufactured to

- EN ISO 15494
- EN 12201-3
- EN 1555-3
- ISO 4437-3
- ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories Page

- Electrofusion welding machines 258
- Pipe cutters 279 / 280
- Pipe scrapers 264 / 279
- Top loading clamp 269
- Tapping/cutter keys 281
- Integral flow limiters 236-243
- Generators 278
- Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# BRANCH SADDLE

Ø 63mm OUTLET  
 Ø 250 - 450mm BODY  
 TOP LOADING  
 FUSAMATIC PIN 4.0mm

Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
 All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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Fusion Assist	

**SDR RANGE 11 -21**  
**WATER PN 16**  
**GAS 10 BAR**  
**PE100**



BRANCH SADDLE / Ø 63mm OUTLET / Ø 250 - 450mm BODY / TOP LOADING / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MBBKHFA250X63	250x63	125	75	146	122	11-21	110	10	0.36
MBBKHFA280X63	280x63	140	75	146	122	11-21	120	10	0.37
MBBKHFA315X63	315x63	140	75	146	122	11-21	120	10	0.38
MBBKHFA355X63	355x63	140	75	146	122	11-21	120	10	0.39
MBKHFA400450X63	400/450x63	146	72	146	152	11-21	120	15	0.40

Refer to the table above for the SDR rating of each individual fitting.

1208/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.





# BRANCH SADDLE

Ø 40/50/63mm OUTLET  
Ø 63-225mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



SDR RANGE 11-17  
WATER PN 16  
GAS 10 BAR  
PE100



1208/11-001



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Sacrificial toggle-clamp underpart snaps quickly into place, saves the installer time, avoids the need for specialist tooling and provides proof of clamping during the Fusion cycle

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

BRANCH SADDLE / Ø 40/50/63mm OUTLET / Ø 63-225mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
MBBKHFA63X40U	63x40	115	75	147	119	11-17	100	10	0.47
MBBKHFA63X50U	63x50	115	75	147	119	11-17	100	10	0.48
MBBKHFA63X63U	63x63	115	75	147	119	11-17	100	10	0.50
MBBKHFA75X40U	75x40	115	75	147	119	11-17	120	10	0.62
MBBKHFA75X50U	75x50	115	75	147	119	11-17	120	10	0.64
MBBKHFA75X63U	75x63	115	75	147	119	11-17	120	10	0.65
MBBKHFA90X40U	90x40	115	75	147	122	11-17	100	10	0.58
MBBKHFA90X50U	90x50	115	75	147	122	11-17	100	10	0.60
MBBKHFA90X63U	90x63	115	75	147	122	11-17	100	10	0.63
MBBKHFA110X40U	110x40	118	75	147	122	11-17	100	10	0.62
MBBKHFA110X50U	110x50	118	75	147	122	11-17	100	10	0.63
MBBKHFA110X63U	110x63	118	75	147	122	11-17	100	10	0.64
MBBKHFA125X40U	125x40	118	75	147	122	11-17	100	10	0.62
MBBKHFA125X50U	125x50	118	75	147	122	11-17	100	10	0.62
MBBKHFA125X63U	125x63	118	75	147	122	11-17	100	10	0.64
MBBKHFA160X40U	160x40	125	75	147	122	11-17	100	10	0.66
MBBKHFA160X50U	160x50	125	75	147	122	11-17	100	10	0.66
MBBKHFA160X63U	160x63	125	75	147	122	11-17	100	10	0.68
MBBKHFA180X40U	180x40	125	75	147	122	11-17	100	10	0.70
MBBKHFA180X50U	180x50	125	75	147	122	11-17	100	10	0.70
MBBKHFA180X63U	180x63	125	75	147	122	11-17	100	10	0.70
MBBKHFA200X40U	200x40	125	75	147	122	11-17	100	10	0.70
MBBKHFA200X50U	200x50	125	75	147	122	11-17	100	10	0.70
MBBKHFA200X63U	200x63	125	75	147	122	11-17	100	10	0.70
MBBKHFA225X40U	225x40	125	75	147	122	11-17	100	10	0.73
MBBKHFA225X50U	225x50	125	75	147	122	11-17	100	10	0.74
MBBKHFA225X63U	225x63	125	75	147	122	11-17	100	10	0.75

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# BRANCH SADDLE

Ø 20 / 25 / 32 / 40 / 50 / 63mm OUTLET  
Ø 40 - 90mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Sacrificial toggle-clamp underpart snaps quickly into place, saves the installer time, avoids the need for specialist tooling and provides proof of clamping during the Fusion cycle

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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SDR RANGE 11-17  
WATER PN 16  
GAS 10 BAR  
PE100



BRANCH SADDLE / Ø 20 / 25 / 32 / 40 / 50 / 63mm OUTLET / Ø 40 - 90mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
BBKHFA40X20U	40x20	93	51	103	83	11	50	5	0.19
BBKHFA40X25U	40x25	90	52	103	83	11	50	5	0.19
BBKHFA40X32U	40x32	90	57	103	83	11	50	5	0.19
BBKHFA63X20U	63x20	90	50	122	105	11	140	10	0.31
BBKHFA63X25U	63x25	106	59	122	105	11	140	10	0.31
BBKHFA63X32U	63x32	106	59	122	105	11	140	10	0.31
BBKHFA90X20U	90x20	91	51	136	133	11-17	140	10	0.44
BBKHFA90X25U	90x25	91	51	136	133	11-17	140	10	0.44
BBKHFA90X32U	90x32	91	51	136	133	11-17	140	10	0.44
BBKHFA90X40U	90x40	105	69	136	133	11-17	140	10	0.45
BBKHFA90X50U	90x50	105	82	136	133	11-17	140	10	0.47
BBKHFA90X63U	90x63	105	88	136	133	11-17	140	10	0.50

Refer to the table above for the SDR rating of each individual fitting.

1209/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# BRANCH SADDLE

Ø 90 / 110 / 125mm OUTLET  
Ø 90 - 250mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Under clamp provides proof of clamping during the fusion cycle

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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SDR RANGE 11-17  
WATER PN 16  
GAS 10 BAR  
PE100



1209/11-001



BRANCH SADDLE / Ø 90 / 110 / 125mm OUTLET / Ø 90 - 250mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
BBKHFA90X90U	90x90	124	84	144	154	11-17	80	10	1.19
BBKHFA110X90U	110x90	121	84	165	180	11-17	120	10	1.22
BBKHFA125X90U	125x90	114	84	165	180	11-17	120	10	1.16
BBKHFA160X90U	160x90	110	84	215	236	11-17	120	10	2.09
BBKHFA160X110U	160x110	120	84	165	317	11-17	120	10	2.17
BBKHFA180X90U	180x90	100	84	215	236	11-17	120	10	1.94
BBKHFA180X110U	180x110	121	87	217	236	11-17	120	10	2.03
BBKHFA180X125U	180x125	121	98	217	236	11-17	120	10	2.16
BBKHFA200X90U	200x90	115	84	165	263	11-17	120	10	1.99
BBKHFA225X90U	225x90	113	84	165	291	11-17	120	10	2.19
BBKHFA250X90U	250x90	120	84	165	317	11-17	120	10	2.67

Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# BRANCH SADDLE

Ø 110 / 125mm OUTLET  
Ø 225 - 630mm BODY

UNDER STRAP

MANUAL PIN 4.0mm

Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under strap:** Sacrificial under strap offers both cost and time efficient installation, whilst ensuring effective clamping forces are maintained during the fusion cycle on larger mains pipe

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Generators	278
Fusion Assist	

## SDR RANGE 11 - 26 WATER PN 16 GAS 10 BAR PE100



BRANCH SADDLE / Ø 110/125mm OUTLET / Ø 225-630mm BODY / UNDER STRAP / MANUAL PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
BBKHFM225X125U $\diamond$	225x125	123	98	310	327	11-21	500	30	7.70
BBKHFM250X125U $\diamond$	250x125	110	98	310	327	11-21	500	30	6.97
BBKHFM315X110U	315x110	193	150	300	360	11-26	460	20	4.65
BBKHFM315X125U	315x125	193	150	300	360	11-26	460	20	4.60
BBKHFM355X110U	355x110	193	150	300	360	11-26	460	20	4.47
BBKHFM355X125U	355x125	193	150	300	360	11-26	460	20	4.48
BBKHFM400X110U	400x110	192	150	300	360	11-26	460	20	4.48
BBKHFM400X125U	400x125	193	150	300	360	11-26	460	20	4.59
BBKHFM630X110U	630x110	193	150	300	360	11-26	460	20	4.81
BBKHFM630X125U	630x125	193	150	300	360	11-26	460	20	5.01

$\diamond$  Under clamp design.  
Refer to the table above for the SDR rating of each individual fitting.

1209/10-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# BRANCH SADDLE

Ø 160 / 180mm OUTLET  
Ø 315 - 630mm BODY

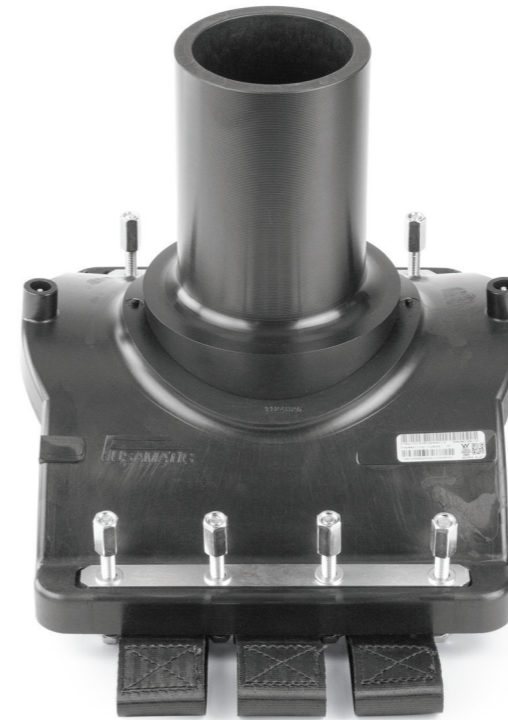
**UNDER STRAP**

MANUAL PIN 4.0mm

Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under strap:** Sacrificial under strap offers both cost and time efficient installation, whilst ensuring effective clamping forces are maintained during the fusion cycle on larger mains pipe

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Generators 278

Fusion Assist

**SDR RANGE 11 -26**  
**WATER PN 16**  
**GAS 10 BAR**  
**PE100**



**1209/20-001**



BRANCH SADDLE / Ø 160/180mm OUTLET / Ø 315-630mm BODY / UNDER STRAP / MANUAL PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
BBKHFM315X160U	315x160	193	150	300	360	11-26	460	20	4.97
BBKHFM315X180U	315x180	193	150	300	360	11-26	460	20	4.99
BBKHFM355X160U	355x160	193	150	300	360	11-26	460	20	4.84
BBKHFM355X180U	355x180	193	150	300	360	11-26	460	20	5.04
BBKHFM400X160U	400x160	193	150	300	360	11-26	460	20	4.84
BBKHFM400X180U	400x180	193	150	300	360	11-26	460	20	5.05
BBKHFM630X160U	630x160	193	150	300	360	11-26	460	20	5.10
BBKHFM630X180U	630x180	193	150	300	360	11-26	460	20	5.30

Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# FLANGED BRANCH SADDLE

Ø 125mm x DN100 FLANGED OUTLET  
Ø 225 - 630mm BODY

UNDER STRAP / UNDER CLAMP

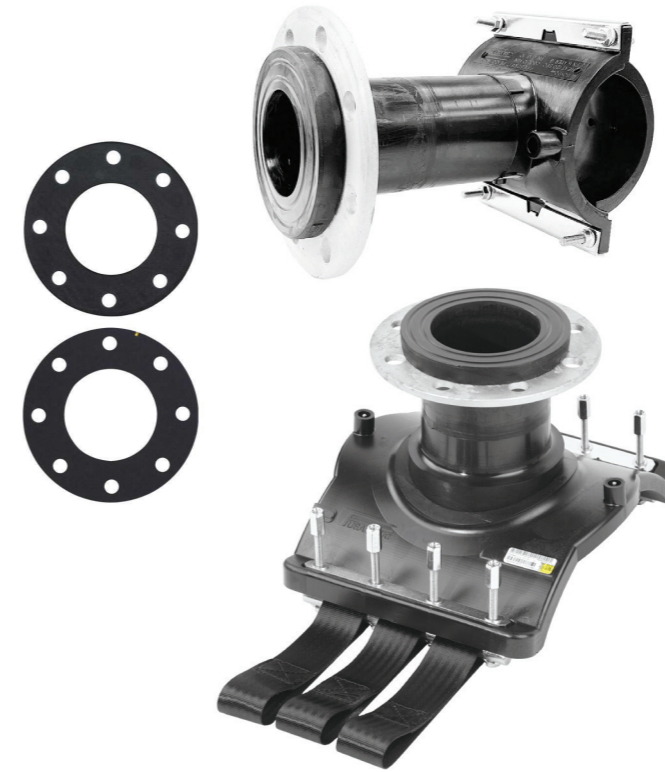
MANUAL PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Construction:** A flanged branch saddle consists of a standard electrofusion saddle with a factory welded stub flange and backing ring assembly (PCD against EN 1092-NP16) – ideal for connecting flanged components such as valves and bypass equipment

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under strap/Under clamp:** Sacrificial under strap/under clamp locks fitting in place during weld cycle, and can be retained in situ after installation

**Electrofusion area:** Large, to enhance weld integrity

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Generators 278

Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11 -26 WATER PN 16 GAS 10 BAR PE100



FLANGED BRANCH SADDLE / Ø 125mm x DN100 FLANGED OUTLET / Ø 225 - 630mm BODY / UNDER STRAP / MANUAL PIN 4.0mm

Reference code	Fitting size mm	H mm	W10 mm	E mm	K mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FBKHFM225X100DP	225x100	178	310	327	180	11-21	500	30	8.98
FBKHFM250X100DP	250x100	178	310	327	180	11-21	500	30	9.15
FBKHFM315X100DP	315x100	178	300	360	180	11-26	460	20	6.33
FBKHFM355X100DP	355x100	178	300	360	180	11-26	460	20	6.25
FBKHFM400X100DP	400x100	178	300	360	180	11-26	460	20	7.77
FBKHFM630X100DP	630x100	178	300	360	180	11-26	460	20	7.77

◇ DP = Flange branch saddle assembly with galvanised backing ring, NBR and EDPM full face gaskets – PCD against EN1092 - NP16.  
Fabricated fitting – 'H' height dimension may vary subject to component availability.  
For use with large diameter under pressure drill. Rilsan backing ring available upon request.  
Refer to the table above for the SDR rating of each individual fitting.

1216/00-001



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# FLANGED BRANCH SADDLE

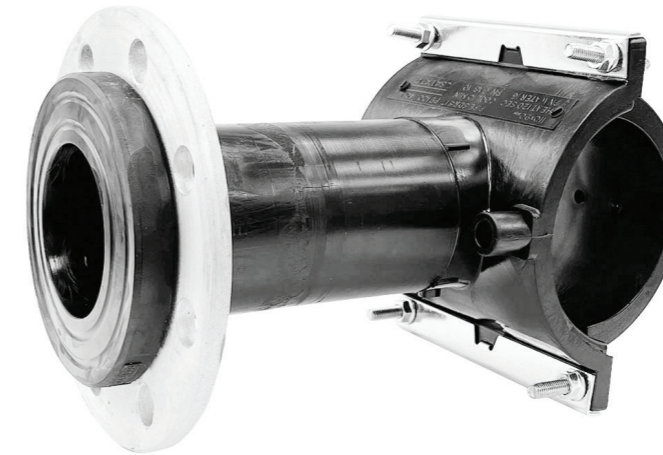
Ø DN80 / 100 FLANGED OUTLET  
 Ø 90 - 250mm BODY  
**UNDER CLAMP**  
 FUSAMATIC PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas
 ● Water
 ● Wastewater
 ● Irrigation
 ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Construction:** A flanged branch saddle consists of a standard electrofusion saddle with a factory welded stub flange and backing ring assembly (PCD against EN 1092-NP16) – ideal for connecting flanged components such as valves and bypass equipment

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Sacrificial under clamp locks fitting in place during weld cycle, and can be retained in situ after installation

**Electrofusion area:** Large, to enhance weld integrity

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



**SDR RANGE 11 - 21**  
**WATER PN 16**  
**GAS 10 BAR**  
**PE100**



1216/01-001



FLANGED BRANCH SADDLE / Ø DN80 / 100 FLANGED OUTLET / Ø 90 - 250mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	W10 mm	E mm	K mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FBBKHFA90X80U #	90x80	178	167	154	160	11 - 17	80	10	2.93
FBBKHFA110X80U †	110x80	168	165	180	160	11 - 17	120	10	2.94
FBBKHFA125X80U #	125x80	178	165	180	160	11 - 17	120	10	2.86
FBBKHFA160X80U †	160x80	176	215	236	160	11 - 17	120	10	3.82
FBBKHFA160X100U †	160x100	173	215	236	180	11 - 17	120	10	4.06
FBBKHFA180X80U #	180x80	176	215	236	160	11 - 17	120	10	3.79
FBBKHFA180X100U #	180x100	173	215	236	180	11 - 17	120	10	4.06
FBBKHFA200X80U †	200x80	174	165	263	160	11 - 17	120	10	4.64
FBBKHFA225X80U †	225x80	174	165	291	160	11 - 17	120	10	4.74
FBBKHFA250X80U #	250x80	174	165	317	160	11 - 21	120	10	4.39

# Flange branch saddle assembly and galvanised backing ring. PCD against EN 1092-NP16.

† Flange branch saddle assembly and galvanised backing ring. PCD against EN 1092-NP16 Class B - GIS PL2 Part 4. Refer to the table above for the SDR rating of each individual fitting.

Rilsan backing ring available upon request.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# FLANGED BRANCH SADDLE

Ø DN150 / 200 / 250 FLANGED OUTLET  
Ø 250 - 630mm BODY

FASTCUT

UNDER STRAP / UNDER CLAMP

MANUAL PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16 and Gas 10 Bar - SDR 11 – Water PN10 and Gas 6 Bar - SDR 17  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Construction:** A flanged branch saddle consists of a standard electrofusion saddle with a factory welded stub flange and backing ring assembly (PCD against EN 1092-NP16) – ideal for connecting flanged components such as valves and bypass equipment

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under strap/Under clamp:** Sacrificial under strap/under clamp locks fitting in place during weld cycle, and can be retained in situ after installation

**Electrofusion area:** Large, to enhance weld integrity

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



**SDR RANGE 11 -26**  
**WATER PN 16/10**  
**GAS 10/6 BAR**  
**PE100**



**1216/20-001**



FLANGED BRANCH SADDLE / Ø DN150 / DN200 / DN250 FLANGED OUTLET / Ø 250 - 630mm BODY / UNDER STRAP / UNDER CLAMP / MANUAL PIN 4.0mm

Reference code	Fitting size mm	H mm	W10 mm	E mm	K mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FBKHFM250X150DP #	250x150	190	310	320	240	11-21	460	20	11.11
FBKHFM250X200DP #	250x200	190	310	320	295	11-21	460	20	12.81
FBKHFM280X150DP #	280x150	190	310	320	295	11-21	460	20	12.80
FBKHFM280X200DP #	280x200	190	310	320	295	11-21	460	20	12.80
FBKHFM315X150DP †	315x150	190	300	360	240	11-26	460	20	8.26
FBKHFM315X250DP †	315x250	190	420	385	355	11-26	600	30	26.91
FBKHFM355X150DP †	355x150	190	300	360	240	11-26	460	20	8.35
FBKHFM355X250DP †	355x250	190	420	425	355	11-26	600	30	26.72
FBKHFM400X150DP #	400x150	215	300	360	240	11-26	460	20	8.19
FBKHFM400X250DP #	400x250	215	420	440	355	17-26	600	30	27.32
FBKHFM450X150DP #	450x150	215	420	530	240	17-26	440	30	15.24
FBKHFM450X250DP #	450x250	215	420	530	355	17-26	440	30	21.37
FBKHFM500X150DP #	500x150	215	420	580	240	17-26	440	30	15.34
FBKHFM500X250DP #	500x250	215	420	580	355	17-26	440	30	21.80
FBKHFM630X150DP #	630x150	215	300	360	240	11-26	460	20	8.39

# Class B - GIS PL2 Part 4.

† Class C - GIS PL2 Part 4.

Refer to the table above for the SDR rating of each individual fitting.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.

Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# FLANGED BRANCH SADDLE

Ø DN150 FLANGED OUTLET  
 Ø 315-400mm BODY  
**ALH FLOWSTOP DESIGN**  
**UNDER STRAP**  
 MANUAL PIN 4.0mm



Fusamatic Branch Saddles offer a solution for bypass, purging and off-takes on larger diameter pipe mains.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Gas 10 Bar  
 All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Manual pin 4.0mm

**Construction:** A flanged branch saddle consists of a standard electrofusion saddle with a factory welded stub flange and backing ring assembly (PCD against EN 1092-NP16) – ideal for connecting flanged components such as valves and bypass equipment

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under strap:** Sacrificial under strap locks fitting in place during weld cycle, and can be retained in situ after installation

**Sacrificial threaded cap:** Provides added security before blanking plate is fitted.

**Electrofusion area:** Large, to enhance weld integrity

**Brand:** Fusamatic branded

## Designed and manufactured to

GIS PL2-4

EN ISO 15494

EN 1555-3

ISO 4437-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR RANGE 11-26 GAS 10 BAR PE100

1216/10-001



FLANGED BRANCH SADDLE / Ø DN150 FLANGED OUTLET / Ø 315-400mm BODY / ALH FLOWSTOP DESIGN / UNDER STRAP / MANUAL PIN 4.0mm

Reference code	Fitting size mm	H mm	W10 mm	E mm	K mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
FBKHFM315X150ALH #	315x150	190	300	360	240	11-26	460	20	7.82
FBKHFM355X150ALH #	355x150	190	300	360	240	11-26	460	20	7.48
FBKHFM400X150ALH #	400x150	215	300	360	240	11-26	460	20	8.97

# Class B - GIS PL2 Part 4

Refer to the table above for the SDR rating of each individual fitting.

- ALH = Flange branch saddle assembly with galvanised backing ring - PCD against EN1092 - NP16.
- Fabricated fitting - 'H' height dimension may vary subject to component availability.

- These fittings are designed for use with ALH flow stopping equipment.
- For use with ALH flowstop bag tube and associated approved drilling equipment.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# BALLOON SADDLE

Ø 2½" THREADED OUTLET  
Ø 90-250mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm

Balloon Saddle comes complete with an external 2½" male thread intended for under pressure flow stopping kits and suitable drilling equipment for use on live HDPE mains.

Post drilling, the balloon saddle is supplied with a 2" brass plug to seal off the transition saddle.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of brass - CW617N or CW614N

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Sacrificial under clamp locks fitting in place during weld cycle, and can be retained in situ after installation

**Red cap:** Protects external thread

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



BALLOON SADDLE / Ø 2½" THREADED OUTLET / Ø 90-250mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	H1 mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
XBBKHFA90X2.5	90x2½"	71	15	144	154	11-17	80	10	2.29
XBBKHFA110X2.5	110x2½"	72	15	165	180	11-17	120	10	2.35
XBBKHFA125X2.5	125x2½"	73	15	165	180	11-17	120	10	2.29
XBBKHFA160X2.5	160x2½"	84	15	215	236	11-17	120	10	3.22
XBBKHFA180X2.5	180x2½"	74	15	215	236	11-17	140	10	3.33
XBBKHFA200X2.5	200x2½"	82	15	165	263	11-17	120	10	3.33
XBBKHFA225X2.5	225x2½"	80	15	165	291	11-17	120	10	3.33
XBBKHFA250X2.5	250x2½"	86	15	165	317	11-17	120	10	3.77

Refer to the table above for the SDR rating of each individual fitting.

1211/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# TRANSITION SADDLE

Ø 1¼ / 1½ / 2" THREADED OUTLET  
Ø 63 - 250mm BODY

UNDER CLAMP

FUSAMATIC PIN 4.0mm

Transition Saddles are available with a variety of female threaded BSP connections which permit a variety of solutions, such as under pressure connections, transition to imperial threaded systems, or connection to sensing, monitoring or air release systems.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of brass - CW617N or CW614N

**Pressure rating:** Water PN16 and Gas 10 Bar  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicator:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Under clamp:** Sacrificial under clamp locks fitting in place during weld cycle, and can be retained in situ after installation

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Generators	278
Fusion Assist	

## SDR RANGE 11-17 WATER PN 16 GAS 10 BAR PE100



TRANSITION SADDLE / Ø 1¼/1½/2" OUTLET / Ø 63-250mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	H mm	W10 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
XBBKHFA63X1.3	63x1¼"	57	118	102	11-17	120	10	1.58
XBBKHFA90X1.3	90x1¼"	57	144	154	11-17	80	10	1.89
XBBKHFA90X1.5	90x1½"	57	144	154	11-17	80	10	1.86
XBBKHFA90X2	90x2"	57	144	154	11-17	80	10	1.63
XBBKHFA110X1.3	110x1¼"	56	165	180	11-17	120	10	1.96
XBBKHFA110X1.5	110x1½"	56	165	180	11-17	120	10	1.94
XBBKHFA110X2	110x2"	56	165	180	11-17	120	10	1.71
XBBKHFA125X1.3	125x1¼"	58	165	180	11-17	120	10	1.91
XBBKHFA125X1.5	125x1½"	58	165	180	11-17	120	10	1.87
XBBKHFA125X2	125x2"	58	165	180	11-17	120	10	1.64
XBBKHFA160X1.3	160x1¼"	84	215	236	11-17	120	10	2.92
XBBKHFA160X1.5	160x1½"	84	215	236	11-17	120	10	2.79
XBBKHFA160X2	160x2"	84	215	236	11-17	120	10	2.65
XBBKHFA180X1.3	180x1¼"	77	215	236	11-17	140	10	2.40
XBBKHFA180X1.5	180x1½"	77	215	236	11-17	140	10	2.43
XBBKHFA180X2	180x2"	77	215	236	11-17	140	10	2.60
XBBKHFA200X2	200x2"	82	165	263	11-17	120	10	2.47
XBBKHFA225X2	225x2"	80	165	291	11-17	120	10	2.65
XBBKHFA250X2	250x2"	86	165	317	11-17	120	10	3.12

Note: Design supplied with threaded reducing bushes.  
Refer to the table above for the SDR rating of each individual fitting.

1212/01-001



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 90° DUCKFOOT BEND

Ø 90mm  
FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Our electrofusion Duckfoot Bend eliminates the need for mechanical joints with a fully fused design, compatible with our HDPE hydrant and riser kits.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

● Water
 ● Wastewater
 ● Irrigation
 ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

## Designed and manufactured to

EN ISO 15494

EN 12201-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

## SDR RANGE 11-17 WATER PN 16 PE100



1214/01-001



### 90° DUCKFOOT BEND / Ø 90mm / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	E mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
DFBBKHA90X90	90x90°	257	77	120	236	11-17	140	10	2.14

Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# DUCKFOOT BEND KIT

Ø DN80 FLANGED RISER  
 Ø 63-180mm BODY  
 FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Our electrofusion Duckfoot Bend eliminates the need for mechanical joints with a fully fused design, compatible with our HDPE hydrant and riser kits.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

- Water
- Wastewater
- Irrigation
- Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

**Kit includes:** Electrofusion Duckfoot Bend, Electrofusion Coupler and/or Electrofusion Reducer\*, Spigot Reducer\*, Riser, Flange, Gasket, Backing Ring\*\*, Bolts\*\*, Nuts\*\* and Washers\*\*

\* Spigot reducer and coupler in all kits except 90 x 80NP16, \*\*Rilsan or equivalent coating

## Designed and manufactured to

EN ISO 15494

EN 12201-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Fusion Assist	

## SDR RANGE 11-17 WATER PN 16 PE100



1215/01-001



### DUCKFOOT BEND KIT / Ø DN80 FLANGED RISER / Ø63-180mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	A mm	E mm	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
DFBBKHFA63X80KR	63x80	257	77	120	455	236	140	10	6.88
DFBBKHFA90X80KR	90x80	257	77	120	455	236	140	10	6.54
DFBKHFA110X80KR	110x80	257	77	120	455	236	140	10	7.63
DFBKHFA125X80KR	125x80	257	77	120	455	236	140	10	7.88
DFBKHFA160X80KR	160x80	257	77	120	455	236	140	10	10.67
DFBKHFA180X80KR	180x80	257	77	120	455	236	140	10	9.23

All kits are assembled using electrofusion and spigot components, certified against European norms or equivalent.

Rilsan coated backing ring – PCD against EN1092-NP16.

Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# HYDRANT BRANCH SADDLE KIT

Ø DN80 FLANGED RISER  
Ø 90-250mm BODY

**UNDER CLAMP**

FUSAMATIC PIN 4.0mm



All fittings are manufactured using virgin PE100 black polyethylene.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



## Applications

Water
  Wastewater
  Irrigation
  Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Pressure rating:** Water PN16

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

**Kit includes:** Electrofusion Hydrant Branch Saddle, Electrofusion Coupler\*, Riser, Flange, Gasket, Backing Ring\*\*, Bolts\*\*, Nuts\*\* and Washers\*\*

\*Coupler in kit is 90mm, \*\*Rilsan or equivalent coating

## Designed and manufactured to

EN ISO 15494

EN 12201-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Pipe alignment and rerounding clamps 266

Generators 278

Fusion Assist

## SDR RANGE 11-17 WATER PN 16 PE100



1218/01-001



HYDRANT BRANCH SADDLE KIT / Ø DN80mm FLANGED RISER / Ø 90-250mm BODY / UNDER CLAMP / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	W10 mm	E mm	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
HBSHFA90X80KRR	90x80	455	124	144	154	80	10	6.1
HBSHFA110X80KRR	110x80	455	121	165	180	120	10	5.91
HBSHFA125X80KRR	125x80	455	114	165	180	120	10	5.89
HBSHFA160X80KRR	160x80	455	110	215	236	120	10	7.02
HBSHFA180X80KRR	180x80	455	100	215	236	120	10	6.7
HBSHFA200X80KRR	200x80	455	115	165	263	120	10	7.09
HBSHFA225X80KRR	225x80	455	112	165	291	120	10	6.94
HBSHFA250X80KRR	250x80	455	120	165	317	120	10	7.38

All kits are assembled using electrofusion and spigot components, certified against European norms or equivalent. Rilsan coated backing ring – PCD against EN1092-NP16. Refer to the table above for the SDR rating of each individual fitting.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# SPIGOT FITTINGS



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# 90° ELBOW

LONG SPIGOT  
Ø 20-500mm

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

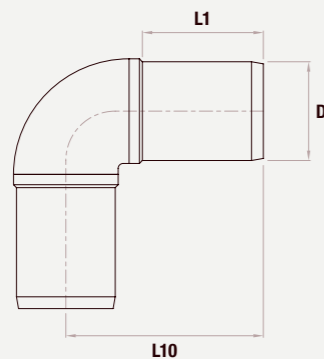
**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



## Designed and manufactured to

**SDR 17/11**

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

**SDR 9/7.4**

EN 12201-3  
Water only

## Accessories

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Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



**SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100**



**1353/16-001**



90° ELBOW / LONG SPIGOT / Ø 50-500mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSEHK50X90V	50-90°	50	108	80	0.11
LSEHK63X90V	63-90°	63	111	63	0.19
LSEHK75X90V	75-90°	75	126	70	0.32
LSEHK90X90V	90-90°	90	145	79	0.49
LSEHK110X90V	110-90°	110	161	82	0.78
LSEHK125X90V	125-90°	125	173	87	1.05
LSEHK140X90V	140-90°	140	195	92	1.51
LSEHK160X90V	160-90°	160	205	98	2.15
LSEHK180X90V	180-90°	180	230	105	3.1
LSEHK200X90V	200-90°	200	245	112	4.35
LSEHK225X90V	225-90°	225	264	120	5.26
LSEHK250X90V	250-90°	250	292	129	7.66
LSEHK280X90V	280-90°	280	340	139	11.46
LSEHK315X90V	315-90°	315	370	150	15.56
LSEHK355X90V	355-90°	355	401	164	22.17
LSEHK400X90V	400-90°	400	451	179	30.96
LSEHK450X90V	450-90°	450	522	202	43
LSEHK500X90V	500-90°	500	562	222	60

◇ Non Fusamatic branded.

**SDR 9  
WATER PN 20  
PE100**



**1253/20-001**



90° ELBOW / LONG SPIGOT / Ø 63-400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSEHK63X90R	63-90°	63	112	67	0.36
LSEHK75X90R	75-90°	75	127	72	0.05
LSEHK90X90R	90-90°	90	150	82	0.91
LSEHK110X90R	110-90°	110	167	90	1.48
LSEHK125X90R	125-90°	125	178	91	2.1
LSEHK140X90R	140-90°	140	192	96	2.97
LSEHK160X90R	160-90°	160	209	104	4.1
LSEHK180X90R	180-90°	180	223	107	5.04
LSEHK200X90R	200-90°	200	250	117	7.32
LSEHK225X90R	225-90°	225	265	122	8.82
LSEHK250X90R	250-90°	250	294	131	14
LSEHK280X90R	280-90°	280	322	126	19.19
LSEHK315X90R	315-90°	315	350	153	26.51
LSEHK355X90R	355-90°	355	375	165	32.49
LSEHK400X90R	400-90°	400	424	185	46.19

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.

Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

**SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100**



**1353/14-001**



90° ELBOW / LONG SPIGOT / Ø 20-500mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSEHK20X90N	20-90°	20	63	41	0.02
LSEHK25X90N	25-90°	25	63	41	0.02
LSEHK32X90N	32-90°	32	72	44	0.04
LSEHK40X90N	40-90°	40	80	49	0.07
LSEHK50X90N	50-90°	50	92	55	0.14
LSEHK63X90N	63-90°	63	111	63	0.25
LSEHK75X90N	75-90°	75	126	70	0.43
LSEHK90X90N	90-90°	90	145	79	0.67
LSEHK110X90N	110-90°	110	161	82	1.08
LSEHK125X90N	125-90°	125	173	87	1.47
LSEHK140X90N	140-90°	140	195	92	2.16
LSEHK160X90N	160-90°	160	205	92	2.9
LSEHK180X90N	180-90°	180	230	105	4.23
LSEHK200X90N	200-90°	200	245	112	5.97
LSEHK225X90N	225-90°	225	264	120	7.3
LSEHK250X90N	250-90°	250	292	129	10.35
LSEHK280X90N	280-90°	280	340	139	15.73
LSEHK315X90N	315-90°	315	370	150	21.17
LSEHK355X90N	355-90°	355	401	164	28.67
LSEHK400X90N	400-90°	400	451	179	41.5
LSEHK450X90N	450-90°	450	522	202	59
LSEHK500X90N	500-90°	500	562	222	80

◇ Non Fusamatic branded.

**SDR 7.4  
WATER PN 25  
PE100**



**1253/18-001**



90° ELBOW / LONG SPIGOT / Ø 25-400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSEHK25X90T	25-90°	25	71	47	0.04
LSEHK32X90T	32-90°	32	74	50	0.06
LSEHK40X90T	40-90°	40	88	56	0.11
LSEHK50X90T	50-90°	50	90	57	0.18
LSEHK63X90T	63-90°	63	122	67	0.38
LSEHK75X90T	75-90°	75	127	72	0.57
LSEHK90X90T	90-90°	90	150	82	0.96
LSEHK110X90T	110-90°	110	167	90	1.56
LSEHK125X90T	125-90°	125	178	91	2.21
LSEHK140X90T	140-90°	140	192	96	3.13
LSEHK160X90T	160-90°	160	209	104	4.3
LSEHK200X90T	200-90°	200	250	117	7.7
LSEHK225X90T	225-90°	225	265	122	9.28
LSEHK250X90T	250-90°	250	294	131	14.74
LSEHK280X90T	280-90°	280	322	126	20.2
LSEHK315X90T	315-90°	315	350	153	27.9
LSEHK355X90T	355-90°	355	375	165	34.2
LSEHK400X90T	400-90°	400	424	185	48.62



# 45° ELBOW

**LONG SPIGOT**  
Ø 20 - 500mm

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

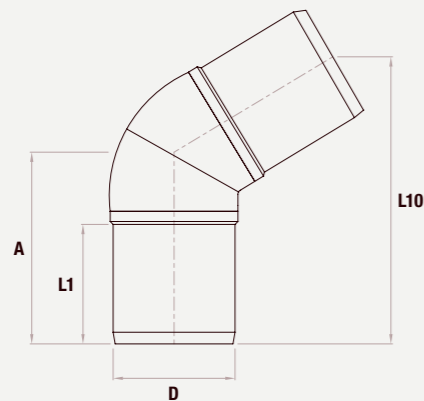
**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

**SDR 17/11**

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded

ISO 4427-3  
Fusamatic branded

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

**SDR 9/7.4**

EN 12201-3  
Water only

### Accessories

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Electrofusion welding machines 258

Pipe cutters 279 / 280

Pipe scrapers 264 / 279

Pipe alignment and rerounding clamps 266

Generators 278

Fusion Assist

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



**SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100**



**1353/02-001**



45° ELBOW / LONG SPIGOT / Ø 50 - 500mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSEHK50X45V	50-45°	50	153	61	76	0.08
LSEHK63X45V	63-45°	63	160	63	93	0.18
LSEHK75X45V	75-45°	75	176	70	102	0.25
LSEHK90X45V	90-45°	90	202	79	118	0.44
LSEHK110X45V	110-45°	110	220	82	128	0.7
LSEHK125X45V	125-45°	125	239	87	139	0.93
LSEHK140X45V	140-45°	140	250	92	145	1.25
LSEHK160X45V	160-45°	160	273	98	159	1.79
LSEHK180X45V	180-45°	180	290	105	168	2.38
LSEHK200X45V	200-45°	200	311	112	179	3.36
LSEHK225X45V	225-45°	225	341	120	198	4.37
LSEHK250X45V	250-45°	250	368	129	213	5.88
LSEHK280X45V	280-45°	280	406	139	235	8.2
LSEHK315X45V	315-45°	315	430	150	249	11.12
LSEHK355X45V	355-45°	355	490	164	284	16.15
LSEHK400X45V	400-45°	400	548	179	317	23
LSEHK450X45V	450-45°	450	-	202	375	33
LSEHK500X45V	500-45°	500	-	222	410	43

◇ Non Fusamatic branded.

**SDR 9  
WATER PN 20  
PE100**



**1253/06-001**



45° ELBOW / LONG SPIGOT / Ø 63 - 400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSEHK63X45R	63-45°	63	-	69	90	0.28
LSEHK75X45R	75-45°	75	-	73	90	0.43
LSEHK90X45R	90-45°	90	-	82	109	0.66
LSEHK110X45R	110-45°	110	-	93	127	1.16
LSEHK125X45R	125-45°	125	-	93	162	1.9
LSEHK140X45R	140-45°	140	-	97	163	2.49
LSEHK160X45R	160-45°	160	-	107	175	3.4
LSEHK180X45R	180-45°	180	-	108	175	4.16
LSEHK200X45R	200-45°	200	-	118	190	5.66
LSEHK225X45R	225-45°	225	-	120	210	7.45
LSEHK250X45R	250-45°	250	-	136	215	9.88
LSEHK280X45R	280-45°	280	-	142	258	14.92
LSEHK315X45R	315-45°	315	-	154	270	19.95
LSEHK355X45R	355-45°	355	-	165	267	24.19
LSEHK400X45R	400-45°	400	-	182	310	34.07

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

**SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100**



**1353/00-001**



45° ELBOW / LONG SPIGOT / Ø 20 - 500mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSEHK20X45N	20-45°	20	119	41	70	0.03
LSEHK25X45N	25-45°	25	125	41	73	0.04
LSEHK32X45N	32-45°	32	136	44	79	0.06
LSEHK40X45N	40-45°	40	145	49	85	0.85
LSEHK50X45N	50-45°	50	153	55	89	0.14
LSEHK63X45N	63-45°	63	160	63	93	0.23
LSEHK75X45N	75-45°	75	176	70	102	0.33
LSEHK90X45N	90-45°	90	202	79	118	0.58
LSEHK110X45N	110-45°	110	220	82	128	0.98
LSEHK125X45N	125-45°	125	239	87	139	1.3
LSEHK140X45N	140-45°	140	250	92	145	1.7
LSEHK160X45N	160-45°	160	273	98	159	2.44
LSEHK180X45N	180-45°	180	290	105	168	3.33
LSEHK200X45N	200-45°	200	311	112	179	4.43
LSEHK225X45N	225-45°	225	341	120	198	6.2
LSEHK250X45N	250-45°	250	368	129	213	8.18
LSEHK280X45N	280-45°	280	406	139	235	11.32
LSEHK315X45N	315-45°	315	430	150	249	14.6
LSEHK355X45N	355-45°	355	490	164	284	22.94
LSEHK400X45N	400-45°	400	548	179	317	31.1
LSEHK450X45N	450-45°	450	-	202	375	44
LSEHK500X45N	500-45°	500	-	222	410	57

◇ Non Fusamatic branded.

**SDR 7.4  
WATER PN 25  
PE100**



**1253/04-001**



45° ELBOW / LONG SPIGOT / Ø 40 - 400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSEHK40X45T	40-45°	40	-	58	78	0.1
LSEHK50X45T	50-45°	50	-	59	84	0.18
LSEHK63X45T	63-45°	63	-	69	90	0.29
LSEHK75X45T	75-45°	75	-	73	90	0.45
LSEHK90X45T	90-45°	90	-	82	109	0.69
LSEHK110X45T	110-45°	110	-	93	127	1.22
LSEHK125X45T	125-45°	125	-	93	162	2
LSEHK140X45T	140-45°	140	-	97	163	2.62
LSEHK160X45T	160-45°	160	-	107	175	3.58
LSEHK180X45T	180-45°	180	-	108	190	4.38
LSEHK200X45T	200-45°	200	-	118	190	5.96
LSEHK225X45T	225-45°	225	-	120	210	7.84
LSEHK250X45T	250-45°	250	-	135	215	10.4
LSEHK280X45T	280-45°	280	-	142	258	15.7
LSEHK315X45T	315-45°	315	-	154	270	21
LSEHK355X45T	355-45°	355	-	165	267	25.46
LSEHK400X45T	400-45°	400	-	182	310	35.86

# 90° MULTI BEND

## LONG SPIGOT

Ø 32-315mm

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100



1253/24-001



90° MULTI BEND / LONG SPIGOT / Ø 50-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSMBHK50X90V	50-90°	50	108	59	0.13
LSMBHK63X90V	63-90°	63	130	67	0.2
LSMBHK75X90V	75-90°	75	153	76	0.35
LSMBHK90X90V	90-90°	90	173	83	0.52
LSMBHK110X90V	110-90°	110	195	84	0.95
LSMBHK125X90V	125-90°	125	216	92	1.34
LSMBHK140X90V	140-90°	140	237	97	1.76
LSMBHK160X90V	160-90°	160	262	103	2.41
LSMBHK180X90V	180-90°	180	290	113	3.39
LSMBHK200X90V	200-90°	200	317	122	4.61
LSMBHK225X90V	225-90°	225	350	130	6.41
LSMBHK250X90V	250-90°	250	382	134	9.83
LSMBHK280X90V	280-90°	280	430	154	13.71
LSMBHK315X90V	315-90°	315	465	153	19.35

SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100

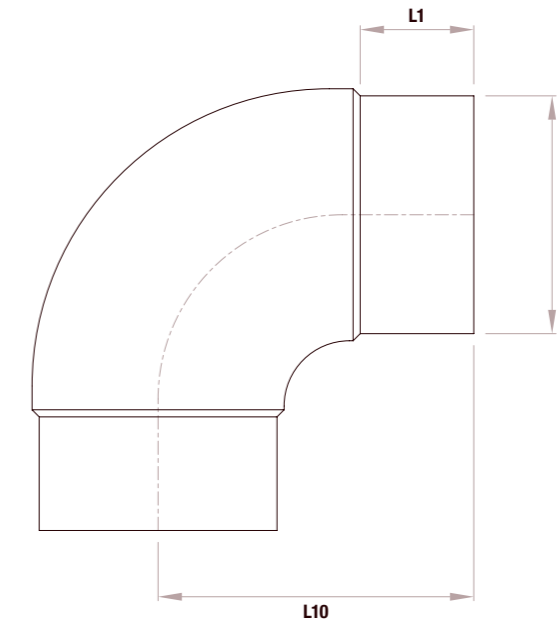


1253/22-001



90° MULTI BEND / LONG SPIGOT / Ø 32-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
LSMBHK32X90N	32-90°	32	79	48	0.04
LSMBHK40X90N	40-90°	40	92	52	0.08
LSMBHK50X90N	50-90°	50	107	59	0.15
LSMBHK63X90N	63-90°	63	131	69	0.28
LSMBHK75X90N	75-90°	75	153	76	0.46
LSMBHK90X90N	90-90°	90	173	83	0.76
LSMBHK110X90N	110-90°	110	195	84	1.3
LSMBHK125X90N	125-90°	125	216	92	1.82
LSMBHK140X90N	140-90°	140	237	96	2.45
LSMBHK160X90N	160-90°	160	262	103	3.42
LSMBHK180X90N	180-90°	180	294	115	4.98
LSMBHK200X90N	200-90°	200	317	122	6.8
LSMBHK225X90N	225-90°	225	351	131	9.2
LSMBHK250X90N	250-90°	250	382	133	13.12
LSMBHK280X90N	280-90°	280	432	153	18.34
LSMBHK315X90N	315-90°	315	471	154	25.13



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# 90° BEND

## SHORT SPIGOT

Ø 20 - 400mm

SDR RANGE 33 / 17 / 11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100



1253/12-001



90° BEND / SHORT SPIGOT / Ø 110 - 400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSEHK110X90Y	110-90°	110	138	28	0.22
SSEHK125X90Y	125-90°	125	130	15	0.34
SSEHK140X90Y	140-90°	140	175	35	0.46
SSEHK160X90Y	160-90°	160	200	40	0.75
SSEHK180X90Y	180-90°	180	200	8	1.24
SSEHK200X90Y	200-90°	200	206	19	1.31
SSEHK225X90Y	225-90°	225	236	21	2.24
SSEHK250X90Y	250-90°	250	255	20	2.44
SSEHK280X90Y	280-90°	280	290	24	4.44
SSEHK315X90Y	315-90°	315	322	22	5.02
SSEHK355X90Y	355-90°	355	380	15	9
SSEHK400X90Y	400-90°	400	434	41	11.18

## SDR 17 WATER PN 10 PE100



1253/10-001



90° BEND / SHORT SPIGOT / Ø 50 - 400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSEHK50X90V	50-90°	50	51	10	0.05
SSEHK63X90V	63-90°	63	66	12	0.1
SSEHK75X90V	75-90°	75	87	14	0.2
SSEHK90X90V	90-90°	90	100	15	0.3
SSEHK110X90V	110-90°	110	118	15	0.5
SSEHK125X90V	125-90°	125	138	15	0.8
SSEHK140X90V	140-90°	140	155	20	1.1
SSEHK160X90V	160-90°	160	178	25	1.5
SSEHK180X90V	180-90°	180	195	25	2.3
SSEHK200X90V	200-90°	200	210	20	3.1
SSEHK225X90V	225-90°	225	236	25	4.2
SSEHK250X90V	250-90°	250	279	30	4.7
SSEHK280X90V	280-90°	280	316	40	6.8
SSEHK315X90V	315-90°	315	352	40	9.5
SSEHK355X90V	355-90°	355	380	38	13.35
SSEHK400X90V	400-90°	400	432	41	20.2

## SDR 11 WATER PN 16 PE100

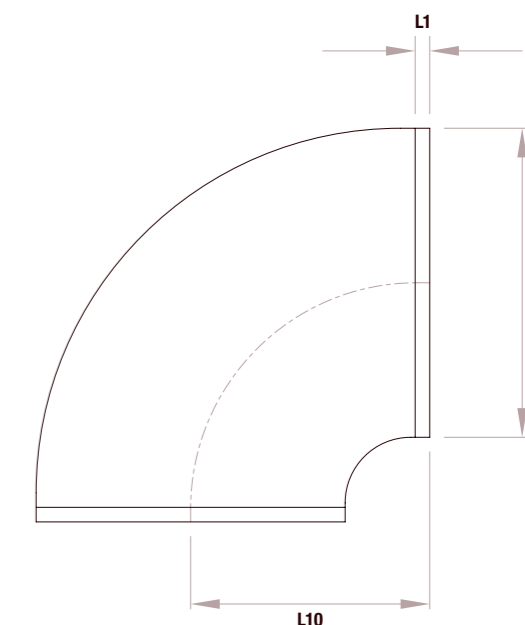


1253/08-001



90° BEND / SHORT SPIGOT / Ø 20 - 400mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSEHK20X90N	20-90°	20	38	18	0.01
SSEHK25X90N	25-90°	25	32	5	0.05
SSEHK32X90N	32-90°	32	37	6	0.05
SSEHK40X90N	40-90°	40	44	8	0.05
SSEHK50X90N	50-90°	50	51	10	0.1
SSEHK63X90N	63-90°	63	66	12	0.1
SSEHK75X90N	75-90°	75	87	14	0.3
SSEHK90X90N	90-90°	90	100	15	0.4
SSEHK110X90N	110-90°	110	118	15	0.7
SSEHK125X90N	125-90°	125	138	15	1.1
SSEHK140X90N	140-90°	140	155	20	1.5
SSEHK160X90N	160-90°	160	178	25	2
SSEHK180X90N	180-90°	180	195	25	2.8
SSEHK200X90N	200-90°	200	210	20	3.9
SSEHK225X90N	225-90°	225	236	25	5.4
SSEHK250X90N	250-90°	250	279	30	7.3
SSEHK280X90N	280-90°	280	316	40	11
SSEHK315X90N	315-90°	315	352	40	15
SSEHK355X90N	355-90°	355	380	38	20.83
SSEHK400X90N	400-90°	400	434	41	30.21



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 90° SEAMLESS BEND

## LONG SPIGOT

Ø 32 - 900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100

1253/48-001



90° SEAMLESS BEND / LONG SPIGOT / Ø 50 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X90V	50-90°	50	200	100	75	0.2
LRBHK63X90V	63-90°	63	220	100	95	0.3
LRBHK75X90V	75-90°	75	260	100	113	0.5
LRBHK90X90V	90-90°	90	300	150	135	0.7
LRBHK110X90V	110-90°	110	380	150	165	1.4
LRBHK125X90V	125-90°	125	400	150	188	1.9
LRBHK140X90V	140-90°	140	440	150	210	2.6
LRBHK160X90V	160-90°	160	480	150	240	3.7
LRBHK180X90V	180-90°	180	530	150	270	5.2
LRBHK200X90V	200-90°	200	560	150	300	6.7
LRBHK225X90V	225-90°	225	590	150	338	8.8
LRBHK250X90V	250-90°	250	730	250	375	13.6
LRBHK280X90V	280-90°	280	750	250	420	17.4
LRBHK315X90V	315-90°	315	900	300	496	26.5
LRBHK355X90V	355-90°	355	900	300	533	37.4
LRBHK400X90V	400-90°	400	980	300	600	49.1
LRBHK450X90V	450-90°	450	1070	300	675	68
LRBHK500X90V	500-90°	500	1200	350	750	95.3
LRBHK560X90V	560-90°	560	1290	350	840	122.5
LRBHK630X90V	630-90°	630	1400	350	945	186.4
LRBHK710X90V	710-90°	710	1900	350	1128	281.1
LRBHK800X90V	800-90°	800	2000	350	1274	371.4
LRBHK900X90V	900-90°	900	2200	400	1430	515.2

● Gas 6 Bar upon request.

## SDR 7.4 WATER PN 25 PE100

1253/50-001



90° SEAMLESS BEND / LONG SPIGOT / Ø 110 - 315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X90T	110-90°	110	340	150	165	2.72
LRBHK160X90T	160-90°	160	415	150	240	7.16
LRBHK225X90T	225-90°	225	513	150	338	16.37
LRBHK315X90T	315-90°	315	803	250	473	53

## SDR 11 WATER PN 16 PE100

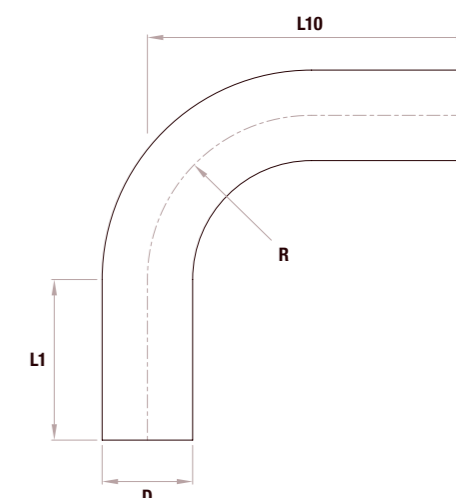
1253/46-001



90° SEAMLESS BEND / LONG SPIGOT / Ø 32 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X90N	32-90°	32	160	100	48	0.08
LRBHK40X90N	40-90°	40	180	100	48	0.14
LRBHK50X90N	50-90°	50	200	100	75	0.2
LRBHK63X90N	63-90°	63	220	100	95	0.4
LRBHK75X90N	75-90°	75	260	100	113	0.7
LRBHK90X90N	90-90°	90	300	150	135	1.1
LRBHK110X90N	110-90°	110	380	150	165	2.1
LRBHK125X90N	125-90°	125	400	150	188	2.8
LRBHK140X90N	140-90°	140	440	150	210	3.9
LRBHK160X90N	160-90°	160	480	150	240	5.5
LRBHK180X90N	180-90°	180	530	150	270	7.6
LRBHK200X90N	200-90°	200	560	150	300	9.9
LRBHK225X90N	225-90°	225	590	150	338	13.1
LRBHK250X90N	250-90°	250	730	250	375	20.2
LRBHK280X90N	280-90°	280	750	250	420	25.7
LRBHK315X90N	315-90°	315	900	300	496	39.2
LRBHK355X90N	355-90°	355	900	300	533	55.1
LRBHK400X90N	400-90°	400	980	300	600	72.7
LRBHK450X90N	450-90°	450	1070	300	675	100.6
LRBHK500X90N	500-90°	500	1200	350	750	140.9
LRBHK560X90N	560-90°	560	1290	350	840	181.2
LRBHK630X90N	630-90°	630	1400	350	945	275.6
LRBHK710X90N	710-90°	710	1900	350	1128	416.2
LRBHK800X90N	800-90°	800	1550	400	1200	549.8
LRBHK900X90N	900-90°	900	2200	400	1430	763.2

● Gas 10 Bar upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# 60° SEAMLESS BEND

## LONG SPIGOT

Ø 32-900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100



1253/44-001



60° SEAMLESS BEND / LONG SPIGOT / Ø 50-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X60V	50-60°	50	170	100	75	0.1
LRBHK63X60V	63-60°	63	180	100	95	0.2
LRBHK75X60V	75-60°	75	220	100	113	0.4
LRBHK90X60V	90-60°	90	250	150	135	0.7
LRBHK110X60V	110-60°	110	280	150	165	1.1
LRBHK125X60V	125-60°	125	300	150	188	1.5
LRBHK140X60V	140-60°	140	350	150	210	2.2
LRBHK160X60V	160-60°	160	380	150	240	3.2
LRBHK180X60V	180-60°	180	410	150	270	4.3
LRBHK200X60V	200-60°	200	430	150	300	5.6
LRBHK225X60V	225-60°	225	450	150	338	7.4
LRBHK250X60V	250-60°	250	570	250	375	11.5
LRBHK280X60V	280-60°	280	580	250	420	14.7
LRBHK315X60V	315-60°	315	690	300	496	22.2
LRBHK355X60V	355-60°	355	760	300	560	31
LRBHK400X60V	400-60°	400	780	300	637	40.1
LRBHK450X60V	450-60°	450	820	300	711	53.3
LRBHK500X60V	500-60°	500	960	350	783	77.3
LRBHK560X60V	560-60°	560	930	350	840	98.4
LRBHK630X60V	630-60°	630	1000	350	945	153.5
LRBHK710X60V	710-60°	710	1450	350	1128	235.6
LRBHK800X60V	800-60°	800	1500	350	1274	307.9
LRBHK900X60V	900-60°	900	1650	400	1430	428.1

● Gas 6 Bar upon request.

## SDR 7.4 WATER PN 25 PE100



1253/50-001



60° SEAMLESS BEND / LONG SPIGOT / Ø 110-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X60T	110-60°	110	270	150	165	2.4
LRBHK160X60T	160-60°	160	313	150	240	7.16
LRBHK225X60T	225-60°	225	370	150	338	13.95
LRBHK315X60T	315-60°	315	612	250	473	50.67

## SDR 11 WATER PN 16 PE100



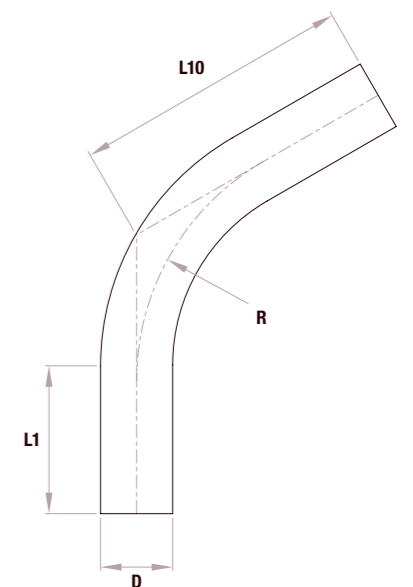
1253/42-001



60° SEAMLESS BEND / LONG SPIGOT / Ø 32-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X60N	32-60°	32	150	100	48	0.08
LRBHK40X60N	40-60°	40	160	100	60	0.13
LRBHK50X60N	50-60°	50	170	100	75	0.2
LRBHK63X60N	63-60°	63	180	100	95	0.3
LRBHK75X60N	75-60°	75	220	100	113	0.6
LRBHK90X60N	90-60°	90	250	150	135	1
LRBHK110X60N	110-60°	110	280	150	165	1.6
LRBHK125X60N	125-60°	125	300	150	188	2.3
LRBHK140X60N	140-60°	140	350	150	210	3.3
LRBHK160X60N	160-60°	160	380	150	240	4.7
LRBHK180X60N	180-60°	180	410	150	270	6.4
LRBHK200X60N	200-60°	200	430	150	300	8.3
LRBHK225X60N	225-60°	225	450	150	338	10.9
LRBHK250X60N	250-60°	250	570	250	375	17.1
LRBHK280X60N	280-60°	280	580	250	420	21.7
LRBHK315X60N	315-60°	315	690	300	496	32.8
LRBHK355X60N	355-60°	355	760	300	560	45.7
LRBHK400X60N	400-60°	400	780	300	637	59.4
LRBHK450X60N	450-60°	450	820	300	711	78.9
LRBHK500X60N	500-60°	500	960	350	783	114.2
LRBHK560X60N	560-60°	560	980	350	877	145.5
LRBHK630X60N	630-60°	630	1200	350	955	226.9
LRBHK710X60N	710-60°	710	1450	350	1128	348.8
LRBHK800X60N	800-60°	800	1250	400	1200	455.9
LRBHK900X60N	900-60°	900	1650	400	1430	634.2

● Gas 10 Bar upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 45° SEAMLESS BEND

## LONG SPIGOT

Ø 32 - 900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100

1253/40-001



45° SEAMLESS BEND / LONG SPIGOT / Ø 50 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X45V	50-45°	50	160	100	75	0.1
LRBHK63X45V	63-45°	63	170	100	95	0.2
LRBHK75X45V	75-45°	75	180	100	113	0.3
LRBHK90X45V	90-45°	90	220	150	135	0.6
LRBHK110X45V	110-45°	110	240	150	165	1
LRBHK125X45V	125-45°	125	250	150	188	1.3
LRBHK140X45V	140-45°	140	270	150	210	1.7
LRBHK160X45V	160-45°	160	330	150	240	2.8
LRBHK180X45V	180-45°	180	350	150	270	3.8
LRBHK200X45V	200-45°	200	360	150	300	4.8
LRBHK225X45V	225-45°	225	380	150	338	6.4
LRBHK250X45V	250-45°	250	490	250	375	10.1
LRBHK280X45V	280-45°	280	550	250	420	13.2
LRBHK315X45V	315-45°	315	560	300	496	18.4
LRBHK355X45V	355-45°	355	630	300	560	26.3
LRBHK400X45V	400-45°	400	670	300	637	35.3
LRBHK450X45V	450-45°	450	750	300	711	50.1
LRBHK500X45V	500-45°	500	760	350	750	74.4
LRBHK560X45V	560-45°	560	800	350	840	98.2
LRBHK630X45V	630-45°	630	870	350	945	130.9
LRBHK710X45V	710-45°	710	1300	350	1128	216.3
LRBHK800X45V	800-45°	800	1400	350	1274	295.3
LRBHK900X45V	900-45°	900	1500	400	1430	399.8

● Gas 6 Bar upon request.

## SDR 11 WATER PN 16 PE100

1253/38-001



45° SEAMLESS BEND / LONG SPIGOT / Ø 32 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X45N	32-45°	32	140	100	48	0.07
LRBHK40X45N	40-45°	40	150	100	60	0.12
LRBHK50X45N	50-45°	50	160	100	75	0.2
LRBHK63X45N	63-45°	63	170	100	95	0.3
LRBHK75X45N	75-45°	75	180	100	113	0.4
LRBHK90X45N	90-45°	90	220	150	135	0.6
LRBHK110X45N	110-45°	110	240	150	165	1
LRBHK125X45N	125-45°	125	250	150	188	1.9
LRBHK140X45N	140-45°	140	270	150	210	2.6
LRBHK160X45N	160-45°	160	330	150	240	4.2
LRBHK180X45N	180-45°	180	350	150	270	5.6
LRBHK200X45N	200-45°	200	360	150	300	7.1
LRBHK225X45N	225-45°	225	380	150	338	9.4
LRBHK250X45N	250-45°	250	490	250	375	15
LRBHK280X45N	280-45°	280	510	250	420	19.5
LRBHK315X45N	315-45°	315	560	300	496	27.1
LRBHK355X45N	355-45°	355	630	300	560	38.7
LRBHK400X45N	400-45°	400	670	300	637	52.2
LRBHK450X45N	450-45°	450	750	300	711	74.1
LRBHK500X45N	500-45°	500	760	350	750	109.9
LRBHK560X45N	560-45°	560	800	350	840	145.2
LRBHK630X45N	630-45°	630	870	350	945	193.5
LRBHK710X45N	710-45°	710	1300	350	1128	320.3
LRBHK800X45N	800-45°	800	1400	400	1200	437.1
LRBHK900X45N	900-45°	900	1500	400	1430	592.3

● Gas 10 Bar upon request.

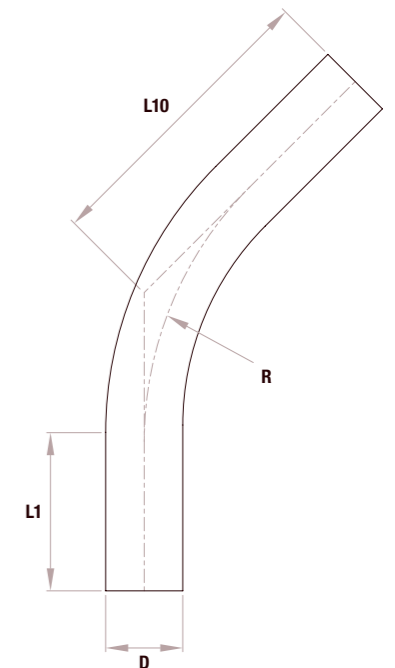
## SDR 7.4 WATER PN 25 PE100

1253/50-001



45° SEAMLESS BEND / LONG SPIGOT / Ø 110 - 315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X45T	110-45°	110	243	150	165	2.12
LRBHK160X45T	160-45°	160	270	150	240	6.7
LRBHK225X45T	225-45°	225	315	150	338	12.97
LRBHK315X45T	315-45°	315	535	250	473	41.6



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# 30° SEAMLESS BEND

## LONG SPIGOT

Ø 32-900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100

1253/36-001



30° SEAMLESS BEND / LONG SPIGOT / Ø 50-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X30V	50-30°	50	150	100	75	0.1
LRBHK63X30V	63-30°	63	160	100	95	0.2
LRBHK75X30V	75-30°	75	170	100	113	0.3
LRBHK90X30V	90-30°	90	210	150	135	0.6
LRBHK110X30V	110-30°	110	220	150	165	0.9
LRBHK125X30V	125-30°	125	235	150	188	1.2
LRBHK140X30V	140-30°	140	250	150	210	1.6
LRBHK160X30V	160-30°	160	260	150	240	2.2
LRBHK180X30V	180-30°	180	280	150	270	3
LRBHK200X30V	200-30°	200	310	150	300	4.2
LRBHK225X30V	225-30°	225	350	150	338	5.9
LRBHK250X30V	250-30°	250	430	250	375	9
LRBHK280X30V	280-30°	280	450	250	420	11.8
LRBHK315X30V	315-30°	315	500	300	496	16.6
LRBHK355X30V	355-30°	355	590	300	560	24.9
LRBHK400X30V	400-30°	400	650	300	637	34.7
LRBHK450X30V	450-30°	450	700	300	711	47.4
LRBHK500X30V	500-30°	500	650	350	750	62.8
LRBHK560X30V	560-30°	560	680	350	840	83.8
LRBHK630X30V	630-30°	630	730	350	945	112.8
LRBHK710X30V	710-30°	710	1150	350	1128	193.8
LRBHK800X30V	800-30°	800	1250	350	1274	267.2
LRBHK900X30V	900-30°	900	1350	400	1430	365

● Gas 6 Bar upon request.

## SDR 7.4 WATER PN 25 PE100

1253/50-001



30° SEAMLESS BEND / LONG SPIGOT / Ø 110-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X30T	110-30°	110	219	150	165	2.4
LRBHK160X30T	160-30°	160	239	150	240	6.68
LRBHK225X30T	225-30°	225	266	150	338	11.92
LRBHK315X30T	315-30°	315	460	250	473	37.4

## SDR 11 WATER PN 16 PE100

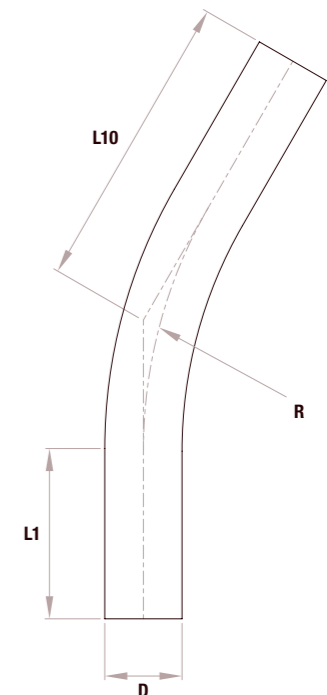
1253/34-001



30° SEAMLESS BEND / LONG SPIGOT / Ø 32-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X30N	32-30°	32	130	100	48	0.07
LRBHK40X30N	40-30°	40	140	100	60	0.11
LRBHK50X30N	50-30°	50	150	100	75	0.2
LRBHK63X30N	63-30°	63	160	100	95	0.3
LRBHK75X30N	75-30°	75	170	100	113	0.5
LRBHK90X30N	90-30°	90	210	150	135	0.8
LRBHK110X30N	110-30°	110	220	150	165	1.3
LRBHK125X30N	125-30°	125	235	150	188	1.8
LRBHK140X30N	140-30°	140	250	150	210	2.4
LRBHK160X30N	160-30°	160	260	150	240	3.3
LRBHK180X30N	180-30°	180	280	150	270	4.5
LRBHK200X30N	200-30°	200	310	150	300	6.1
LRBHK225X30N	225-30°	225	350	150	338	8.8
LRBHK250X30N	250-30°	250	430	250	375	13.3
LRBHK280X30N	280-30°	280	450	250	420	17.4
LRBHK315X30N	315-30°	315	500	300	496	24.5
LRBHK355X30N	355-30°	355	590	300	560	36.8
LRBHK400X30N	400-30°	400	650	300	637	51.4
LRBHK450X30N	450-30°	450	700	300	711	70.2
LRBHK500X30N	500-30°	500	650	350	750	92.7
LRBHK560X30N	560-30°	560	680	350	840	123.9
LRBHK630X30N	630-30°	630	730	350	945	166.8
LRBHK710X30N	710-30°	710	1150	350	1128	287
LRBHK800X30N	800-30°	800	950	400	1200	395.6
LRBHK900X30N	900-30°	900	1350	400	1430	540.7

● Gas 10 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# 22° SEAMLESS BEND

## LONG SPIGOT

Ø 32-900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100



1253/32-001



22° SEAMLESS BEND / LONG SPIGOT / Ø 50-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X22V	50-22°	50	150	100	75	0.1
LRBHK63X22V	63-22°	63	160	100	95	0.2
LRBHK75X22V	75-22°	75	170	100	113	0.3
LRBHK90X22V	90-22°	90	210	150	135	0.6
LRBHK110X22V	110-22°	110	220	150	165	0.9
LRBHK125X22V	125-22°	125	235	150	188	1.2
LRBHK140X22V	140-22°	140	250	150	210	1.6
LRBHK160X22V	160-22°	160	260	150	240	2.2
LRBHK180X22V	180-22°	180	280	150	270	3.1
LRBHK200X22V	200-22°	200	310	150	300	4.2
LRBHK225X22V	225-22°	225	350	150	338	6
LRBHK250X22V	250-22°	250	430	250	375	9
LRBHK280X22V	280-22°	280	450	250	420	11.8
LRBHK315X22V	315-22°	315	500	300	496	16.7
LRBHK355X22V	355-22°	355	590	300	560	25
LRBHK400X22V	400-22°	400	650	300	637	34.9
LRBHK450X22V	450-22°	450	700	300	711	47.6
LRBHK500X22V	500-22°	500	650	350	750	63
LRBHK560X22V	560-22°	560	680	350	840	84.1
LRBHK630X22V	630-22°	630	730	350	945	113.3
LRBHK710X22V	710-22°	710	1150	350	1128	194.5
LRBHK800X22V	800-22°	800	1250	350	1274	268.2
LRBHK900X22V	900-22°	900	1350	400	1430	366.4

● Gas 6 Bar upon request.

## SDR 7.4 WATER PN 25 PE100



1253/50-001



22° SEAMLESS BEND / LONG SPIGOT / Ø 110-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X22T	110-22°	110	219	150	165	2.5
LRBHK160X22T	160-22°	160	239	150	240	6.68
LRBHK225X22T	225-22°	225	266	150	338	11.92
LRBHK315X22T	315-22°	315	460	250	473	37.4

## SDR 11 WATER PN 16 PE100



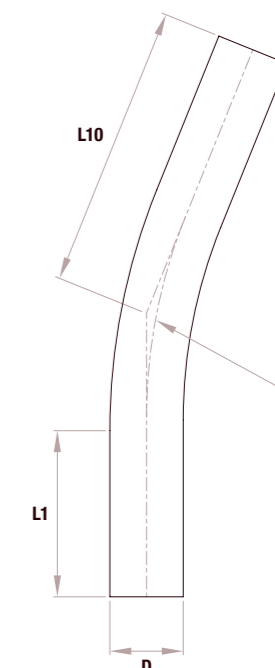
1253/30-001



22° SEAMLESS BEND / LONG SPIGOT / Ø 32-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X22N	32-22°	32	130	100	48	0.07
LRBHK40X22N	40-22°	40	140	100	60	0.11
LRBHK50X22N	50-22°	50	150	100	75	0.2
LRBHK63X22N	63-22°	63	160	100	95	0.3
LRBHK75X22N	75-22°	75	170	100	113	0.5
LRBHK90X22N	90-22°	90	210	150	135	0.8
LRBHK110X22N	110-22°	110	220	150	165	1.3
LRBHK125X22N	125-22°	125	235	150	188	1.8
LRBHK140X22N	140-22°	140	250	150	210	2.4
LRBHK160X22N	160-22°	160	260	150	240	3.3
LRBHK180X22N	180-22°	180	280	150	270	4.5
LRBHK200X22N	200-22°	200	310	150	300	6.2
LRBHK225X22N	225-22°	225	350	150	338	8.8
LRBHK250X22N	250-22°	250	430	250	375	13.4
LRBHK280X22N	280-22°	280	450	250	420	17.5
LRBHK315X22N	315-22°	315	500	300	496	24.6
LRBHK355X22N	355-22°	355	590	300	560	36.9
LRBHK400X22N	400-22°	400	650	300	637	51.6
LRBHK450X22N	450-22°	450	700	300	711	70.5
LRBHK500X22N	500-22°	500	650	350	750	93.1
LRBHK560X22N	560-22°	560	680	350	840	124.5
LRBHK630X22N	630-22°	630	730	350	945	167.5
LRBHK710X22N	710-22°	710	1150	350	1128	288
LRBHK800X22N	800-22°	800	950	400	1200	397.1
LRBHK900X22N	900-22°	900	1350	400	1430	542.9

● Gas 10 Bar upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# 11° SEAMLESS BEND

## LONG SPIGOT

Ø 32-900mm

SDR RANGE 17/11/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100



1253/28-001



11° SEAMLESS BEND / LONG SPIGOT / Ø 50-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK50X11V	50-11°	50	150	100	75	0.1
LRBHK63X11V	63-11°	63	160	100	95	0.2
LRBHK75X11V	75-11°	75	170	100	113	0.3
LRBHK90X11V	90-11°	90	210	150	135	0.6
LRBHK110X11V	110-11°	110	220	150	165	0.9
LRBHK125X11V	125-11°	125	235	150	188	1.2
LRBHK140X11V	140-11°	140	250	150	210	1.6
LRBHK160X11V	160-11°	160	260	150	240	2.2
LRBHK180X11V	180-11°	180	280	150	270	3.1
LRBHK200X11V	200-11°	200	310	150	300	4.2
LRBHK225X11V	225-11°	225	350	150	338	6
LRBHK250X11V	250-11°	250	430	250	375	9
LRBHK280X11V	280-11°	280	450	250	420	11.9
LRBHK315X11V	315-11°	315	500	300	496	16.7
LRBHK355X11V	355-11°	355	590	300	560	25.1
LRBHK400X11V	400-11°	400	650	300	630	34.9
LRBHK450X11V	450-11°	450	700	300	711	47.7
LRBHK500X11V	500-11°	500	650	350	750	63.2
LRBHK560X11V	560-11°	560	680	350	840	84.3
LRBHK630X11V	630-11°	630	730	350	945	113.6
LRBHK710X11V	710-11°	710	1150	350	1128	194.9
LRBHK800X11V	800-11°	800	1250	350	1274	268.8
LRBHK900X11V	900-11°	900	1350	400	1430	367.3

● Gas 6 Bar upon request.

## SDR 7.4 WATER PN 25 PE100



1253/50-001



11° SEAMLESS BEND / LONG SPIGOT / Ø 110-315mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK110X11T	110-11°	110	219	150	165	2.5
LRBHK160X11T	160-11°	160	239	150	240	6.68
LRBHK225X11T	225-11°	225	266	150	338	11.92
LRBHK315X11T	315-11°	315	460	250	473	37.4

## SDR 11 WATER PN 16 PE100



1253/26-001



11° SEAMLESS BEND / LONG SPIGOT / Ø 32-900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	R mm	Theoretical weight/kg
LRBHK32X11N	32-11°	32	130	100	48	0.07
LRBHK40X11N	40-11°	40	140	100	60	0.11
LRBHK50X11N	50-11°	50	150	100	75	0.2
LRBHK63X11N	63-11°	63	160	100	95	0.3
LRBHK75X11N	75-11°	75	170	100	113	0.5
LRBHK90X11N	90-11°	90	210	150	135	0.8
LRBHK110X11N	110-11°	110	220	150	165	1.3
LRBHK125X11N	125-11°	125	235	150	188	1.8
LRBHK140X11N	140-11°	140	250	150	210	2.4
LRBHK160X11N	160-11°	160	260	150	240	3.3
LRBHK180X11N	180-11°	180	280	150	270	4.5
LRBHK200X11N	200-11°	200	310	150	300	6.2
LRBHK225X11N	225-11°	225	350	150	338	8.8
LRBHK250X11N	250-11°	250	430	250	375	13.4
LRBHK280X11N	280-11°	280	450	205	420	17.5
LRBHK315X11N	315-11°	315	500	300	496	24.7
LRBHK355X11N	355-11°	355	590	300	560	37
LRBHK400X11N	400-11°	400	650	300	637	51.7
LRBHK450X11N	450-11°	450	700	300	711	70.6
LRBHK500X11N	500-11°	500	650	350	750	93.3
LRBHK560X11N	560-11°	560	680	350	840	124.7
LRBHK630X11N	630-11°	630	730	350	945	167.9
LRBHK710X11N	710-11°	710	1150	350	1128	288.6
LRBHK800X11N	800-11°	800	950	400	1200	397.9
LRBHK900X11N	900-11°	900	1350	400	1430	544.1

● Gas 10 Bar upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# EQUAL TEE

## LONG SPIGOT

Ø 20 - 630mm OUTLET  
Ø 20 - 630mm BODY

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

#### SDR 17/11

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

#### SDR 9/7.4

EN 12201-3  
Water only

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100



1354/18-001



EQUAL TEE / LONG SPIGOT / Ø 50 - 630mm OUTLET / Ø 50 - 630mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSETHK50V	50	50	184	57	90	0.13
LSETHK63V	63	63	225	63	114	0.26
LSETHK75V	75	75	261	70	130	0.44
LSETHK90V	90	90	290	79	142	0.69
LSETHK110V	110	110	327	82	162	1.12
LSETHK125V	125	125	356	87	178	1.61
LSETHK140V	140	140	378	92	189	1.97
LSETHK160V	160	160	417	98	208	3.09
LSETHK180V	180	180	458	105	225	4.09
LSETHK200V	200	200	481	112	236	5.28
LSETHK225V	225	225	527	120	260	7.45
LSETHK250V	250	250	590	129	292	9.93
LSETHK280V	280	280	690	139	340	15.49
LSETHK315V	315	315	712	150	352	18.83
LSETHK355V	355	355	789	164	394	29
LSETHK400V	400	400	877	179	439	40.34
LSETHK450V	450	450	984	195	470	59.8
LSETHK500V	500	500	1090	220	515	78.2
LSETHK560V	560	560	1230	240	565	107.2
LSETHK630V	630	630	1320	250	618	144.8

◇ Non Fusamatic branded.

SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100



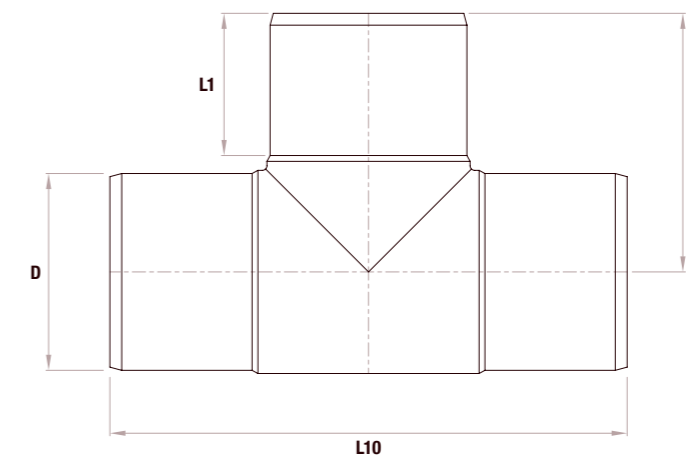
1354/16-001



EQUAL TEE / LONG SPIGOT / Ø 20 - 630mm OUTLET / Ø 20 - 630mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSETHK20N	20	20	148	41	74	0.04
LSETHK25N	25	25	158	41	78	0.05
LSETHK32N	32	32	166	44	84	0.09
LSETHK40N	40	40	188	49	96	0.1
LSETHK50N	50	50	229	55	114	0.25
LSETHK63N	63	63	216	63	107	0.38
LSETHK75N	75	75	261	70	130	0.59
LSETHK90N	90	90	290	79	142	0.92
LSETHK110N	110	110	327	82	162	1.57
LSETHK125N	125	125	356	87	178	2.26
LSETHK140N	140	140	380	92	189	2.79
LSETHK160N	160	160	417	98	208	4.25
LSETHK180N	180	180	458	105	225	5.85
LSETHK200N	200	200	481	112	236	7.5
LSETHK225N	225	225	527	120	260	10.27
LSETHK250N	250	250	590	129	292	14.03
LSETHK280N	280	280	690	139	340	21.6
LSETHK315N	315	315	712	150	352	26.55
LSETHK355N	355	355	789	164	394	39.26
LSETHK400N	400	400	877	179	439	54
LSETHK450N	450	450	984	195	470	80
LSETHK500N	500	500	1090	220	515	110
LSETHK560N	560	560	1230	240	565	146
LSETHK630N	630	630	1320	250	618	193.8

◇ Non Fusamatic branded.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



**SDR 9  
WATER PN 20  
PE100**



**1254/22-001**



EQUAL TEE / LONG SPIGOT / Ø 75 - 630mm OUTLET / Ø 75 - 630mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSETHK75R	75	75	256	72	-	0.76
LSETHK90R	90	90	303	82	-	1.29
LSETHK110R	110	110	336	92	-	2.13
LSETHK125R	125	125	356	91	-	2.83
LSETHK140R	140	140	390	96	-	3.97
LSETHK160R	160	160	423	104	-	6.04
LSETHK180R	180	180	451	107	-	7.39
LSETHK200R	200	200	501	117	-	10.1
LSETHK225R	225	225	538	121	-	13.56
LSETHK250R	250	250	596	131	-	18.75
LSETHK280R	280	280	651	127	-	25.82
LSETHK315R	315	315	703	152	-	38
LSETHK355R	355	355	800	165	-	49.6
LSETHK400R	400	400	890	180	-	62.7
LSETHK450R	450	450	984	195	-	87.97
LSETHK500R	500	500	1090	220	-	134.9
LSETHK560R	560	560	1230	240	-	194.75
LSETHK630R	630	630	1320	250	-	-

**SDR 7.4  
WATER PN 25  
PE100**

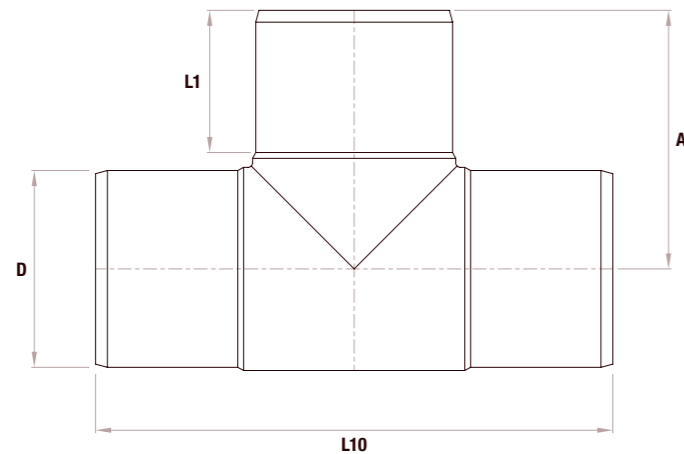


**1254/20-001**



EQUAL TEE / LONG SPIGOT / Ø 25 - 630mm OUTLET / Ø 25 - 630mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
LSETHK25T	25	25	139	46	-	0.06
LSETHK32T	32	32	148	49	-	0.09
LSETHK40T	40	40	175	57	-	0.17
LSETHK50T	50	50	180	56	-	0.23
LSETHK63T	63	63	229	68	-	0.52
LSETHK75T	75	75	256	72	-	0.8
LSETHK90T	90	90	303	82	-	1.36
LSETHK110T	110	110	336	92	-	2.24
LSETHK125T	125	125	356	91	-	2.98
LSETHK140T	140	140	390	96	-	4.18
LSETHK160T	160	160	423	104	-	6.36
LSETHK180T	180	180	451	107	-	7.78
LSETHK200T	200	200	501	117	-	10.6
LSETHK225T	225	225	538	121	-	14.27
LSETHK250T	250	250	596	131	-	19.74
LSETHK280T	280	280	651	127	-	27.18
LSETHK315T	315	315	703	152	-	40
LSETHK355T	355	355	800	165	-	52.2
LSETHK400T	400	400	890	180	-	66
LSETHK450T	450	450	984	195	-	92.6
LSETHK500T	500	500	1090	220	-	142
LSETHK560T	560	560	1230	240	-	205
LSETHK630T	630	630	1320	250	-	-



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# EQUAL TEE

## SHORT SPIGOT

Ø 20 - 400mm OUTLET  
Ø 20 - 400mm BODY

SDR RANGE 33 / 17 / 11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100

1254/14-001



EQUAL TEE / SHORT SPIGOT / Ø 110 - 400mm OUTLET / Ø 110 - 400mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSETHK110Y	110	110	215	30	105	0.42
SSETHK125Y	125	125	218	35	107	0.68
SSETHK140Y	140	140	253	20	125	1.08
SSETHK160Y	160	160	270	40	140	1.28
SSETHK180Y	180	180	310	45	150	1.78
SSETHK200Y	200	200	340	45	170	2.3
SSETHK225Y	225	225	440	48	220	4
SSETHK250Y	250	250	438	52	215	6.66
SSETHK280Y	280	280	500	65	243	6.68
SSETHK315Y	315	315	535	77	270	10
SSETHK355Y	355	355	674	96	347	14
SSETHK400Y	400	400	680	90	340	20

## SDR 11 WATER PN 16 PE100

1254/10-001



EQUAL TEE / SHORT SPIGOT / Ø 20 - 355mm OUTLET / Ø 20 - 355mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSETHK20N	20	20	76	11	38	0.02
SSETHK25N	25	25	84	11	40	0.03
SSETHK32N	32	32	87	11	42	0.05
SSETHK40N	40	40	90	11	45	0.07
SSETHK50N	50	50	100	12	50	0.12
SSETHK63N	63	63	135	17	67	0.25
SSETHK75N	75	75	153	19	75	0.39
SSETHK90N	90	90	198	43	99	0.71
SSETHK110N	110	110	254	55	127	1.26
SSETHK125N	125	125	254	52	125	1.64
SSETHK140N	140	140	314	65	153	2.69
SSETHK160N	160	160	322	58	161	3.38
SSETHK180N	180	180	430	94	214	5.74
SSETHK200N	200	200	438	90	219	7.28
SSETHK225N	225	225	452	76	226	9.62
SSETHK250N	250	250	450	68	227	10.77
SSETHK280N	280	280	530	87	265	15.95
SSETHK315N	315	315	570	88	285	21.29
SSETHK355N	355	355	698	103	349	31.8

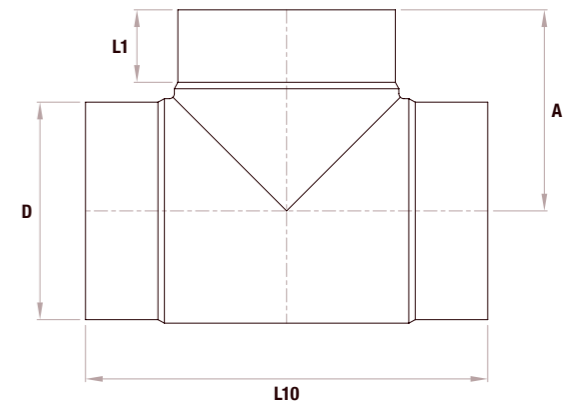
## SDR 17 WATER PN 10 PE100

1254/12-001



EQUAL / SHORT SPIGOT / Ø 50 - 355mm OUTLET / Ø 50 - 355mm BODY

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSETHK50V	50	50	100	13	50	0.09
SSETHK63V	63	63	136	17	67	0.19
SSETHK75V	75	75	154	19	75	0.29
SSETHK90V	90	90	198	42	99	0.54
SSETHK110V	110	110	257	55	129	0.93
SSETHK125V	125	125	254	52	125	1.17
SSETHK140V	140	140	314	62	157	1.81
SSETHK160V	160	160	320	57	160	2.38
SSETHK180V	180	180	435	96	214	4.1
SSETHK200V	200	200	440	93	220	5.15
SSETHK225V	225	225	450	76	225	6.97
SSETHK250V	250	250	450	67	225	7.67
SSETHK280V	280	280	528	86	264	10.9
SSETHK315V	315	315	565	87	282	14.87
SSETHK355V	355	355	699	103	348	22.36



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# REDUCING TEE

## LONG SPIGOT

Ø 25 - 250mm OUTLET  
Ø 50 - 630mm BODY

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

SDR 17/11

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

SDR 9/7.4

EN 12201-3  
Water only

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 GAS 6 BAR PE100



REDUCING TEE / LONG SPIGOT / Ø 50 - 250mm OUTLET / Ø 63 - 630mm BODY

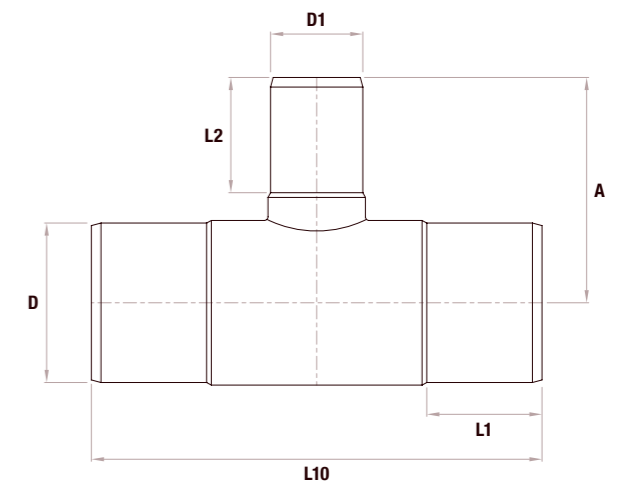
Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK63X50V	63x50	63	50	217	61	56	103	0.22
LSRTHK75X50V	75x50	75	50	252	68	56	109	0.41
LSRTHK75X63V	75x63	75	63	261	70	63	121	0.39
LSRTHK90X50V	90x50	90	50	302	81	58	-	0.71
LSRTHK90X63V	90x63	90	63	290	79	63	132	0.61
LSRTHK90X75V	90x75	90	75	290	79	70	136	0.64
LSRTHK110X50V	110x50	110	50	335	90	57	-	0.99
LSRTHK110X63V	110x63	110	63	327	82	63	149	0.98
LSRTHK110X75V	110x75	110	75	327	82	70	151	1.05
LSRTHK110X90V	110x90	110	90	327	82	79	157	1.09
LSRTHK125X63V	125x63	125	63	358	90	70	-	1.26
LSRTHK125X90V	125x90	125	90	356	87	79	172	1.4
LSRTHK125X110V	125x110	125	110	356	87	82	176	1.5
LSRTHK140X63V	140x63	140	63	390	97	72	-	2.16
LSRTHK140X90V	140x90	140	90	380	92	79	175	1.73
LSRTHK140X110V	140x110	140	110	380	92	82	179	1.8
LSRTHK140X125V	140x125	140	125	380	92	87	184	1.85
LSRTHK160X63V	160x63	160	63	417	98	63	175	2.55
LSRTHK160X75V	160x75	160	75	417	98	70	182	2.65
LSRTHK160X90V	160x90	160	90	417	98	79	187	2.6
LSRTHK160X110V	160x110	160	110	417	98	82	195	2.7
LSRTHK160X125V	160x125	160	125	417	98	87	200	2.79
LSRTHK160X140V	160x140	160	140	417	98	92	200	2.8
LSRTHK180X63V	180x63	180	63	450	105	64	-	4.36
LSRTHK180X90V	180x90	180	90	458	105	79	206	3.5
LSRTHK180X110V	180x110	180	110	458	105	82	210	3.63
LSRTHK180X125V	180x125	180	125	458	105	87	215	3.6
LSRTHK180X160V	180x160	180	160	458	105	98	226	3.9
LSRTHK200X63V	200x63	200	63	481	112	63	191	4.48
LSRTHK200X90V	200x90	200	90	481	112	79	207	4.55
LSRTHK200X110V	200x110	200	110	481	112	82	211	4.65
LSRTHK200X125V	200x125	200	125	481	112	87	225	4.73
LSRTHK200X160V	200x160	200	160	481	112	98	227	4.91
LSRTHK200X180V	200x180	200	180	500	116	112	-	6.75
LSRTHK225X75V	225x75	225	75	561	129	72	219	7.06
LSRTHK225X90V	225x90	225	90	527	120	79	222	6.38
LSRTHK225X110V	225x110	225	110	527	120	82	226	6.5
LSRTHK225X125V	225x125	225	125	527	120	87	239	6.51
LSRTHK225X160V	225x160	225	160	527	120	98	242	6.69
LSRTHK225X180V	225x180	225	180	540	120	106	-	6.96
LSRTHK250X90V	250x90	250	90	590	129	79	243	8.35
LSRTHK250X110V	250x110	250	110	590	129	82	251	8.45
LSRTHK250X125V	250x125	250	125	590	129	87	252	8.46
LSRTHK250X160V	250x160	250	160	590	129	98	267	8.71
LSRTHK250X180V	250x180	250	180	596	130	109	-	9.56
LSRTHK250X200V	250x200	250	200	590	129	112	278	9.05
LSRTHK250X225V	250x225	250	225	590	129	120	285	9.56
LSRTHK280X110V	280x110	280	110	690	139	82	290	13.28
LSRTHK280X160V	280x160	280	160	690	139	98	302	13.76
LSRTHK280X200V	280x200	280	200	690	139	112	316	13.87
LSRTHK280X225V	280x225	280	225	690	139	120	320	14.41

1355/06-001



Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK280X250V	280x250	280	250	690	139	129	334	14.64
LSRTHK315X110V	315x110	315	110	712	150	82	293	16.35
LSRTHK315X125V	315x125	315	125	703	152	105	-	18.03
LSRTHK315X160V	315x160	315	160	712	150	98	303	16.73
LSRTHK315X180V	315x180	315	180	703	152	116	-	18.24
LSRTHK315X200V	315x200	315	200	712	150	112	317	16.8
LSRTHK315X225V	315x225	315	225	712	150	120	320	17.22
LSRTHK315X250V	315x250	315	250	712	150	129	332	17.75
LSRTHK355X110V	355x110	355	110	690	180	90	-	20.6
LSRTHK355X160V	355x160	355	160	685	180	101	-	20.94
LSRTHK355X225V	355x225	355	225	674	174	120	-	20.94
LSRTHK355X250V	355x250	355	250	685	175	130	-	21.4
LSRTHK400X110V	400x110	400	110	755	190	89	-	29
LSRTHK400X160V	400x160	400	160	755	190	102	-	29.1
LSRTHK400X225V	400x225	400	225	755	190	120	-	29.92
LSRTHK450X160V	450x160	450	160	676	197	100	-	31.8
LSRTHK450X225V	450x225	450	225	765	198	122	-	40
LSRTHK450X315V	450x315	450	315	887	198	155	-	48
LSRTHK500X160V	500x160	500	160	710	215	99	-	39.54
LSRTHK500X250V	500x250	500	250	960	240	135	-	46.4
LSRTHK560X250V	560x250	560	250	960	240	135	-	70.8
LSRTHK630X160V	630x160	630	160	800	255	101	-	66.2
LSRTHK630X250V	630x250	630	250	875	255	137	-	80.2

◇ Non Fusamatic branded.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



**SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100**



**1355/04-001**



REDUCING TEE / LONG SPIGOT / Ø 25-250mm OUTLET / Ø 50-630mm BODY

Reference Number	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK50X25N	Ø 50x25	50	25	229	55	41	85	0.17
LSRTHK50X32N	Ø 50x32	50	32	229	55	44	88	0.19
LSRTHK50X40N	Ø 50x40	50	40	229	55	49	94	0.2
LSRTHK63X32N	63x32	63	32	216	63	44	89	0.31
LSRTHK63X40N	63x40	63	40	216	63	49	95	0.28
LSRTHK63X50N	63x50	63	50	216	63	55	103	0.33
LSRTHK75X32N	75x32	75	32	260	70	44	100	0.45
LSRTHK75X40N	75x40	75	40	261	70	49	106	0.45
LSRTHK75X50N	75x50	75	50	261	70	55	113	0.47
LSRTHK75X63N	75x63	75	63	261	70	63	121	0.53
LSRTHK90X50N	90x50	90	50	290	79	55	124	0.78
LSRTHK90X63N	90x63	90	63	290	79	63	132	0.8
LSRTHK90X75N	90x75	90	75	290	79	70	136	0.85
LSRTHK110X32N	110x32	110	32	327	82	55	140	1.26
LSRTHK110X63N	110x63	110	63	327	82	63	149	1.33
LSRTHK110X75N	110x75	110	75	327	82	70	151	1.36
LSRTHK110X90N	110x90	110	90	327	82	79	157	1.42
LSRTHK125X63N	Ø 125x63	125	63	356	87	63	154	1.74
LSRTHK125X90N	125x90	125	90	356	87	79	172	2.04
LSRTHK125X110N	125x110	125	110	356	87	82	176	2.14
LSRTHK140X63N	Ø 140x63	140	63	390	97	72	-	2.51
LSRTHK140X90N	140x90	140	90	380	97	83	175	2.4
LSRTHK140X110N	140x110	140	110	380	92	82	179	2.54
LSRTHK140X125N	140x125	140	125	380	92	87	184	2.7
LSRTHK160X63N	160x63	160	63	390	98	63	175	3.42
LSRTHK160X75N	160x75	160	75	417	98	70	182	3.5
LSRTHK160X90N	160x90	160	90	417	98	79	187	3.54
LSRTHK160X110N	160x110	160	110	417	98	82	195	3.67
LSRTHK160X125N	160x125	160	125	417	98	87	200	3.75
LSRTHK180X63N	Ø 180x63	180	63	450	105	64	-	4.59
LSRTHK180X90N	180x90	180	90	458	105	79	206	5
LSRTHK180X110N	180x110	180	110	458	105	82	210	4.98
LSRTHK180X125N	180x125	180	125	458	105	87	215	5.14
LSRTHK180X160N	180x160	180	160	458	105	98	222	5.38
LSRTHK200X63N	200x63	200	63	481	112	63	191	6.24
LSRTHK200X90N	200x90	200	90	481	112	79	207	6.3
LSRTHK200X110N	200x110	200	110	481	112	82	211	6.44
LSRTHK200X180N	Ø 200x180	200	180	500	116	112	-	7.1
LSRTHK225X75N	Ø 225x75	225	75	560	129	73	219	9.75
LSRTHK225X90N	225x90	225	90	527	120	79	222	8.62
LSRTHK225X110N	225x110	225	110	527	120	82	226	8.78
LSRTHK225X125N	225x125	225	125	527	120	87	239	8.78
LSRTHK225X160N	225x160	225	160	527	120	98	242	9.22
LSRTHK225X180N	Ø 225x180	225	180	540	120	106	-	9.8
LSRTHK250X90N	250x90	250	90	589	135	82	243	11.51
LSRTHK250X110N	250x110	250	110	590	129	82	251	11.73
LSRTHK250X125N	250x125	250	125	590	129	87	252	11.74
LSRTHK250X160N	250x160	250	160	590	129	98	267	12.25
LSRTHK250X180N	Ø 250x180	250	180	596	130	106	-	12.62
LSRTHK250X200N	250x200	250	200	590	129	112	278	12.81
LSRTHK250X225N	250x225	250	225	590	129	120	285	13.16

Reference Number	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK280X110N	280x110	280	110	690	139	82	290	17.97
LSRTHK280X160N	280x160	280	160	690	139	98	302	18.64
LSRTHK280X200N	280x200	280	200	690	139	112	316	19.33
LSRTHK280X225N	280x225	280	225	690	139	120	320	19.85
LSRTHK280X250N	280x250	280	250	685	139	129	331	20.45
LSRTHK315X110N	315x110	315	110	712	150	82	293	22
LSRTHK315X125N	Ø 315x125	315	125	703	152	105	-	23.5
LSRTHK315X160N	315x160	315	160	712	150	98	303	22.6
LSRTHK315X180N	Ø 315x180	315	180	703	152	116	-	24.1
LSRTHK315X200N	315x200	315	200	712	150	112	317	23.05
LSRTHK315X225N	315x225	315	225	712	150	120	325	23.7
LSRTHK315X250N	315x250	315	250	712	150	129	332	25.32
LSRTHK355X110N	Ø 355x110	355	110	690	180	90	-	28.16
LSRTHK355X160N	Ø 355x160	355	160	685	180	101	-	27.8
LSRTHK355X225N	Ø 355x225	355	225	674	174	120	-	28.97
LSRTHK400X110N	Ø 400x110	400	110	755	190	89	-	38.4
LSRTHK400X160N	Ø 400x160	400	160	755	190	102	-	39.31
LSRTHK400X225N	Ø 400x225	400	225	755	190	120	-	50.2
LSRTHK450X160N	Ø 450x160	450	160	676	197	100	-	42.6
LSRTHK450X225N	Ø 450x225	450	225	765	198	122	-	53
LSRTHK450X315N	Ø 450x315	450	315	887	198	155	-	63.8
LSRTHK500X160N	Ø 500x160	500	160	710	215	99	-	55.2
LSRTHK500X250N	Ø 500x250	500	250	815	220	140	-	63
LSRTHK560X250N	Ø 560x250	560	250	960	240	135	-	95
LSRTHK630X160N	630x160	630	160	800	255	100	-	99.5
LSRTHK630X250N	Ø 630x250	630	250	875	255	137	-	103

Ø Non Fusamatic branded.

**SDR 9  
WATER PN 20  
PE100**



**1255/10-001**



REDUCING TEE / LONG SPIGOT / Ø 160-250mm OUTLET / Ø 250-560mm BODY

Reference Number	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK250X160R	250x160	250	160	596	130	130	-	16.15
LSRTHK315X110R	315x110	315	110	703	156	91	-	29
LSRTHK315X160R	315x160	315	160	703	152	106	-	29.5
LSRTHK315X200R	315x200	315	200	703	152	120	-	29.5
LSRTHK355X160R	355x160	355	160	685	180	101	-	35.82
LSRTHK400X160R	400x160	400	160	755	190	102	-	49.61
LSRTHK400X225R	400x225	400	225	755	190	120	-	50.73
LSRTHK450X160R	450x160	450	160	676	197	100	-	49.6
LSRTHK450X225R	450x225	450	225	765	196	122	-	62.2
LSRTHK450X315R	450x315	450	315	887	196	155	-	74.6
LSRTHK560X250R	560x250	560	250	960	240	135	-	158.84

**SDR 7.4  
WATER PN 25  
PE100**

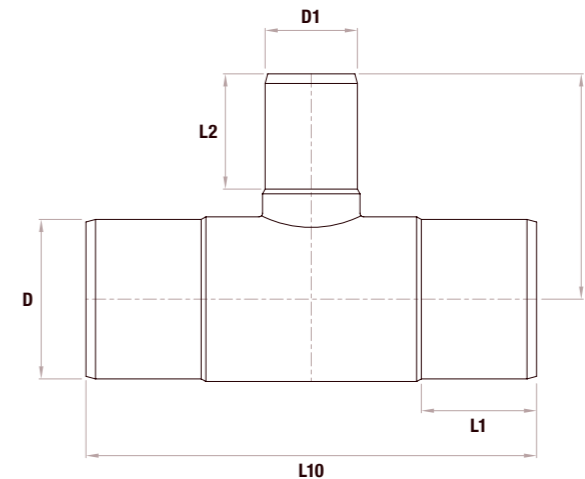


**1255/08-001**



REDUCING TEE / LONG SPIGOT / Ø 160-250mm OUTLET / Ø 250-560mm BODY

Reference Number	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSRTHK250X160T	250x160	250	160	596	130	106	-	17
LSRTHK315X110T	315x110	315	110	703	156	91	-	29.8
LSRTHK315X160T	315x160	315	160	703	152	106	-	34.18
LSRTHK315X200T	315x200	315	200	703	152	120	-	33.37
LSRTHK355X160T	355x160	355	160	685	180	101	-	37.7
LSRTHK400X160T	400x160	400	160	755	190	102	-	52.22
LSRTHK400X225T	400x225	400	225	755	190	120	-	53.4
LSRTHK450X160T	450x160	450	160	676	197	100	-	57.71
LSRTHK450X225T	450x225	450	225	765	196	122	-	69.39
LSRTHK450X315T	450x315	450	315	887	196	155	-	88.59
LSRTHK560X250T	560x250	560	250	960	240	135	-	167.2



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# REDUCING TEE

## SHORT SPIGOT

Ø 32-125mm OUTLET  
Ø 90-180mm BODY

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

Water Wastewater Irrigation Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
PE100



1255/02-001



REDUCING TEE / SHORT SPIGOT / Ø 63-125mm OUTLET / Ø 140-180mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
SSRTHK140X63V	140x63	140	63	291	83	32	120	1.36
SSRTHK140X75V	140x75	140	75	291	81	35	130	1.37
SSRTHK140X90V	140x90	140	90	291	81	41	130	1.38
SSRTHK140X110V	140x110	140	110	291	50	44	140	1.66
SSRTHK160X125V	160x125	160	125	315	58	47	150	2.69
SSRTHK180X63V	180x63	180	63	348	125	30	140	2.2
SSRTHK180X75V	180x75	180	75	348	112	30	160	2.3
SSRTHK180X125V	180x125	180	125	348	92	50	150	2.5

SDR 11  
WATER PN 16  
PE100

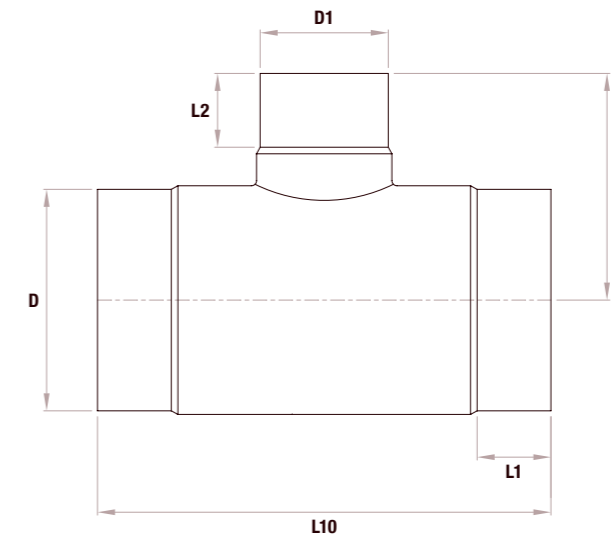


1255/00-001



REDUCING TEE / SHORT SPIGOT / Ø 32-125mm OUTLET / Ø 90-180mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
SSRTHK90X32N	90x32	90	32	203	53	23	85	0.56
SSRTHK110X32N	110x32	110	32	234	66	22	91	0.94
SSRTHK110X50N	110x50	110	50	240	66	27	101	0.95
SSRTHK125X63N	125x63	125	63	264	70	31	110	1.4
SSRTHK140X63N	140x63	140	63	291	83	32	120	1.8
SSRTHK140X75N	140x75	140	75	291	81	35	130	1.88
SSRTHK140X90N	140x90	140	90	291	81	41	130	1.92
SSRTHK140X110N	140x110	140	110	291	50	44	140	2.24
SSRTHK160X125N	160x125	160	125	315	58	47	150	2.69
SSRTHK180X63N	180x63	180	63	348	125	30	140	3.16
SSRTHK180X75N	180x75	180	75	348	112	30	160	3.35
SSRTHK180X125N	180x125	180	125	348	92	50	150	3.55



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# REDUCING AND EQUAL TEE

## LONG SPIGOT MACHINED

Ø 63 - 900mm OUTLET  
Ø 250 - 900mm BODY

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Machined long spigot design, suitable for electrofusion and butt fusion jointing

**Machined:** Pressure class conforming design with pipe extended long spigot ends and outlet

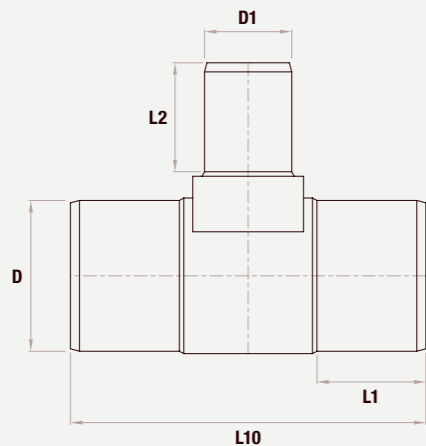
**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 PE100



REDUCING AND EQUAL TEE / LONG SPIGOT MACHINED / Ø 63 - 900mm OUTLET / Ø 250 - 900mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MLSRTHK250X63V	250x63	250	63	676	250	150	8.2
MLSRTHK250X75V	250x75	250	75	691	250	150	8.5
MLSRTHK250X90V	250x90	250	90	706	250	150	8.8
MLSRTK250X110V	250x110	250	110	726	250	150	9.3
MLSRTK250X125V	250x125	250	125	741	250	150	9.7
MLSRTK250X140V	250x140	250	140	756	250	150	10.1
MLSRTK250X160V	250x160	250	160	777	250	150	10.7
MLSRTK250X180V	250x180	250	180	797	250	150	11.3
MLSRTK250X200V	250x200	250	200	817	250	150	11.9
MLSRTK250X225V	250x225	250	225	844	250	150	12.8
MLSRTHK280X63V	280x63	280	63	676	250	150	10.3
MLSRTHK280X75V	280x75	280	75	691	250	150	10.7
MLSRTHK280X90V	280x90	280	90	706	250	150	11.1
MLSRTK280X110V	280x110	280	110	726	250	150	11.7
MLSRTK280X125V	280x125	280	125	741	250	150	12.1
MLSRTK280X140V	280x140	280	140	756	250	150	12.6
MLSRTK280X160V	280x160	280	160	777	250	150	13.2
MLSRTK280X180V	280x180	280	180	797	250	150	13.9
MLSRTK280X200V	280x200	280	200	817	250	150	14.6
MLSRTK280X225V	280x225	280	225	844	250	150	15.6
MLSRTHK315X75V	315x75	315	75	791	300	150	15
MLSRTHK315X90V	315x90	315	90	806	300	150	15.5
MLSRTK315X110V	315x110	315	110	826	300	150	16.2
MLSRTK315X125V	315x125	315	125	841	300	150	16.7
MLSRTK315X140V	315x140	315	140	856	300	150	17.2
MLSRTK315X160V	315x160	315	160	877	300	150	18
MLSRTK315X180V	315x180	315	180	897	300	150	18.7
MLSRTK315X200V	315x200	315	200	917	300	150	19.5
MLSRTK315X225V	315x225	315	225	944	300	150	20.7
MLSRTK315X250V	315x250	315	250	967	300	250	22.8
MLSRTK355X110V	355x110	355	110	826	300	150	20.4
MLSRTK355X125V	355x125	355	125	841	300	150	21
MLSRTK355X140V	355x140	355	140	856	300	150	21.6
MLSRTK355X160V	355x160	355	160	877	300	150	22.5
MLSRTK355X180V	355x180	355	180	897	300	150	23.4
MLSRTK355X200V	355x200	355	200	917	300	150	24.3
MLSRTK355X225V	355x225	355	225	944	300	150	25.6
MLSRTK355X250V	355x250	355	250	967	300	250	27.9
MLSRTK355X280V	355x280	355	280	997	300	250	29.7
MLSRTK400X110V	400x110	400	110	826	300	150	25.4
MLSRTK400X125V	400x125	400	125	841	300	150	26.1
MLSRTK400X140V	400x140	400	140	856	300	150	26.8
MLSRTK400X160V	400x160	400	160	877	300	150	27.9
MLSRTK400X180V	400x180	400	180	897	300	150	28.9
MLSRTK400X200V	400x200	400	200	917	300	150	29.9
MLSRTK400X225V	400x225	400	225	944	300	150	31.4
MLSRTK400X250V	400x250	400	250	967	300	250	33.9
MLSRTK400X280V	400x280	400	280	997	300	250	36
MLSRTK400X315V	400x315	400	315	1032	300	300	39.4
MLSRTK450X125V	450x125	450	125	841	300	150	32.6
MLSRTK450X140V	450x140	450	140	856	300	150	33.4
MLSRTK450X160V	450x160	450	160	877	300	150	34.6
MLSRTK450X180V	450x180	450	180	897	300	150	35.8

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MLSRTK450X200V	450x200	450	200	917	300	150	37.1
MLSRTK450X225V	450x225	450	225	944	300	150	38.8
MLSRTK450X250V	450x250	450	250	967	300	250	41.4
MLSRTK450X280V	450x280	450	280	997	300	250	43.8
MLSRTK450X315V	450x315	450	315	1032	300	300	47.6
MLSRTK450X355V	450x355	450	355	1072	300	300	51.3
MLSRTK500X140V	500x140	500	140	956	350	150	45.4
MLSRTK500X160V	500x160	500	160	977	350	150	46.8
MLSRTK500X180V	500x180	500	180	997	350	150	48.2
MLSRTK500X200V	500x200	500	200	1017	350	150	49.6
MLSRTK500X225V	500x225	500	225	1044	350	150	51.6
MLSRTK500X250V	500x250	500	250	1067	350	250	54.5
MLSRTK500X280V	500x280	500	280	1097	350	250	57.1
MLSRTK500X315V	500x315	500	315	1132	350	300	61.3
MLSRTK500X355V	500x355	500	355	1172	350	300	65.5
MLSRTK500X400V	500x400	500	400	1218	350	300	70.6
MLSRTK560X160V	560x160	560	160	1005	350	150	59.6
MLSRTK560X180V	560x180	560	180	1025	350	150	61.3
MLSRTK560X200V	560x200	560	200	1045	350	150	63
MLSRTK560X225V	560x225	560	225	1070	350	150	65.2
MLSRTK560X250V	560x250	560	250	1095	350	250	68.5
MLSRTK560X280V	560x280	560	280	1125	350	250	71.6
MLSRTK560X315V	560x315	560	315	1160	350	300	76.2
MLSRTK560X355V	560x355	560	355	1200	350	300	80.9
MLSRTK560X400V	560x400	560	400	1246	350	300	86.6
MLSRTK560X450V	560x450	560	450	1296	350	300	93.3
MLSRTK630X180V	630x180	630	180	1025	350	150	77.1
MLSRTK630X200V	630x200	630	200	1045	350	150	79.1
MLSRTK630X225V	630x225	630	225	1070	350	150	81.7
MLSRTK630X250V	630x250	630	250	1095	350	250	85.5
MLSRTK630X280V	630x280	630	280	1125	350	250	89.1
MLSRTK630X315V	630x315	630	315	1160	350	300	94.2
MLSRTK630X355V	630x355	630	355	1200	350	300	99.6
MLSRTK630X400V	630x400	630	400	1246	350	300	106.1
MLSRTK630X450V	630x450	630	450	1296	350	300	113.7
MLSRTK630X500V	630x500	630	500	1346	350	350	124
MLSETHK630V	630	630	630	1480	350	350	148
MLSRTK710X180V	710x180	710	180	1025	350	150	97.1
MLSRTK710X200V	710x200	710	200	1045	350	150	99.6
MLSRTK710X225V	710x225	710	225	1070	350	150	102.8
MLSRTK710X250V	710x250	710	250	1095	350	250	107
MLSRTK710X280V	710x280	710	280	1125	350	250	111.3
MLSRTK710X315V	710x315	710	315	1160	350	300	117.2
MLSRTK710X355V	710x355	710	355	1200	350	300	123.4
MLSRTK710X400V	710x400	710	400	1246	350	300	130.9
MLSRTK710X450V	710x450	710	450	1296	350	300	139.6
MLSRTK710X500V	710x500	710	500	1346	350	350	150.9
MLSRTK710X560V	710x560	710	560	1410	350	350	163.6
MLSETHK710V	710	710	710	1560	350	350	196.4
MLSETHK800V	800	800	800	1652	350	350	258.9
MLSETHK900V	900	900	900	1850	400	400	366.3

● Gas 6 Bar upon request.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

1254/28-001





**SDR 11  
WATER PN 16  
PE100**



**1254/26-001**



REDUCING AND EQUAL TEE / LONG SPIGOT MACHINED / Ø 63-900mm OUTLET / Ø 250-900mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MLSRTHK250X63N	250x63	250	63	676	250	150	11.7
MLSRTHK250X75N	250x75	250	75	691	250	150	12.1
MLSRTHK250X90N	250x90	250	90	706	250	150	12.6
MLSRTK250X110N	250x110	250	110	726	250	150	13.2
MLSRTK250X125N	250x125	250	125	741	250	150	13.7
MLSRTK250X140N	250x140	250	140	756	250	150	14.2
MLSRTK250X160N	250x160	250	160	777	250	150	15
MLSRTK250X180N	250x180	250	180	797	250	150	15.8
MLSRTK250X200N	250x200	250	200	817	250	150	16.6
MLSRTK250X225N	250x225	250	225	844	250	150	17.8
MLSRTHK280X63N	280x63	280	63	676	250	150	14.6
MLSRTHK280X75N	280x75	280	75	691	250	150	15.1
MLSRTHK280X90N	280x90	280	90	706	250	150	15.6
MLSRTK280X110N	280x110	280	110	726	250	150	16.3
MLSRTK280X125N	280x125	280	125	741	250	150	16.9
MLSRTK280X140N	280x140	280	140	756	250	150	17.5
MLSRTK280X160N	280x160	280	160	777	250	150	18.4
MLSRTK280X180N	280x180	280	180	797	250	150	19.3
MLSRTK280X200N	280x200	280	200	817	250	150	20.2
MLSRTK280X225N	280x225	280	225	844	250	150	21.5
MLSRTHK315X75N	315x75	315	75	791	300	150	21.4
MLSRTHK315X90N	315x90	315	90	806	300	150	22
MLSRTK315X110N	315x110	315	110	826	300	150	22.9
MLSRTK315X125N	315x125	315	125	841	300	150	23.5
MLSRTK315X140N	315x140	315	140	856	300	150	24.2
MLSRTK315X160N	315x160	315	160	877	300	150	25.2
MLSRTK315X180N	315x180	315	180	897	300	150	26.2
MLSRTK315X200N	315x200	315	200	917	300	150	27.3
MLSRTK315X225N	315x225	315	225	944	300	150	28.8
MLSRTK315X250N	315x250	315	250	967	300	250	31.7
MLSRTHK355X90N	355x90	355	90	806	300	150	27.8
MLSRTK355X110N	355x110	355	110	826	300	150	28.8
MLSRTK355X125N	355x125	355	125	841	300	150	29.6
MLSRTK355X140N	355x140	355	140	856	300	150	30.4
MLSRTK355X160N	355x160	355	160	877	300	150	31.6
MLSRTK355X180N	355x180	355	180	897	300	150	32.7
MLSRTK355X200N	355x200	355	200	917	300	150	34
MLSRTK355X225N	355x225	355	225	944	300	250	35.7
MLSRTK355X250N	355x250	355	250	967	300	250	38.8
MLSRTK355X280N	355x280	355	280	997	300	250	41.3
MLSRTK400X110N	400x110	400	110	997	300	150	36.1
MLSRTK400X125N	400x125	400	125	841	300	150	37.1
MLSRTK400X140N	400x140	400	140	856	300	150	38
MLSRTK400X160N	400x160	400	160	877	300	150	39.4
MLSRTK400X180N	400x180	400	180	897	300	150	40.8
MLSRTK400X200N	400x200	400	200	917	300	150	42.2
MLSRTK400X225N	400x225	400	225	944	300	150	44.1
MLSRTK400X250N	400x250	400	250	967	300	250	47.5
MLSRTK400X280N	400x280	400	280	997	300	250	50.3
MLSRTK400X315N	400x315	400	315	1032	300	300	55.1
MLSRTK450X125N	450x125	450	125	841	300	150	46.4
MLSRTK450X140N	450x140	450	140	856	300	150	47.6
MLSRTK450X160N	450x160	450	160	877	300	150	49.2
MLSRTK450X180N	450x180	450	180	897	300	150	50.8
MLSRTK450X200N	450x200	450	200	917	300	150	52.4
MLSRTK450X225N	450x225	450	225	944	300	150	54.7
MLSRTK450X250N	450x250	450	250	967	300	250	58.3

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MLSRTK450X280N	450x280	450	280	997	300	250	61.5
MLSRTK450X315N	450x315	450	315	1032	300	300	66.6
MLSRTK450X355N	450x355	450	355	1072	300	300	71.7
MLSRTK500X140N	500x140	500	140	956	350	150	64.7
MLSRTK500X160N	500x160	500	160	977	350	150	66.6
MLSRTK500X180N	500x180	500	180	997	350	150	68.5
MLSRTK500X200N	500x200	500	200	1017	350	150	70.4
MLSRTK500X225N	500x225	500	225	1044	350	150	73
MLSRTK500X250N	500x250	500	250	1067	350	250	77
MLSRTK500X280N	500x280	500	280	1097	350	250	80.5
MLSRTK500X315N	500x315	500	315	1132	350	300	86.2
MLSRTK500X355N	500x355	500	355	1172	350	300	91.8
MLSRTK500X400N	500x400	500	400	1218	350	300	98.7
MLSRTK560X160N	560x160	560	160	1005	350	150	85.1
MLSRTK560X180N	560x180	560	180	1025	350	150	87.4
MLSRTK560X200N	560x200	560	200	1045	350	150	89.6
MLSRTK560X225N	560x225	560	225	1070	350	150	92.6
MLSRTK560X250N	560x250	560	250	1095	350	250	97.1
MLSRTK560X280N	560x280	560	280	1125	350	250	101.2
MLSRTK560X315N	560x315	560	315	1160	350	300	107.4
MLSRTK560X355N	560x355	560	355	1200	350	300	113.8
MLSRTK560X400N	560x400	560	400	1246	350	300	121.5
MLSRTK560X450N	560x450	560	450	1296	350	300	130.5
MLSETHK560N	560	560	560	1410	350	350	156.6
MLSRTK630X180N	630x180	630	180	1025	350	150	110
MLSRTK630X200N	630x200	630	200	1045	350	150	112.7
MLSRTK630X225N	630x225	630	225	1070	350	150	116.2
MLSRTK630X250N	630x250	630	250	1095	350	250	121.3
MLSRTK630X280N	630x280	630	280	1125	350	250	126.1
MLSRTK630X315N	630x315	630	315	1160	350	300	133.2
MLSRTK630X355N	630x355	630	355	1200	350	300	140.4
MLSRTK630X400N	630x400	630	400	1246	350	300	149.2
MLSRTK630X450N	630x450	630	450	1296	350	300	159.4
MLSRTK630X500N	630x500	630	500	1346	350	350	173.3
MLSETHK630N	630	630	630	1480	350	350	206.4
MLSRTK710X180N	710x180	710	180	1025	350	150	138.9
MLSRTK710X200N	710x200	710	200	1045	350	150	142.3
MLSRTK710X225N	710x225	710	225	1070	350	150	146.5
MLSRTK710X250N	710x250	710	250	1095	350	250	152.3
MLSRTK710X280N	710x280	710	280	1125	350	250	158.1
MLSRTK710X315N	710x315	710	315	1160	350	300	166.2
MLSRTK710X355N	710x355	710	355	1200	350	300	174.6
MLSRTK710X400N	710x400	710	400	1246	350	300	184.7
MLSRTK710X450N	710x450	710	450	1296	350	300	196.3
MLSRTK710X500N	710x500	710	500	1346	350	350	211.7
MLSRTK710X560N	710x560	710	560	1410	350	350	228.8
MLSETHK710N	710	710	710	1560	350	350	273.9
MLSETHK800N	800	800	800	1652	350	350	369.1
MLSETHK900N	900	900	900	1850	400	400	519

● Gas 10 Bar upon request.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# REDUCING AND EQUAL TEE

## SHORT SPIGOT MACHINED

Ø 63-710mm OUTLET  
Ø 280-710mm BODY

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

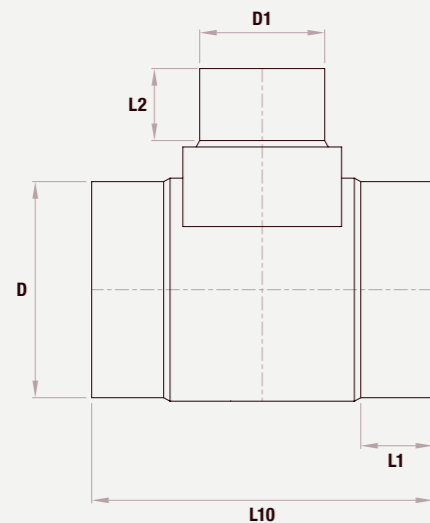
**Machined:** Pressure class conforming design with pipe extended long spigot outlet

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 PE100



REDUCING AND EQUAL TEE / SHORT SPIGOT MACHINED / Ø 63-710mm OUTLET / Ø 280-710mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MSSRTK280X63V	280x63	280	63	266	70	150	4.7
MSSRTK280X75V	280x75	280	75	281	70	150	5.1
MSSRTK280X90V	280x90	280	90	296	70	150	5.5
MSSRTK280X110V	280x110	280	110	316	70	150	6
MSSRTK280X125V	280x125	280	125	331	70	150	6.5
MSSRTK280X140V	280x140	280	140	346	70	150	6.9
MSSRTK280X160V	280x160	280	160	367	70	150	7.6
MSSRTK280X180V	280x180	280	180	387	70	150	8.3
MSSRTK280X200V	280x200	280	200	407	70	150	9
MSSRTK280X225V	280x225	280	225	434	70	150	10
MSSRTK315X75V	315x75	315	75	281	70	150	6.2
MSSRTK315X90V	315x90	315	90	296	70	150	6.7
MSSRTK315X110V	315x110	315	110	316	70	150	7.4
MSSRTK315X125V	315x125	315	125	331	70	150	7.8
MSSRTK315X140V	315x140	315	140	346	70	150	8.4
MSSRTK315X160V	315x160	315	160	367	70	150	9.1
MSSRTK315X180V	315x180	315	180	387	70	150	9.9
MSSRTK315X200V	315x200	315	200	407	70	150	10.7
MSSRTK315X225V	315x225	315	225	434	70	150	11.8
MSSRTK315X250V	315x250	315	250	457	70	250	13.9
MSSRTK355X90V	355x90	355	90	306	75	150	8.6
MSSRTK355X110V	355x110	355	110	326	75	150	9.4
MSSRTK355X125V	355x125	355	125	341	75	150	10
MSSRTK355X140V	355x140	355	140	356	75	150	10.6
MSSRTK355X160V	355x160	355	160	377	75	150	11.5
MSSRTK355X180V	355x180	355	180	397	75	150	12.4
MSSRTK355X200V	355x200	355	200	417	75	150	13.3
MSSRTK355X225V	355x225	355	225	444	75	150	14.6
MSSRTK355X250V	355x250	355	250	467	75	250	16.8
MSSRTK355X280V	355x280	355	280	497	75	250	18.7
MSSRTK400X110V	400x110	400	110	326	75	150	11.5
MSSRTK400X125V	400x125	400	125	341	75	150	12.2
MSSRTK400X140V	400x140	400	140	356	75	150	12.9
MSSRTK400X160V	400x160	400	160	377	75	150	13.9
MSSRTK400X180V	400x180	400	180	397	75	150	15
MSSRTK400X200V	400x200	400	200	417	75	150	16
MSSRTK400X225V	400x225	400	225	444	75	150	17.5
MSSRTK400X250V	400x250	400	250	467	75	250	19.9
MSSRTK400X280V	400x280	400	280	497	75	250	22
MSSRTK400X315V	400x315	400	315	532	75	300	25.4
MSSRTK450X125V	450x125	450	125	341	75	150	15
MSSRTK450X140V	450x140	450	140	356	75	150	15.8
MSSRTK450X160V	450x160	450	160	377	75	150	17
MSSRTK450X180V	450x180	450	180	397	75	150	18.2
MSSRTK450X200V	450x200	450	200	417	75	150	19.4
MSSRTK450X225V	450x225	450	225	444	75	150	21.1
MSSRTK450X250V	450x250	450	250	467	75	250	23.7
MSSRTK450X280V	450x280	450	280	497	75	250	26.1
MSSRTK450X315V	450x315	450	315	532	75	300	29.8
MSSRTK450X355V	450x355	450	355	572	75	300	33.6
MSSRTK500X140V	500x140	500	140	356	75	150	19.3

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MSSRTK500X160V	500x160	500	160	377	75	150	20.7
MSSRTK500X180V	500x180	500	180	397	75	150	22.1
MSSRTK500X200V	500x200	500	200	417	75	150	23.5
MSSRTK500X225V	500x225	500	225	444	75	150	25.5
MSSRTK500X250V	500x250	500	250	467	75	250	28.3
MSSRTK500X315V	500x315	500	315	532	75	300	35.1
MSSRTK500X280V	500x280	500	280	497	75	250	31
MSSRTK500X355V	500x355	500	355	572	75	300	39.2
MSSRTK500X400V	500x400	500	400	616	75	300	44.3
MSSRTK560X160V	560x160	560	160	375	75	150	25.3
MSSRTK560X180V	560x180	560	180	395	75	150	27
MSSRTK560X200V	560x200	560	200	415	75	150	28.7
MSSRTK560X225V	560x225	560	225	440	75	150	30.9
MSSRTK560X250V	560x250	560	250	465	75	250	34.1
MSSRTK560X280V	560x280	560	280	495	75	250	37.2
MSSRTK560X315V	560x315	560	315	530	75	300	41.7
MSSRTK560X355V	560x355	560	355	570	75	300	46.4
MSSRTK560X400V	560x400	560	400	616	75	300	52.1
MSSRTK560X450V	560x450	560	450	666	75	300	58.8
MSETHK560V	560	560	560	780	75	350	77.5
MSSRTK630X180V	630x180	630	180	395	75	150	33.6
MSSRTK630X200V	630x200	630	200	415	75	150	35.6
MSSRTK630X225V	630x225	630	225	440	75	150	38.2
MSSRTK630X250V	630x250	630	250	465	75	250	41.9
MSSRTK630X280V	630x280	630	280	495	75	250	45.5
MSSRTK630X315V	630x315	630	315	530	75	300	50.6
MSSRTK630X355V	630x355	630	355	570	75	300	56
MSSRTK630X400V	630x400	630	400	616	75	300	62.4
MSSRTK630X450V	630x450	630	450	666	75	300	70
MSSRTK630X500V	630x500	630	500	716	75	350	80.1
MSETHK630V	630	630	630	850	75	350	104
MSSRTK710X180V	710x180	710	180	395	75	150	41.9
MSSRTK710X200V	710x200	710	200	415	75	150	44.4
MSSRTK710X225V	710x225	710	225	415	75	150	47.5
MSSRTK710X250V	710x250	710	250	465	75	250	51.8
MSSRTK710X280V	710x280	710	280	495	75	250	56
MSSRTK710X315V	710x315	710	315	533	75	300	62.2
MSSRTK710X355V	710x355	710	355	570	75	300	68.1
MSSRTK710X400V	710x400	710	400	616	75	300	75.5
MSSRTK710X450V	710x450	710	450	666	75	300	84.1
MSSRTK710X500V	710x500	710	500	716	75	350	95.3
MSSRTK710X560V	710x560	710	560	780	75	350	107.9
MSETHK710V	710	710	710	930	75	350	140.6

● Gas 6 Bar upon request.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



**SDR 11  
WATER PN 16  
PE100**



**1254/30-001**

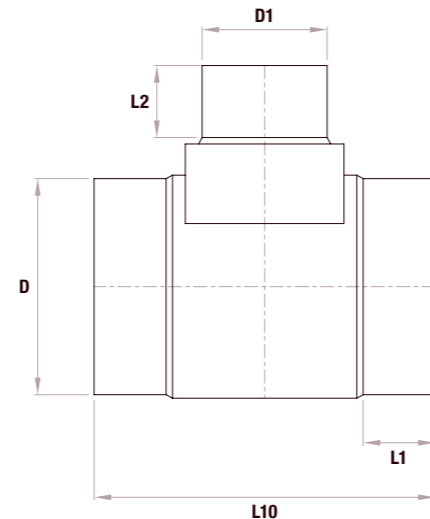


REDUCING AND EQUAL TEE / SHORT SPIGOT MACHINED / Ø 63 - 710mm OUTLET / Ø 280 - 710mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MSSRTK280X63N	280x63	280	63	266	70	150	6.5
MSSRTK280X75N	280x75	280	75	281	70	150	6.9
MSSRTK280X90N	280x90	280	90	296	70	150	7.5
MSSRTK280X110N	280x110	280	110	316	70	150	8.2
MSSRTK280X125N	280x125	280	125	331	70	150	8.8
MSSRTK280X140N	280x140	280	140	346	70	150	9.4
MSSRTK280X160N	280x160	280	160	367	70	150	10.3
MSSRTK280X180N	280x180	280	180	387	70	150	11.2
MSSRTK280X200N	280x200	280	200	407	70	150	12.1
MSSRTK280X225N	280x225	280	225	434	70	150	13.4
MSSRTK315X75N	315x75	315	75	281	70	150	8.6
MSSRTK315X90N	315x90	315	90	296	70	150	9.2
MSSRTK315X110N	315x110	315	110	316	70	150	10.1
MSSRTK315X125N	315x125	315	125	331	70	150	10.7
MSSRTK315X140N	315x140	315	140	346	70	150	11.4
MSSRTK315X160N	315x160	315	160	367	70	150	12.4
MSSRTK315X180N	315x180	315	180	387	70	150	13.4
MSSRTK315X200N	315x200	315	200	407	70	150	14.5
MSSRTK315X225N	315x225	315	225	434	70	150	16
MSSRTK315X250N	315x250	315	250	457	70	250	18.9
MSSRTK355X90N	355x90	355	90	306	75	150	11.8
MSSRTK355X110N	355x110	355	110	326	75	150	12.8
MSSRTK355X125N	355x125	355	125	341	75	150	13.6
MSSRTK355X140N	355x140	355	140	356	75	150	14.4
MSSRTK355X160N	355x160	355	160	377	75	150	15.6
MSSRTK355X180N	355x180	355	180	397	75	150	16.8
MSSRTK355X200N	355x200	355	200	417	75	150	18
MSSRTK355X225N	355x225	355	225	444	75	150	19.7
MSSRTK355X250N	355x250	355	250	467	75	250	22.9
MSSRTK355X280N	355x280	355	280	497	75	250	25.4
MSSRTK400X110N	400x110	400	110	326	75	150	15.9
MSSRTK400X125N	400x125	400	125	341	75	150	16.8
MSSRTK400X140N	400x140	400	140	356	75	150	17.8
MSSRTK400X160N	400x160	400	160	377	75	150	19.2
MSSRTK400X180N	400x180	400	180	397	75	150	20.5
MSSRTK400X200N	400x200	400	200	417	75	150	21.9
MSSRTK400X225N	400x225	400	225	444	75	150	23.9
MSSRTK400X250N	400x250	400	250	467	75	250	27.3
MSSRTK400X280N	400x280	400	280	497	75	250	30.1
MSSRTK400X315N	400x315	400	315	532	75	300	34.8
MSSRTK450X125N	450x125	450	125	341	75	150	20.8
MSSRTK450X140N	450x140	450	140	356	75	150	21.9
MSSRTK450X160N	450x160	450	160	377	75	150	23.5
MSSRTK450X180N	450x180	450	180	397	75	150	25.1
MSSRTK450X200N	450x200	450	200	417	75	150	26.8
MSSRTK450X225N	450x225	450	225	444	75	150	29
MSSRTK450X250N	450x250	450	250	467	75	250	32.7
MSSRTK450X280N	450x280	450	280	497	75	250	35.8
MSSRTK450X315N	450x315	450	315	532	75	300	41
MSSRTK450X355N	450x355	450	355	572	75	300	46.1
MSSRTK500X140N	500x140	500	140	356	75	150	26.7
MSSRTK500X160N	500x160	500	160	377	75	150	28.6
MSSRTK500X180N	500x180	500	180	397	75	150	30.5
MSSRTK500X200N	500x200	500	200	417	75	150	32.4
MSSRTK500X225N	500x225	500	225	444	75	150	35.1
MSSRTK500X250N	500x250	500	250	467	75	250	39
MSSRTK500X280N	500x280	500	280	497	75	250	42.5

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
MSSRTK500X315N	500x315	500	315	532	75	300	48.2
MSSRTK500X355N	500x355	500	355	572	75	300	53.8
MSSRTK500X400N	500x400	500	400	618	75	300	60.7
MSSRTK560X160N	560x160	560	160	375	75	150	35.2
MSSRTK560X180N	560x180	560	180	395	75	150	37.4
MSSRTK560X200N	560x200	560	200	415	75	150	39.7
MSSRTK560X225N	560x225	560	225	440	75	150	42.6
MSSRTK560X250N	560x250	560	250	465	75	250	47.1
MSSRTK560X280N	560x280	560	280	495	75	250	51.2
MSSRTK560X315N	560x315	560	315	530	75	300	57.5
MSSRTK560X355N	560x355	560	355	570	75	300	63.8
MSSRTK560X400N	560x400	560	400	616	75	300	71.5
MSSRTK560X450N	560x450	560	450	666	75	300	80.6
MSSRTK630X180N	630x180	630	180	395	75	150	46.7
MSSRTK630X200N	630x200	630	200	415	75	150	49.4
MSSRTK630X225N	630x225	630	225	440	75	150	52.9
MSSRTK630X250N	630x250	630	250	465	75	250	58.1
MSSRTK630X280N	630x280	630	280	495	75	250	62.8
MSSRTK630X315N	630x315	630	315	530	75	300	69.9
MSSRTK630X355N	630x355	630	355	570	75	300	77.2
MSSRTK630X400N	630x400	630	400	616	75	300	85.9
MSSRTK630X450N	630x450	630	450	666	75	300	96.1
MSSRTK630X500N	630x500	630	500	716	75	350	110.1
MSETHK630N	630	630	630	850	75	350	143.1
MSSRTK710X180N	710x180	710	180	395	75	150	58.5
MSSRTK710X200N	710x200	710	200	415	75	150	61.8
MSSRTK710X225N	710x225	710	225	440	75	150	66.1
MSSRTK710X250N	710x250	710	250	465	75	250	72
MSSRTK710X280N	710x280	710	280	495	75	250	77.7
MSSRTK710X315N	710x315	710	315	533	75	300	86.2
MSSRTK710X355N	710x355	710	355	570	75	300	94.2
MSSRTK710X400N	710x400	710	400	616	75	300	104.3
MSSRTK710X450N	710x450	710	450	666	75	300	115.9
MSSRTK710X500N	710x500	710	500	716	75	350	131.3
MSSRTK710X560N	710x560	710	560	780	75	350	148.4
MSETHK710N	710	710	710	930	75	350	193.6

● Gas 10 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# REDUCING TEE ECCENTRIC LEVEL INVERT

## LONG SPIGOT MACHINED

Ø 63 - 560mm OUTLET  
Ø 280 - 710mm BODY

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Machined long spigot design, suitable for electrofusion and butt fusion jointing

**Machined:** Pressure class conforming design with pipe extended long spigot ends and outlet

**Eccentric outlet:** Helps prevent build up of sediment

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 PE100



1254/36-001

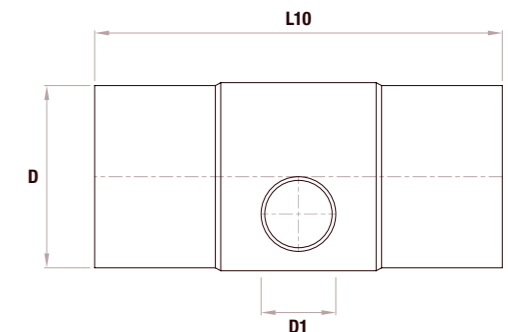


REDUCING TEE ECCENTRIC LEVEL INVERT / LONG SPIGOT MACHINED / Ø 63 - 560mm OUTLET / Ø 280 - 710mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
MLIRTHK280X63V	280x63	280	63	690	10.9
MLIRTHK280X75V	280x75	280	75	705	11.3
MLIRTHK280X90V	280x90	280	90	720	11.7
MLIRTK280X110V	280x110	280	110	740	12.2
MLIRTK280X125V	280x125	280	125	755	12.7
MLIRTK280X140V	280x140	280	140	770	13.1
MLIRTK280X160V	280x160	280	160	790	13.8
MLIRTK280X180V	280x180	280	180	810	14.4
MLIRTK280X200V	280x200	280	200	830	15.2
MLIRTK280X225V	280x225	280	225	855	16.1
MLIRTHK315X75V	315x75	315	75	805	15.8
MLIRTHK315X90V	315x90	315	90	820	16.2
MLIRTK315X110V	315x110	315	110	840	16.9
MLIRTK315X125V	315x125	315	125	855	17.4
MLIRTK315X140V	315x140	315	140	870	17.9
MLIRTK315X160V	315x160	315	160	890	18.6
MLIRTK315X180V	315x180	315	180	910	19.4
MLIRTK315X200V	315x200	315	200	930	20.2
MLIRTK315X225V	315x225	315	225	955	21.2
MLIRTK315X250V	315x250	315	250	980	23.5
MLIRTHK355X90V	355x90	355	90	820	20.6
MLIRTK355X110V	355x110	355	110	840	21.4
MLIRTK355X125V	355x125	355	125	855	22
MLIRTK355X140V	355x140	355	140	870	22.6
MLIRTK355X160V	355x160	355	160	890	23.5
MLIRTK355X180V	355x180	355	180	910	24.4
MLIRTK355X200V	355x200	355	200	930	25.3
MLIRTK355X225V	355x225	355	225	955	26.5
MLIRTK355X250V	355x250	355	250	980	28.9
MLIRTK355X280V	355x280	355	280	1010	30.8
MLIRTK400X110V	400x110	400	110	840	26.6
MLIRTK400X125V	400x125	400	125	855	27.3
MLIRTK400X140V	400x140	400	140	870	28
MLIRTK400X160V	400x160	400	160	890	29
MLIRTK400X180V	400x180	400	180	910	30
MLIRTK400X200V	400x200	400	200	930	31.1
MLIRTK400X225V	400x225	400	225	955	32.4
MLIRTK400X250V	400x250	400	250	980	34.9
MLIRTK400X280V	400x280	400	280	1010	37
MLIRTK400X315V	400x315	400	315	1045	40.5
MLIRTK450X125V	450x125	450	125	855	34.1
MLIRTK450X140V	450x140	450	140	870	35
MLIRTK450X160V	450x160	450	160	890	36.2
MLIRTK450X180V	450x180	450	180	910	37.3
MLIRTK450X200V	450x200	450	200	930	38.5
MLIRTK450X225V	450x225	450	225	955	40.1
MLIRTK450X250V	450x250	450	250	980	42.7
MLIRTK450X280V	450x280	450	280	1010	45.1
MLIRTK450X315V	450x315	450	315	1045	48.8
MLIRTK450X355V	450x355	450	355	1085	52.7
MLIRTK500X140V	500x140	500	140	970	47.3

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
MLIRTK500X160V	500x160	500	160	990	48.7
MLIRTK500X180V	500x180	500	180	1010	50.1
MLIRTK500X200V	500x200	500	200	1030	51.5
MLIRTK500X225V	500x225	500	225	1055	53.4
MLIRTK500X250V	500x250	500	250	1080	56.2
MLIRTK500X280V	500x280	500	280	1110	58.9
MLIRTK500X315V	500x315	500	315	1145	62.9
MLIRTK500X355V	500x355	500	355	1185	67.2
MLIRTK500X400V	500x400	500	400	1230	72.3
MLIRTK560X160V	560x160	560	160	1020	62.3
MLIRTK560X180V	560x180	560	180	1045	64.5
MLIRTK560X200V	560x200	560	200	1065	66.2
MLIRTK560X225V	560x225	560	225	1085	67.9
MLIRTK560X250V	560x250	560	250	1110	71.1
MLIRTK560X280V	560x280	560	280	1140	74.1
MLIRTK560X315V	560x315	560	315	1180	79.1
MLIRTK560X355V	560x355	560	355	1195	84.2
MLIRTK560X400V	560x400	560	400	1270	89.9
MLIRTK560X450V	560x450	560	450	1315	96.4
MLIRTK630X180V	630x180	630	180	1045	80.5
MLIRTK630X200V	630x200	630	200	1065	82.5
MLIRTK630X225V	630x225	630	225	1085	84.6
MLIRTK630X250V	630x250	630	250	1110	88.2
MLIRTK630X280V	630x280	630	280	1140	91.7
MLIRTK630X315V	630x315	630	315	1180	97.2
MLIRTK630X355V	630x355	630	355	1225	103
MLIRTK630X400V	630x400	630	400	1270	109.1
MLIRTK630X450V	630x450	630	450	1315	116.1
MLIRTK630X500V	630x500	630	500	1370	127.1
MLIRTK710X180V	710x180	710	180	1045	102.4
MLIRTK710X200V	710x200	710	200	1065	105
MLIRTK710X225V	710x225	710	225	1085	107.5
MLIRTK710X250V	710x250	710	250	1110	111.8
MLIRTK710X280V	710x280	710	280	1140	116
MLIRTK710X315V	710x315	710	315	1180	122.7
MLIRTK710X355V	710x355	710	355	1225	129.5
MLIRTK710X400V	710x400	710	400	1270	136.7
MLIRTK710X450V	710x450	710	450	1315	144.4
MLIRTK710X500V	710x500	710	500	1370	156.5
MLIRTK710X560V	710x560	710	560	1430	169

● Gas 6 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



# SDR 11 WATER PN 16 PE100



## 1254/34-001

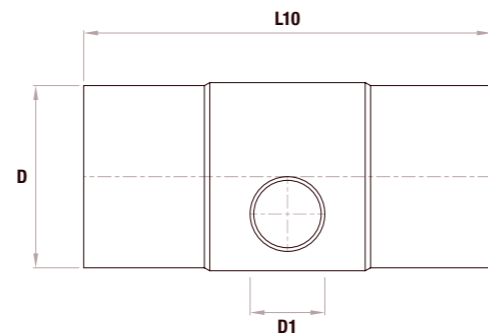


REDUCING TEE ECCENTRIC LEVEL INVERT / LONG SPIGOT MACHINED / Ø 63 -560mm OUTLET / Ø 280 -710mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
MLIRTHK280X63N	280x63	280	63	690	15.4
MLIRTHK280X75N	280x75	280	75	705	15.9
MLIRTHK280X90N	280x90	280	90	720	16.4
MLIRTK280X110N	280x110	280	110	740	17.2
MLIRTK280X125N	280x125	280	125	755	17.7
MLIRTK280X140N	280x140	280	140	770	18.3
MLIRTK280X160N	280x160	280	160	790	19.2
MLIRTK280X180N	280x180	280	180	810	20.1
MLIRTK280X200N	280x200	280	200	830	21
MLIRTK280X225N	280x225	280	225	855	22.3
MLIRTHK315X75N	315x75	315	75	815	22.4
MLIRTHK315X90N	315x90	315	90	820	23
MLIRTK315X110N	315x110	315	110	840	23.9
MLIRTK315X125N	315x125	315	125	855	24.6
MLIRTK315X140N	315x140	315	140	870	25.3
MLIRTK315X160N	315x160	315	160	890	26.2
MLIRTK315X180N	315x180	315	180	910	27.2
MLIRTK315X200N	315x200	315	200	930	28.3
MLIRTK315X225N	315x225	315	225	955	29.7
MLIRTK315X250N	315x250	315	250	980	32.8
MLIRTHK355X90N	355x90	355	90	820	29.2
MLIRTK355X110N	355x110	355	110	840	30.2
MLIRTK355X125N	355x125	355	125	855	31
MLIRTK355X140N	355x140	355	140	870	31.9
MLIRTK355X160N	355x160	355	160	890	33
MLIRTK355X180N	355x180	355	180	910	34.2
MLIRTK355X200N	355x200	355	200	930	35.4
MLIRTK355X225N	355x225	355	225	955	37
MLIRTK355X250N	355x250	355	250	980	40.3
MLIRTK355X280N	355x280	355	280	1010	42.9
MLIRTK400X110N	400x110	400	110	840	37.8
MLIRTK400X125N	400x125	400	125	855	38.8
MLIRTK400X140N	400x140	400	140	870	39.8
MLIRTK400X160N	400x160	400	160	890	41.1
MLIRTK400X180N	400x180	400	180	910	42.5
MLIRTK400X200N	400x200	400	200	930	43.9
MLIRTK400X225N	400x225	400	225	955	45.7
MLIRTK400X250N	400x250	400	250	980	49.2
MLIRTK400X280N	400x280	400	280	1010	52
MLIRTK400X315N	400x315	400	315	1045	56.8
MLIRTK450X125N	450x125	450	125	855	48.6
MLIRTK450X140N	450x140	450	140	870	49.8
MLIRTK450X160N	450x160	450	160	890	51.4
MLIRTK450X180N	450x180	450	180	910	53
MLIRTK450X200N	450x200	450	200	930	54.6
MLIRTK450X225N	450x225	450	225	955	56.7
MLIRTK450X250N	450x250	450	250	980	60.5
MLIRTK450X280N	450x280	450	280	1010	63.6
MLIRTK450X315N	450x315	450	315	1045	68.8
MLIRTK450X355N	450x355	450	355	1085	74
MLIRTK500X140N	500x140	500	140	970	67.5

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
MLIRTK500X160N	500x160	500	160	990	69.4
MLIRTK500X180N	500x180	500	180	1010	71.3
MLIRTK500X200N	500x200	500	200	1030	73.2
MLIRTK500X225N	500x225	500	225	1055	75.7
MLIRTK500X250N	500x250	500	250	1080	79.8
MLIRTK500X280N	500x280	500	280	1110	83.3
MLIRTK500X315N	500x315	500	315	1145	88.9
MLIRTK500X355N	500x355	500	355	1185	94.6
MLIRTK500X400N	500x400	500	400	1230	101.5
MLIRTK560X160N	560x160	560	160	1020	88.9
MLIRTK560X180N	560x180	560	180	1045	91.8
MLIRTK560X200N	560x200	560	200	1065	94.1
MLIRTK560X225N	560x225	560	225	1085	96.5
MLIRTK560X250N	560x250	560	250	1110	101.1
MLIRTK560X280N	560x280	560	280	1140	105.1
MLIRTK560X315N	560x315	560	315	1180	112
MLIRTK560X355N	560x355	560	355	1225	118.9
MLIRTK560X400N	560x400	560	400	1270	126.5
MLIRTK560X450N	560x450	560	450	1315	135.2
MLIRTK630X180N	630x180	630	180	1045	115
MLIRTK630X200N	630x200	630	200	1065	117.8
MLIRTK630X225N	630x225	630	225	1085	120.6
MLIRTK630X250N	630x250	630	250	1110	125.8
MLIRTK630X280N	630x280	630	280	1140	130.5
MLIRTK630X315N	630x315	630	315	1180	138.2
MLIRTK630X355N	630x355	630	355	1225	146
MLIRTK630X400N	630x400	630	400	1270	154.5
MLIRTK630X450N	630x450	630	450	1315	163.9
MLIRTK630X500N	630x500	630	500	1370	178.8
MLIRTK710X180N	710x180	710	180	1045	146.3
MLIRTK710X200N	710x200	710	200	1065	149.8
MLIRTK710X225N	710x225	710	225	1085	153.3
MLIRTK710X250N	710x250	710	250	1110	159.3
MLIRTK710X280N	710x280	710	280	1140	165.1
MLIRTK710X315N	710x315	710	315	1180	174.2
MLIRTK710X355N	710x355	710	355	1225	183.5
MLIRTK710X400N	710x400	710	400	1270	193.4
MLIRTK710X450N	710x450	710	450	1315	204
MLIRTK710X500N	710x500	710	500	1370	220.5
MLIRTK710X560N	710x560	710	560	1430	237.2

● Gas 10 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# 45° ANGLE BRANCH TEE

## LONG SPIGOT

Ø 63-250mm

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Injection moulded:** 45° Outlet design helps to reduce friction, improve flow or to allow a change in direction for a branch connection

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Fusamatic branded (unless stated)

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100



1354/02-001



45° ANGLE BRANCH TEE / LONG SPIGOT / Ø 63-250mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
ABTHK63X45V	63x45°	63	254	63	164	0.37
ABTHK75X45V	75x45°	75	284	70	185	0.54
ABTHK90X45V	90x45°	90	321	79	213	0.83
ABTHK110X45V	110x45°	110	376	82	251	1.45
ABTHK125X45V	125x45°	125	412	87	277	2.13
ABTHK140X45V ◊	140x45°	140	500	100	-	4.17
ABTHK160X45V	160x45°	160	531	98	356	4.56
ABTHK180X45V	180x45°	180	578	105	394	6.39
ABTHK200X45V	200x45°	200	630	112	430	8.35
ABTHK225X45V	225x45°	225	692	120	475	11.86
ABTHK250X45V	250x45°	250	729	129	507	15.48

◊ Non Fusamatic branded.

SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100



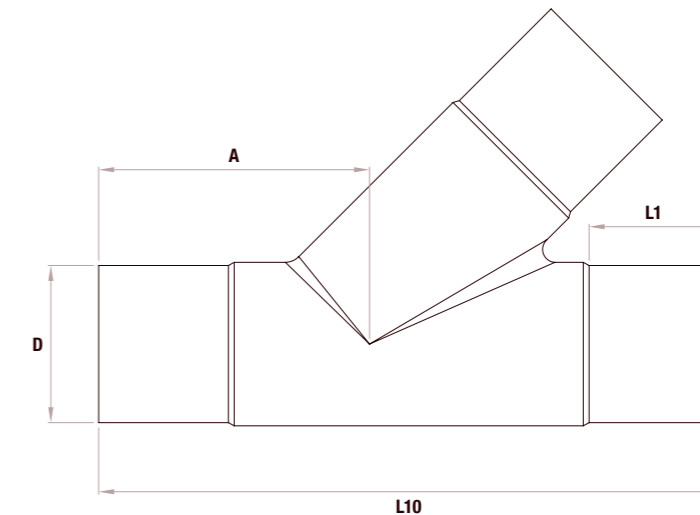
1354/00-001



45° ANGLE BRANCH TEE / LONG SPIGOT / Ø 63-250mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
ABTHK63X45N	63x45°	63	254	63	164	0.5
ABTHK75X45N	75x45°	75	284	70	185	0.7
ABTHK90X45N	90x45°	90	321	79	213	1.1
ABTHK110X45N	110x45°	110	376	82	251	2.0
ABTHK125X45N	125x45°	125	412	87	277	2.9
ABTHK140X45N ◊	140x45°	140	500	100	-	4.9
ABTHK160X45N	160x45°	160	531	98	356	6.2
ABTHK180X45N	180x45°	180	578	105	394	8.6
ABTHK200X45N	200x45°	200	630	112	430	11
ABTHK225X45N	225x45°	225	692	120	475	16
ABTHK250X45N	250x45°	250	729	129	507	20

◊ Non Fusamatic branded.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# Y PIECE

## LONG SPIGOT

Ø Ø 25-40mm OUTLET  
Ø 32-50mm BODY

SDR RANGE 11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100

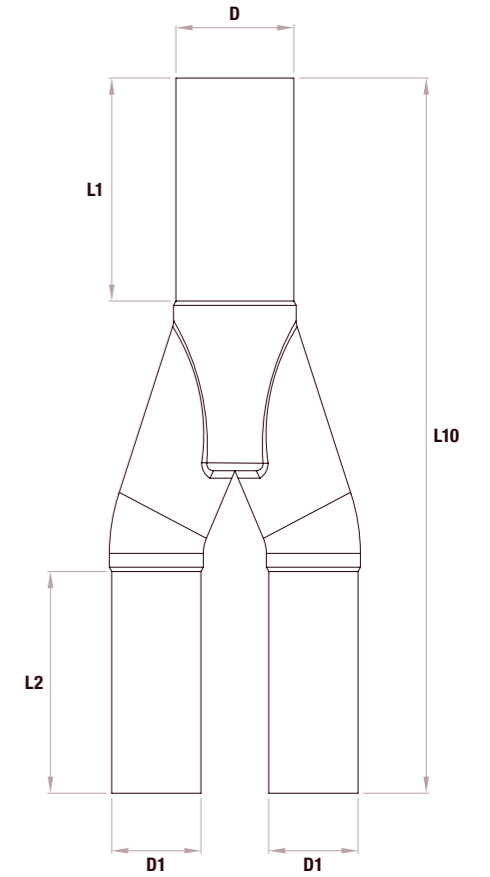


1254/38-001



Y PIECE / LONG SPIGOT / Ø Ø 25-40mm OUTLET / Ø 32-50mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
YPHK32X25N	32x25	32	25	156	44	41	0.07
YPHK40X32N	40x32	40	32	165	50	44	0.11
YPHK50X40N	50x40	50	40	186	55	50	0.18



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Injection moulded:** Y branch to support situation where a transition is needed from one pipe channel into two pipe channels

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# CROSS PIECE

## LONG SPIGOT

Ø 125mm

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Water
 ● Wastewater
 ● Irrigation
 ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Cross piece:** Enabling the branching of pipe networks in multiple directions

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
PE100



1254/06-001



CROSS PIECE / LONG SPIGOT / Ø 125mm

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
LSCRHK125X125V	125x125	125	350	89	-

SDR 11  
WATER PN 16  
PE100

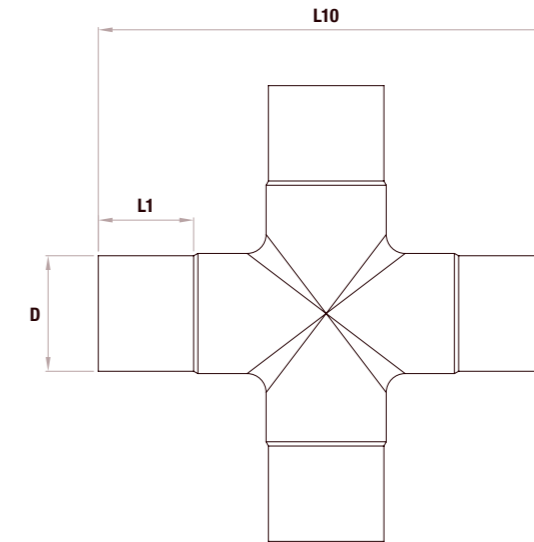


1254/04-001



CROSS PIECE / LONG SPIGOT / Ø 125mm

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
LSCRHK125X125N	125x125	125	350	89	-



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# REDUCED CROSS PIECE

## LONG SPIGOT

Ø 90mm OUTLET  
Ø 125mm BODY

SDR 11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



SDR 11  
WATER PN 16  
PE100

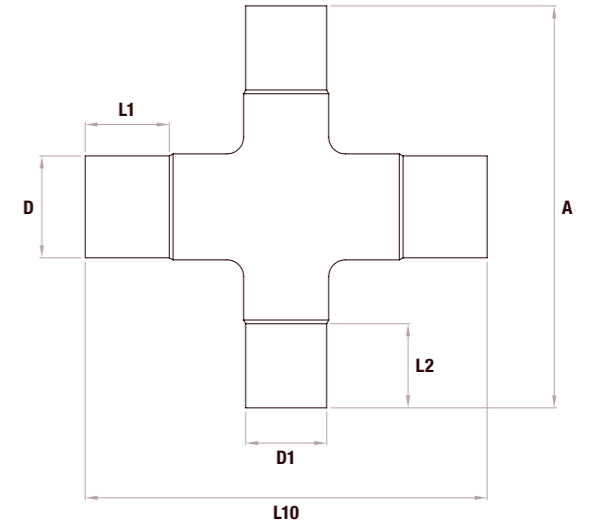


1254/24-001



REDUCED CROSS PIECE / LONG SPIGOT / Ø 90mm OUTLET / Ø 125mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	A mm	Theoretical weight/kg
LSCRHK125X90N	125x90	125	90	351	92	83	343	2.14



### Applications

Water
  Wastewater
  Irrigation
  Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Cross piece:** Enabling the branching of pipe networks in multiple directions

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# CONCENTRIC REDUCER

## LONG SPIGOT

Ø 20 - 900mm OUTLET  
Ø 25 - 1000mm BODY

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

#### SDR 17/11

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

#### SDR 9/7.4

EN 12201-3  
Water only

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 17 WATER PN 10 GAS 6 BAR PE100



### CONCENTRIC REDUCER / LONG SPIGOT / Ø 32 - 900mm OUTLET / Ø 63 - 1000mm BODY

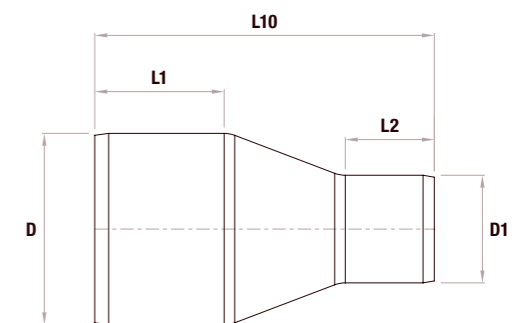
Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK63X32V	Ø 63x32	63	32	142	63	46	0.08
SPRHK63X50V	Ø 63x50	63	50	152	64	58	0.1
SPRHK75X40V	Ø 75x40	75	40	143	72	49	0.11
SPRHK75X50V	Ø 75x50	75	50	145	73	57	0.12
SPRHK75X63V	75x63	75	63	175	70	63	0.19
SPRHK90X50V	Ø 90x50	90	50	138	82	55	0.19
SPRHK90X63V	90x63	90	63	196	79	63	0.26
SPRHK90X75V	90x75	90	75	200	79	70	0.3
SPRHK110X50V	Ø 110x50	110	50	176	88	57	0.3
SPRHK110X63V	110x63	110	63	214	82	63	0.39
SPRHK110X75V	110x75	110	75	216	82	70	0.41
SPRHK110X90V	110x90	110	90	213	82	79	0.46
SPRHK125X63V	125x63	125	63	195	87	63	0.46
SPRHK125X75V	125x75	125	75	215	87	70	0.52
SPRHK125X90V	125x90	125	90	222	87	79	0.58
SPRHK125X110V	125x110	125	110	222	87	82	0.63
SPRHK140X75V	140x75	140	75	225	92	70	0.67
SPRHK140X90V	140x90	140	90	225	92	79	0.67
SPRHK140X110V	140x110	140	110	233	92	82	0.78
SPRHK140X125V	140x125	140	125	225	92	87	0.79
SPRHK160X90V	160x90	160	90	245	98	79	0.94
SPRHK160X110V	160x110	160	110	250	98	82	0.97
SPRHK160X125V	160x125	160	125	250	98	87	1.08
SPRHK160X140V	160x140	160	140	245	98	92	1.09
SPRHK180X63V	Ø 180x63	180	63	226	107	68	0.96
SPRHK180X90V	Ø 180x90	180	90	244	105	80	1.04
SPRHK180X110V	180x110	180	110	255	105	82	1.25
SPRHK180X125V	180x125	180	125	255	105	87	1.32
SPRHK180X140V	180x140	180	140	250	105	92	1.37
SPRHK180X160V	180x160	180	160	255	105	98	1.49
SPRHK200X90V	Ø 200x90	200	90	253	116	83	1.3
SPRHK200X110V	200x110	200	110	275	112	82	1.71
SPRHK200X125V	Ø 200x125	200	125	281	124	110	1.97
SPRHK200X140V	200x140	200	140	275	112	92	1.76
SPRHK200X160V	200x160	200	160	270	112	98	1.86
SPRHK200X180V	200x180	200	180	275	112	105	2.02
SPRHK225X110V	225x110	225	110	295	120	82	2.32
SPRHK225X160V	225x160	225	160	280	120	98	2.33
SPRHK225X180V	225x180	225	180	280	120	105	2.44
SPRHK225X200V	225x200	225	200	300	120	112	2.75
SPRHK250X160V	250x160	250	160	294	129	98	2.82
SPRHK250X180V	250x180	250	180	305	129	105	3.25
SPRHK250X200V	250x200	250	200	310	129	112	3.45
SPRHK250X225V	250x225	250	225	305	129	120	3.56
SPRHK280X180V	280x180	280	180	348	139	105	4.19
SPRHK280X200V	280x200	280	200	348	139	112	4.44
SPRHK280X225V	280x225	280	225	336	139	120	4.56
SPRHK280X250V	280x250	280	250	348	139	129	4.94
SPRHK315X200V	Ø 315x200	315	200	330	160	120	4.5
SPRHK315X225V	315x225	315	225	375	150	120	6.13
SPRHK315X250V	315x250	315	250	375	150	129	6.43

1352/26-001



Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK315X280V	315x280	315	280	355	150	139	6.35
SPRHK355X250V	Ø 355x250	355	250	426	175	145	9.6
SPRHK355X280V	Ø 355x280	355	280	426	170	155	10
SPRHK355X315V	Ø 355x315	355	315	426	175	170	11
SPRHK400X225V	Ø 400x225	400	225	365	179	130	7.9
SPRHK400X250V	Ø 400x250	400	250	358	179	130	8
SPRHK400X280V	Ø 400x280	400	280	465	190	155	13
SPRHK400X315V	400x315	400	315	430	179	150	11.5
SPRHK400X355V	Ø 400x355	400	355	463	190	185	15
SPRHK450X280V	Ø 450x280	450	280	401	195	150	11.2
SPRHK450X315V	450x315	450	315	401	195	160	11.5
SPRHK450X355V	450x355	450	355	392	195	164	11.9
SPRHK450X400V	450x400	450	400	394	195	179	12.6
SPRHK500X315V	Ø 500x315	500	315	432	212	160	15
SPRHK500X355V	Ø 500x355	500	355	425	212	164	15.3
SPRHK500X400V	Ø 500x400	500	400	426	212	179	16
SPRHK500X450V	Ø 500x450	500	450	427	212	195	17
SPRHK560X355V	Ø 560x355	560	355	465	235	164	20.7
SPRHK560X400V	Ø 560x400	560	400	467	235	179	21.3
SPRHK560X450V	Ø 560x450	560	450	469	235	195	22.2
SPRHK560X500V	Ø 560x500	560	500	471	235	212	23.4
SPRHK630X400V	Ø 630x400	630	400	507	256	179	28.5
SPRHK630X450V	Ø 630x450	630	450	509	256	195	29.4
SPRHK630X500V	Ø 630x500	630	500	511	256	212	30.5
SPRHK630X560V	Ø 630x560	630	560	517	256	235	32.5
SPRHK710X500V	Ø 710x500	710	500	890	350	350	61.8
SPRHK710X560V	Ø 710x560	710	560	870	350	350	64.1
SPRHK710X630V	Ø 710x630	710	630	840	350	350	66.3
SPRHK800X560V	Ø 800x560	800	560	900	350	350	79.6
SPRHK800X630V	Ø 800x630	800	630	880	350	350	82.5
SPRHK800X710V	Ø 800x710	800	710	850	350	350	85.4
SPRHK900X630V	Ø 900x630	900	630	970	400	350	110.8
SPRHK900X710V	Ø 900x710	900	710	940	400	350	113.1
SPRHK900X800V	Ø 900x800	900	800	910	400	350	116.7
SPRHK1000X710V	Ø 1000x710	1000	710	970	400	350	138.4
SPRHK1000X800V	Ø 1000x800	1000	800	940	400	350	141.2
SPRHK1000X900V	Ø 1000x900	1000	900	900	400	350	143.7

Ø Non Fusamatic branded.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.

# SDR 11 WATER PN 16 GAS 10 BAR PE100



## 1352/24-001

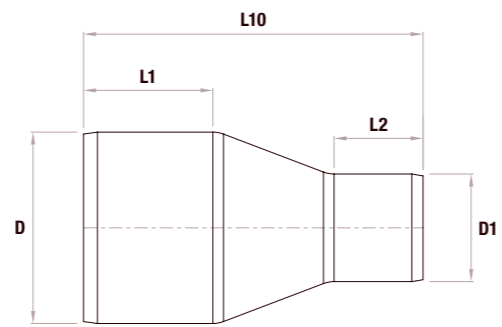


CONCENTRIC REDUCER / LONG SPIGOT / Ø 20 - 560mm OUTLET / Ø 25 - 630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK25X20N	Ø 25x20	25	20	120	41	41	0.03
SPRHK32X20N	Ø 32x20	32	20	115	44	41	0.03
SPRHK32X25N	Ø 32x25	32	25	130	44	41	0.03
SPRHK40X20N	Ø 40x20	40	20	94	45	36	0.03
SPRHK40X25N	Ø 40x25	40	25	130	49	41	0.04
SPRHK40X32N	Ø 40x32	40	32	130	49	44	0.05
SPRHK50X25N	50x25	50	25	140	55	41	0.07
SPRHK50X32N	50x32	50	32	140	55	44	0.07
SPRHK50X40N	50x40	50	40	140	55	49	0.08
SPRHK63X25N	63x25	63	25	143	63	41	0.11
SPRHK63X32N	63x32	63	32	150	63	44	0.11
SPRHK63X40N	63x40	63	40	150	63	49	0.12
SPRHK63X50N	63x50	63	50	150	63	55	0.14
SPRHK75X32N	75x32	75	32	170	70	44	0.17
SPRHK75X40N	75x40	75	40	170	70	49	0.17
SPRHK75X50N	75x50	75	50	175	70	55	0.19
SPRHK75X63N	75x63	75	63	175	70	63	0.21
SPRHK90X50N	90x50	90	50	190	79	55	0.3
SPRHK90X63N	90x63	90	63	196	79	63	0.33
SPRHK90X75N	90x75	90	75	200	79	70	0.39
SPRHK110X50N	110x50	110	50	176	88	57	0.46
SPRHK110X63N	110x63	110	63	214	82	63	0.5
SPRHK110X75N	110x75	110	75	216	82	70	0.54
SPRHK110X90N	110x90	110	90	213	82	79	0.6
SPRHK125X63N	125x63	125	63	195	87	63	0.62
SPRHK125X75N	125x75	125	75	215	87	70	0.65
SPRHK125X90N	125x90	125	90	222	87	79	0.74
SPRHK125X110N	125x110	125	110	222	87	82	0.86
SPRHK140X75N	140x75	140	75	225	92	70	0.85
SPRHK140X90N	140x90	140	90	225	92	79	0.84
SPRHK140X110N	140x110	140	110	233	92	82	1.02
SPRHK140X125N	140x125	140	125	225	92	87	1.12
SPRHK160X90N	160x90	160	90	245	98	79	1.24
SPRHK160X110N	160x110	160	110	250	98	82	1.31
SPRHK160X125N	160x125	160	125	250	98	87	1.46
SPRHK160X140N	160x140	160	140	245	98	92	1.45
SPRHK180X63N	Ø 180x63	180	63	226	107	68	1.31
SPRHK180X90N	Ø 180x90	180	90	245	106	79	1.5
SPRHK180X110N	180x110	180	110	255	105	82	1.62
SPRHK180X125N	180x125	180	125	255	105	87	1.67
SPRHK180X140N	180x140	180	140	250	105	92	1.82
SPRHK180X160N	180x160	180	160	255	105	98	2.08
SPRHK200X90N	Ø 200x90	200	90	253	116	83	1.87
SPRHK200X110N	200x110	200	110	275	112	82	2.16
SPRHK200X140N	200x140	200	140	275	112	92	2.36
SPRHK200X160N	200x160	200	160	270	112	98	2.38
SPRHK200X180N	200x180	200	180	275	112	105	2.7
SPRHK225X110N	225x110	225	110	295	120	82	2.86
SPRHK225X160N	225x160	225	160	280	120	98	3.06
SPRHK225X180N	225x180	225	180	280	120	105	3.45
SPRHK225X200N	225x200	225	200	300	120	112	3.78
SPRHK250X160N	250x160	250	160	294	129	98	3.6
SPRHK250X180N	250x180	250	180	305	129	105	4.24

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK250X200N	250x200	250	200	310	129	112	4.43
SPRHK250X225N	250x225	250	225	305	129	120	4.75
SPRHK280X180N	280x180	280	180	348	139	105	5.34
SPRHK280X200N	280x200	280	200	348	139	112	5.54
SPRHK280X225N	280x225	280	225	336	139	120	6
SPRHK280X250N	280x250	280	250	348	139	129	6.97
SPRHK315X200N	Ø 315x200	315	200	330	160	120	6.5
SPRHK315X225N	315x225	315	225	375	150	120	7.75
SPRHK315X250N	315x250	315	250	375	150	129	8.3
SPRHK315X280N	315x280	315	280	355	150	139	8.4
SPRHK355X225N	Ø 355x225	355	225	337	164	130	8.4
SPRHK355X250N	Ø 355x250	355	250	426	175	145	11
SPRHK355X280N	Ø 355x280	355	280	426	170	155	12
SPRHK355X315N	Ø 355x315	355	315	426	175	170	13
SPRHK400X225N	Ø 400x225	400	225	365	179	130	11.5
SPRHK400X250N	Ø 400x250	400	250	358	179	130	11.7
SPRHK400X280N	Ø 400x280	400	280	465	190	155	15
SPRHK400X315N	400x315	400	315	430	179	150	15.6
SPRHK400X355N	Ø 400x355	400	355	463	190	185	17
SPRHK450X280N	Ø 450x280	450	280	401	195	150	16.3
SPRHK450X315N	Ø 450x315	450	315	401	195	160	16.9
SPRHK450X355N	Ø 450x355	450	355	392	195	164	17.4
SPRHK450X400N	Ø 450x400	450	400	394	195	179	18.6
SPRHK500X315N	Ø 500x315	500	315	432	212	160	21.9
SPRHK500X355N	Ø 500x355	500	355	425	212	164	22.4
SPRHK500X400N	Ø 500x400	500	400	426	212	179	23.5
SPRHK500X450N	Ø 500x450	500	450	427	212	195	25.1
SPRHK560X355N	Ø 560x355	560	355	465	235	164	30.1
SPRHK560X400N	Ø 560x400	560	400	467	235	179	31.1
SPRHK560X450N	Ø 560x450	560	450	469	235	195	32.6
SPRHK560X500N	Ø 560x500	560	500	471	235	212	34.5
SPRHK630X400N	Ø 630x400	630	400	507	256	179	41.7
SPRHK630X450N	Ø 630x450	630	450	509	256	195	43
SPRHK630X500N	Ø 630x500	630	500	511	256	212	44.7
SPRHK630X560N	Ø 630x560	630	560	517	256	235	47.7

Ø Non Fusumatic branded.



# SDR 9 WATER PN 20 PE100

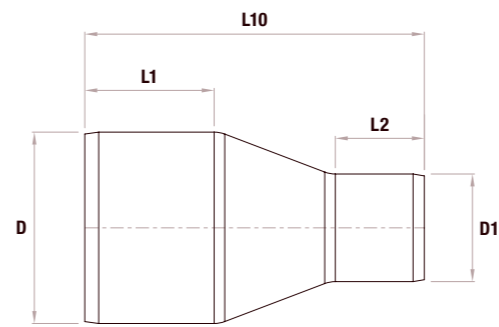


## 1252/30-001



CONCENTRIC REDUCER / LONG SPIGOT / Ø 50 - 200mm OUTLET / Ø 110 - 225mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK110X50R	110x50	110	50	176	88	57	0.46
SPRHK110X63R	110x63	110	63	178	89	67	0.49
SPRHK110X75R	110x75	110	75	178	88	73	0.53
SPRHK110X90R	110x90	110	90	186	88	82	0.58
SPRHK125X63R	125x63	125	63	181	90	66	0.65
SPRHK125X75R	125x75	125	75	187	91	73	0.68
SPRHK125X90R	125x90	125	90	189	91	81	0.72
SPRHK125X110R	125x110	125	110	191	90	90	0.8
SPRHK140X90R	140x90	140	90	204	95	81	0.92
SPRHK140X110R	140x110	140	110	203	95	91	1
SPRHK140X125R	140x125	140	125	198	96	93	1.07
SPRHK160X90R	160x90	160	90	226	106	83	1.27
SPRHK160X110R	160x110	160	110	226	106	92	1.36
SPRHK160X125R	160x125	160	125	216	105	93	1.39
SPRHK160X140R	160x140	160	140	204	100	93	1.48
SPRHK180X125R	180x125	180	125	240	110	90	1.75
SPRHK180X140R	180x140	180	140	218	106	94	1.78
SPRHK180X160R	180x160	180	160	220	105	105	1.93
SPRHK200X140R	200x140	200	140	234	111	95	2.24
SPRHK200X160R	200x160	200	160	241	117	95	2.47
SPRHK200X180R	200x180	200	180	234	114	106	2.58
SPRHK225X160R	225x160	225	160	258	115	104	3.13
SPRHK225X180R	225x180	225	180	271	122	118	3.5
SPRHK225X200R	225x200	225	200	257	118	116	3.56



# SDR 7.4 WATER PN 25 PE100



## 1252/28-001



CONCENTRIC REDUCER / LONG SPIGOT / Ø 25 - 200mm OUTLET / Ø 40 - 225mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPRHK40X25T	40x25	40	25	102	50	44	0.06
SPRHK40X32T	40x32	40	32	102	50	44	0.06
SPRHK50X25T	50x25	50	25	114	56	44	0.08
SPRHK50X32T	50x32	50	32	115	56	48	0.08
SPRHK50X40T	50x40	50	40	110	54	50	0.09
SPRHK63X25T	63x25	63	25	127	64	44	0.13
SPRHK63X32T	63x32	63	32	127	66	49	0.14
SPRHK63X40T	63x40	63	40	128	65	52	0.14
SPRHK63X50T	63x50	63	50	136	66	57	0.17
SPRHK75X32T	75x32	75	32	142	73	46	0.21
SPRHK75X40T	75x40	75	40	143	72	49	0.22
SPRHK75X50T	75x50	75	50	145	73	57	0.23
SPRHK75X63T	75x63	75	63	141	73	65	0.27
SPRHK90X50T	90x50	90	50	138	82	55	0.36
SPRHK90X63T	90x63	90	63	163	82	66	0.39
SPRHK90X75T	90x75	90	75	167	83	73	0.44
SPRHK110X50T	110x50	110	50	176	88	57	0.57
SPRHK110X63T	110x63	110	63	178	89	67	0.75
SPRHK110X75T	110x75	110	75	178	88	73	0.65
SPRHK110X90T	110x90	110	90	186	88	82	0.71
SPRHK125X63T	125x63	125	63	181	90	66	0.79
SPRHK125X75T	125x75	125	75	187	91	73	0.82
SPRHK125X90T	125x90	125	90	189	91	81	0.9
SPRHK125X110T	125x110	125	110	191	90	90	1
SPRHK140X90T	140x90	140	90	204	95	81	1.15
SPRHK140X110T	140x110	140	110	203	95	91	

# CONCENTRIC REDUCER

## SHORT SPIGOT

Ø 20-1000mm OUTLET  
Ø 25-1200mm BODY

SDR RANGE 33/26/17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100



## 1252/18-001



CONCENTRIC REDUCER / SHORT / Ø 140-1000mm OUTLET / Ø 200-1200mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK200X140Y	200x140	200	140	154	50	35	0.28
SSRHK200X160Y	200x160	200	160	151	50	40	0.28
SSRHK200X180Y	200x180	200	180	151	50	45	0.3
SSRHK225X140Y	225x140	225	140	160	60	50	0.38
SSRHK225X160Y	225x160	225	160	171	55	40	0.35
SSRHK225X180Y	225x180	225	180	171	55	45	0.33
SSRHK225X200Y	225x200	225	200	171	55	50	0.35
SSRHK250X160Y	250x160	250	160	180	75	63	0.9
SSRHK250X180Y	250x180	250	180	180	75	66	0.9
SSRHK250X200Y	250x200	250	200	180	75	72	0.9
SSRHK280X180Y	280x180	280	180	200	85	70	1.2
SSRHK280X200Y	280x200	280	200	200	85	72	1.3
SSRHK280X225Y	280x225	280	225	200	85	80	1.3
SSRHK280X250Y	280x250	280	250	200	85	90	1.4
SSRHK315X200Y	315x200	315	200	231	95	85	1.7
SSRHK315X225Y	315x225	315	225	231	95	88	1.8
SSRHK315X250Y	315x250	315	250	231	95	95	1.9
SSRHK315X280Y	315x280	315	280	231	95	107	2
SSRHK355X225Y	355x225	355	225	140	57	40	1.5
SSRHK355X250Y	355x250	355	250	130	54	40	1.4
SSRHK355X280Y	355x280	355	280	120	53	40	1.4
SSRHK355X315Y	355x315	355	315	110	53	40	1.3
SSRHK400X225Y	400x225	400	225	160	64	40	2.2
SSRHK400X250Y	400x250	400	250	150	61	40	2.1
SSRHK400X280Y	400x280	400	280	140	60	40	2
SSRHK400X315Y	400x315	400	315	120	50	40	1.8
SSRHK400X355Y	400x355	400	355	110	51	40	1.6
SSRHK450X280Y	450x280	450	280	160	65	40	2.9
SSRHK450X315Y	450x315	450	315	140	55	40	2.6
SSRHK450X355Y	450x355	450	355	130	57	40	2.4
SSRHK450X400Y	450x400	450	400	120	60	40	2.3
SSRHK500X315Y	500x315	500	315	170	71	40	3.9
SSRHK500X355Y	500x355	500	355	150	62	40	3.5
SSRHK500X400Y	500x400	500	400	140	65	40	3.3
SSRHK500X450Y	500x450	500	450	120	60	40	2.8
SSRHK560X355Y	560x355	560	355	170	65	40	4.9
SSRHK560X400Y	560x400	560	400	160	68	40	4.7
SSRHK560X450Y	560x450	560	450	140	62	40	4.2
SSRHK560X500Y	560x500	560	500	130	67	40	3.9
SSRHK630X400Y	630x400	630	400	190	78	40	7.1
SSRHK630X450Y	630x450	630	450	170	72	40	6.4
SSRHK630X500Y	630x500	630	500	150	67	40	5.7
SSRHK630X560Y	630x560	630	560	130	64	40	4.9
SSRHK710X500Y	710x500	710	500	190	84	40	9.2
SSRHK710X560Y	710x560	710	560	170	81	40	8.3
SSRHK710X630Y	710x630	710	630	140	71	40	6.8
SSRHK800X560Y	800x560	800	560	200	85	40	12.5
SSRHK800X630Y	800x630	800	630	180	85	40	11.3
SSRHK900X630Y	900x630	900	630	220	96	40	17.6
SSRHK900X710Y	900x710	900	710	190	89	40	15.3
SSRHK900X800Y	900x800	900	800	160	85	40	12.7
SSRHK1000X710Y	1000x710	1000	710	220	91	40	22.1
SSRHK1000X800Y	1000x800	1000	800	190	86	40	19.1
SSRHK1000X900Y	1000x900	1000	900	150	75	40	14.7
SSRK1200X1000Y	1200x1000	1200	1000	190	92	40	28.4

## SDR 26 WATER PN 6 PE100

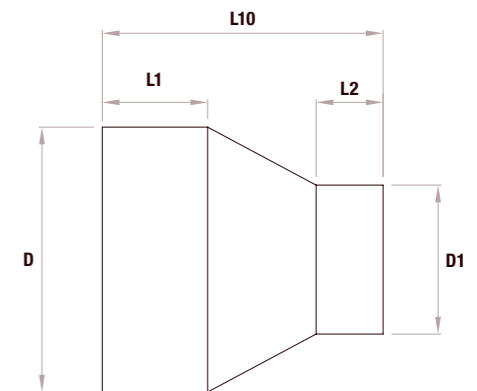


## 1252/16-001



CONCENTRIC REDUCER / SHORT / Ø 160-1000mm OUTLET / Ø 250-1200mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK250X160W	250X160	250	160	157	55	55	1
SSRHK250X180W	250X180	250	180	150	62	50	1
SSRHK250X200W	250X200	250	200	138	60	50	1
SSRHK250X225W	250X225	250	225	142	50	68	1
SSRHK280X200W	280X200	280	200	160	72	51	1.49
SSRHK280X250W	280X250	280	250	150	71	64	1.33
SSRHK315X225W	315X225	315	225	184	82	57	2.12
SSRHK315X250W	315X250	315	250	178	81	62	1.97
SSRHK315X280W	315X280	315	280	175	79	72	1.86
SSRHK355X225W	355X225	355	225	213	92	57	2.65
SSRHK355X250W	355X250	355	250	195	87	62	2.53
SSRHK355X280W	355X280	355	280	200	87	77	3.1
SSRHK355X315W	355X315	355	315	188	88	78	3
SSRHK400X280W	400X280	400	280	226	96	73	4.34
SSRHK400X315W	400X315	400	315	218	97	83	4.3
SSRHK400X355W	400X355	400	355	208	97	92	4.1
SSRHK450X315W	450X315	450	315	206	64	76	4.6
SSRHK450X355W	450X355	450	355	203	64	92	4.6
SSRHK450X400W	450X400	450	400	188	64	99	4.6
SSRHK500X355W	500X355	500	355	210	62	81	5.9
SSRHK500X400W	500X400	500	400	210	63	96	6.3
SSRHK500X450W	500X450	500	450	166	63	63	6
SSRHK560X400W	560X400	560	400	240	60	98	8.4
SSRHK560X450W	560X450	560	450	187	60	65	7.6
SSRHK560X500W	560X500	560	500	192	62	61	6.9
SSRHK630X450W	630X450	630	450	234	60	68	10.6
SSRHK630X500W	630X500	630	500	192	62	61	11.42
SSRHK630X560W	630X560	630	560	188	64	65	9.9
SSRHK710X560W	710X560	710	560	160	66	40	13.8
SSRHK710X630W	710X630	710	630	160	66	62	12.1
SSRHK800X710W	800X710	800	710	160	62	62	14.3
SSRHK900X800W	900X800	900	800	160	62	62	18.6
SSRHK1000X900W	1000X900	1000	900	170	65	56	22
SSRK1200X1000W	1200X1000	1200	1000	165	58	45	32.7



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued

# SDR 17 WATER PN 10 PE100



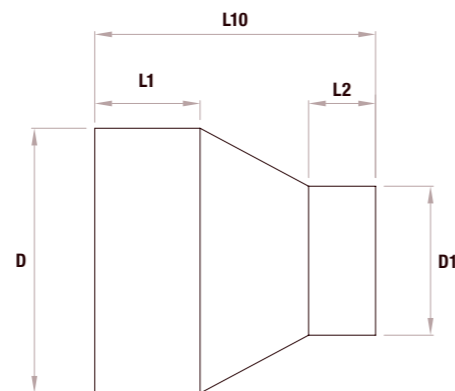
# 1252/14-001



CONCENTRIC REDUCER / SHORT / Ø 32-1000mm OUTLET / Ø 63-1200mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK63X32V	63x32	63	32	63	23	22	0.05
SSRHK63X50V	63x50	63	50	87	29	27	0.06
SSRHK75X50V	75x50	75	50	71	28	23	0.1
SSRHK75X63V	75x63	75	63	70	29	31	0.1
SSRHK90X50V	90x50	90	50	71	26	22	0.1
SSRHK90X63V	90x63	90	63	71	29	24	0.1
SSRHK90X75V	90x75	90	75	80	33	33	0.1
SSRHK110X50V	110x50	110	50	90	33	29	0.2
SSRHK110X63V	110x63	110	63	91	42	23	0.2
SSRHK110X75V	110x75	110	75	90	34	35	0.2
SSRHK110X90V	110x90	110	90	88	40	28	0.2
SSRHK125X63V	125x63	125	63	100	40	34	0.2
SSRHK125X75V	125x75	125	75	103	48	31	0.3
SSRHK125X90V	125x90	125	90	100	38	30	0.3
SSRHK125X110V	125x110	125	110	100	40	40	0.28
SSRHK140X75V	140x75	140	75	110	49	37	0.3
SSRHK140X90V	140x90	140	90	126	45	28	0.3
SSRHK140X110V	140x110	140	110	126	45	34	0.3
SSRHK140X125V	140x125	140	125	128	45	42	0.4
SSRHK160X90V	160x90	160	90	120	53	37	0.5
SSRHK160X110V	160x110	160	110	125	50	39	0.5
SSRHK160X125V	160x125	160	125	120	54	45	0.5
SSRHK160X140V	160x140	160	140	98	44	43	0.6
SSRHK180X90V	180x90	180	90	130	59	37	0.7
SSRHK180X110V	180x110	180	110	130	60	40	0.8
SSRHK180X125V	180x125	180	125	143	52	40	0.71
SSRHK180X140V	180x140	180	140	135	51	47	0.67
SSRHK180X160V	180x160	180	160	140	60	50	0.75
SSRHK200X140V	200x140	200	140	140	60	48	0.9
SSRHK200X160V	200x160	200	160	140	60	54	1
SSRHK200X180V	200x180	200	180	145	62	54	0.97
SSRHK225X140V	225x140	225	140	160	65	57	1.8
SSRHK225X160V	225x160	225	160	190	65	50	1.4
SSRHK225X180V	225x180	225	180	190	65	55	1.3
SSRHK225X200V	225x200	225	200	149	62	52	1.21
SSRHK250X160V	250x160	250	160	157	55	55	1.45
SSRHK250X180V	250x180	250	180	150	62	50	1.95
SSRHK250X200V	250x200	250	200	138	60	50	1.68
SSRHK250X225V	250x225	250	225	142	50	68	1.66
SSRHK280X180V	280x180	280	180	200	85	70	2.2
SSRHK280X200V	280x200	280	200	160	72	51	1.94
SSRHK280X225V	280x225	280	225	154	72	57	1.95
SSRHK280X250V	280x250	280	250	150	71	64	2
SSRHK315X200V	315x200	315	200	231	95	85	3.1
SSRHK315X225V	315x225	315	225	184	82	57	2.85
SSRHK315X250V	315x250	315	250	178	81	62	4.06
SSRHK315X280V	315x280	315	280	175	79	72	2.84
SSRHK355X225V	355x225	355	225	213	92	57	3.73
SSRHK355X250V	355x250	355	250	195	87	62	3.85
SSRHK355X280V	355x280	355	280	200	87	77	3.96
SSRHK355X315V	355x315	355	315	188	88	78	3.99
SSRHK400X225V	400x225	400	225	160	64	40	3.9
SSRHK400X250V	400x250	400	250	150	61	40	3.8

● Gas 6 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# SDR 11 WATER PN 16 PE100



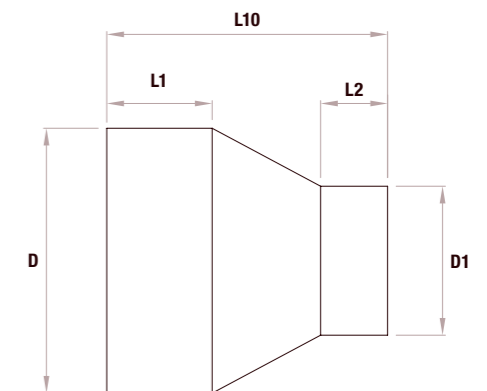
# 1252/12-001



CONCENTRIC REDUCER / SHORT / Ø 20-900mm OUTLET / Ø 25-1000mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK25X20N	25x20	25	20	68	20	20	0.004
SSRHK32X20N	32x20	32	20	68	23	23	0.01
SSRHK32X25N	32x25	32	25	38	16	14	0.05
SSRHK40X20N	40x20	40	20	50	18	13	0.01
SSRHK40X25N	40x25	40	25	47	19	14	0.05
SSRHK40X32N	40x32	40	32	39	19	15	0.05
SSRHK50X25N	50x25	50	25	53	19	17	0.08
SSRHK50X32N	50x32	50	32	44	18	14	0.05
SSRHK50X40N	50x40	50	40	46	20	19	0.05
SSRHK63X32N	63X32	63	32	63	23	22	0.1
SSRHK63X40N	63X40	63	40	58	24	18	0.1
SSRHK63X50N	63X50	63	50	54	25	20	0.1
SSRHK75X32N	75x32	75	32	70	25	10	0.07
SSRHK75X40N	75x40	75	40	70	29	22	0.1
SSRHK75X50N	75x50	75	50	71	28	23	0.1
SSRHK75X63N	75x63	75	63	70	29	31	0.1
SSRHK90X50N	90x50	90	50	73	26	22	0.1
SSRHK90X63N	90x63	90	63	71	29	24	0.1
SSRHK90X75N	90x75	90	75	80	33	33	0.16
SSRHK110X50N	110x50	110	50	90	40	29	0.2
SSRHK110X63N	110x63	110	63	105	40	36	0.25
SSRHK110X75N	110x75	110	75	90	34	35	0.3
SSRHK110X90N	110x90	110	90	104	40	41	0.29
SSRHK125X63N	125x63	125	63	100	40	34	0.3
SSRHK125X75N	125x75	125	75	98	32	19	0.31
SSRHK125X90N	125x90	125	90	110	42	41	0.37
SSRHK125X110N	125x110	125	110	100	40	48	0.4
SSRHK140X75N	140x75	140	75	110	49	37	0.5
SSRHK140X90N	140x90	140	90	126	45	28	0.4
SSRHK140X110N	140x110	140	110	126	45	34	0.5
SSRHK140X125N	140x125	140	125	128	45	42	0.6
SSRHK160X90N	160x90	160	90	120	53	37	0.7
SSRHK160X110N	160x110	160	110	125	50	39	0.7
SSRHK160X125N	160x125	160	125	120	54	45	0.7
SSRHK160X140N	160x140	160	140	98	44	43	0.8
SSRHK180X90N	180x90	180	90	130	59	37	1
SSRHK180X110N	180x110	180	110	130	60	40	1
SSRHK180X125N	180x125	180	125	152	62	42	1.1
SSRHK180X140N	180x140	180	140	135	51	47	1.02
SSRHK180X160N	180x160	180	160	131	60	55	1.2
SSRHK200X140N	200x140	200	140	140	60	48	1.3
SSRHK200X160N	200x160	200	160	140	60	54	1.5
SSRHK200X180N	200x180	200	180	140	60	61	1.4
SSRHK225X140N	225x140	225	140	160	65	57	1.8
SSRHK225X160N	225x160	225	160	190	65	50	2
SSRHK225X180N	225x180	225	180	190	65	55	2.1
SSRHK225X200N	225x200	225	200	160	71	71	1.9
SSRHK250X160N	250x160	250	160	157	55	55	2.12
SSRHK250X180N	250x180	250	180	150	62	50	2.36
SSRHK250X200N	250x200	250	200	138	60	50	2.28
SSRHK250X225N	250x225	250	225	142	50	68	2.17
SSRHK280X180N	280x180	280	180	200	85	70	3.2
SSRHK280X200N	280x200	280	200	160	72	51	2.83

● Gas 10 Bar upon request.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

**SDR 9  
WATER PN 20  
PE100**



**1252/22-001**



CONCENTRIC REDUCER / SHORT / Ø 160 - 500mm OUTLET / Ø 250 - 630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK250X160R	250x160	250	160	157	55	55	2.46
SSRHK250X180R	250x180	250	180	150	62	50	2.23
SSRHK250X200R	250x200	250	200	138	60	50	2.3
SSRHK250X225R	250x225	250	225	142	50	68	2.14
SSRHK280X200R	280x200	280	200	160	72	51	3.22
SSRHK280X225R	280x225	280	225	154	72	57	3.29
SSRHK280X250R	280x250	280	250	150	71	64	3.32
SSRHK315X225R	315x225	315	225	184	82	57	4.67
SSRHK315X250R	315x250	315	250	178	81	62	4.64
SSRHK315X280R	315x280	315	280	175	79	72	5.14
SSRHK355X250R	355x250	355	250	195	87	62	6
SSRHK355X280R	355x280	355	280	200	87	77	6.4
SSRHK355X315R	355x315	355	315	188	88	78	6.5
SSRHK400X280R	400x280	400	280	226	96	73	8.67
SSRHK400X315R	400x315	400	315	218	97	83	8.84
SSRHK400X355R	400x355	400	355	208	97	92	9.08
SSRHK450X315R	450x315	450	315	206	64	76	9.54
SSRHK450X355R	450x355	450	355	203	64	92	9.98
SSRHK450X400R	450x400	450	400	188	64	99	10.35
SSRHK500X355R	500x355	500	355	210	62	81	12.02
SSRHK500X450R	500x450	500	450	166	63	63	11.53
SSRHK560X400R	560x400	560	400	240	60	98	17.32
SSRHK630X500R	630x500	630	500	192	62	61	19.98

**SDR 7.4  
WATER PN 25  
PE100**

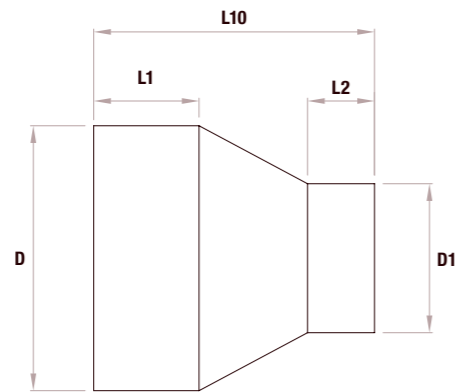


**1252/20-001**



CONCENTRIC REDUCER / SHORT / Ø 160 - 400mm OUTLET / Ø 250 - 560mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SSRHK250X160T	250x160	250	160	157	55	55	2.8
SSRHK250X180T	250x180	250	180	150	62	50	2.62
SSRHK250X200T	250x200	250	200	138	60	50	2.75
SSRHK250X225T	250x225	250	225	142	50	68	2.54
SSRHK280X200T	280x200	280	200	160	72	51	3.07
SSRHK280X225T	280x225	280	225	154	72	57	3.52
SSRHK280X250T	280x250	280	250	150	71	64	3.82
SSRHK315X225T	315x225	315	225	184	82	57	5.43
SSRHK315X250T	315x250	315	250	178	81	62	5.55
SSRHK315X280T	315x280	315	280	175	79	72	5.9
SSRHK355X250T	355x250	355	250	195	87	62	7.04
SSRHK355X280T	355x280	355	280	200	87	77	7.6
SSRHK355X315T	355x315	355	315	188	88	78	7.6
SSRHK400X280T	400x280	400	280	226	96	73	10.19
SSRHK400X315T	400x315	400	315	218	97	83	10.96
SSRHK400X355T	400x355	400	355	208	97	92	11.17
SSRHK450X315T	450x315	450	315	206	64	76	11.19
SSRHK450X355T	450x355	450	355	203	64	92	11.75
SSRHK450X400T	450x400	450	400	188	64	99	12.3
SSRHK500X450T	500x450	500	450	166	63	63	13.56
SSRHK560X400T	560x400	560	400	240	60	98	19



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# STEP REDUCER

## SHORT SPIGOT

Ø 160-450mm OUTLET  
Ø 225-630mm BODY

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

Water Wastewater Irrigation Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Stepped design:** Each diameter reduction can be removed enabling a butt fusion fabrication in a factory environment

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
PE100



1252/34-001



STEP REDUCER / SHORT SPIGOT / Ø 160-450mm OUTLET / Ø 225-630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	Theoretical weight/kg
SSSRHK225X160V	225x160	225	160	200	180	171	1.25
SSSRHK315X225V	315x225	315	225	280	250	171	2.51
SSSRHK450X315V	450x315	450	315	400	355	180	5.93
SSSRHK630X450V	630x450	630	450	560	500	208	13.9

SDR 11  
WATER PN 16  
PE100

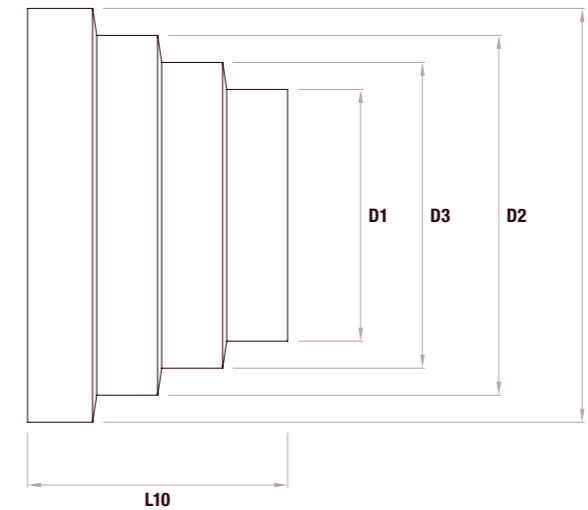


1252/32-001



STEP REDUCER / SHORT SPIGOT / Ø 160-450mm OUTLET / Ø 225-630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	Theoretical weight/kg
SSSRHK225X160N	225x160	225	160	200	180	171	1.73
SSSRHK315X225N	315x225	315	225	280	250	171	3.8
SSSRHK450X315N	450x315	450	315	400	355	176	8.52
SSSRHK630X450N	630x450	630	450	560	500	200	19.74



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# ECCENTRIC REDUCER

## LONG SPIGOT

Ø 90-1000mm OUTLET  
Ø 160-1200mm BODY

SDR RANGE 33/17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

Water Wastewater Irrigation Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Eccentric outlet:** Helps prevent build up of sediment

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100



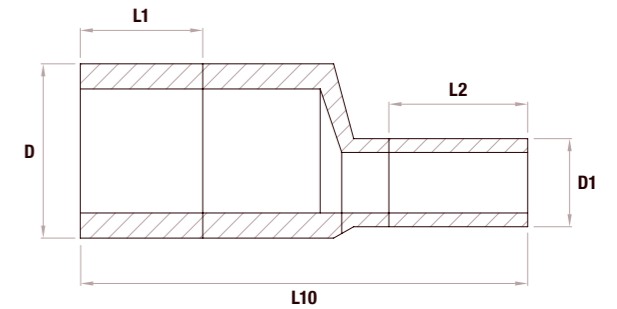
ECCENTRIC REDUCER / LONG / Ø 90-1000mm OUTLET / Ø 160-1200mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPREHK160X90Y	160x90	160	90	440	150	150	0.7
SPREHK160X110Y	160x110	160	110	420	150	150	0.8
SPREHK160X125Y	160x125	160	125	410	150	150	0.8
SPREHK160X140Y	160x140	160	140	400	150	150	0.9
SPREHK180X110Y	180x110	180	110	440	150	150	1
SPREHK180X125Y	180x125	180	125	430	150	150	1
SPREHK180X140Y	180x140	180	140	420	150	150	1
SPREHK180X160Y	180x160	180	160	400	150	150	1.1
SPREHK200X125Y	200x125	200	125	450	150	150	1.3
SPREHK200X140Y	200x140	200	140	430	150	150	1.3
SPREHK200X160Y	200x160	200	160	420	150	150	1.3
SPREHK200X180Y	200x180	200	180	400	150	150	1.4
SPREHK225X140Y	225x140	225	140	460	150	150	1.6
SPREHK225X160Y	225x160	225	160	440	150	150	1.6
SPREHK225X180Y	225x180	225	180	420	150	150	1.7
SPREHK225X200Y	225x200	225	200	410	150	150	1.8
SPREHK250X160Y	250x160	250	160	570	250	150	2.3
SPREHK250X180Y	250x180	250	180	550	250	150	2.4
SPREHK250X200Y	250x200	250	200	530	250	150	2.5
SPREHK250X225Y	250x225	250	225	510	250	150	2.7
SPREHK280X180Y	280x180	280	180	580	250	150	3
SPREHK280X200Y	280x200	280	200	560	250	150	3.1
SPREHK280X225Y	280x225	280	225	540	250	150	3.2
SPREHK280X250Y	280x250	280	250	620	250	250	4.1
SPREHK315X200Y	315x200	315	200	640	300	150	4.1
SPREHK315X225Y	315x225	315	225	620	300	150	4.2
SPREHK315X250Y	315x250	315	250	700	300	250	5.3
SPREHK315X280Y	315x280	315	280	680	300	250	5.6
SPREHK355X225Y	355x225	355	225	660	300	150	5.3
SPREHK355X250Y	355x250	355	250	740	300	250	6.7
SPREHK355X280Y	355x280	355	280	700	300	250	6.7
SPREHK355X315Y	355x315	355	315	730	300	300	7.7
SPREHK400X250Y	400x250	400	250	780	300	250	8.5
SPREHK400X280Y	400x280	400	280	750	300	250	8.6
SPREHK400X315Y	400x315	400	315	770	300	300	9.6
SPREHK400X355Y	400x355	400	355	740	300	300	10
SPREHK450X280Y	450x280	450	280	801	300	250	11.1
SPREHK450X315Y	450x315	450	315	820	300	300	12.2
SPREHK450X355Y	450x355	450	355	790	300	300	12.5
SPREHK450X400Y	450x400	450	400	750	300	300	12.8
SPREHK500X315Y	500x315	500	315	911	350	300	15.6
SPREHK500X355Y	500x355	500	355	880	350	300	16
SPREHK500X400Y	500x400	500	400	850	350	300	16.6
SPREHK500X450Y	500x450	500	450	810	350	300	17.1
SPREHK560X400Y	560x400	560	400	901	350	300	20.8
SPREHK560X450Y	560x450	560	450	860	350	300	21.2
SPREHK560X500Y	560x500	560	500	876	350	350	23.3
SPREHK630X450Y	630x450	630	450	921	350	300	27
SPREHK630X500Y	630x500	630	500	930	350	350	29.2
SPREHK630X560Y	630x560	630	560	880	350	350	29.6
SPREHK710X560Y	710x560	710	560	931	350	350	37
SPREHK710X630Y	710x630	710	630	874	350	350	37.3
SPREHK800X630Y	800x630	800	630	971	350	350	49
SPREHK800X710Y	800x710	800	710	890	350	350	48
SPREHK900X710Y	900x710	900	710	1031	400	350	65.4

1252/10-001



Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPREHK900X800Y	900x800	900	800	960	400	350	65.1
SPREK1000X800Y	1000x800	1000	800	970	400	350	77.8
SPREK1000X900Y	1000x900	1000	900	1091	400	400	92.8
SPREK1200X1000Y	1200x1000	1200	1000	1111	400	400	132.3



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



# SDR 17 WATER PN 10 PE100

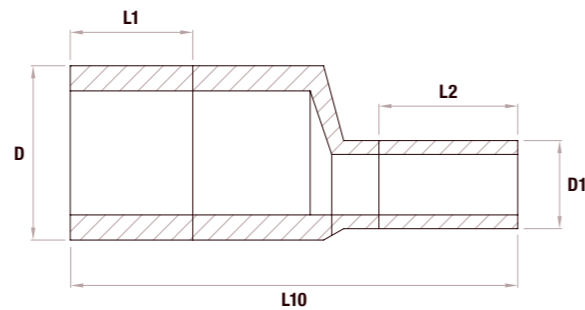


## 1252/08-001



ECCENTRIC REDUCER / LONG / Ø 90-900mm OUTLET / Ø 160-1000mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPREHK160X90V	160x90	160	90	440	150	150	1.4
SPREHK160X110V	160x110	160	110	420	150	150	1.4
SPREHK160X125V	160x125	160	125	410	150	150	1.5
SPREHK160X140V	160x140	160	140	400	150	150	1.6
SPREHK180X110V	180x110	180	110	440	150	150	1.8
SPREHK180X125V	180x125	180	125	430	150	150	1.9
SPREHK180X140V	180x140	180	140	420	150	150	2
SPREHK180X160V	180x160	180	160	400	150	150	2
SPREHK200X125V	200x125	200	125	454	150	150	2.3
SPREHK200X140V	200x140	200	140	430	150	150	2.3
SPREHK200X160V	200x160	200	160	420	150	150	2.5
SPREHK200X180V	200x180	200	180	400	150	150	2.5
SPREHK225X140V	225x140	225	140	460	150	150	3
SPREHK225X160V	225x160	225	160	440	150	150	3.1
SPREHK225X180V	225x180	225	180	420	150	150	3.1
SPREHK225X200V	225x200	225	200	410	150	150	3.3
SPREHK250X160V	250x160	250	160	570	250	150	4.9
SPREHK250X180V	250x180	250	180	550	250	150	5
SPREHK250X200V	250x200	250	200	530	250	150	5
SPREHK250X225V	250x225	250	225	510	250	150	5.2
SPREHK280X180V	280x180	280	180	580	250	150	6.4
SPREHK280X200V	280x200	280	200	560	250	150	6.4
SPREHK280X225V	280x225	280	225	540	250	150	6.5
SPREHK280X250V	280x250	280	250	620	250	250	7.6
SPREHK315X200V	315x200	315	200	640	300	150	9
SPREHK315X225V	315x225	315	225	620	300	150	9.1
SPREHK315X250V	315x250	315	250	700	300	250	10.2
SPREHK315X280V	315x280	315	280	680	300	250	10.7
SPREHK355X225V	355x225	355	225	660	300	150	11.9
SPREHK355X250V	355x250	355	250	740	300	250	13
SPREHK355X280V	355x280	355	280	700	300	250	13.2
SPREHK355X315V	355x315	355	315	730	300	300	14.4
SPREHK400X250V	400x250	400	250	781	300	250	16.6
SPREHK400X280V	400x280	400	280	750	300	250	16.7
SPREHK400X315V	400x315	400	315	770	300	300	17.9
SPREHK400X355V	400x355	400	355	740	300	300	18.6
SPREHK450X280V	450x280	450	280	801	300	250	21.7
SPREHK450X315V	450x315	450	315	821	300	300	22.8
SPREHK450X355V	450x355	450	355	790	300	300	23.4
SPREHK450X400V	450x400	450	400	750	300	300	23.9
SPREHK500X280V	500x280	500	280	861	300	250	28.6
SPREHK500X315V	500x315	500	315	911	350	300	30.4
SPREHK500X355V	500x355	500	355	880	350	300	31
SPREHK500X400V	500x400	500	400	850	350	300	31.7
SPREHK500X450V	500x450	500	450	810	350	300	32.5
SPREHK560X400V	560x400	560	400	901	350	300	40.1
SPREHK560X450V	560x450	560	450	860	350	300	40.6
SPREHK560X500V	560x500	560	500	870	350	350	43.3
SPREHK630X450V	630x450	630	450	921	350	300	52.1
SPREHK630X500V	630x500	630	500	931	350	350	54.5
SPREHK630X560V	630x560	630	560	880	350	350	55.3
SPREHK710X560V	710x560	710	560	941	350	350	70
SPREHK710X630V	710x630	710	630	880	350	350	70.2
SPREHK800X630V	800x630	800	630	971	350	350	92.1
SPREHK800X710V	800x710	800	710	890	350	350	90.2



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# SDR 11 WATER PN 16 PE100

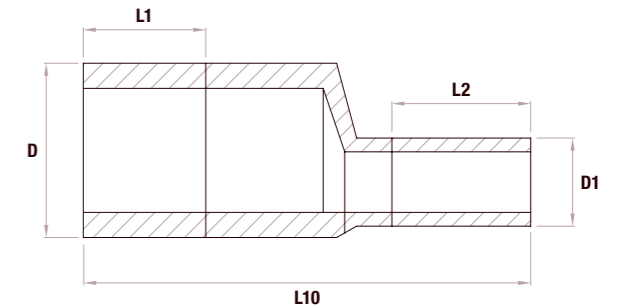


## 1252/06-001



ECCENTRIC REDUCER / LONG / Ø 90-560mm OUTLET / Ø 160-630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	L2 mm	Theoretical weight/kg
SPREHK160X90N	160x90	160	90	440	150	150	2.1
SPREHK160X110N	160x110	160	110	420	150	150	2.1
SPREHK160X125N	160x125	160	125	410	150	150	2.3
SPREHK160X140N	160x140	160	140	400	150	150	2.4
SPREHK180X110N	180x110	180	110	440	150	150	2.7
SPREHK180X125N	180x125	180	125	430	150	150	2.8
SPREHK180X140N	180x140	180	140	420	150	150	2.9
SPREHK180X160N	180x160	180	160	400	150	150	3.1
SPREHK200X125N	200x125	200	125	454	150	150	3.5
SPREHK200X140N	200x140	200	140	430	150	150	3.5
SPREHK200X160N	200x160	200	160	420	150	150	3.7
SPREHK200X180N	200x180	200	180	400	150	150	3.8
SPREHK225X140N	225x140	225	140	460	150	150	4.5
SPREHK225X160N	225x160	225	160	440	150	150	4.6
SPREHK225X180N	225x180	225	180	420	150	150	4.7
SPREHK225X200N	225x200	225	200	410	150	150	4.9
SPREHK250X160N	250x160	250	160	570	250	150	7.4
SPREHK250X180N	250x180	250	180	550	250	150	7.5
SPREHK250X200N	250x200	250	200	530	250	150	7.6
SPREHK250X225N	250x225	250	225	510	250	150	7.8
SPREHK280X180N	280x180	280	180	580	250	150	9.5
SPREHK280X200N	280x200	280	200	560	250	150	9.6
SPREHK280X225N	280x225	280	225	540	250	150	9.7
SPREHK280X250N	280x250	280	250	620	250	250	11.6
SPREHK315X200N	315x200	315	200	640	300	150	13.6
SPREHK315X225N	315x225	315	225	620	300	150	13.7
SPREHK315X250N	315x250	315	250	700	300	250	15.4
SPREHK315X280N	315x280	315	280	680	300	250	16.1
SPREHK355X225N	355x225	355	225	660	300	150	17.8
SPREHK355X250N	355x250	355	250	740	300	250	19.5
SPREHK355X280N	355x280	355	280	700	300	250	19.6
SPREHK355X315N	355x315	355	315	730	300	300	21.8
SPREHK400X250N	400x250	400	250	781	300	250	25
SPREHK400X280N	400x280	400	280	750	300	250	25.1
SPREHK400X315N	400x315	400	315	770	300	300	26.9
SPREHK400X355N	400x355	400	355	740	300	300	28.1
SPREHK450X280N	450x280	450	280	801	300	250	32.6
SPREHK450X315N	450x315	450	315	821	300	300	34.2
SPREHK450X355N	450x355	450	355	790	300	300	35.2
SPREHK450X400N	450x400	450	400	750	300	300	36.1
SPREHK500X280N	500x280	500	280	861	300	250	42.7
SPREHK500X315N	500x315	500	315	911	350	300	45.6
SPREHK500X355N	500x355	500	355	880	350	300	46.5
SPREHK500X400N	500x400	500	400	850	350	300	47.8
SPREHK500X450N	500x450	500	450	810	350	300	49
SPREHK560X400N	560x400	560	400	901	350	300	60.1
SPREHK560X450N	560x450	560	450	860	350	300	60.9
SPREHK560X500N	560x500	560	500	870	350	350	65.1
SPREHK630X450N	630x450	630	450	921	350	300	78.2
SPREHK630X500N	630x500	630	500	931	350	350	82
SPREHK630X560N	630x560	630	560	880	350	350	83.3



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# ECCENTRIC REDUCER

## SHORT SPIGOT

Ø 90 - 900mm OUTLET  
Ø 160 - 1000mm BODY

SDR RANGE 33/17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

- Water
- Wastewater
- Irrigation
- Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Eccentric outlet:** Helps prevent build up of sediment

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100



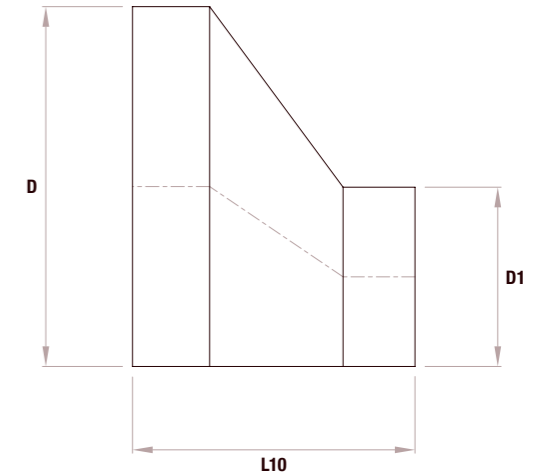
ECCENTRIC REDUCER / SHORT / Ø 90 - 900mm OUTLET / Ø 160 - 1000mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
SSREHK160X90Y	160x90	160	90	140	0.3
SSREHK160X110Y	160x110	160	110	120	0.2
SSREHK160X125Y	160x125	160	125	110	0.2
SSREHK160X140Y	160x140	160	140	100	0.2
SSREHK180X110Y	180x110	180	110	140	0.3
SSREHK180X125Y	180x125	180	125	130	0.3
SSREHK180X140Y	180x140	180	140	120	0.3
SSREHK180X160Y	180x160	180	160	100	0.3
SSREHK200X125Y	200x125	200	125	150	0.5
SSREHK200X140Y	200x140	200	140	130	0.4
SSREHK200X160Y	200x160	200	160	120	0.4
SSREHK200X180Y	200x180	200	180	100	0.4
SSREHK225X160Y	225x160	225	160	140	0.6
SSREHK225X180Y	225x180	225	180	120	0.5
SSREHK225X200Y	225x200	225	200	110	0.5
SSREHK250X160Y	250x160	250	160	170	0.9
SSREHK250X180Y	250x180	250	180	150	0.8
SSREHK250X200Y	250x200	250	200	130	0.7
SSREHK250X225Y	250x225	250	225	110	0.6
SSREHK280X180Y	280x180	280	180	180	1.1
SSREHK280X200Y	280x200	280	200	160	1
SSREHK280X225Y	280x225	280	225	140	0.9
SSREHK280X250Y	280x250	280	250	120	0.8
SSREHK315X200Y	315x200	315	200	190	1.5
SSREHK315X225Y	315x225	315	225	170	1.4
SSREHK315X250Y	315x250	315	250	150	1.3
SSREHK315X280Y	315x280	315	280	130	1.2
SSREHK355X225Y	355x225	355	225	210	2.2
SSREHK355X250Y	355x250	355	250	190	2
SSREHK355X280Y	355x280	355	280	150	1.6
SSREHK355X315Y	355x315	355	315	130	1.5
SSREHK400X250Y	400x250	400	250	230	3.1
SSREHK400X280Y	400x280	400	280	200	2.7
SSREHK400X355Y	400x355	400	355	120	2.4
SSREHK450X280Y	450x280	450	280	251	4.2
SSREHK450X315Y	450x315	450	315	210	3.34
SSREHK450X355Y	450x355	450	355	170	2.8
SSREHK450X400Y	450x400	450	400	150	2.4
SSREHK500X280Y	500x280	500	280	291	5.9
SSREHK500X315Y	500x315	500	315	260	5.02
SSREHK500X355Y	500x355	500	355	220	4.1
SSREHK500X400Y	500x400	500	400	180	3.3
SSREHK500X450Y	500x450	500	450	130	2.6
SSREHK560X400Y	560x400	560	400	251	6.9
SSREHK560X450Y	560x450	560	450	190	4.9
SSREHK560X500Y	560x500	560	500	140	3.6
SSREHK630X450Y	630x450	630	450	271	9.5
SSREHK630X500Y	630x500	630	500	210	6.9
SSREHK630X560Y	630x560	630	560	180	5.6
SSREHK710X560Y	710x560	710	560	231	10.6
SSREHK710X630Y	710x630	710	630	174	8.2
SSREHK800X630Y	800x630	800	630	271	15.6
SSREHK800X710Y	800x710	800	710	190	11.1
SSREHK900X710Y	900x710	900	710	281	20.7

1252/04-001



Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
SSREHK900X800Y	900x800	900	800	210	15.4
SSREK1000X800Y	1000x800	1000	800	220	22.1
SSREK1000X900Y	1000x900	1000	900	291	26.3



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued

# SDR 17 WATER PN 10 PE100



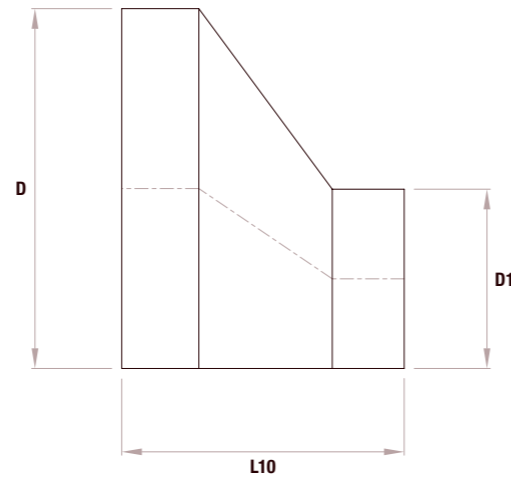
## 1252/02-001



ECCENTRIC REDUCER / SHORT / Ø 90 - 800mm OUTLET / Ø 160 - 900mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
SSREHK160X90V	160x90	160	90	140	0.5
SSREHK160X110V	160x110	160	110	120	0.4
SSREHK160X125V	160x125	160	125	110	0.4
SSREHK160X140V	160x140	160	140	100	0.4
SSREHK180X110V	180x110	180	110	140	0.6
SSREHK180X140V	180x140	180	140	120	0.6
SSREHK180X160V	180x160	180	160	100	0.5
SSREHK200X125V	200x125	200	125	154	0.9
SSREHK200X140V	200x140	200	140	130	0.8
SSREHK200X160V	200x160	200	160	120	0.7
SSREHK200X180V	200x180	200	180	100	0.7
SSREHK225X140V	225x140	225	140	160	1.2
SSREHK225X160V	225x160	225	160	140	1.1
SSREHK225X180V	225x180	225	180	120	0.9
SSREHK225X200V	225x200	225	200	110	0.9
SSREHK250X160V	250x160	250	160	170	1.6
SSREHK250X180V	250x180	250	180	150	1.4
SSREHK250X200V	250x200	250	200	130	1.3
SSREHK250X225V	250x225	250	225	110	1.1
SSREHK280X180V	280x180	280	180	180	2.1
SSREHK280X200V	280x200	280	200	160	1.9
SSREHK280X225V	280x225	280	225	140	1.8
SSREHK280X250V	280x250	280	250	120	1.6
SSREHK315X200V	315x200	315	200	190	2.8
SSREHK315X225V	315x225	315	225	170	2.6
SSREHK315X250V	315x250	315	250	150	2.4
SSREHK315X280V	315x280	315	280	130	2.1
SSREHK355X225V	355x225	355	225	210	4
SSREHK355X250V	355x250	355	250	190	3.8
SSREHK355X280V	355x280	355	280	160	3.3
SSREHK355X315V	355x315	355	315	130	2.7
SSREHK400X250V	400x250	400	250	231	5.6
SSREHK400X280V	400x280	400	280	200	7.6
SSREHK400X315V	400x315	400	315	170	6
SSREHK400X355V	400x355	400	355	130	4.1
SSREHK450X280V	450x280	450	280	251	7.8
SSREHK450X315V	450x315	450	315	210	9.9
SSREHK450X355V	450x355	450	355	180	8.1
SSREHK450X400V	450x400	450	400	150	5.1
SSREHK500X280V	500x280	500	280	261	10
SSREHK500X315V	500x315	500	315	260	13.6
SSREHK500X355V	500x355	500	355	220	12.8
SSREHK500X400V	500x400	500	400	190	10.6
SSREHK500X450V	500x450	500	450	140	6.9
SSREHK560X400V	560x400	560	400	251	12.8
SSREHK560X450V	560x450	560	450	200	13.9
SSREHK560X500V	560x500	560	500	170	9.3
SSREHK630X450V	630x450	630	450	271	17.6
SSREHK630X500V	630x500	630	500	240	19.7
SSREHK630X560V	630x560	630	560	180	12.3
SSREHK710X560V	710x560	710	560	241	20.5
SSREHK710X630V	710x630	710	630	180	15.7
SSREHK800X630V	800x630	800	630	271	29.4
SSREHK800X710V	800x710	800	710	190	21.1

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
SSREHK900X710V	900x710	900	710	281	38.3
SSREHK900X800V	900x800	900	800	210	29.7



# SDR 11 WATER PN 16 PE100

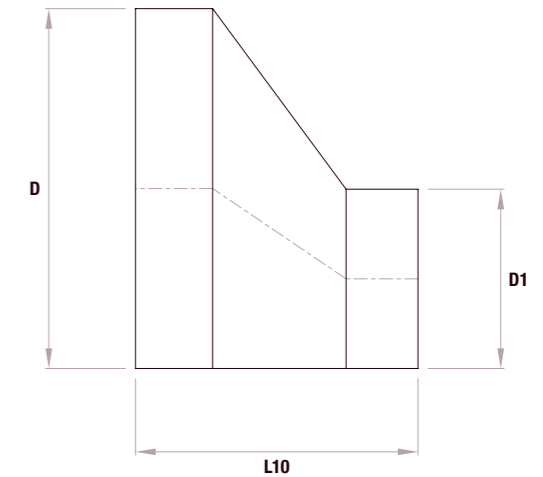


## 1252/00-001



ECCENTRIC REDUCER / SHORT / Ø 90 - 560mm OUTLET / Ø 160 - 630mm BODY

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	Theoretical weight/kg
SSREHK160X90N	160x90	160	90	140	0.7
SSREHK160X110N	160x110	160	110	120	0.6
SSREHK160X125N	160x125	160	125	110	0.6
SSREHK160X140N	160x140	160	140	100	0.6
SSREHK180X110N	180x110	180	110	140	0.9
SSREHK180X125N	180x125	180	125	130	0.9
SSREHK180X140N	180x140	180	140	120	0.9
SSREHK180X160N	180x160	180	160	100	0.8
SSREHK200X125N	200x125	200	125	154	1.3
SSREHK200X140N	200x140	200	140	130	1.1
SSREHK200X160N	200x160	200	160	120	1.1
SSREHK200X180N	200x180	200	180	100	1
SSREHK225X140N	225x140	225	140	160	1.7
SSREHK225X180N	225x180	225	180	120	1.4
SSREHK225X160N	225x160	225	160	140	1.5
SSREHK225X200N	225x200	225	200	110	1.3
SSREHK250X160N	250x160	250	160	170	2.3
SSREHK250X180N	250x180	250	180	150	2.1
SSREHK250X200N	250x200	250	200	130	1.9
SSREHK250X225N	250x225	250	225	110	1.7
SSREHK280X180N	280x180	280	180	180	3
SSREHK280X200N	280x200	280	200	160	2.8
SSREHK280X225N	280x225	280	225	140	2.5
SSREHK280X250N	280x250	280	250	120	2.3
SSREHK315X200N	315x200	315	200	190	4.1
SSREHK315X225N	315x225	315	225	170	3.8
SSREHK315X250N	315x250	315	250	150	3.5
SSREHK315X280N	315x280	315	280	130	3.1
SSREHK355X225N	355x225	355	225	210	5.8
SSREHK355X250N	355x250	355	250	190	5.4
SSREHK355X280N	355x280	355	280	160	4.5
SSREHK355X315N	355x315	355	315	130	4
SSREHK400X250N	400x250	400	250	231	8.1
SSREHK400X280N	400x280	400	280	200	9.5
SSREHK400X315N	400x315	400	315	170	7.8
SSREHK400X355N	400x355	400	355	140	6.3
SSREHK450X280N	450x280	450	280	251	11.2
SSREHK450X315N	450x315	450	315	220	13.6
SSREHK450X355N	450x355	450	355	190	11.5
SSREHK450X400N	450x400	450	400	150	7.5
SSREHK500X280N	500x280	500	280	261	14.4
SSREHK500X315N	500x315	500	315	260	20.1
SSREHK500X355N	500x355	500	355	230	17.5
SSREHK500X400N	500x400	500	400	200	14.9
SSREHK500X450N	500x450	500	450	160	11.4
SSREHK560X400N	560x400	560	400	251	18.4
SSREHK560X450N	560x450	560	450	210	19.7
SSREHK560X500N	560x500	560	500	170	13.3
SSREHK630X450N	630x450	630	450	271	25.3
SSREHK630X500N	630x500	630	500	250	27.4
SSREHK630X560N	630x560	630	560	180	17.9



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# END CAP

## LONG SPIGOT

Ø 20 - 900mm

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

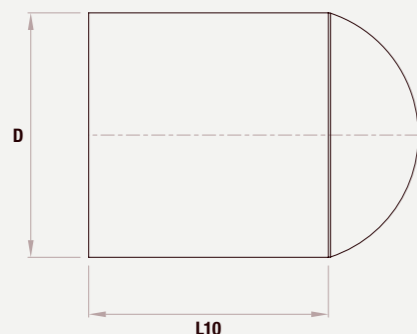
**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

**SDR 17/11**

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

**SDR 9/7.4**

EN 12201-3  
Water only

### Accessories

Accessories	Page
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 GAS 6 BAR PE100



1351/12-001



END CAP / LONG SPIGOT / Ø 50 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	Theoretical weight/kg
LSECHK50V	◇ 50	50	55	0.03
LSECHK63V	63	63	63	0.08
LSECHK75V	75	75	70	0.12
LSECHK90V	90	90	79	0.17
LSECHK110V	110	110	82	0.26
LSECHK125V	125	125	87	0.43
LSECHK140V	140	140	92	0.64
LSECHK160V	160	160	98	0.82
LSECHK180V	180	180	105	1.11
LSECHK200V	200	200	112	1.51
LSECHK225V	225	225	120	2.06
LSECHK250V	250	250	129	2.6
LSECHK280V	280	280	139	3.73
LSECHK315V	315	315	150	5.02
LSECHK355V	355	355	164	7.61
LSECHK400V	400	400	179	10.35
LSECHK450V	Ω 450	450	300	21.1
LSECHK500V	Ω 500	500	350	29
LSECHK560V	Ω 560	560	350	38.5
LSECHK630V	Ω 630	630	350	52.3
LSECHK710V	Ω 710	710	350	70
LSECHK800V	Ω 800	800	350	95.8
LSECHK900V	Ω 900	900	400	136.8

◇ Non Fusamatic branded.

Ω Non Fusamatic branded - machined or extended with PE100 pipe.

## SDR 9 WATER PN 20 PE100



1251/16-001



END CAP / LONG SPIGOT / Ø 63 - 315mm

Reference code	Fitting size mm	D mm	L10 mm	Theoretical weight/kg
LSECHK63R	63	63	71	0.13
LSECHK75R	75	75	78	0.19
LSECHK90R	90	90	81	0.29
LSECHK110R	110	110	93	0.5
LSECHK125R	125	125	89	0.64
LSECHK140R	140	140	104	0.92
LSECHK160R	160	160	117	1.44
LSECHK180R	180	180	103	1.69
LSECHK200R	200	200	132	2.51
LSECHK225R	225	225	118	2.95
LSECHK250R	250	250	117	3.7
LSECHK280R	280	280	136	4.14
LSECHK315R	315	315	156	4.42

## SDR 11 WATER PN 16 GAS 10 BAR PE100



1351/10-001



END CAP / LONG SPIGOT / Ø 20 - 630mm

Reference code	Fitting size mm	D mm	L10 mm	Theoretical weight/kg
LSECHK20N	◇ 20	20	41	0.01
LSECHK25N	◇ 25	25	41	0.01
LSECHK32N	◇ 32	32	44	0.02
LSECHK40N	◇ 40	40	49	0.04
LSECHK50N	◇ 50	50	55	0.05
LSECHK63N	63	63	63	0.09
LSECHK75N	75	75	70	0.14
LSECHK90N	90	90	79	0.23
LSECHK110N	110	110	82	0.35
LSECHK125N	125	125	87	0.55
LSECHK140N	140	140	92	0.76
LSECHK160N	160	160	98	1.04
LSECHK180N	180	180	105	1.4
LSECHK200N	200	200	112	1.89
LSECHK225N	225	225	120	2.6
LSECHK250N	250	250	129	3.29
LSECHK280N	280	280	139	4.63
LSECHK315N	315	315	150	6.12
LSECHK355N	355	355	164	8.98
LSECHK400N	400	400	179	12.59
LSECHK450N	Ω 450	450	300	27.2
LSECHK500N	Ω 500	500	350	38.5
LSECHK560N	Ω 560	560	350	50.5
LSECHK630N	Ω 630	630	350	64.9

◇ Non Fusamatic branded.

Ω Non Fusamatic branded - machined or extended with PE100 pipe.

## SDR 7.4 WATER PN 25 PE100



1251/14-001



END CAP / LONG SPIGOT / Ø 25 - 315mm

Reference code	Fitting size mm	D mm	L10 mm	Theoretical weight/kg
LSECHK25T	25	25	49	0.03
LSECHK32T	32	32	51	0.03
LSECHK40T	40	40	61	0.04
LSECHK50T	50	50	58	0.08
LSECHK63T	63	63	71	0.14
LSECHK75T	75	75	78	0.2
LSECHK90T	90	90	81	0.3
LSECHK110T	110	110	93	0.53
LSECHK125T	125	125	89	0.67
LSECHK140T	140	140	104	0.97
LSECHK160T	160	160	117	1.52
LSECHK180T	180	180	103	1.78
LSECHK200T	200	200	132	2.64
LSECHK225T	225	225	118	3.1
LSECHK250T	250	250	117	3.89
LSECHK280T	280	280	136	4.36
LSECHK315T	315	315	156	4.65

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.

Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# END CAP

## SHORT SPIGOT

Ø 20 - 900mm

SDR RANGE 33/17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Water
 ● Wastewater
 ● Irrigation
 ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Page

Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

## SDR 33 WATER PN 5 PE100



1251/00-001



END CAP / SHORT SPIGOT / Ø 280 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSECHK280Y	280	280	55	20	2.1
SSECHK315Y	315	315	55	20	2.7
SSECHK355Y	355	355	60	20	3.8
SSECHK400Y	400	400	65	20	5.5
SSECHK450Y	450	450	70	20	7.6
SSECHK500Y	500	500	75	20	10.3
SSECHK560Y	560	560	85	20	15.2
SSECHK630Y	630	630	100	30	21
SSECHK710Y	710	710	110	30	30.2
SSECHK800Y	800	800	120	30	43
SSECHK900Y	900	900	130	30	60.2

## SDR 17 WATER PN 10 PE100



1251/08-001



END CAP / SHORT SPIGOT / Ø 250 - 900mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSECHK250V	250	250	50	20	1.66
SSECHK280V	280	280	65	20	2.8
SSECHK315V	315	315	70	20	3.9
SSECHK355V	355	355	75	20	5.4
SSECHK400V	400	400	80	20	7.4
SSECHK450V	450	450	90	20	10.9
SSECHK500V	500	500	95	20	14.3
SSECHK560V	560	560	105	20	20.1
SSECHK630V	630	630	125	30	28.9
SSECHK710V	710	710	135	30	40.3
SSECHK800V	800	800	150	30	58.2
SSECHK900V	900	900	165	30	82.4

## SDR 11 WATER PN 16 PE100



1251/06-001



END CAP / SHORT SPIGOT / Ø 250 - 800mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSECHK250N	250	250	55	20	2.65
SSECHK280N	280	280	70	20	3.2
SSECHK315N	315	315	75	20	4.4
SSECHK355N	355	355	85	20	6.5
SSECHK400N	400	400	90	20	8.8
SSECHK450N	450	450	100	20	12.6
SSECHK500N	500	500	110	20	17.3
SSECHK560N	560	560	120	20	24
SSECHK630N	630	630	140	30	34.1
SSECHK710N	710	710	155	30	48.8
SSECHK800N	800	800	170	30	68.9

## SDR 9 WATER PN 20 PE100



1251/04-001



END CAP / SHORT SPIGOT / Ø 355 - 450mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSECHK355R	355	355	90	20	7.07
SSECHK400R	400	400	100	20	10.14
SSECHK450R	450	450	110	20	14.26

## SDR 7.4 WATER PN 25 PE100

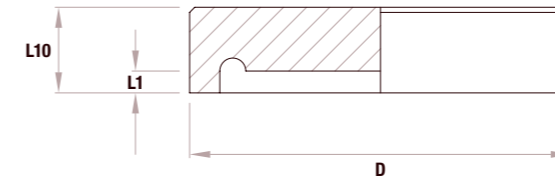


1251/02-001



END CAP / SHORT SPIGOT / Ø 355 - 450mm

Reference code	Fitting size mm	D mm	L10 mm	L1 mm	Theoretical weight/kg
SSECHK355T	355	355	100	20	8.16
SSECHK400T	400	400	110	20	11.53
SSECHK450T	450	450	120	20	16.03



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# STUB FLANGE ADAPTOR

LONG SPIGOT  
Ø 20-1200mm

SDR RANGE 17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

### SDR 17/11

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### SDR 9/7.4

EN 12201-3  
Water only

## Accessories

Accessories	Page
Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100



1356/28-001

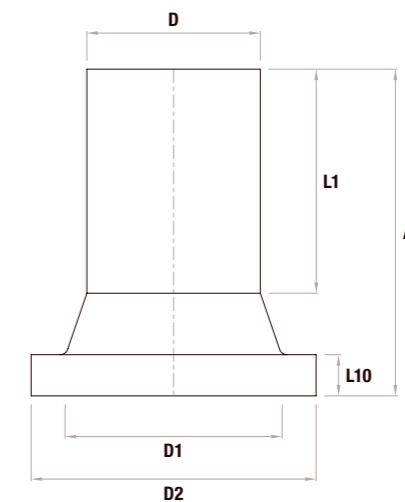


## STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 50 - 1200mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK50V	50	50	60	88	12	62	90	0.11
SFHK63V	63	63	78	102	14	88	120	0.18
SFHK75V	75	75	92	122	16	97	130	0.28
SFHK90V	90	90	108	139	17	106	140	0.37
SFHK110V	110	110	125	158	17	113	155	0.55
SFHK125V	125	125	135	158	20	120	160	0.64
SFHK140V	140	140	155	188	18	128	188	1.04
SFHK160V	160	160	175	212	18	147	185	1.13
SFHK180V	180	180	188	212	20	111	153	1.15
SFHK200V	200	200	230	268	24	125	188	2.12
SFHK225V	225	225	238	268	24	156	205	2.39
SFHK250V	250	250	288	320	25	133	186	3
SFHK280V	280	280	288	320	25	148	213	3.67
SFHK315V	315	315	338	375	25	166	223	4.95
SFHK355V	355	355	376	435	30	174	227	9.44
SFHK400V	400	400	430	485	33	185	242	9.43
SFHK450VP	450-DN450	450	465	545	45	195	335	14.26
SFHK450VE	450-DN500	450	514	585	46	195	301	16.5
SFHK500V	500	500	530	585	46	212	308	16.9
SFHK500VP	500	500	530	590	46	212	339	16.88
SFHK560V	560	560	615	685	50	235	345	25.6
SFHK560VP	560	560	618	690	50	235	373	24.17
SFHK630V	630	630	642	685	50	300	390	29.4
SFHK630VP	630	630	645	690	50	255	384	28.42
SFHK710V	710	710	737	800	50	325	425	42.4
SFHK800V	800	800	840	905	52	360	462	58.5
SFHK900V	900	900	944	1005	55	360	485	77.2
SFHK1000V	1000	1000	1047	1110	60	395	525	102.2
SFHK1200V	1200	1200	1245	1330	70	500	600	165.1

◇ Non Fusamatic branded.

Ω Short Spigot - Extended with PE100 pipe and certified components in accordance to European norms.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



# SDR 11 WATER PN 16 GAS 10 BAR PE100



## 1356/26-001

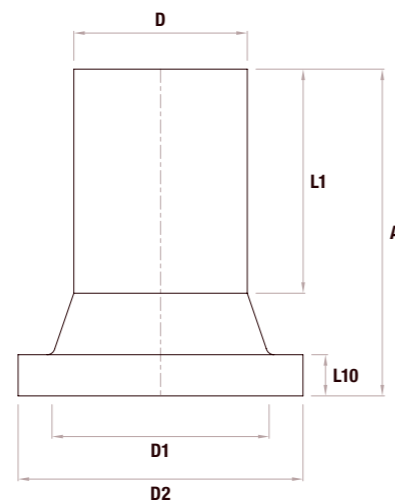


STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 20 - 800mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK20N	20	20	28	45	7	55	80	0.03
SFHK25N	25	25	34	58	9	62	81	0.04
SFHK32N	32	32	42	68	10	61	86	0.06
SFHK40N	40	40	51	78	11	60	88	0.09
SFHK50N	50	50	62	88	12	63	92	0.13
SFHK63N	63	63	78	102	14	88	120	0.22
SFHK75N	75	75	92	122	16	97	130	0.33
SFHK90N	90	90	108	138	17	103	140	0.46
SFHK110N	110	110	125	158	18	113	155	0.69
SFHK125N	125	125	135	158	20	120	159	0.82
SFHK140N	140	140	155	188	25	128	190	1.33
SFHK160N	160	160	175	212	25	155	200	1.68
SFHK180N	180	180	188	212	30	152	207	2.02
SFHK200N	200	200	232	268	32	153	210	3.09
SFHK225N	225	225	238	268	32	129	180	2.98
SFHK250N	250	250	288	320	35	140	205	4.52
SFHK280N	280	280	288	320	35	145	211	5.11
SFHK315N	315	315	338	375	35	160	224	6.93
SFHK355N	355	355	376	435	45	172	240	10
SFHK400N	400	400	430	485	50	181	264	14.4
SFHK450NP Ω	450-DN450	450	465	545	66	195	360	21.77
SFHK450NE ◊	450-DN500	450	514	585	60	200	306	22.9
SFHK500N ◊	500	500	530	585	60	250	346	26.3
SFHK500NP Ω	500	500	530	590	60	212	354	25.06
SFHK560N ◊	560	560	615	685	60	290	400	39.7
SFHK560NP Ω	560	560	618	690	80	235	423	38.8
SFHK630N ◊	630	630	642	685	60	300	390	42.5
SFHK630NP Ω	630	630	645	690	65	255	404	42.4
SFHK800N ◊	800	800	840	905	65	380	482	88.6

◊ Non Fusumatic branded.

Ω Short Spigot - Extended with PE100 pipe and certified components in accordance to European norms.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# SDR 9 WATER PN 20 PE100



## 1256/32-001



STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 63 - 315mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK63R	63	63	75	102	16	63	101	0.22
SFHK75R	75	75	89	122	18	73	113	0.34
SFHK90R	90	90	105	138	20	82	126	0.49
SFHK110R	110	110	125	158	21	91	138	0.79
SFHK125R	125	125	134	158	28	101	152	0.97
SFHK140R	140	140	155	188	29	102	164	1.4
SFHK160R	160	160	175	212	29	106	168	1.78
SFHK180R	180	180	180	212	32	108	178	2.2
SFHK200R	200	200	232	268	34	119	200	3.72
SFHK225R	225	225	235	268	34	120	193	3.83
SFHK250R	250	250	285	320	37	129	202	5.44
SFHK280R	280	280	291	320	42	140	210	6.1
SFHK315R	315	315	335	370	47	157	230	8.43

# SDR 7.4 WATER PN 25 PE100



## 1256/30-001



STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 25 - 315mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK25T	25	25	33	59	10	45	69	0.04
SFHK32T	32	32	40	68	11	56	82	0.06
SFHK40T	40	40	50	78	12	56	80	0.14
SFHK50T	50	50	61	88	13	55	87	0.16
SFHK63T	63	63	75	102	16	63	101	0.24
SFHK75T	75	75	89	122	18	73	113	0.39
SFHK90T	90	90	105	138	20	82	126	0.58
SFHK110T	110	110	105	138	21	91	138	0.91
SFHK125T	125	125	134	158	28	101	152	1.09
SFHK140T	140	140	155	188	29	102	164	1.59
SFHK160T	160	160	175	212	29	106	168	2.15
SFHK180T	180	180	180	212	32	108	178	2.46
SFHK200T	200	200	232	268	34	119	200	3.98
SFHK225T	225	225	235	268	34	120	193	4.24
SFHK250T	250	250	285	320	37	129	202	6.52
SFHK280T	280	280	291	320	42	140	210	6.84
SFHK315T	315	315	335	370	47	157	230	9.93

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# CHAMFERED STUB FLANGE ADAPTOR

## LONG SPIGOT

Ø 160 - 630mm

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing. Suitable for butterfly valves

**Chamfered design:** Inside face of the flange adaptor is chamfered to enable rotation off butterfly discs

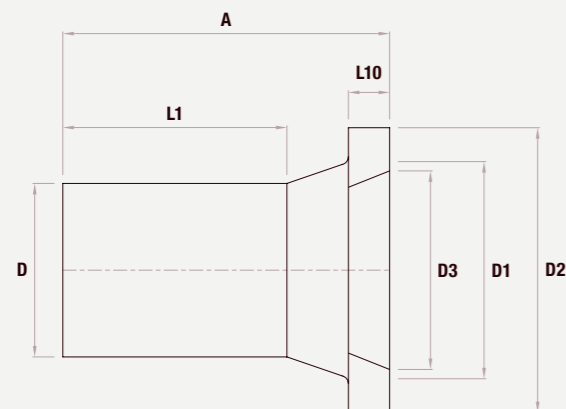
**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 GAS 6 BAR PE100



1356/06-001



### CHAMFERED STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 160 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK160VBF	160	160	175	212	154	18	147	185	1.13
SFHK200VBF	200	200	230	268	208	24	125	188	1.96
SFHK225VBF	225	225	238	268	208	24	156	205	2.36
SFHK250VBF	250	250	288	320	260	25	133	186	2.6
SFHK280VBF	280	280	288	320	260	25	148	213	3.62
SFHK315VBF	315	315	338	375	305	25	166	223	4.78
SFHK355VBF	355	355	376	435	350	30	174	227	6.55
SFHK400VBF	400	400	430	485	396	33	186	242	8.79
SFHK450VBFP Ω	450 - DN450	450	465	545	442	45	195	335	14.26
SFHK450VBFEP Ω	450 - DN500	450	517	585	485	45	195	335	15.72
SFHK500VBFP Ω	500	500	530	590	497	46	212	339	16.88
SFHK560VBFP Ω	560	560	618	690	580	50	235	373	24.17
SFHK630VBFP Ω	630	630	645	690	585	50	255	384	28.42

Ω Short spigot – Extended with PE100 pipe and certified components in accordance to European norms.

## SDR 11 WATER PN 16 GAS 10 BAR PE100



1356/04-001



### CHAMFERED STUB FLANGE ADAPTOR / LONG SPIGOT / Ø 160 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK160NBF	160	160	175	212	154	25	155	200	1.68
SFHK200NBF	200	200	232	268	208	32	153	210	2.85
SFHK225NBF	225	225	238	268	208	32	129	180	2.84
SFHK250NBF	250	250	288	320	260	35	140	205	3.97
SFHK280NBF	280	280	288	320	260	35	145	211	5
SFHK315NBF	315	315	338	375	305	35	160	224	6.36
SFHK355NBF	355	355	376	435	345	45	172	240	9.49
SFHK400NBF	400	400	430	485	396	50	181	264	13.16
SFHK450NBFP Ω	450 - DN450	450	465	545	442	66	195	360	21.77
SFHK450NBFEF Ω	450 - DN500	450	517	585	480	65	195	360	22.89
SFHK500NBFP Ω	500	500	530	590	494	60	212	354	25.06
SFHK560NBFP Ω	560	560	618	690	580	80	235	423	38.8
SFHK630NBFP Ω	630	630	645	690	576	65	255	404	42.4

Ω Short spigot – Extended with PE100 pipe and certified components in accordance to European norms.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# STUB FLANGE ADAPTOR

LONG SPIGOT  
AUSTRALIAN DESIGN

Ø 40 - 630mm

SDR RANGE 17/11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Long spigot design, suitable for electrofusion and butt fusion jointing

**Australian design:** Geometry of flanges specially designed for wider comparability with Australian flange specifications

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Accessories	Page
Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Electrofusion welding machines	258
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100



1356/02-001



STUB FLANGE ADAPTOR / LONG SPIGOT / AUSTRALIAN DESIGN / Ø 63 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK63VA	63	63	78	100	14	88	120	0.21
SFHK75VA	75	75	92	119	16	97	130	0.21
SFHK90VA	90	90	108	132	17	106	140	0.35
SFHK560VAP Ω	560	560	580	654	80	235	423	24.17
SFHK630VAP Ω	630	630	650	710	50	255	404	29.22

Ω Short spigot – Extended with PE100 pipe and certified components in accordance to European norms.

SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100



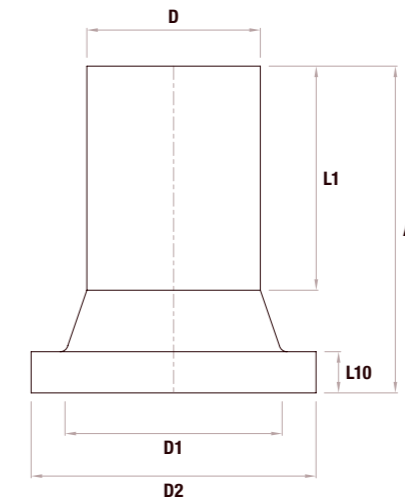
1356/00-001



STUB FLANGE ADAPTOR / LONG SPIGOT / AUSTRALIAN DESIGN / Ø 40 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SFHK40NA	40	40	51	73	11	60	88	0.08
SFHK50NA	50	50	62	82	12	63	92	0.12
SFHK63NA	63	63	78	100	14	88	120	0.21
SFHK75NA	75	75	92	119	16	97	130	0.27
SFHK90NA	90	90	108	132	17	103	140	0.43
SFHK560NAP Ω	560	560	580	654	80	235	423	38.4
SFHK630NAP Ω	630	630	650	710	65	255	404	43.5

Ω Short spigot – Extended with PE100 pipe and certified components in accordance to European norms.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# STUB FLANGE ADAPTOR

## SHORT SPIGOT

Ø 110-1200mm

SDR RANGE 33/26/17/11/9/7.4

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Temperature range:** -10°C to +40°C

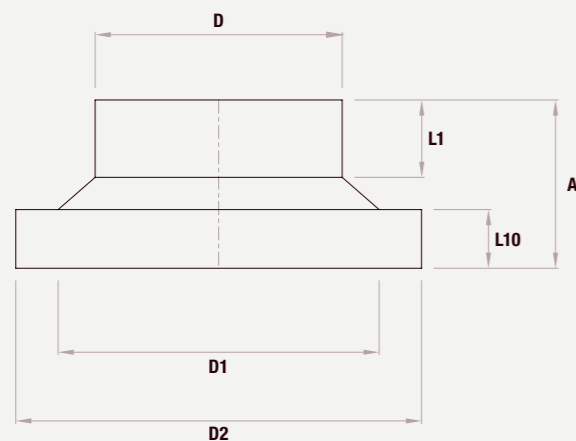
**Butt fusion jointing temperature:** +5°C to +40°C

**Gas:** SDR 17/11

**Water:** SDR 33/26/17/11/9/7.4

**Brand:** SDR 17 and 11 Fusamatic branded (Unless stated)  
SDR 33/26/9 and 7.4 Non Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

**SDR 17/11**

EN 12201-3

EN 1555-3

ISO 4437-3  
Fusamatic branded only

ISO 4427-3  
Fusamatic branded only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

**SDR 33/26/9/7.4**

EN 12201-3  
Water only

### Accessories Page

Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 33 WATER PN 5 PE100



1256/20-001



### STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 110 - 1200mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK110Y	110	110	125	158	18	37	83	0.31
SSSFHK125Y	125	125	132	158	18	44	87	0.31
SSSFHK140Y	140	140	155	188	18	35	83	0.42
SSSFHK160Y	160	160	175	212	18	43	95	0.58
SSSFHK180Y	180	180	184	212	18	62	84	0.54
SSSFHK200Y	200	200	232	268	18	60	121	1.2
SSSFHK225Y	225	225	235	268	18	65	121	0.96
SSSFHK250Y	250	250	285	320	20	60	119	1.77
SSSFHK280Y	280	280	291	320	20	71	118	1.38
SSSFHK315Y	315	315	335	370	20	86	165	2.49
SSSFHK355Y	355	355	373	430	23	100	180	3.59
SSSFHK400Y	400	400	427	482	26	100	195	5.44
SSSFHK450YE	450-DN500	450	514	585	33	60	139	7.47
SSSFHK500Y	500	500	530	585	38	60	138	6.56
SSSFHK560Y	560	560	615	685	40	60	139	9.84
SSSFHK630Y	630	630	642	685	35	45	120	6.4
SSSFHK710Y	710	710	737	800	35	35	120	9.7
SSSFHK800Y	800	800	840	905	36	34	120	12.9
SSSFHK900Y	900	900	944	1005	40	30	140	18.3
SSSFHK1000Y	1000	1000	1047	1110	42	28	140	22.3
SSSFHK1200Y	1200	1200	1245	1330	50	60	140	31.5

## SDR 26 WATER PN 6 PE100



1256/18-001



### STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 160 - 1200mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK160W	160	160	175	206	14	25	70	0.61
SSSFHK180W	180	180	184	206	16	30	86	0.5
SSSFHK200W	200	200	232	261	19	41	108	1.13
SSSFHK225W	225	225	235	261	19	32	99	0.89
SSSFHK250W	250	250	285	316	20	38	109	1.62
SSSFHK280W	280	280	291	316	20	63	114	1.5
SSSFHK315W	315	315	335	372	20	64	119	2.4
SSSFHK355W	355	355	373	422	24	51	118	3.75
SSSFHK400W	400	400	427	472	26	46	118	3.66
SSSFHK450WE	450-DN500	450	514	577	36	63	140	9.18
SSSFHK500W	500	500	520	577	36	72	137	6.79
SSSFHK560W	560	560	615	678	40	54	132	10.78
SSSFHK630W	630	630	642	678	40	46	121	8.02
SSSFHK710W	710	710	737	782	42	40	125	12.24
SSSFHK800W	800	800	840	888	43	30	120	15.6
SSSFHK900W	900	900	944	988	47	40	130	20.52
SSSFHK1000W	1000	1000	1047	1088	52	40	130	24.4
SSSFHK1200W	1200	1200	1245	1305	63	35	153	-

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued

**SDR 17  
WATER PN 10  
GAS 6 BAR  
PE100**



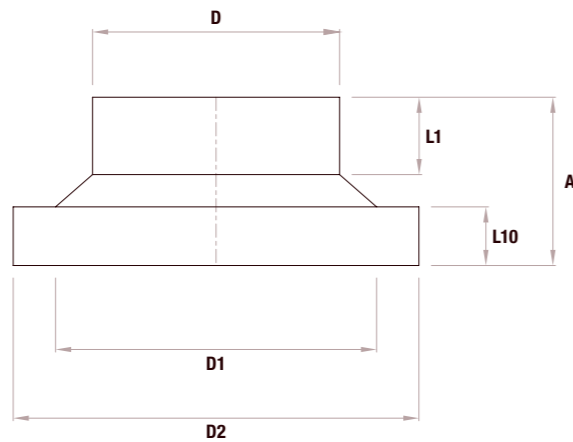
**1356/16-001**



STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 50 - 1200mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK50V	50	50	61	88	30	12	56	0.08
SSSFHK63V	63	63	75	102	14	27	64	0.14
SSSFHK75V	75	75	89	122	16	27	67	0.22
SSSFHK90V	90	90	105	138	17	26	68	0.3
SSSFHK110V	110	110	125	158	18	25	73	0.4
SSSFHK125V	125	125	132	158	18	30	71	0.39
SSSFHK140V	140	140	155	188	18	30	80	0.53
SSSFHK160V	160	160	175	212	18	25	75	0.67
SSSFHK180V	180	180	180	212	20	30	87	0.81
SSSFHK200V	200	200	230	268	24	57	120	1.59
SSSFHK225V	225	225	238	268	24	61	120	1.55
SSSFHK250V	250	250	288	320	25	55	120	2.25
SSSFHK280V	280	280	288	320	25	56	120	2.27
SSSFHK315V	315	315	338	375	25	57	120	3.02
SSSFHK355V	355	355	376	435	30	60	120	4.3
SSSFHK400V	400	400	430	485	33	52	120	5.13
SSSFHK450V	450 - DN450	450	465	545	45	40	134	7.27
SSSFHK450VE	450 - DN500	450	517	585	45	40	134	8.6
SSSFHK500V	500	500	530	590	46	45	120	9.45
SSSFHK560V	560	560	618	690	50	36	130	13.2
SSSFHK630V	630	630	645	690	50	45	120	11.9
SSSFHK710V	710	710	737	801	52	35	128	17.8
SSSFHK800V	800	800	840	906	53	40	125	22.4
SSSFHK900V	900	900	944	1006	59	40	130	29.5
SSSFHK1000V	1000	1000	1047	1111	65	40	135	36.8
SSSFHK1200V	1200	1200	1245	1330	70	40	140	52.4

◊ Non Fusamatic branded.



**SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100**



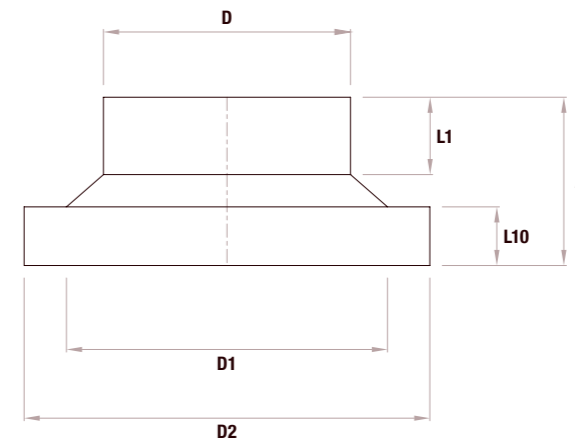
**1356/14-001**



STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 20 - 1200mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK20N	20	20	27	45	7	30	52	0.02
SSSFHK25N	25	25	33	58	9	27	53	0.04
SSSFHK32N	32	32	40	68	10	28	52	0.05
SSSFHK40N	40	40	50	78	11	25	51	0.07
SSSFHK50N	50	50	61	88	12	30	56	0.1
SSSFHK63N	63	63	75	102	14	23	60	0.16
SSSFHK75N	75	75	89	122	16	25	67	0.24
SSSFHK90N	90	90	105	138	17	26	70	0.31
SSSFHK110N	110	110	125	158	18	25	74	0.46
SSSFHK125N	125	125	132	158	25	31	71	0.5
SSSFHK140N	140	140	155	188	25	30	86	0.56
SSSFHK160N	160	160	175	212	25	25	84	1.01
SSSFHK180N	180	180	180	212	30	34	97	1.28
SSSFHK200N	200	200	232	268	32	50	120	2.08
SSSFHK225N	225	225	238	268	32	53	120	2.13
SSSFHK250N	250	250	288	320	35	45	120	3.22
SSSFHK280N	280	280	288	320	35	46	120	3.17
SSSFHK315N	315	315	338	375	35	47	120	4.38
SSSFHK355N	355	355	376	435	45	45	120	6.1
SSSFHK400N	400	400	430	485	50	40	124	8.87
SSSFHK450N	450 - DN450	450	465	545	66	40	140	9.47
SSSFHK450NE	450 - DN500	450	517	585	65	40	160	12.38
SSSFHK500N	500	500	530	590	60	40	134	13.49
SSSFHK560N	560	560	618	690	80	43	180	19.89
SSSFHK630N	630	630	645	690	65	45	140	18.24
SSSFHK710N	710	710	737	800	75	35	150	27.68
SSSFHK800N	800	800	840	905	80	30	150	35.68
SSSFHK900N	900	900	944	1006	90	28	158	46.61
SSSFHK1000N	1000	1000	1047	1110	95	20	190	67.3
SSSFHK1200N	1200	1200	1245	1330	110	30	215	108.68

◊ Non Fusamatic branded.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

**SDR 9  
WATER PN 20  
PE100**



**1256/24-001**



STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 280 - 500mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK280R	280	280	291	320	42	66	138	4
SSSFHK315R	315	315	335	370	47	77	155	6
SSSFHK355R	355	355	373	430	53	52	146	7.21
SSSFHK400R	400	400	427	482	60	33	133	9.5
SSSFHK450RE	450 - DN500	450	514	658	67	60	160	16.29
SSSFHK500R	500	500	530	616	61	65	147	18.2

**SDR 7.4  
WATER PN 25  
PE100**



**1256/22-001**



STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 280 - 500mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK280T	280	280	291	320	42	66	138	4.35
SSSFHK315T	315	315	335	370	47	77	155	7.47
SSSFHK355T	355	355	373	430	53	52	146	8.31
SSSFHK400T	400	400	427	482	60	33	133	9.72
SSSFHK450TE	450 - DN500	450	514	658	67	60	160	19.72
SSSFHK500T	500	500	530	616	74	60	155	20.4

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# CHAMFERED STUB FLANGE ADAPTOR

## SHORT SPIGOT

Ø 200 - 1000mm

SDR RANGE 17 / 11

Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



### Applications

● Gas
 ● Water
 ● Wastewater
 ● Irrigation
 ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted. Suitable for butterfly valves

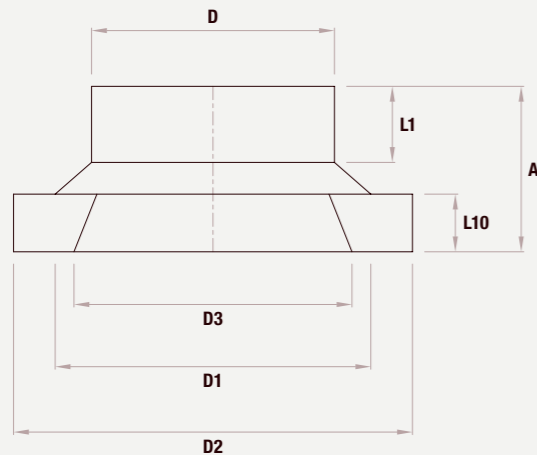
**Chamfered design:** Inside face of the flange adaptor is chamfered to enable rotation off butterfly discs

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.



### Designed and manufactured to

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Accessories	Page
Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 GAS 6 BAR PE100



1356/12-001



### CHAMFERED STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 200 - 1000mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK200VBF	200	200	230	268	208	24	57	120	1.42
SSSFHK225VBF	225	225	238	268	208	24	61	120	1.52
SSSFHK250VBF	250	250	228	320	260	25	55	120	1.9
SSSFHK280VBF	280	280	288	320	260	25	56	120	2.23
SSSFHK315VBF	315	315	338	375	305	25	57	120	2.85
SSSFHK355VBF	355	355	376	435	350	30	60	120	3.98
SSSFHK400VBF	400	400	430	485	396	33	52	120	3.98
SSSFHK450VBF	450-DN450	450	465	545	442	45	40	134	6.56
SSSFHK450VBF	450-DN500	450	517	585	485	45	40	134	8.6
SSSFHK500VBF	500	500	530	590	497	46	45	120	7.84
SSSFHK560VBF	560	560	618	690	580	50	36	130	11.28
SSSFHK630VBF	630	630	645	690	585	50	45	120	11.07
SSSFHK710VBF	710	710	740	800	670	50	40	130	15.64
SSSFHK800VBF	800	800	843	905	780	60	45	140	20.84
SSSFHK900VBF	900	900	947	1005	884	60	45	150	25.95
SSSFHK1000VBF	1000	1000	1050	1112	972	65	45	165	34.88

## SDR 11 WATER PN 16 GAS 10 BAR PE100



1356/10-001



### CHAMFERED STUB FLANGE ADAPTOR / SHORT SPIGOT / Ø 200 - 710mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	D3 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK200NBF	200	200	232	268	208	32	50	120	1.84
SSSFHK225NBF	225	225	238	268	208	32	53	120	2.01
SSSFHK250NBF	250	250	288	320	260	35	45	120	2.64
SSSFHK280NBF	280	280	288	320	260	35	46	120	2.99
SSSFHK315NBF	315	315	338	375	305	35	47	120	3.86
SSSFHK355NBF	355	355	376	435	345	45	45	120	5.59
SSSFHK400NBF	400	400	430	485	396	50	40	124	7.64
SSSFHK450NBF	450-DN450	450	465	545	442	66	40	140	10.08
SSSFHK450NBF	450-DN500	450	517	585	480	65	40	160	13
SSSFHK500NBF	500	500	530	590	494	60	40	134	11.31
SSSFHK560NBF	560	560	618	690	580	80	43	180	20.57
SSSFHK630NBF	630	630	645	690	576	65	45	140	16.45
SSSFHK710NBF	710	710	740	800	663	75	40	154	22.35

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# STUB FLANGE ADAPTOR

**SHORT SPIGOT AUSTRALIAN DESIGN**  
**Ø 560 - 630mm**  
 SDR RANGE 17/11



Fusion's range of spigot fittings allows for complicated yet high performance polyethylene pipeline systems.



## Applications

- Gas
- Water
- Wastewater
- Irrigation
- Mining

## Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Short spigot design, suitable for butt fusion jointing, fabrications and where space is restricted

**Australian design:** Geometry of flanges specially designed for wider comparability with Australian flange specifications

**Temperature range:** -10°C to +40°C

**Butt fusion jointing temperature:** +5°C to +40°C

**Brand:** Fusamatic branded

We reserve the right to supply non-Fusamatic branded spigot fittings dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Accessories	Page
Flange	172
Full face gasket	180
Automatic butt fusion machine	248
Pipe cutters	279 / 280
Pipe scrapers	264 / 279
Pipe alignment and rerounding clamps	266
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 17 WATER PN 10 GAS 6 BAR PE100



1356/09-001



STUB FLANGE ADAPTOR / SHORT SPIGOT / AUSTRALIAN DESIGN / Ø 560 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK560VA	560	560	580	654	80	43	180	11.21
SSSFHK630VA	630	630	650	710	50	45	120	12.39

## SDR 11 WATER PN 16 GAS 10 BAR PE100

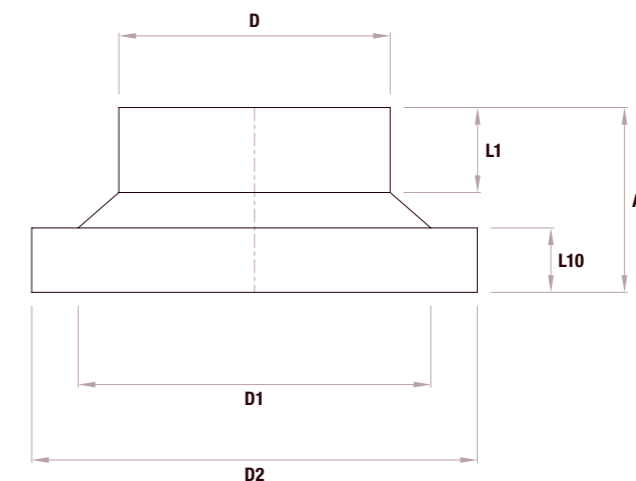


1356/08-001



STUB FLANGE ADAPTOR / SHORT SPIGOT / AUSTRALIAN DESIGN / Ø 560 - 630mm

Reference code	Fitting size mm	D mm	D1 mm	D2 mm	L10 mm	L1 mm	A mm	Theoretical weight/kg
SSSFHK560NA	560	560	580	654	80	43	180	17.4
SSSFHK630NA	630	630	650	710	65	45	140	20.07



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# FLANGE

POLYPROPYLENE  
WITH STEEL CORE

EN 1092-1 NP10/16

Ø 20 - 630mm

Ø DN15 - 600

ANSI B16.5 CLASS 150

Ø 20 - 400mm

Ø DN15 - 400



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

Drilling patterns: EN 1092-1/ANSI B16.5 C150

Material: Polypropylene with steel core  
Manufactured using PP 30% glass-fibre reinforced  
UV resistant – suitable for outdoor use

PN Range: 10/16/Class 150

Brand: Non Fusamatic branded

## Connecting dimensions EN 1092-1

EN 1092

ISO 7005

BS 4504

DIN 2501

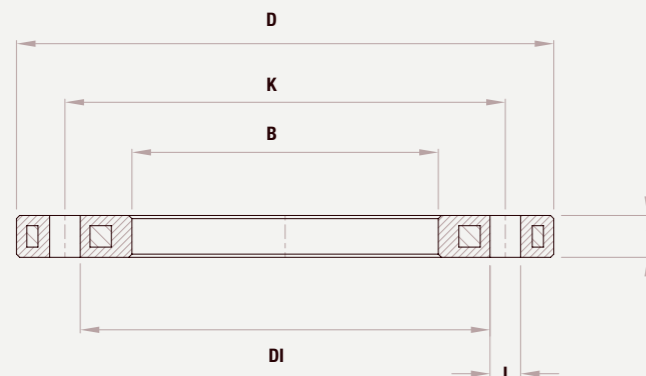
## Connecting dimensions ANSI B16.5 C150

ANSI ASME B16.5 Class 150

ASTM D4024

BS EN 1759

Note: Always check compatibility and fit with HDPE stub flange adaptor.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## PN 16 EN 1092-1 DRILLING PATTERN



1258/10-001



FLANGE / POLYPROPYLENE WITH STEEL CORE / EN 1092-1 DRILLING PATTERN / Ø 20 - 630mm / Ø DN15 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
PBR020X015NP16	20x15	20	15	95	28	65	12	4	51	14	M12	0.23
PBR025X020NP16	25x20	25	20	105	34	75	12	4	61	14	M12	0.29
PBR032X025NP16	32x25	32	25	115	42	85	16	4	71	14	M12	0.54
PBR040X032NP16	40x32	40	32	140	51	100	16	4	82	18	M16	0.84
PBR050X040NP16	50x40	50	40	150	62	110	18	4	92	18	M16	0.9
PBR063X050NP16	63x50	63	50	165	78	125	18	4	107	18	M16	1.07
PBR075X065NP16	75x65	75	65	188	92	145	18	4	127	18	M16	1.37
PBR090X080NP16	90x80	90	80	204	108	160	20	8	142	18	M16	1.52
PBR110X100NP16	110x100	110	100	224	128	180	20	8	162	18	M16	1.96
PBR125X100NP16	125x100	125	100	224	135	180	20	8	162	18	M16	1.94
PBR140X125NP16	140x125	140	125	252	158	210	24	8	192	18	M16	2.87
PBR160X150NP16	160x150	160	150	285	178	240	24	8	218	22	M20	3.58
PBR180X150NP16	180x150	180	150	285	188	240	24	8	218	22	M20	3.3
PBR200X200NP16	200x200	200	200	340	235	295	27	12	273	22	M20	5.03
PBR225X200NP16	225x200	225	200	340	238	295	27	12	273	22	M20	4.9
PBR250X250NP16	250x250	250	250	419	288	355	32	12	329	26	M24	10.18
PBR280X250NP16	280x250	280	250	419	294	355	32	12	329	26	M24	9.86
PBR315X300NP16	315x300	315	300	478	338	410	34	12	384	26	M24	13.15
PBR355X350NP16	355x350	355	350	532	376	470	42	16	444	26	M24	22.2
PBR400X400NP16	400x400	400	400	592	430	525	46	16	495	30	M27	26.21
PBR450X500NP16	450x500	450	500	715	517	650	46	20	617	33	M30	63.2
PBR500X500NP16	500x500	500	500	715	533	650	46	20	617	33	M30	58.4
PBR560X600NP16	560x600	560	600	840	618	770	55	20	734	36	M33	101.2
PBR630X600NP16	630x600	630	600	840	645	770	55	20	734	36	M33	89.6

## PN 10 EN 1092-1 DRILLING PATTERN



1258/05-001



FLANGE / POLYPROPYLENE WITH STEEL CORE / EN 1092-1 DRILLING PATTERN / Ø 200 - 630mm / Ø DN200 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
PBR200X200NP10	200x200	200	200	340	235	295	27	8	273	22	M20	5.32
PBR225X200NP10	225x200	225	200	340	238	295	27	8	273	22	M20	5.5
PBR250X250NP10	250x250	250	250	395	288	350	30	12	328	22	M20	6.96
PBR280X250NP10	280x250	280	250	395	294	350	30	12	328	22	M20	7.09
PBR315X300NP10	315x300	315	300	445	338	400	34	12	378	22	M20	9.43
PBR355X350NP10	355x350	355	350	505	376	460	40	16	438	22	M20	19.29
PBR400X400NP10	400x400	400	400	565	430	515	40	16	489	26	M24	21.37
PBR450X450NP10	450x450	450	450	615	470	565	45	20	594	26	M24	27.95
PBR450X500NP10	450x500	450	500	678	517	620	45	20	594	26	M24	25.2
PBR500X500NP10	500x500	500	500	670	533	620	45	20	594	26	M24	34
PBR560X600NP10	560x600	560	600	780	618	725	50	20	695	30	M27	49
PBR630X600NP10	630x600	630	600	780	645	725	50	20	695	30	M27	40

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

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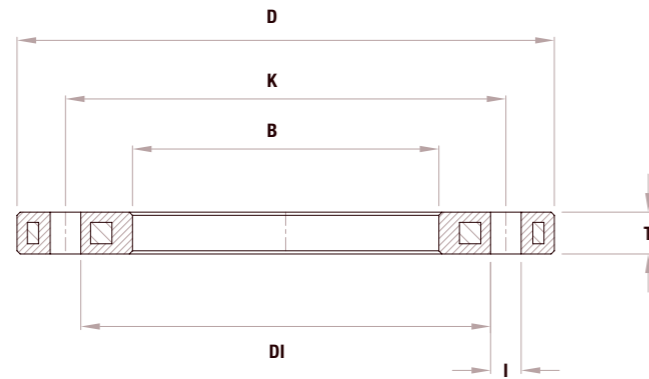
# ANSI B16.5 C150 DRILLING PATTERN

1258/15-001



FLANGE / POLYPROPYLENE WITH STEEL CORE / C150 DRILLING PATTERN / Ø 20-400mm / Ø DN15-400

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
PBR020X015A	20x15	20	15	95	28	60.5	12	4	44.5	16	M12	0.2
PBR025X020A	25x20	25	20	102	34	69.9	12	4	53.9	16	M12	0.02
PBR032X025A	32x25	32	25	114	42	79.3	16	4	63.3	16	M12	0.49
PBR040X032A	40x32	40	32	130	51	88.9	16	4	72.9	16	M12	0.67
PBR050X040A	50x40	50	40	133	62	98.6	18	4	82.6	16	M12	0.64
PBR063X050A	63x50	63	50	165	78	120.6	18	4	100.6	20	M16	1.02
PBR075X065A	75x65	75	65	184	92	139.7	18	4	119.7	20	M16	1.31
PBR090X080A	90x80	90	80	194	111	152.4	20	4	132.4	20	M16	1.47
PBR110X100A	110x100	110	100	229	133	190.5	20	8	170.5	20	M16	1.95
PBR160X150A	160x150	160	150	283	178	241.3	24	8	219.3	22	M20	3.75
PBR180X150A	180x150	180	150	285	188	241.3	24	8	219.3	22	M20	3.3
PBR200X200A	200x200	200	200	345	236	298.5	27	8	276.5	22	M20	6.04
PBR250X250A	250x250	250	250	412	288	361.9	32	12	329.9	32	M22	9.74
PBR315X300A	315x300	315	300	487	338	431.8	32	12	406.8	25	M22	15.38
PBR355X350A	355x350	355	350	533	376	476.2	42	12	447.7	28.5	M27	24.94
PBR400X400A	400x400	400	400	596	430	539.7	44	16	511.2	28.5	M27	34.77



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

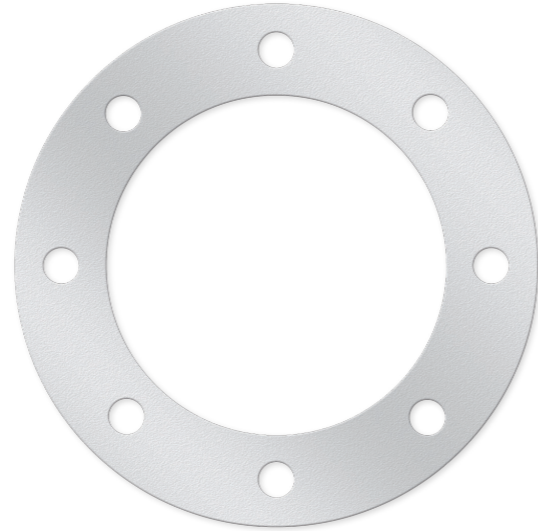
# FLANGE

## GALVANISED STEEL

EN 1092-1 NP10/16  
 Ø 20 - 630mm  
 Ø DN15 - 600

## STAINLESS STEEL

EN 1092-1 NP10/16  
 Ø 20 - 630mm  
 Ø DN15 - 600



### Applications

- Gas
- Water
- Wastewater
- Irrigation
- Mining

### Product information

Drilling patterns: EN 1092-1

**Material:** Galvanised Steel S235JR (other grades may be used depending on supply availability)  
 Manufactured using Steel Hot Dipped Galvanised to BS EN ISO 1461  
 Stainless Steel G316/316L

PN Range: 10/16

Brand: Non Fusamatic branded

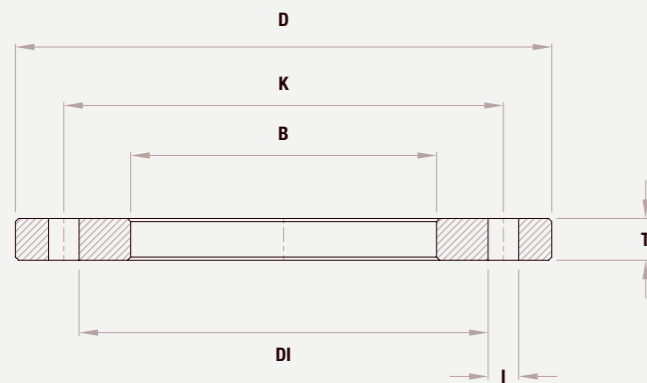
### Connecting dimensions EN 1092-1

EN 1092

Note: Always check compatibility and fit with HDPE stub flange adaptor.

### Optional

Rilsan and other coatings available upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## GALVANISED STEEL PN 16 EN 1092-1 DRILLING PATTERN



1258/25-001



FLANGE / GALVANISED / EN 1092-1 DRILLING PATTERN / Ø 20 - 630mm / Ø DN15 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
GBR020X015NP16	20x15	20	15	95	28	65	8	4	51	14	M12	0.35
GBR025X020NP16	25x20	25	20	105	34	75	8	4	61	14	M12	0.39
GBR032X025NP16	32x25	32	25	115	42	85	8	4	71	14	M12	0.46
GBR040X032NP16	40x32	40	32	140	51	100	8	4	82	18	M16	0.55
GBR050X040NP16	50x40	50	40	150	62	110	8	4	92	18	M16	0.86
GBR063X050NP16	63x50	63	50	165	78	125	8	4	107	18	M16	1.04
GBR075X065NP16	75x65	75	65	185	92	145	8	4	127	18	M16	0.98
GBR090X080NP16	90x80	90	80	200	108	160	8	8	142	18	M16	1.38
GBR110X100NP16	110x100	110	100	220	128	180	8	8	162	18	M16	1.45
GBR125X100NP16	125x100	125	100	220	133	180	8	8	162	18	M16	1.39
GBR140X125NP16	140x125	140	125	250	158	210	10	8	192	18	M16	3.78
GBR160X150NP16	160x150	160	150	285	178	240	10	8	218	22	M20	2.82
GBR180X150NP16	180x150	180	150	285	188	240	10	8	218	22	M20	2.59
GBR200X200NP16	200x200	200	200	340	235	295	10	12	273	22	M20	4.04
GBR225X200NP16	225x200	225	200	340	238	295	10	12	273	22	M20	3.28
GBR250X250NP16	250x250	250	250	405	288	355	15	12	329	26	M24	6.75
GBR280X250NP16	280x250	280	250	405	294	355	15	12	329	26	M24	6.43
GBR315X300NP16	315x300	315	300	460	338	410	20	12	384	26	M24	11
GBR355X350NP16	355x350	355	350	520	376	470	20	16	444	26	M24	14.58
GBR400X400NP16	400x400	400	400	580	430	525	25	16	495	30	M27	21.13
GBR450X450NP16	450x450	450	450	640	465	585	25	20	555	30	M27	27.46
GBR450X500NP16	450x500	450	500	715	517	650	25	20	617	33	M30	34.38
GBR500X500NP16	500x500	500	500	715	533	650	25	20	617	33	M30	31.07
GBR560X600NP16	560x600	560	600	840	618	770	25	20	734	36	M33	45.7
GBR630X600NP16	630x600	630	600	840	645	770	25	20	734	36	M33	40.25

## GALVANISED STEEL PN 10 EN 1092-1 DRILLING PATTERN



1258/20-001



FLANGE / GALVANISED / EN 1092-1 DRILLING PATTERN / Ø 200 - 630mm / Ø DN200 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
GBR200X200NP10	200x200	200	200	340	235	295	10	8	273	22	M20	3.48
GBR225X200NP10	225x200	225	200	340	238	295	10	8	273	22	M20	3.4
GBR250X250NP10	250x250	250	250	395	288	350	15	12	328	22	M20	6.22
GBR280X250NP10	280x250	280	250	395	294	350	15	12	328	22	M20	5.9
GBR315X300NP10	315x300	315	300	445	338	400	20	12	378	22	M20	9.61
GBR355X350NP10	355x350	355	350	505	376	460	20	16	438	22	M20	13.06
GBR400X400NP10	400x400	400	400	565	430	515	25	16	489	26	M24	19.03
GBR450X450NP10	450x450	450	450	615	465	565	25	20	539	26	M24	22.83
GBR450X500NP10	450x500	450	500	670	517	620	25	20	594	26	M24	25.91
GBR500X500NP10	500x500	500	500	670	533	620	25	20	594	26	M24	23.32
GBR560X600NP10	560x600	560	600	780	618	725	25	20	695	30	M27	32.13
GBR630X600NP10	630x600	630	600	780	645	725	25	20	695	30	M27	26.87

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued



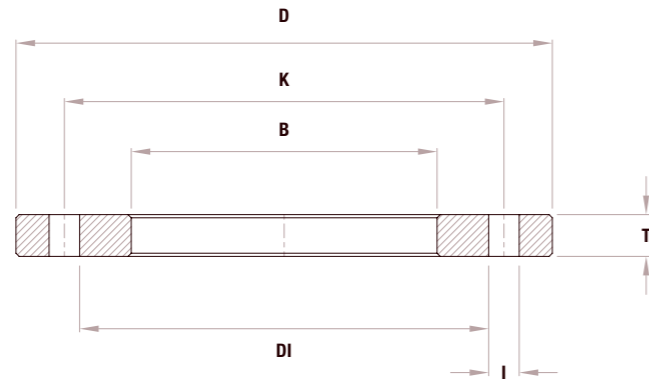
**STAINLESS STEEL  
PN 16  
EN 1092-1 DRILLING PATTERN**

**1258/55-001**



FLANGE / STAINLESS STEEL / EN 1092-1 DRILLING PATTERN / Ø 20 - 630mm / Ø DN15 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
SBR020X015NP16	20x15	20	15	95	28	65	8	4	51	14	M12	0.32
SBR025X020NP16	25x20	25	20	105	34	75	8	4	61	14	M12	0.35
SBR032X025NP16	32x25	32	25	115	42	85	8	4	71	14	M12	0.39
SBR040X032NP16	40x32	40	32	140	51	100	8	4	82	18	M16	0.46
SBR050X040NP16	50x40	50	40	150	62	110	8	4	92	18	M16	0.55
SBR063X050NP16	63x50	63	50	165	78	125	8	8	107	18	M16	0.86
SBR075X065NP16	75x65	75	65	185	92	145	8	4	127	18	M16	0.98
SBR090X080NP16	90x80	90	80	200	108	160	8	8	142	18	M16	1.38
SBR110X100NP16	110x100	110	100	220	128	180	8	8	162	18	M16	1.45
SBR125X100NP16	125x100	125	100	220	133	180	8	8	162	18	M16	1.39
SBR140X125NP16	140x125	140	125	250	158	210	10	8	192	18	M16	3.78
SBR160X150NP16	160x150	160	150	285	178	240	10	8	218	22	M20	2.82
SBR180X150NP16	180x150	180	150	285	188	240	10	8	218	22	M20	2.59
SBR200X200NP16	200x200	200	200	340	235	295	10	12	273	22	M20	4.04
SBR225X200NP16	225x200	225	200	340	238	295	10	12	273	22	M20	3.28
SBR250X250NP16	250x250	250	250	405	288	355	15	12	329	26	M24	6.75
SBR280X250NP16	280x250	280	250	405	294	355	15	12	329	26	M24	6.43
SBR315X300NP16	315x300	315	300	460	338	410	20	12	384	26	M24	11
SBR355X350NP16	355x350	355	350	520	376	470	20	16	444	26	M24	14.58
SBR400X400NP16	400x400	400	400	580	430	525	25	16	495	30	M27	21.13
SBR450X450NP16	450x450	450	450	640	465	585	25	20	555	30	M27	27.46
SBR450X500NP16	450x500	450	500	715	517	650	25	20	617	33	M30	34.38
SBR500X500NP16	500x500	500	500	715	533	650	25	20	617	33	M30	31.07
SBR560X600NP16	560x600	560	600	840	618	770	25	20	734	36	M33	45.7
SBR630X600NP16	630x600	630	600	840	645	770	25	20	734	36	M33	40.25



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

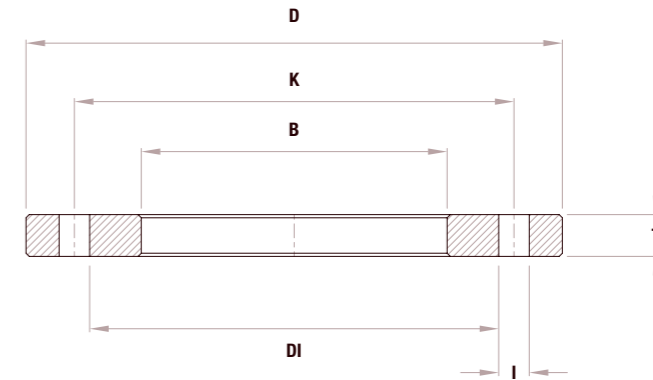
**STAINLESS STEEL  
PN 10  
EN 1092-1 DRILLING PATTERN**

**1258/50-001**



FLANGE / STAINLESS STEEL / EN 1092-1 DRILLING PATTERN / Ø 200 - 630mm / Ø DN200 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	T mm	Number of holes	DI	I	Bolt Size (Metric)	Theoretical weight/kg
SBR200X200NP10	200x200	200	200	340	235	295	10	8	273	22	M20	3.48
SBR225X200NP10	225x200	225	200	340	238	295	10	8	273	22	M20	3.4
SBR250X250NP10	250x250	250	250	395	288	350	15	12	328	22	M20	6.22
SBR280X250NP10	280x250	280	250	395	294	350	15	12	328	22	M20	5.9
SBR315X300NP10	315x300	315	300	445	338	400	20	12	378	22	M20	9.61
SBR355X350NP10	355x350	355	350	505	376	460	20	16	438	22	M20	13.06
SBR400X400NP10	400x400	400	400	565	430	515	25	16	489	26	M24	19.03
SBR450X450NP10	450x450	450	450	615	465	565	25	20	539	26	M24	22.83
SBR450X500NP10	450x500	450	500	670	517	620	25	20	594	26	M24	25.91
SBR500X500NP10	500x500	500	500	670	533	620	25	20	594	26	M24	23.32
SBR560X600NP10	560x600	560	600	780	618	725	30	20	695	30	M27	32.13
SBR630X600NP10	630x600	630	600	780	645	725	25	20	695	30	M27	26.87

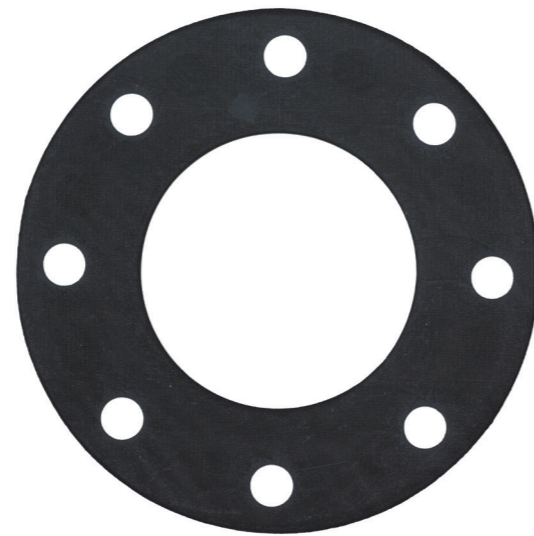


Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# FULL FACE GASKET

EDPM - PN 16  
 Ø 20 - 630mm  
 Ø DN15 - 600

EDPM - PN 10  
 Ø 200 - 630mm  
 Ø DN200 - 600



## Applications

- Water
- Wastewater
- Irrigation
- Mining

## Product information

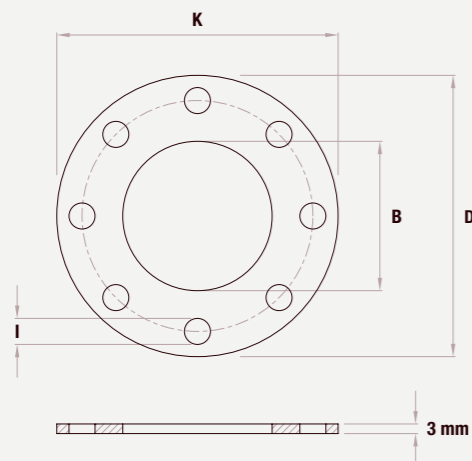
**Drilling pattern:** EN 1092-1

**Material:** EDPM - Water. Material in accordance to BS6920 + WRAS approved

**PN Range:** 10/16

**Brand:** Non Fusamatic branded

State any specification details when ordering - Dimensions may vary depending upon availability.



## Connecting dimensions EN 1092-1

EN 1092

Note: Always check compatibility and fit with HDPE stub flange adaptor.

## Optional

Profiled, aramid, PTFE, metallic/semi-metallic available upon request.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.

## PN 16 EDPM WATER EN 1092-1 DRILLING PATTERN



1261/35-001



FULL FACE GASKET / EDPM - PN 16 / Ø 20 - 630mm / Ø DN15 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	I mm	Number of holes	Theoretical weight/kg
GFF20X15PN16W	20x15	20	15	95	22	65	14	4	0.2
GFF25X20PN16W	25x20	25	20	105	27	75	14	4	0.2
GFF32X25PN16W	32x25	32	25	115	34	85	14	4	0.2
GFF40X32PN16W	40x32	40	32	140	43	100	18	4	0.2
GFF50X40PN16W	50x40	50	40	150	49	110	18	4	0.2
GFF63X50PN16W	63x50	63	50	165	53	125	18	4	0.2
GFF75X65PN16W	75x65	75	65	185	65	145	18	4	0.2
GFF90X80PN16W	90x80	90	80	200	82	160	18	8	0.2
GFF110X100PN16W	110x100	110	100	220	100	180	18	8	0.4
GFF125X100PN16W	125x100	125	100	220	115	180	18	8	0.4
GFF140X125PN16W	140x125	140	125	250	125	210	18	8	0.4
GFF160X150PN16W	160x150	160	150	285	150	240	22	8	0.4
GFF180X150PN16W	180x150	180	150	285	150	240	22	8	0.4
GFF200X200PN16W	200x200	200	200	340	178	295	22	12	0.4
GFF225X200PN16W	225x200	225	200	340	200	295	22	12	0.4
GFF250X250PN16W	250x250	250	250	405	215	355	26	12	0.4
GFF280X250PN16W	280x250	280	250	405	250	355	26	12	0.4
GFF315X300PN16W	315x300	315	300	460	268	410	26	12	0.4
GFF355X350PN16W	355x350	355	350	520	304	470	26	16	0.4
GFF400X400PN16W	400x400	400	400	580	352	525	30	16	0.5
GFF450X450PN16W	450x450	450	450	640	398	585	30	20	0.5
GFF450X500PN16W	450x500	450	500	710	398	650	33	20	0.5
GFF500X500PN16W	500x500	500	500	715	440	650	33	20	0.5
GFF560X600PN16W	560x600	560	600	835	492	770	36	20	0.5
GFF630X600PN16W	630x600	630	600	835	540	770	36	20	0.5

## PN 10 EDPM WATER EN 1092-1 DRILLING PATTERN



1261/30-001



FULL FACE GASKET / EDPM - PN 10 / Ø 200 - 630mm / Ø DN200 - 600

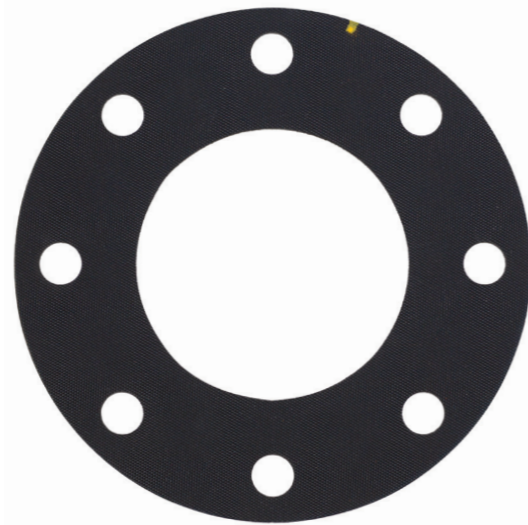
Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	I mm	Number of holes	Theoretical weight/kg
GFF200X200PN10W	200x200	200	200	340	178	295	22	8	0.4
GFF225X200PN10W	225x200	225	200	340	200	295	22	8	0.4
GFF250X250PN10W	250x250	250	250	395	216	350	22	12	0.4
GFF280X250PN10W	280x250	280	250	395	250	350	22	12	0.4
GFF315X300PN10W	315x300	315	300	445	268	400	22	12	0.4
GFF355X350PN10W	355x350	355	350	505	304	460	22	16	0.4
GFF400X400PN10W	400x400	400	400	565	352	515	26	16	0.5
GFF450X450PN10W	450x450	450	450	615	398	565	26	20	0.5
GFF450X500PN10W	450x500	450	500	670	398	620	26	20	0.5
GFF500X500PN10W	500x500	500	500	670	440	620	26	20	0.5
GFF560X600PN10W	560x600	560	600	780	492	725	30	20	0.5
GFF630X600PN10W	630x600	630	600	780	540	725	30	20	0.5

Only to be used for PE to PE connections to SDR11 and 17 Stub Flange Adaptors and where PE stub flanges / mechanical seals permitted on pipe network. Check that gasket size is compatible with pipe(s) and any other items being used, if in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# FULL FACE GASKET

NBR NITRILE - PN 16  
 Ø 20 - 630mm  
 Ø DN15 - 600

NBR NITRILE - PN 10  
 Ø 200 - 630mm  
 Ø DN200 - 600



## Applications

● Gas

## Product information

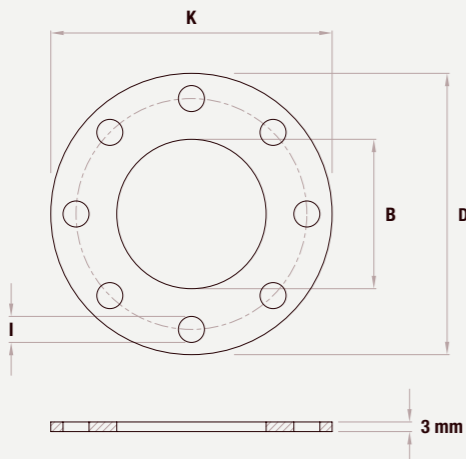
**Drilling pattern:** EN 1092-1

**Material:** NBR NITRILE - Gas (material in accordance to EN682)  
 Material in accordance to EN 682 suitable for elastomer seals in pipes and fittings carrying gas

**PN Range:** 10/16

**Brand:** Non Fusumatic branded

State any specification details when ordering - Dimensions may vary depending upon availability.



## Connecting dimensions EN 1092-1

EN 1092

Note: Always check compatibility and fit with HDPE stub flange adaptor.

## Optional

Profiled, aramid, PTFE, metallic/semi-metallic available upon request.

## PN 16 NBR NITRILE GAS EN 1092-1 DRILLING PATTERN

1261/36-001



FULL FACE GASKET / NBR NITRILE - PN 16 / Ø 20 - 630mm / Ø DN15 - 600

Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	I mm	Number of holes	Theoretical weight/kg
GFF20X15PN16G	20x15	20	15	95	22	65	14	4	0.2
GFF25X20PN16G	25x20	25	20	105	27	75	14	4	0.2
GFF32X25PN16G	32x25	32	25	115	34	85	14	4	0.2
GFF40X32PN16G	40x32	40	32	140	43	100	18	4	0.2
GFF50X40PN16G	50x40	50	40	150	49	110	18	4	0.2
GFF63X50PN16G	63x50	63	50	165	53	125	18	4	0.2
GFF75X65PN16G	75x65	75	65	185	65	145	18	4	0.2
GFF90X80PN16G	90x80	90	80	200	82	160	18	8	0.2
GFF110X100PN16G	110x100	110	100	220	100	180	18	8	0.4
GFF125X100PN16G	125x100	125	100	220	115	180	18	8	0.4
GFF140X125PN16G	140x125	140	125	250	125	210	18	8	0.4
GFF160X150PN16G	160x150	160	150	285	150	240	22	8	0.4
GFF180X150PN16G	180x150	180	150	285	150	240	22	8	0.4
GFF200X200PN16G	200x200	200	200	340	178	295	22	12	0.4
GFF225X200PN16G	225x200	225	200	340	200	295	22	12	0.4
GFF250X250PN16G	250x250	250	250	405	216	355	26	12	0.4
GFF280X250PN16G	280x250	280	250	405	250	355	26	12	0.4
GFF315X300PN16G	315x300	315	300	460	268	410	26	12	0.4
GASKFF300G	∅ 300	315	300	460	300	410	26	12	0.4
GFF355X350PN16G	355x350	355	350	520	304	470	26	16	0.4
GASKFF350G	∅ 350	355	350	520	350	470	26	16	0.4
GFF400X400PN16G	400x400	400	400	580	252	525	30	16	0.5
GASKFF400G	∅ 400	400	400	580	352	525	30	16	0.5
GFF450X450PN16G	450x450	450	450	640	398	585	30	20	0.5
GFF450X500PN16G	450x500	450	500	710	398	650	33	20	0.5
GFF500X500PN16G	500x500	500	500	715	440	650	33	20	0.5
GFF560X600PN16G	560x600	560	600	835	492	770	36	20	0.5
GFF630X600PN16G	630x600	630	600	835	540	770	36	20	0.5

∅ Full bore design.

## PN 10 NBR NITRILE GAS EN 1092-1 DRILLING PATTERN

1261/31-001



FULL FACE GASKET / NBR NITRILE - PN 10 / Ø 200 - 630mm / Ø DN200 - 600

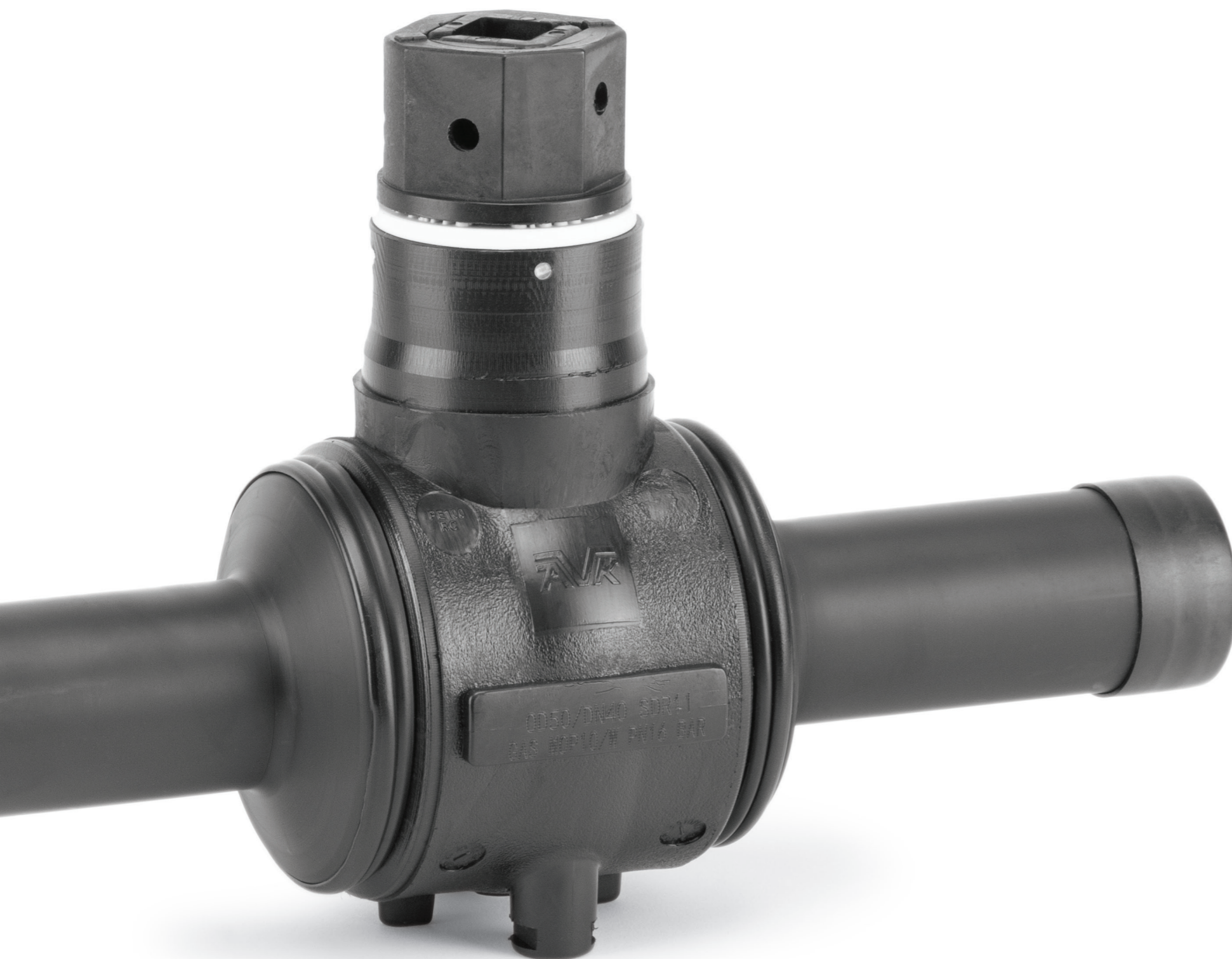
Reference code	Fitting size mm	Pipe diameter mm	DN mm	D mm	B mm	K mm	I mm	Number of holes	Theoretical weight/kg
GFF200X200PN10G	200x200	200	200	340	178	295	22	8	0.4
GFF225X200PN10G	225x200	225	200	340	200	295	22	8	0.4
GFF250X250PN10G	250x250	250	250	395	216	350	22	12	0.4
GFF280X250PN10G	280x250	280	250	395	250	350	22	12	0.4
GFF315X300PN10G	315x300	315	300	445	268	400	22	12	0.4
GFF355X350PN10G	355x350	355	350	505	304	460	22	16	0.4
GFF400X400PN10G	400x400	400	400	565	352	515	26	16	0.5
GFF450X450PN10G	450x450	450	450	615	398	565	26	20	0.5
GFF450X500PN10G	450x500	450	500	670	398	620	26	20	0.5
GFF500X500PN10G	500x500	500	500	670	440	620	26	20	0.5
GFF560X600PN10G	560x600	560	600	780	492	725	30	20	0.5
GFF630X600PN10G	630x600	630	600	780	540	725	30	20	0.5

Only to be used for PE to PE connections to SDR11 and 17 Stub Flange Adaptors and where PE stub flanges / mechanical seals permitted on pipe network. Check that gasket size is compatible with pipe(s) and any other items being used, if in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# POLYETHYLENE BALL VALVES

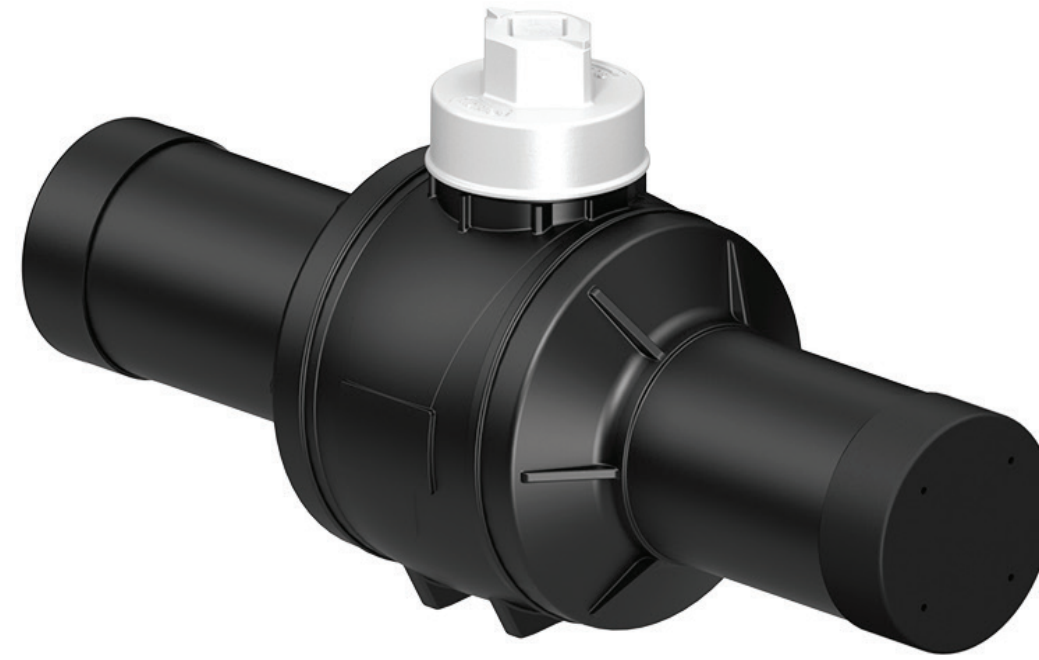
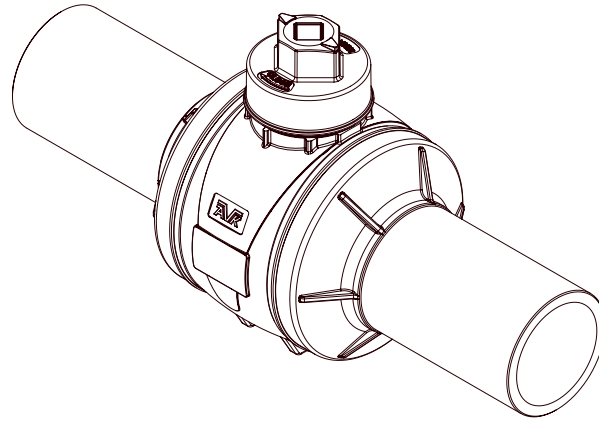


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# CERTUS PE BALL VALVE

Ø 20-180mm  
FUSIBLE ENDS  
FULL BORE ON ALL BODY SIZES



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Universal PE ball valve FUSION CERTUS for use in the isolation of water and gas on domestic, commercial and industrial premises.**

Made from high performance PE100 material our PE ball valves can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Minimum full bore for all sizes ensures limited pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Seat, ball and grease combination ensures low operating torques and avoids sticking over time

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Easy mounting of all standardised spindles due to internal and external drive

Overtorque protection and replaceable top cap under live conditions

Available with double spigot length allowing for two electrofusion joints

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Seat compression accurately set during automated welding process

All valves individually tested

Maintenance free design

Fully traceable components

Valve position indicator

Quarter turn operation

Designed for installation and operation below ground

Other SDR's available on request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

GIS/V7 Part 2

EN 1555-4

EN 12201-4

ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Page

Electrofusion fittings 5

Valve installation and access system 191

Square drive tee key 191

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 11 WATER PN 16 GAS 10 BAR PE100



CERTUS PE BALL VALVE / FUSIBLE ENDS / FULL BORE / Ø20-180mm

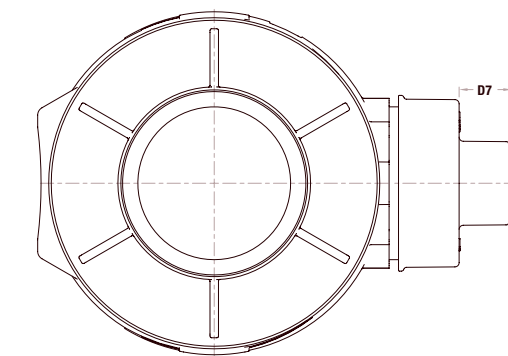
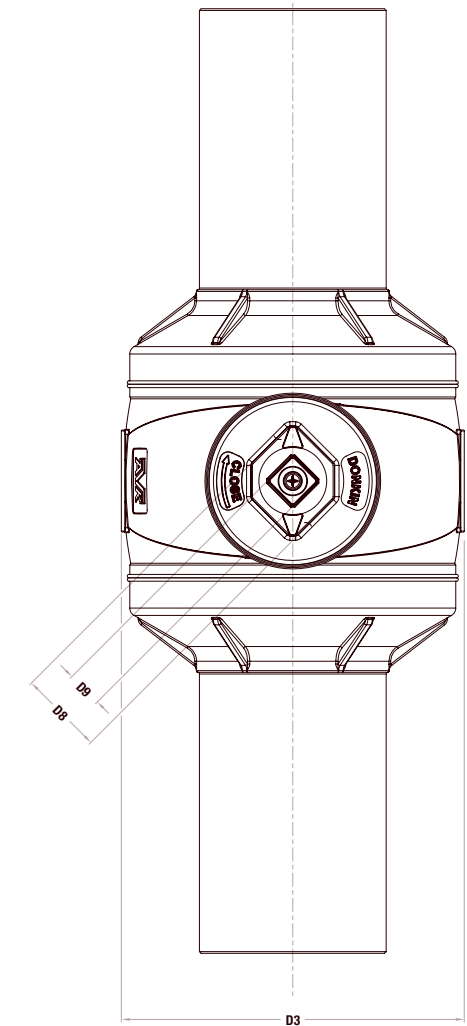
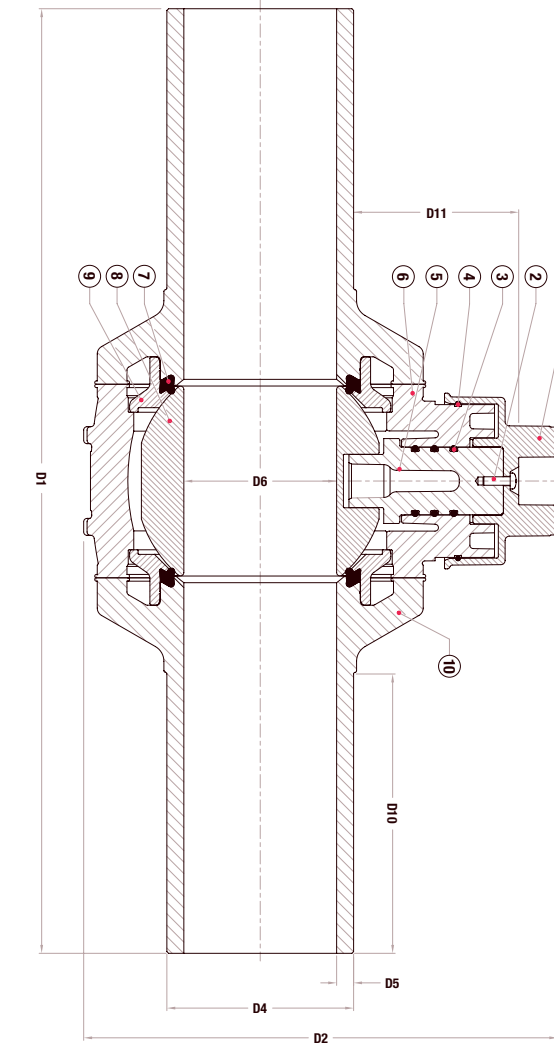
Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	D11 mm	Theoretical weight/kg
85-020-3025209006 †	20	26	305	155	95	3.0	46	49.6	20.0	82	76	0.8
85-032-3025209006 †	32	26	320	155	95	3.0	46	49.6	20.0	88	70	0.8
85-040-3015209006 Δ	40	26	340	155	95	3.7	46	49.6	20.0	98	66	0.9
85-063-3025209006 #	63	51	435	205	135	5.8	46	49.6	20.0	130	84	1.8
5-090-3025209006 †	90	74	520	285	180	8.2	46	49.6	20.0	158	123	3.8
85-110-3025209006 †	110	90	560	280	205	10.0	31	49.6	20.0	164	96	5.5
85-125-3015209006 #	125	90	585	280	205	11.4	31	49.6	20.0	182	89	5.9
85-160-3025209006 †	160	131	700	370	280	14.6	35	49.6	20.0	196	120	13.8
85-180-3015209006 #	180	131	735	370	280	16.4	35	49.6	20.0	220	110	14.4

# Sizes with Full Bore ID = > 80%

† Sizes with Clear Bore ID = 100%

Δ Bore DN25 – 78% Bore ID

85/30-003



Component list		
1	Top cap	PP GF
2	Screw	Stainless steel A4
3	O-ring	NBR
4	O-ring	NBR
5	Stem	POM
6	Body	PE 100
7	Ball seal	NBR
8	Ball	POM
9	Seat retainer	PE 100
10	Spigot	PE 100

Components may be substituted with equivalent or higher class materials without prior notification  
Component 8: PP for sizes OD110 and OD125

Operating torque range	
25-63mm	= 5-35 Nm
90-125mm	= 10-70 Nm
160-180mm	= 10-150 Nm

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together.  
Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# CERTUS PE BALL VALVE

VALVE INSTALLATION  
AND ACCESS SYSTEM  
Ø 20/25/32/63mm

To complement the Certus PE valves, various Installation and Access Kits are available, providing customers with flexible options, from valve-only purchases to comprehensive kits, ensuring high-quality and accessible solutions.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

Support base unit Type 1 to fit 20, 25, 32 and 63mm valves

Sturdy construction prevents surface forces acting on the service pipe

Orientates the valve vertically to ensure easy access with a Tee Key

Prevents ingress of material blocking spindle access from the surface

Makes installation easy and more consistent

Kit options can save real life costs of installation

Tee Keys designed specifically for PE valves

Installation kit available to suit diameters 32, 63 and 90mm Certus valves

Type 2 Support base unit to fit 90mm – available upon request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Optional

Available with or without surface box lid

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## VALVE INSTALLATION AND ACCESS SYSTEM

85/00-001



### CERTUS VALVE INSTALLATION AND ACCESS SYSTEM

Reference code	Description	Theoretical weight/kg
85999090	Installation Kit including surface box	2.6
85999091	Installation Kit without surface box	2.3

The designs, materials and specifications shown are subject to change without notice due to our continuing programme of product development.



Support base  
Type 1



DN 63mm  
Valve with base

DN 32mm  
Valve with base

## SQUARE DRIVE TEE KEY

85/00

50mm Square Drive Tee Key  
to suit Certus PE ball valves

### SQUARE DRIVE TEE KEY

Reference code	Length	Theoretical weight/kg
9642500002	750mm	1.5
9642500003	1000mm	2.2
9642500004	1500mm	3



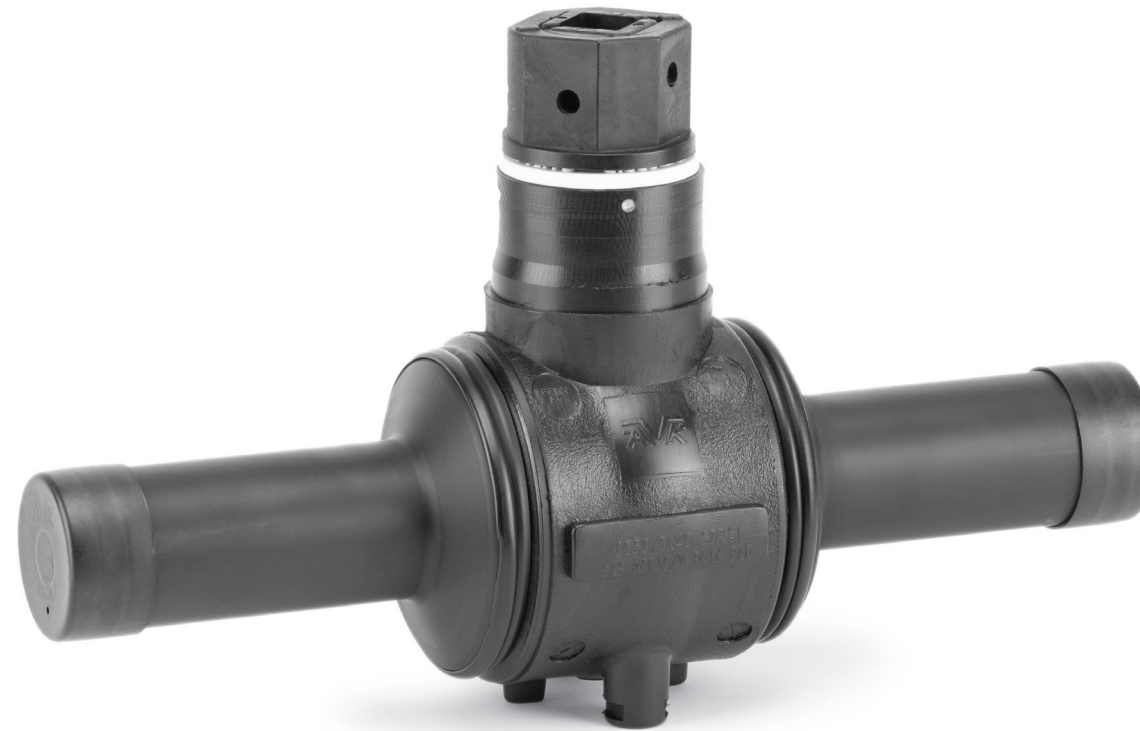
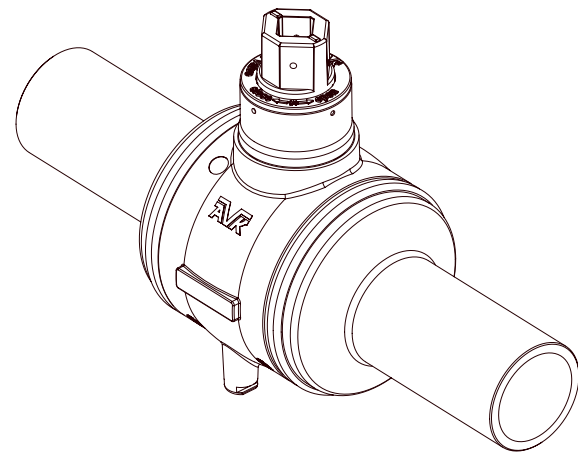
Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# MAGNUS PE BALL VALVE

Ø 25 - 180mm

FUSIBLE ENDS

FULL BORE ON ALL BODY SIZES



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Universal PE ball valve FUSION MAGNUS for use in the isolation of water and gas on domestic, commercial and industrial premises.**

Made from high performance PE100 material our PE ball valves can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Minimum full bore for all sizes ensures limited pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Robust design, suitable for most harsh environments

Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation

Seat, ball and grease combination ensuring low operating torques and avoids sticking over time

Selected ball material offering good scratch resistance

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Easy mounting of all standardised spindles due to internal and external drive

Overtorque protection and replaceable connector under live conditions

Available with double spigot length allowing for two electrofusion joints

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Seat compression of large sealing surfaces precisely set via separate pre-assembly

Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure

Other SDR's available on request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

GB 15558-3

EN 1555-4

EN 12201-4

ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Page

Electrofusion fittings

5

Stem extension

198

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 11 WATER PN 16 GAS 10 BAR PE100



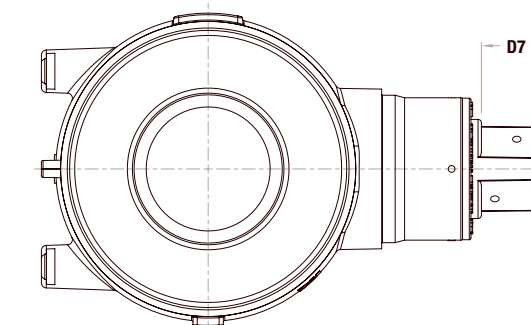
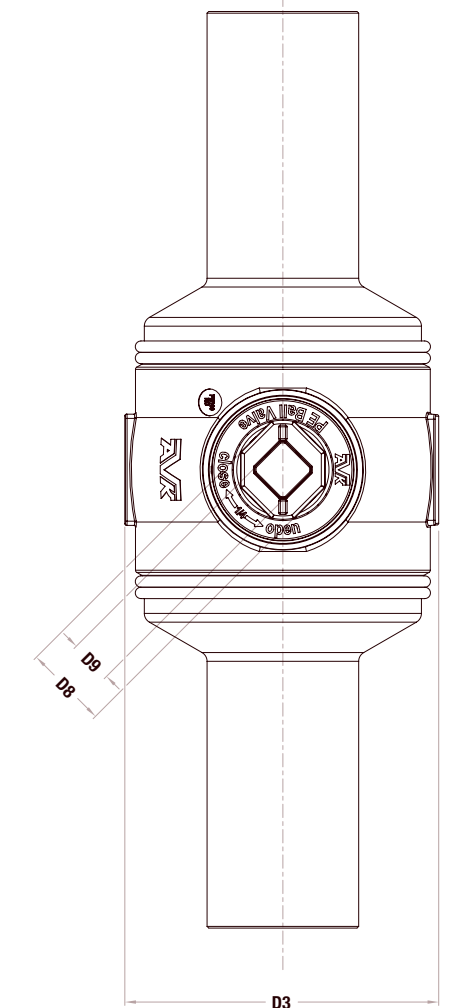
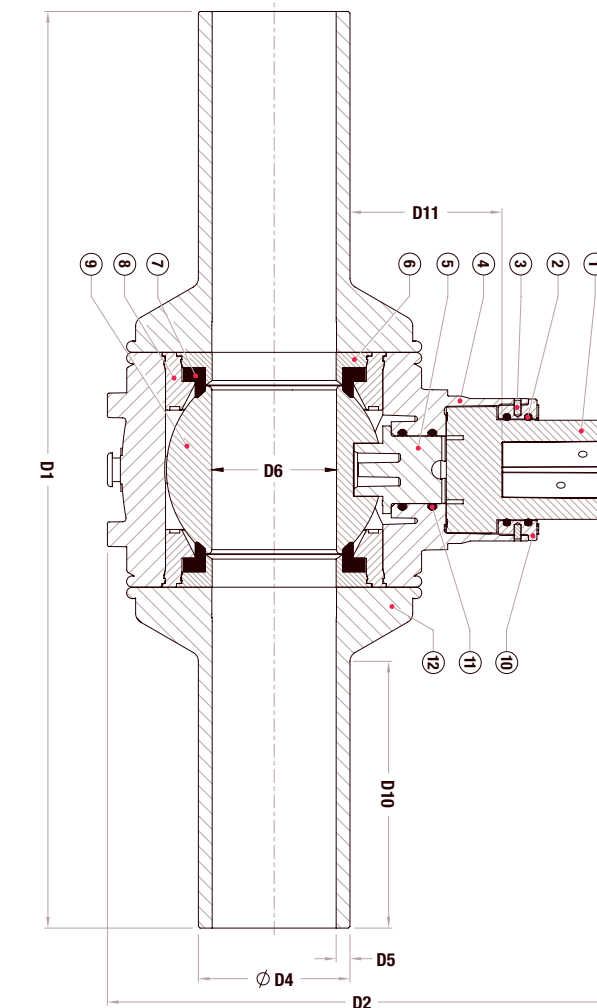
MAGNUS PE BALL VALVE / FUSIBLE ENDS / FULL BORE / Ø25 - 180mm

Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D9 mm	D10 mm	D11 mm	Theoretical weight/kg
85-025-5025204017 †	25	25	310	190	90	3.0	20.5	84	65	0.9
85-032-5015204017 #	32	25	320	190	90	3.0	20.5	90	62	0.9
85-040-5015204017 #	40	32	340	205	100	3.7	20.5	98	65	1.1
85-050-5015204017 #	50	40	365	220	115	4.6	20.5	111	65	1.4
85-063-5015204007 #	63	50	440	255	140	5.8	25.5	128	80	2.5
85-090-5025204007 †	90	74	545	300	185	8.2	25.5	158	90	5
85-110-5015204007 #	110	86	585	320	205	10.0	25.5	165	90	6.7
85-125-5015204007 #	125	86	595	320	205	11.4	25.5	176	80	7.2
85-160-5015204007 #	160	120	710	405	285	14.6	25.5	196	105	16.3
85-180-5015204007 #	180	120	725	405	285	16.4	25.5	210	95	17.3

# Sizes with Full Bore ID = > 80%

† Sizes with Clear Bore ID = 100%

85/50-013



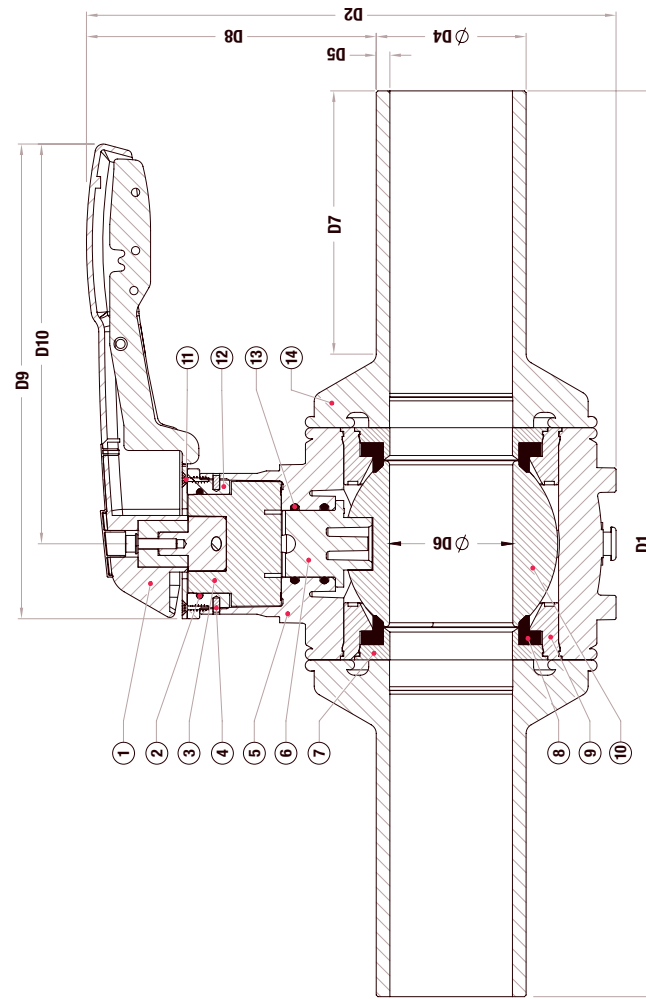
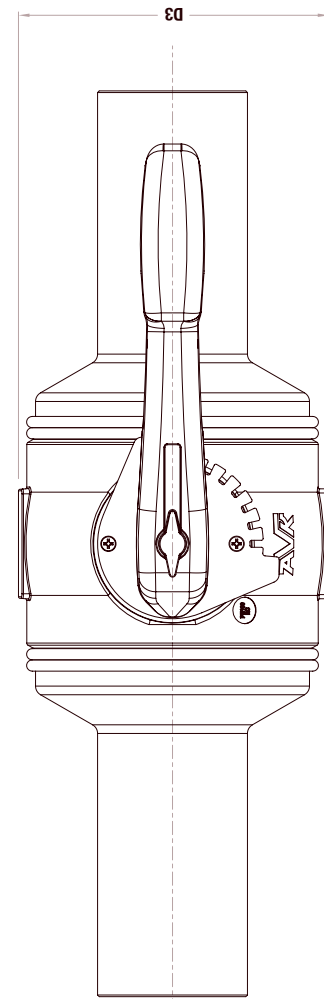
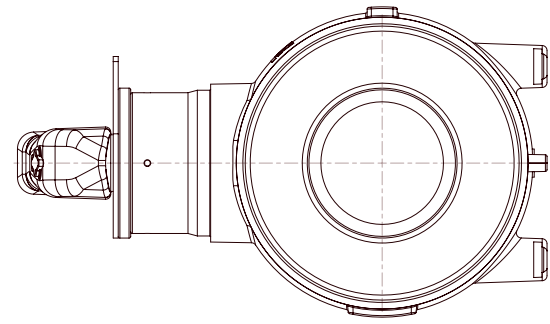
Component list	
1	Connector PA-GF
2	O-ring NBR
3	Lock pin PVC
4	Body PE 100-RC
5	Stem POM
6	Supporting ring PE 100-RC
7	Ball seat NBR
8	Seat retainer PE 100-RC
9	Ball POM
10	Bearing ring PA 6
11	O-ring NBR
12	Spigot PE 100-RC

Components may be substituted with equivalent or higher class materials without prior notification.

Operating torque range	
25-63mm	= 5-35 Nm
90-125mm	= 10-70 Nm
160-180mm	= 10-150 Nm

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

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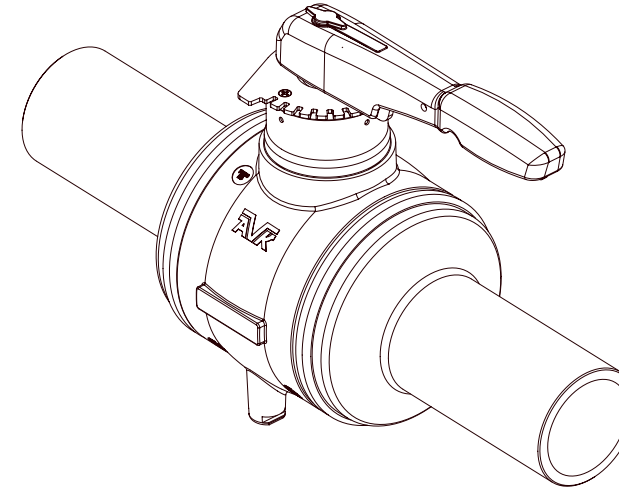
Component list	
1	Lever
2	O-ring
3	Connector
4	Lock pin
5	Body
6	Stem
7	Support ring
8	Ball seat
9	Seat retainer
10	Ball
11	PT Screw
12	Bearing ring
13	O-ring
14	Spigot

Components may be substituted with equivalent or higher class materials without prior notification.

Operating torque range	
25-63mm	= 5-35 Nm
90-125mm	= 10-70 Nm
160-180mm	= 10-150 Nm

# MAGNUS PE BALL VALVE

WITH LEVER  
Ø 25-180mm  
FUSIBLE ENDS  
FULL BORE ON ALL BODY SIZES



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Universal PE ball valve FUSION MAGNUS for use in the isolation of water and gas on domestic, commercial and industrial premises.**  
Made from high performance PE100 material our PE ball valves can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Minimum full bore for all sizes ensures limited pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Robust design, suitable for most harsh environments

Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation

Seat, ball and grease combination ensuring low operating torques and avoids sticking over time

Selected ball material offering good scratch resistance

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Available with double spigot length allowing for two electrofusion joints

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Seat compression of large sealing surfaces precisely set via separate pre-assembly

Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure

Operating lever for all sizes (OD25-OD180)

Other SDR's available on request.  
All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

GB 15558-3  
EN 1555-4  
EN 12201-4  
ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion fittings Page 5



**SDR 11  
WATER PN 16  
GAS 10 BAR  
PE100**



MAGNUS PE BALL VALVE WITH LEVER / FUSIBLE ENDS / FULL BORE / Ø25-180mm

Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	Theoretical weight/kg
85-025-502520408730 †	25	25	310	205	90	3.0	84	140	230	195	1.3
85-032-501520408730 #	32	25	320	205	90	3.0	90	140	230	195	1.3
85-040-501520408730 #	40	340	350	220	100	3.7	98	140	230	195	1.4
85-050-501520408730 #	50	40	365	235	115	4.6	111	145	230	195	1.7
85-063-501520409731 #	63	50	440	270	140	5.8	130	165	286	240	3.1
85-090-502520409731 †	90	74	545	320	185	8.2	158	175	286	240	5.4
85-110-501520409731 #	110	86	585	335	205	10.0	165	170	286	240	7.4
85-125-501520409731 #	125	86	595	335	205	11.4	176	165	286	240	7.8
85-160-501520410732 #	160	120	710	405	285	14.6	196	210	450	390	17.4
85-180-501520410732 #	180	120	725	405	285	16.4	210	205	450	390	18.5

# Sizes with Full Bore ID = > 80%  
† Sizes with Clear Bore ID = 100%

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)



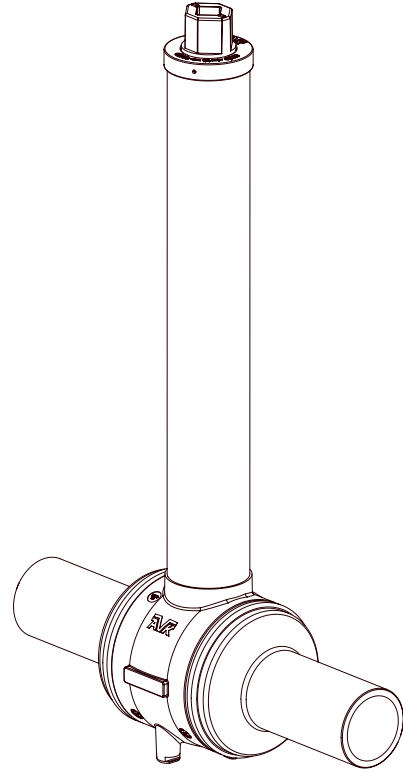
# MAGNUS PE BALL VALVE

WITH STEM EXTENSION

Ø 63-180mm

FUSIBLE ENDS

FULL BORE ON ALL BODY SIZES



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Universal PE ball valve FUSION MAGNUS with stem extension, for use in the isolation of water and gas on domestic, commercial and industrial premises.**

Made from high performance PE100-RC material our PE ball valves offer excellent resistance to slow crack propagation and can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Full bore design ensures a reduced pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Robust design, suitable for most harsh environments

Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation

Seat, ball and grease combination ensuring low operating torques and avoids sticking over time

Selected ball material offering good scratch resistance

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Overtorque protection and replaceable connector under live conditions

Available with double spigot length allowing for two electrofusion joints

With stem extension ensuring easy operation of lower buried valve

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Seat compression of large sealing surfaces precisely set via separate pre-assembly

Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure

Fully automated socket welding of stem extension for optimal reliability

Other SDR's available on request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

## Designed and manufactured to

GB 15558-3

EN 1555-4

EN 12201-4

ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Page

Electrofusion fittings

5

Stem extension and purge point

202

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 11 WATER PN 16 GAS 10 BAR PE100



### MAGNUS PE BALL VALVE WITH STEM EXTENSION / FUSIBLE ENDS / FULL BORE / Ø63-180mm

Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	D11 mm	D12 mm	D13 mm	Theoretical weight/kg
85-063-501520400720 #	63	50	440	810	140	5.8	40	49.6	25.5	130	635	700	730	3.9
85-090-502520400720 †	90	74	545	855	185	8.2	40	49.6	25.5	158	645	710	755	6.4
85-110-501520400720 #	110	86	585	875	205	10.0	40	49.6	25.5	165	645	710	765	8.2
85-125-501520400720 #	125	86	595	875	205	11.4	40	49.6	25.5	176	635	705	765	8.6
85-160-501520400720 #	160	120	710	1045	285	14.6	40	49.6	25.5	196	750	815	895	18.4
85-180-501520400720 #	180	120	725	1045	285	16.4	40	49.6	25.5	210	740	805	895	19.4

# Sizes with Full Bore ID = > 80%

† Sizes with Clear Bore ID = 100%

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

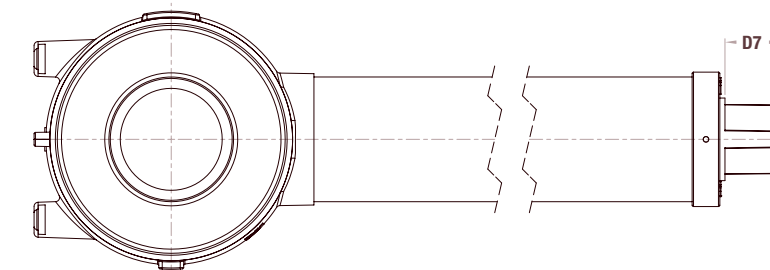
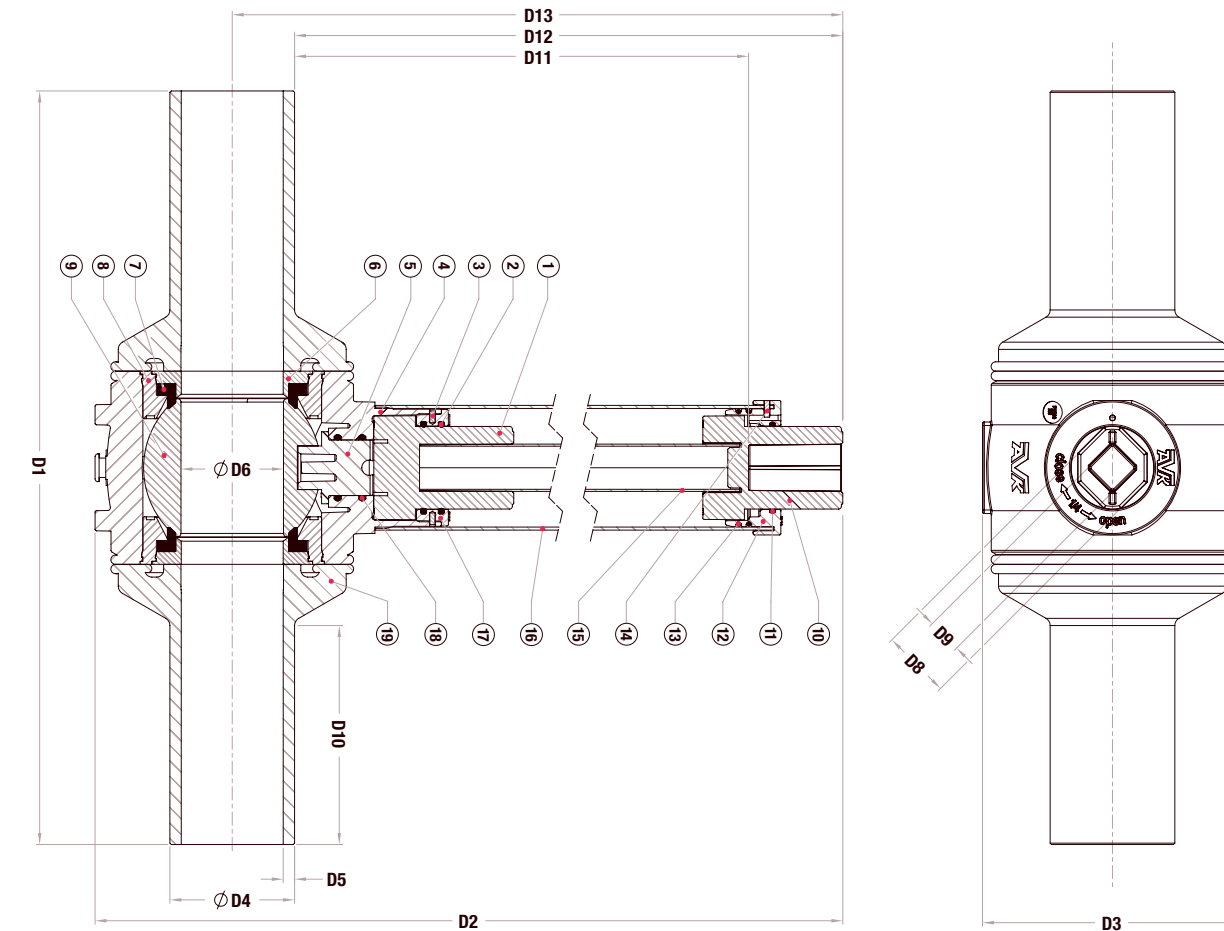
## Operating torque range

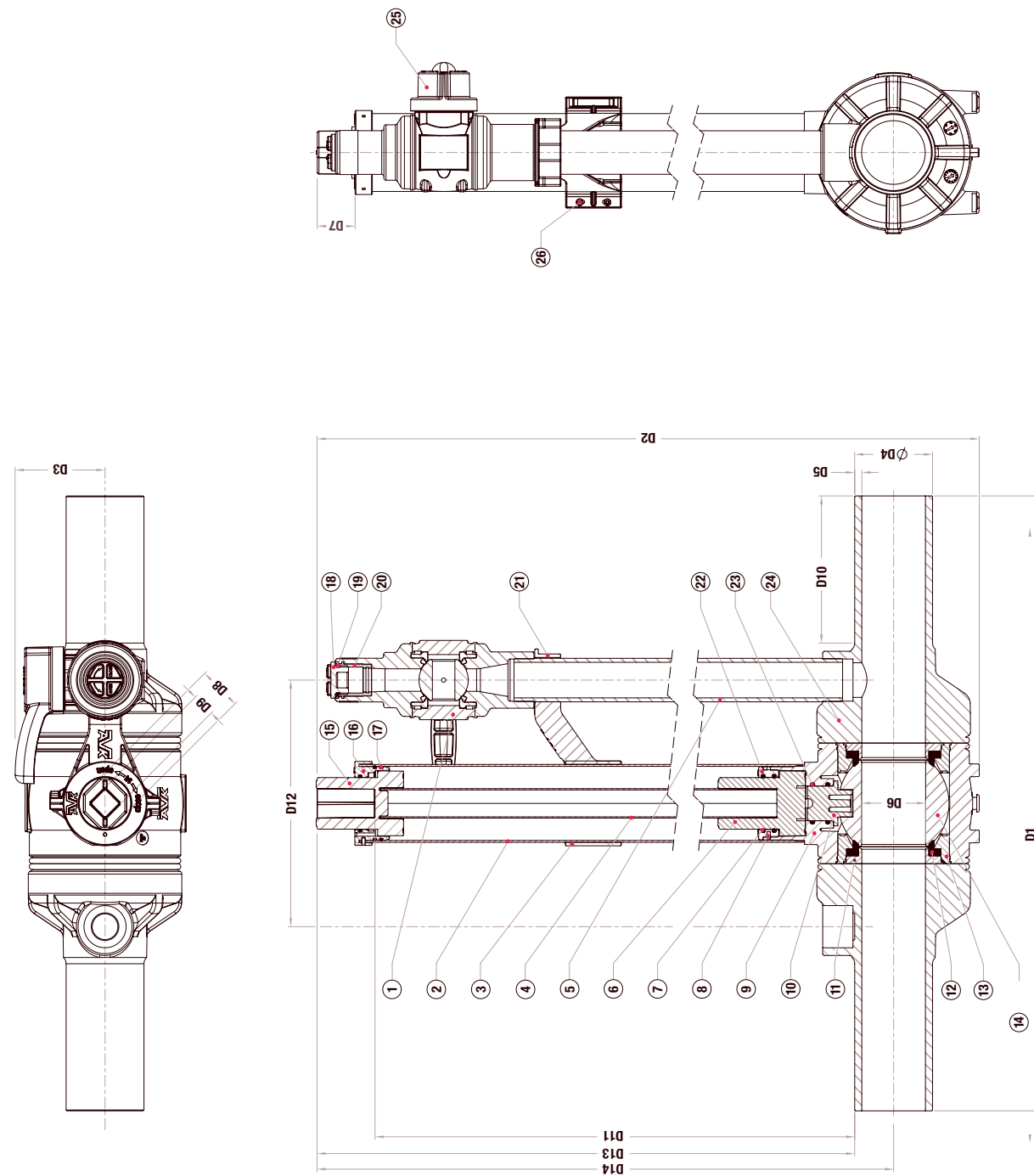
25-63mm = 5-36 Nm  
90-125mm = 10-70 Nm  
160-180mm = 10-150 Nm

## Component list

Component list	Material
1 Connector	PA-GF
2 O-ring	NER 70
3 Locking pin	PVC
4 Body	PE 100-RC
5 Stem	POM
6 Support ring	PE 100-RC
7 Ball seat	NER 70
8 Seal retainer	PE 100-RC
9 Ball	POM
10 Connector SE	PA-GF
11 O-ring	NER 70
12 Bearing ring SE	PA
13 O-ring	NER 70
14 Locking pin	PVC
15 Profile	Stainless steel
16 Extension pipe	PE 100
17 Bearing ring	PA
18 O-ring	NER 70
19 Spigot	PE 100-RC

Components may be substituted with equivalent or higher class materials without prior notification.





Component list	
1	Purge valve PE 100-RC
2	Extension pipe PE 100
3	Support bracket HDPE
4	Profile Stainless steel
5	Purge pipe PE 100
6	Connector PA-GF
7	O-ring NBR-70
8	Lock pin PVC
9	Body PE 100-RC
10	Stem POM
11	Support ring PE 100-RC
12	Ball seat NBR-70
13	Seat retainer PE 100-RC
14	Ball POM
15	Connector PA-GF
16	Bearing ring SE PA-GF
17	O-ring NBR-70
18	Threaded plug POM
19	O-ring NBR-70
20	Threaded bush ASI 304
21	Supporting bracket HDPE
22	Bearing ring PA-GF
23	O-ring NBR-70
24	Spigot PE 100-RC
25	Lever PA-GF
26	PT Screw Galvanised steel

Components may be substituted with equivalent or higher class materials without prior notification.

Operating torque range
25-63mm = 5-35 Nm
90-125mm = 10-70 Nm
160-180mm = 10-150 Nm

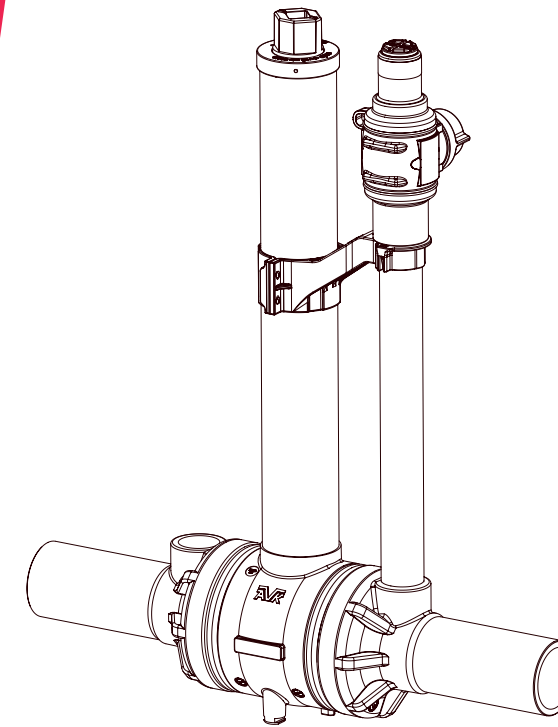
# MAGNUS PE BALL VALVE

WITH STEM EXTENSION AND ONE PURGE POINT

Ø 63-180mm

FUSIBLE ENDS

FULL BORE ON ALL BODY SIZES



## Applications

- Gas
- Water
- Wastewater
- Irrigation
- Mining

## Product information

**Universal PE ball valve FUSION MAGNUS for use in the isolation of water and gas on domestic, commercial and industrial premises.**

Made from high performance PE100 material our PE ball valves can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Minimum full bore for all sizes ensures limited pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Robust design, suitable for most harsh environments

Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation

Seat, ball and grease combination ensuring low operating torques and avoids sticking over time

Selected ball material offering good scratch resistance

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Overtorque protection and replaceable connector under live conditions

Available with double spigot length allowing for two electrofusion joints

With stem extension and purge point to use valve for by-pass or purging of pipeline

Seat compression of large sealing surfaces precisely set via separate pre-assembly

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure

Fully automated socket welding of stem extension and purge pipes for optimal reliability

Threaded metal bush in purge valve spigot for durable and secure connections

BSP thread 1" suitable for universal flares

Ergonomic synthetic lever for easy operation of purge valve

Delivered with pressure retaining plug

## Designed and manufactured to

GB 15558-3

EN 1555-4

EN 12201-4

ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Page

Electrofusion fittings

5

Stem extension with two purge points

204

Other SDR's available on request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 11 WATER PN 16 GAS 10 BAR PE100



### MAGNUS PE BALL VALVE WITH STEM EXTENSION AND ONE PURGE POINT / FUSIBLE ENDS / FULL BORE / Ø63-180mm

Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	D11 mm	D12 mm	D13 mm	D14 mm	Theoretical weight/kg
85-063-501510400733 #	63	50	715	810	102.5	5.8	40	49.5	25.5	170	635	280	700	730	6.2
85-090-502510400733 †	90	74	710	855	102.5	8.2	40	49.5	25.5	170	645	285	710	755	9.5
85-110-501510400733 #	110	86	715	875	102.5	10.0	40	49.5	25.5	170	645	277	710	765	11.4
85-125-501510400733 #	125	86	710	875	102.5	11.4	40	49.5	25.5	170	635	277	700	765	12.2
85-160-501510400733 #	160	120	795	1045	102.5	14.6	40	49.5	25.5	170	750	350	815	895	24.4
85-180-501510400733 #	180	120	795	1045	102.5	16.4	40	49.5	25.5	170	740	350	805	895	23.6

# Sizes with Full Bore ID = >80%

† Sizes with Clear Bore ID = 100%

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

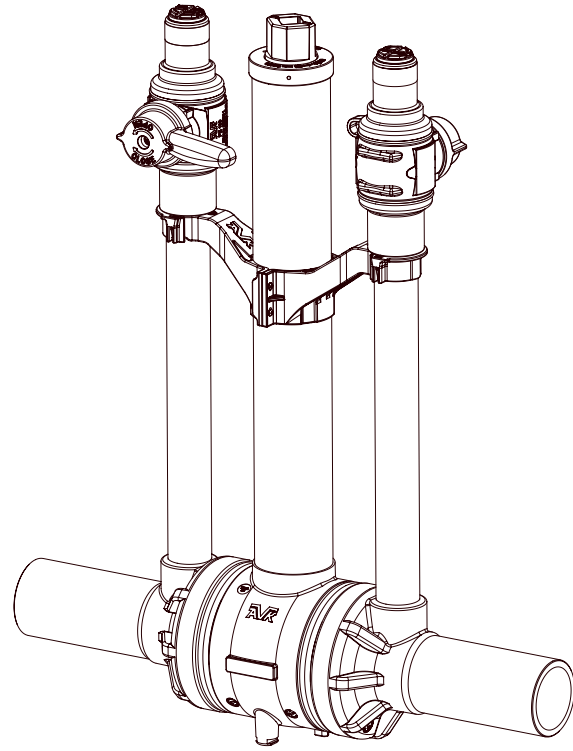
# MAGNUS PE BALL VALVE

WITH STEM EXTENSION  
AND TWO PURGE POINTS

Ø 63-180mm

FUSIBLE ENDS

FULL BORE ON ALL BODY SIZES



## Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

## Product information

**Universal PE ball valve FUSION MAGNUS for use in the isolation of water and gas on domestic, commercial and industrial premises.**

Made from high performance PE100 material our PE ball valves can be welded to all PE100 and PE80 pipes making the valve an integral part of the fully welded leak-free pipe system. Minimum full bore for all sizes ensures limited pressure drop and greater flow through the valve. All spigot ends can be delivered with double spigot length option, allowing for a second electrofusion weld if needed.

Robust design, suitable for most harsh environments

Material selection body and spigot (PE100-RC) offering excellent resistance to crack propagation

Seat, ball and grease combination ensuring low operating torques and avoids sticking over time

Selected ball material offering good scratch resistance

Grease with minimal wearing off from the lubricated surfaces for improved long term performance

Overtorque protection and replaceable connector under live conditions

Available with double spigot length allowing for two electrofusion joints

With stem extension and purge point to use valve for by-pass or purging of pipeline

Seat compression of large sealing surfaces precisely set via separate pre-assembly

Traccoding (barcode) + ASSIST (QR code) - asset management to record, track and identify where valves are located and ensure traceability at all times

Flexible spindle shaft to ensure equal compression around the O-rings when loaded by internal pressure

Fully automated socket welding of stem extension and purge pipes for optimal reliability

Threaded metal bush in purge valve spigot for durable and secure connections

BSP thread 1" suitable for universal flares

Ergonomic synthetic lever for easy operation of purge valve

Delivered with pressure retaining plug

## Designed and manufactured to

GB 15558-3

EN 1555-4

EN 12201-4

ISO 4437-4

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

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Electrofusion fittings

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Other SDR's available on request.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## SDR 11 WATER PN 16 GAS 10 BAR PE100



MAGNUS PE BALL VALVE WITH STEM EXTENSION AND TWO PURGE POINTS / FUSIBLE ENDS / FULL BORE / Ø63-180mm

Reference code	D4 mm	D6 mm	D1 mm	D2 mm	D3 mm	D5 mm	D7 mm	D8 mm	D9 mm	D10 mm	D11 mm	D12 mm	D13 mm	D14 mm	Theoretical weight/kg
85-063-501500400734 #	63	50	715	810	205	5.8	40	49.6	25.5	170	635	278	700	730	8.6
85-090-502500400734 †	90	74	710	855	205	8.2	40	49.6	25.5	170	645	280	710	755	10.9
85-110-501500400734 #	110	86	715	875	205	10.0	40	49.6	25.5	170	645	280	710	765	12.8
85-125-501500400734 #	125	86	710	875	205	11.4	40	49.6	25.5	170	635	280	700	765	13.8
85-160-501500400734 #	160	120	795	1045	205	14.6	40	49.6	25.5	170	750	350	815	895	25.8
85-180-501500400734 #	180	120	795	1045	205	16.4	40	49.6	25.5	170	740	350	805	895	26.6

# Sizes with Full Bore ID = > 80%

† Sizes with Clear Bore ID = 100%

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Component list	
1	Purge valve PE 100-RC
2	Extension pipe PE 100
3	Support bracket HDPE
4	Profile Stainless steel
5	Purge pipe PE 100
6	Connector PA-GF
7	O-ring NBR-70
8	Lock pin PVC
9	Body PE 100-RC
10	Stem POM
11	Support ring PE 100-RC
12	Ball seat NBR-70
13	Seat retainer PE 100-RC
14	Ball POM
15	Connector PA-GF
16	Bearing ring SE PA-GF
17	O-ring NBR-70
18	Threaded plug POM
19	O-ring NBR-70
20	Threaded bush AIS 304
21	Support bracket HDPE
22	Bearing ring PA-GF
23	O-ring NBR-70
24	Spigot PE100-RC
25	Lever PA-GF
26	PT Screw Galvanised steel

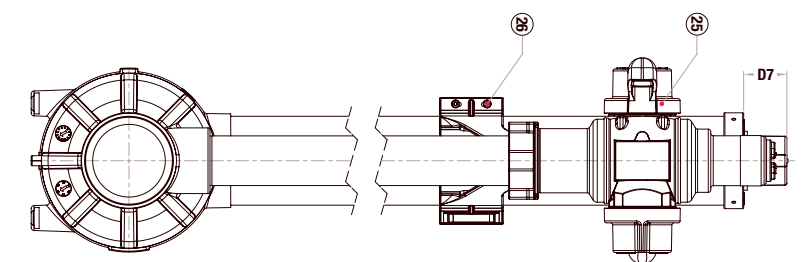
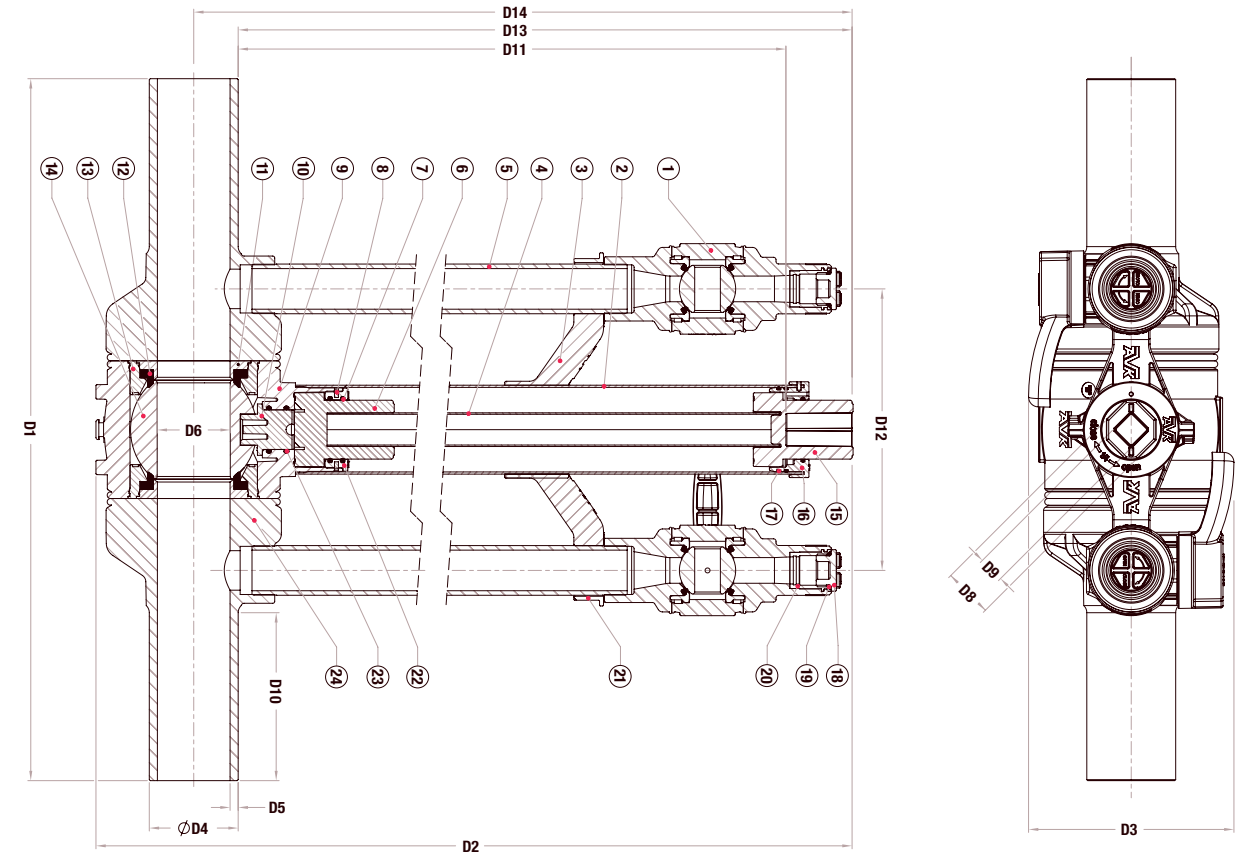
Components may be substituted with equivalent or higher class materials without prior notification.

Operating torque range

25-63mm = 5-35 Nm

90-125mm = 10-70 Nm

160-180mm = 10-150 Nm



# TRANSITION FITTINGS

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# ELECTROFUSION TRANSITION COUPLER

## MALE THREAD

Ø ½" - 2" THREADED OUTLET

Ø 25 - 63mm BODY

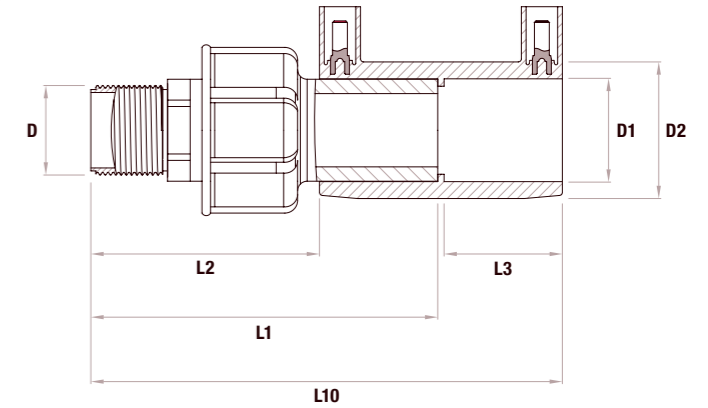
FUSAMATIC PIN 4.0mm

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



**FUSAMATIC**®



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN 16 GAS 10 BAR PE100



1210/01-001



ELECTROFUSION TRANSITION COUPLER MALE THREAD / Ø ½" - 2" THREADED OUTLET / Ø 25 - 63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
ZCBKHFA25X0.8	25x¾"	138.5	99	61.5	37.5	¾"	25	33.5	30	3	0.16
ZCBKHFA32X0.5	32x1½"	170	100	62.5	37.5	½"	32	43	45	3	0.39
ZCBKHFA32X0.8	32x¾"	138.5	99	61.5	37	¾"	32	34	30	3	0.18
ZCBKHFA32X1	32x1"	149.5	110	72.5	38	1"	32	43	45	3	0.24
ZCBKHFA32X1.3	32x1¼"	166	121	75	43	1x¼"	32	44	50	5	0.35
ZCBKHFA32X1.5	32x1½"	165.5	134	74.5	41	1x½"	32	44	60	5	0.45
ZCBKHFA40X1	40x1"	155	110	64	43	1"	40	44	50	5	0.26
ZCBKHFA40X1.3	40x1¼"	167	121	77	44	1x¼"	40	51.5	40	5	0.36
ZCBKHFA40X1.5	40x1½"	179	134	88	43	1x½"	40	52	60	5	0.45
ZCBKHFA50X1	50x1"	160	110	69	41	1"	50	44	60	5	0.26
ZCBKHFA50X1.3	50x¼"	158	121	67	43	1x¼"	50	44	60	5	0.37
ZCBKHFA50X1.5	50x1½"	181	134	90	44	1x½"	50	61.5	90	5	0.45
ZCBKHFA50X2	50x2"	200	150	98	48	2"	50	62	120	10	0.68
ZCBKHFA63X1	63x1"	150	100	48	52	1"	63	78	90	5	0.32
ZCBKHFA63X1.3	63x1¼"	171	121	69	45	1x¼"	63	78	70	5	0.42
ZCBKHFA63X1.5	63x1½"	184	134	82	48	1x½"	63	78	120	10	0.51
ZCBKHFA63X2	63x2"	203	150	101	49	2"	63	78	35	3	0.68

◇ Assembled using electrofusion reducer.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# ELECTROFUSION TRANSITION COUPLER

## FEMALE THREAD

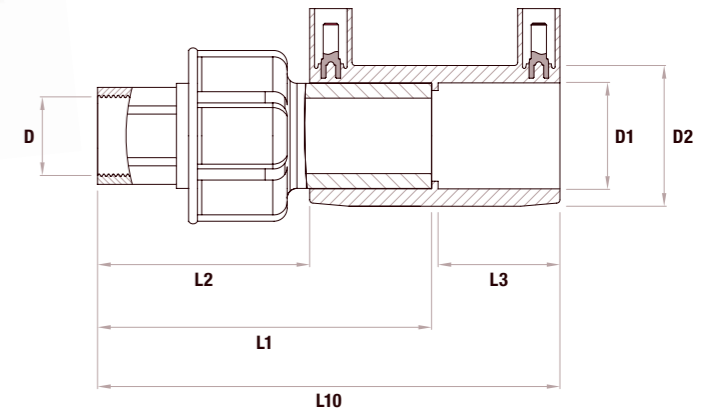
Ø ¾" - 2" THREADED OUTLET

Ø 25 - 63mm BODY

FUSAMATIC PIN 4.0mm

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN 16 GAS 10 BAR PE100



1210/11-001



ELECTROFUSION TRANSITION COUPLER FEMALE THREAD / Ø ¾" - 2" THREADED OUTLET / Ø 25 - 63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
XCBKHFA25X0.8	25x¾"	130.5	91	53.5	37.5	¾"	25	33.5	30	3	0.18
XCBKHFA32X0.8	32x¾"	131	91	54	37	¾"	32	34	30	3	0.20
XCBKHFA32X1	32x1"	139.5	100	62.5	38	1"	32	43	45	3	0.25
XCBKHFA40X1	40x1"	148	100	57	43	1"	40	44	50	5	0.26
XCBKHFA40X1.3	40x1¼"	155	109	65	44	1¼"	40	51.5	40	5	0.36
XCBKHFA40X1.5	40x1½"	172	124	81	43	1½"	40	52	60	5	0.50
XCBKHFA50X1.3	50x1¼"	157	109	66	43	1¼"	50	44	60	5	0.40
XCBKHFA50X1.5	50x1½"	171	124	80	44	1½"	50	61.5	90	5	0.50
XCBKHFA50X2	50x2"	195	141	93	48	2"	50	62	120	10	0.78
XCBKHFA63X1	63x1"	150	100	48	52	1"	63	78	90	5	0.32
XCBKHFA63X1.3	63x1¼"	171	121	69	45	1¼"	63	78	70	5	0.42
XCBKHFA63X1.5	63x1½"	178	124	76	48	1½"	63	78	120	10	0.55
XCBKHFA63X2	63x2"	194	141	92	49	2"	63	78	35	3	0.79

◊ Assembled using electrofusion reducer.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# 90° ELECTROFUSION TRANSITION ELBOW

## MALE THREAD

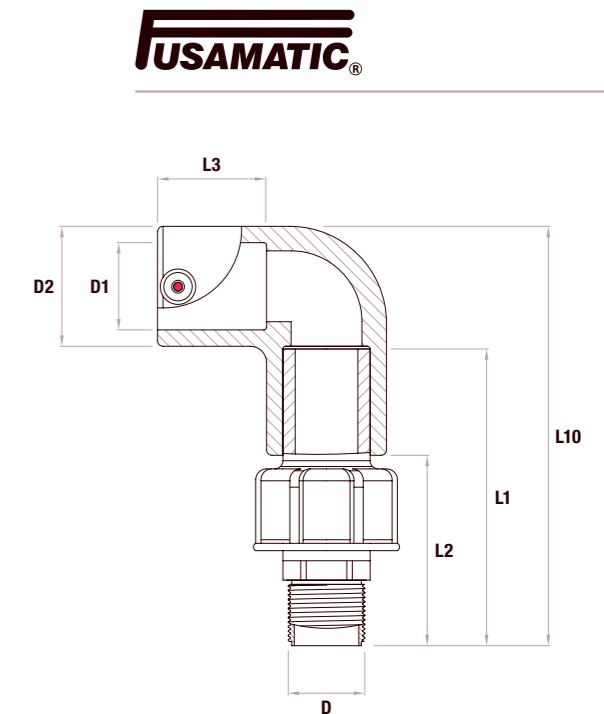
Ø ¾" - 2" THREADED OUTLET  
Ø 25 - 63mm BODY

FUSAMATIC PIN 4.0mm



Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

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## SDR RANGE 11-17 WATER PN16 GAS 10 BAR PE100



90° ELECTROFUSION TRANSITION ELBOW MALE THREAD / Ø ¾" - 2" THREADED OUTLET / Ø 25 - 63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
ZEBKHFA25X900.8	25x¾" - 90°	131	99	55	44	¾"	25	35	11	30	5	0.19
ZEBKHFA32X901	32x1" - 90°	154	110	70	40	1"	32	44	11	60	5	0.28
ZEBKHFA40X901.3	40x1¼" - 90°	170	121	79	42	1¼"	40	52	11	50	5	0.40
ZEBKHFA50X901.5	50x1½" - 90°	192	124	79.5	44.5	1½"	50	63	11	90	5	0.54
ZEBKHFA63X902	63x2" - 90°	223	150	100	20	2"	63	81	11-17	35	5	0.87

Refer to the table above for the SDR rating of each individual fitting.

1213/01-001

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# 90° ELECTROFUSION TRANSITION ELBOW

## FEMALE THREAD

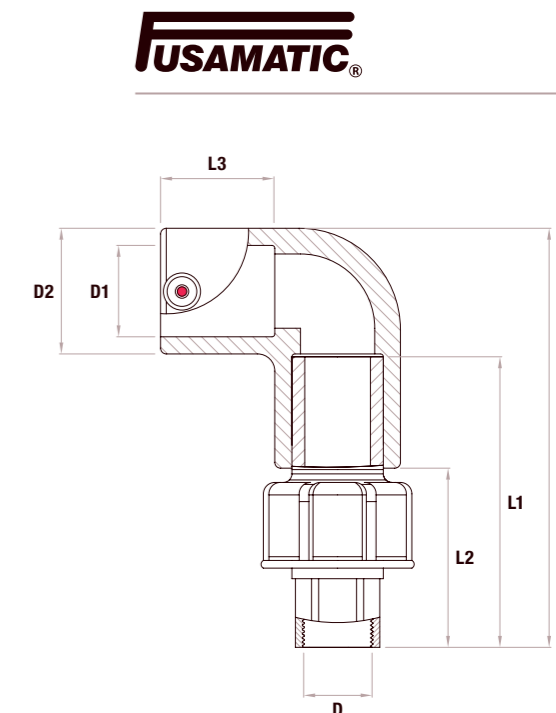
Ø ¾" - 2" THREADED OUTLET  
Ø 25 - 63mm BODY

FUSAMATIC PIN 4.0mm



Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

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## SDR RANGE 11-17 WATER PN16 GAS 10 BAR PE100



90° ELECTROFUSION TRANSITION ELBOW FEMALE THREAD / Ø ¾" - 2" THREADED OUTLET / Ø 25 - 63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
XEBKHFA25X900.8	25x¾" - 90°	123	91	47	44	¾"	25	35	11	30	5	0.2
XEBKHFA32X901	32x1" - 90°	144	100	60	40	1"	32	44	11	60	5	0.3
XEBKHFA40X901.3	40x1¼" - 90°	158	109	67	42	1¼"	40	52	11	50	5	0.52
XEBKHFA50X901.5	50x1½" - 90°	182	124	79	45	1½"	50	63	11	90	5	0.65
XEBKHFA63X902	63x2" - 90°	214	141	91	50	2"	63	81	11-17	35	5	0.95

Refer to the table above for the SDR rating of each individual fitting.

1213/11-001

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.



# 45° ELECTROFUSION TRANSITION ELBOW

## MALE THREAD

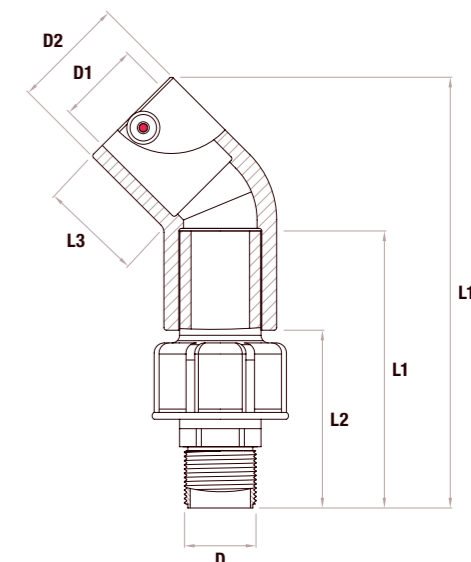
Ø 1" - 2" THREADED OUTLET  
Ø 32-63mm BODY

FUSAMATIC PIN 4.0mm



Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

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Fusion Assist

## SDR RANGE 11-17 WATER PN16 GAS 10 BAR PE100



45° ELECTROFUSION TRANSITION ELBOW MALE THREAD / Ø 1" - 2" THREADED OUTLET / Ø 32-63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
ZEBKHFA32X451	32x1" - 45°	160	100	61	39	1"	32	44	11	45	5	0.26
ZEBKHFA40X451.3	40x1¼" - 45°	175.5	109	67.5	41.5	1¼"	40	53	11	50	5	0.43
ZEBKHFA50X451.5	50x1½" - 45°	203.5	124	79.5	44.5	1½"	50	64	11	90	5	0.54
ZEBKHFA63X452	63x2" - 45°	228	141	91	50	2"	63	78.5	11-17	35	5	0.78

Refer to the table above for the SDR rating of each individual fitting.

1213/21-001

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 45° ELECTROFUSION TRANSITION ELBOW

## FEMALE THREAD

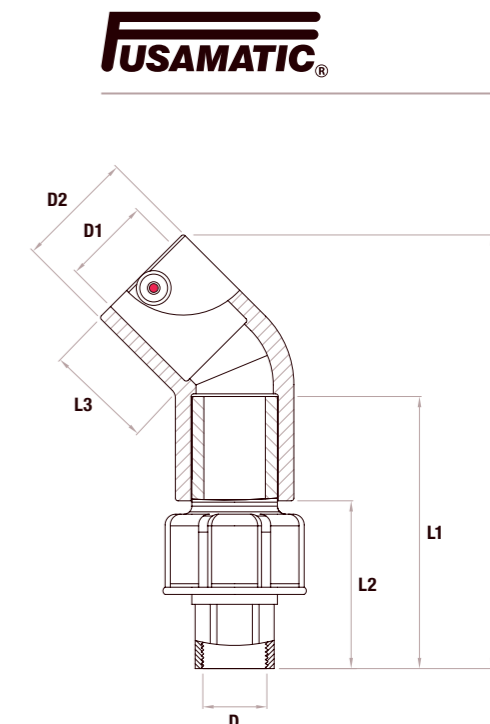
Ø 1" - 2" THREADED OUTLET  
Ø 32-63mm BODY

FUSAMATIC PIN 4.0mm



Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Pin specification:** Fusamatic pin 4.0mm (Automatic method to ensure correct welding parameters)

**Rising pin fusion indicators:** Allow for easy monitoring of the fusion process

**Temperature range:** -10°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Manual welding parameters:** Incorporated into the body of the fitting for easy reference

**Individual numbering:** Each fitting is individually numbered for precise tracking

**Permanent batch number:** Clearly marked for quality control

**Barcode and QR code tracking:** Enables full traceability of each fitting back to raw materials and critical components

**ISO Compliant barcodes:** Welding barcode compliant with ISO 13950 and traceability barcode compliant with ISO 12176-4

**Brand:** Fusamatic branded

We reserve the right to supply alternative brass grades depending upon product availability.

All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN ISO 15494

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR RANGE 11-17 WATER PN16 GAS 10 BAR PE100



45° ELECTROFUSION TRANSITION ELBOW FEMALE THREAD / Ø 1" - 2" THREADED OUTLET / Ø 32-63mm BODY / FUSAMATIC PIN 4.0mm

Reference code	Fitting size mm	L10 mm	L1 mm	L2 mm	L3 mm	D mm	D1 mm	D2 mm	SDR Range	Fusion time seconds	Cooling time minutes	Theoretical weight/kg
XEBKHFA32X451	32x1" - 45°	160	100	61	39	1"	32	44	11	45	5	0.52
XEBKHFA40X451.3	40x1¼" - 45°	175.5	109	67.5	41.5	1¼"	40	53	11	50	5	0.43
XEBKHFA50X451.5	50x1½" - 45°	203.5	124	79.5	44.5	1½"	50	64	11	90	5	0.57
XEBKHFA63X452	63x2" - 45°	228	141	91	50	2"	63	78.5	11-17	35	5	0.87

Refer to the table above for the SDR rating of each individual fitting.

1213/31-001

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# TRANSITION ADAPTOR

## MALE THREAD

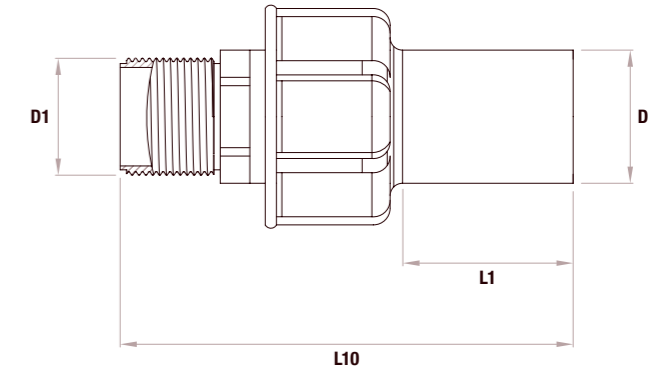
Ø ½" - 4" THREADED OUTLET

Ø 20-125mm BODY

BRASS NOT COATED

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded (Unless stated)

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

4MS Compliant brass grades

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/00-001



TRANSITION ADAPTOR MALE THREAD / Ø ½" - 4" THREADED OUTLET / Ø 20-125mm BODY / BRASS NOT COATED

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67100	20x½"	20	½"	92	38	0.11
AX67101	25x¾"	25	¾"	99	40	0.12
AX67102	32x1"	32	1"	110	44	0.18
AX67168	40x1"	40	1"	110	44	0.18
AX67103	40x1½"	40	1½"	121	49	0.27
AX67169	40x1½"	40	1½"	121	49	0.27
AX67104	50x1½"	50	1½"	134	54	0.37
AX67170	63x1½"	63	1½"	165	73	0.89
AX67105	63x2"	63	2"	150	63	0.59
AX67106	75x2½"	75	2½"	165	73	0.89
AX67107	90x3"	90	3"	181	82	1.14
AX67108	110x4"	110	4"	194	84	1.86
AX67109 ◊	125x4"	125	4"	202	92	3.00

◊ Non Fusion branded.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# TRANSITION ADAPTOR

## FEMALE THREAD

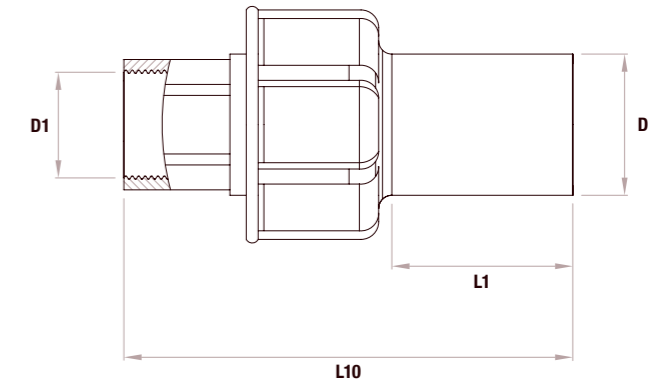
Ø ½" - 4" THREADED OUTLET

Ø 20-125mm BODY

BRASS NOT COATED

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Brass:** Grade of Brass - CW617N/CW511L

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded (Unless stated)

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

4MS Compliant brass grades

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/10-001



TRANSITION ADAPTOR FEMALE THREAD / Ø ½" - 4" THREADED OUTLET / Ø 20-125mm BODY / BRASS NOT COATED

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67110	20x½"	20	½"	82	38	0.12
AX67111	25x¾"	25	¾"	91	40	0.15
AX67112	32x1"	32	1"	100	44	0.2
AX67173	40x1"	40	1"	100	44	0.2
AX67113	40x1¼"	40	1¼"	109	49	0.32
AX67174	40x1½"	40	1½"	109	49	0.32
AX67114	50x1½"	50	1½"	124	54	0.38
AX67176	63x1½"	63	1½"	165	73	0.89
AX67115	63x2"	63	2"	141	63	0.6
AX67116	75x2½"	75	2½"	163	73	0.9
AX67117	90x3"	90	3"	181	82	1.15
AX67118	110x4"	110	4"	190	84	1.87
AX67119 ◊	125x4"	125	4"	165	91	1.92

◊ Non Fusion branded.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# TRANSITION ADAPTOR

## MALE THREAD

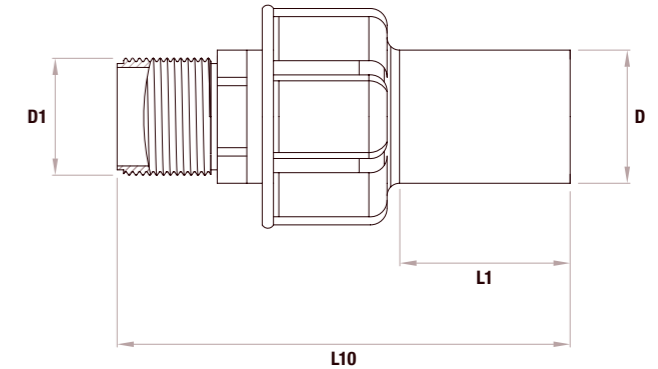
Ø ½" - 4" THREADED OUTLET

Ø 20-125mm BODY

BRASS DZR NOT COATED

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

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### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Brass:** Grade of Brass - CW511L DZR  
DZR = Dezincification resistant and low lead grade of brasses used as per 4MS compliance where markets request

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

4MS Compliant brass grades

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/40-001

TRANSITION ADAPTOR MALE THREAD / Ø ½" - 4" THREADED OUTLET / Ø 20-125mm BODY / BRASS DZR NOT COATED

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67141	20x½"	20	½"	92	38	0.11
AX67143	25x¾"	25	¾"	99	40	0.12
AX67144	32x1"	32	1"	110	44	0.18
AX67171	40x1"	40	1"	110	44	0.18
AX67145	40x1¼"	40	1¼"	121	49	0.27
AX67172	40x1½"	40	1½"	121	49	0.27
AX67146	50x1½"	50	1½"	134	54	0.37
AX67175	63x1½"	63	1½"	165	72	0.89
AX67147	63x2"	63	2"	150	63	0.59
AX67148	75x2½"	75	2½"	165	73	0.89
AX67149	90x3"	90	3"	181	82	1.14
AX67150	110x4"	110	4"	194	84	1.86
AX67151	125x4"	125	4"	202	92	3.00

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# TRANSITION ADAPTOR

## FEMALE THREAD

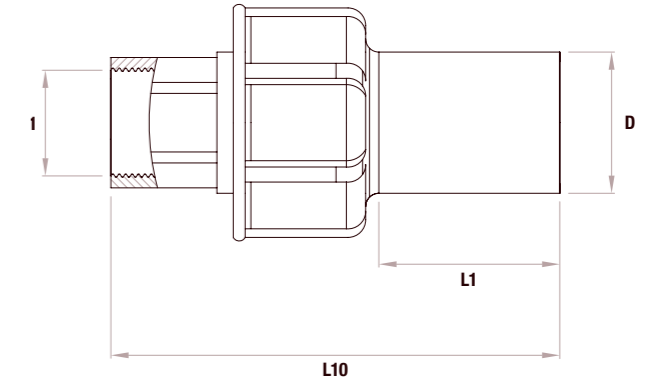
Ø ½" - 4" THREADED OUTLET

Ø 20-125mm BODY

BRASS DZR NOT COATED

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

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### Applications

● Gas ● Water ● Wastewater ● Irrigation ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Brass:** Grade of Brass - CW511L DZR  
DZR = Dezincification resistant and low lead grade of brasses used as per 4MS compliance where markets request

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

4MS Compliant brass grades

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/50-001

TRANSITION ADAPTOR FEMALE THREAD / Ø ½" - 4" THREADED OUTLET / Ø 20-125mm BODY / BRASS DZR NOT COATED

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67152	20x½"	20	½"	82	38	0.12
AX67154	25x¾"	25	¾"	91	40	0.15
AX67155	32x1"	32	1"	100	44	0.20
AX67179	40x1"	40	1"	100	44	0.20
AX67156	40x1¼"	40	1¼"	109	49	0.32
AX67180	40x1½"	40	1½"	109	49	0.32
AX67157	50x1½"	50	1½"	124	54	0.38
AX67183	63x1½"	63	1½"	163	73	0.89
AX67158	63x2"	63	2"	141	63	0.60
AX67159	75x2½"	75	2½"	163	73	0.90
AX67160	90x3"	90	3"	181	82	1.15
AX67161	110x4"	110	4"	190	84	1.87
AX67162	125x4"	125	4"	165	91	1.92

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# TRANSITION ADAPTOR

## MALE THREAD

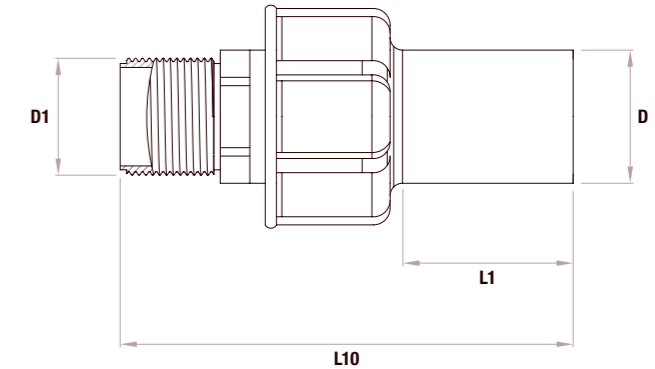
Ø ½" - 2" THREADED OUTLET

Ø 20 - 63mm BODY

STAINLESS STEEL

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas
 ● Water
 ● Wastewater
 ● Irrigation
 ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Stainless steel:** Grade of stainless steel - AISI G316/316L

**Thread:** BSPT (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/20-001

### TRANSITION ADAPTOR MALE THREAD / Ø ½" - 2" THREADED OUTLET / Ø 20-63mm BODY / STAINLESS STEEL

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67131	20x½"	20	½"	85	38	0.10
AX67132	25x¾"	25	¾"	95	40	0.11
AX67133	32x1"	32	1"	105	44	0.17
AX67134	40x1¼"	40	1¼"	115	49	0.25
AX67135	50x1½"	50	1½"	130	54	0.34
AX67136	63x2"	63	2"	148	63	0.53

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# TRANSITION ADAPTOR

## FEMALE THREAD

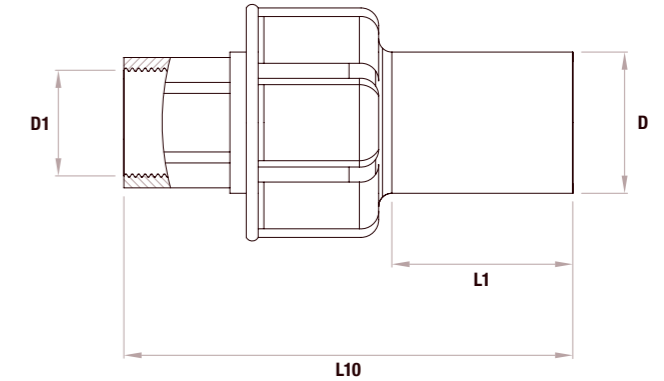
Ø ½" - 2" THREADED OUTLET

Ø 20 - 63mm BODY

STAINLESS STEEL

Transition fittings are a quick and easy way to connect various types of metallic pipes to PE pipe systems. A simple but effective solution for house connections.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



### Applications

● Gas
 ● Water
 ● Wastewater
 ● Irrigation
 ● Mining

### Product information

**Material:** All fittings are manufactured using virgin PE100 black polyethylene

**Design:** Allows transition between metric PE pipes to threaded imperial connections

**Stainless steel:** Grade of stainless steel - AISI G316/316L

**Thread:** BSPP (Allows metric to threaded imperial connections)

**Pressure rating:** Water PN16 and Gas 10 Bar

**Temperature range:** -10°C to +40°C

**Electrofusion jointing temperature:** -10°C to +40°C (When using Fusamatic electrofusion systems)

**Brand:** Fusion branded

We reserve the right to supply non-Fusion branded transition adaptors dependent upon product availability. All stated technical specifications depend on PE pipe welded to and any local pipeline pressure regulations.

### Designed and manufactured to

EN 12201-3

EN 1555-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

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## SDR 11 WATER PN16 GAS 10 BAR PE100



1350/30-001

TRANSITION ADAPTOR FEMALE THREAD / Ø ½" - 2" THREADED OUTLET / Ø 20-63mm BODY / STAINLESS STEEL

Reference code	Fitting size mm	D mm	D1 mm	L10 mm	L1 mm	Theoretical weight/kg
AX67120	20x½"	20	½"	82	38	0.1
AX67137	25x¾"	25	¾"	91	40	0.11
AX67121	32x1"	32	1"	100	44	0.17
AX67138	40x1¼"	40	1¼"	109	49	0.25
AX67139	50x1½"	50	1½"	124	54	0.34
AX67140	63x2"	63	2"	141	63	0.53

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# FLOW LIMITERS



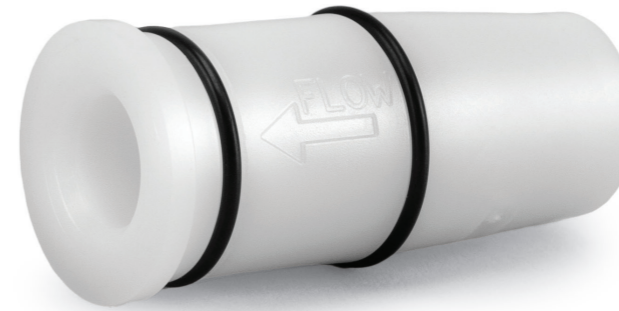
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# INTEGRAL FLOW LIMITER

EMERGENCY FLOW VALVE  
FOR USE WITH TAPPING TEE OUTLET  
Ø 32mm

Series 310 Flow Limiter range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.



Component list	
Description	Material
Body	HDPE
Diffuser sleeve	HDPE
Spring	Stainless Steel
O-ring	NBR
Float	HDPE

Components, may be substituted with equivalent or higher class materials without prior notification.

## Applications

- Gas

## Product information

The Series 310 Flow Limiter is a versatile emergency shut-off valve designed for service line safety, protection against theft, and automatic gas shut-off.

It can be inserted directly into the outlet of a standard DN32mm tapping saddle. When used in the saddle outlet instead of the service pipe, a single-size Flow Limiter can cover all services of DN32mm and below with the help of a reducing electrofusion coupler.

If gas flow exceeds specified limits, the Flow Limiter will simultaneously trip and shut off the gas supply, remaining closed until repairs are completed. Once the issue is resolved, an automatic reset feature provides a small bleed-by flow and allows the service to regain pressure, facilitating a reset for normal operation.

**Inlet Pressure:** 1.09 psig (0.075 Bar) to 72.50 psig (5.00 Bar)

**Capacity:** 843 SCFH (23.9 m<sup>3</sup>/hr) to 2027 SCFH (57.4 m<sup>3</sup>/hr)

**Temperature range:** -20°C to +40°C

Lip type for direct insertion into the outlet of a standard full bore DN32mm tapping saddle

Tamper proof

Maintenance free

Direction of gas flow indicator permanently moulded into the valve to ensure correct installation

Automatic self-acting operation

Can be installed at any angle e.g. horizontal and vertical pipe mains with no effect on operational performance

All units individually tested

Bleed-by design provides automatic reset

## Designed and manufactured to

GIS/EFV1 – Certificate KM 518472

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Page

Tapping tee range 30 - 47

## INTEGRAL FLOW LIMITER EMERGENCY FLOW VALVE GAS 75 mBar - 5 Bar

310/061-001



### INTEGRAL FLOW LIMITER / EMERGENCY FLOW VALVE / FOR USE WITH TAPPING TEE OUTLET / Ø 32mm

Reference code	Diameter size mm	Product PN Class mm	Theoretical weight/kg
310-032-00-6101 ◊	32	PN 5	0.034

◊ Tapered.

### CAPACITIES

Inlet pressure		Flow prior to trip		Max bleed-by flow after trip	
P.S.I.G.	Bar	S.C.F.H.	M <sup>3</sup> /hr	S.C.F.H.	M <sup>3</sup> /hr
1.09	0.075	842.96	23.87	4.24	0.12
1.45	0.100	854.26	24.19	5.30	0.15
2.18	0.150	876.86	24.83	7.06	0.20
5.08	0.350	942.90	26.70	11.30	0.32
29.00	2.000	1447.90	41.00	23.31	0.66
72.50	5.000	2027.42	57.41	-	-

Figures based on gas 0.6SG nominal.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.

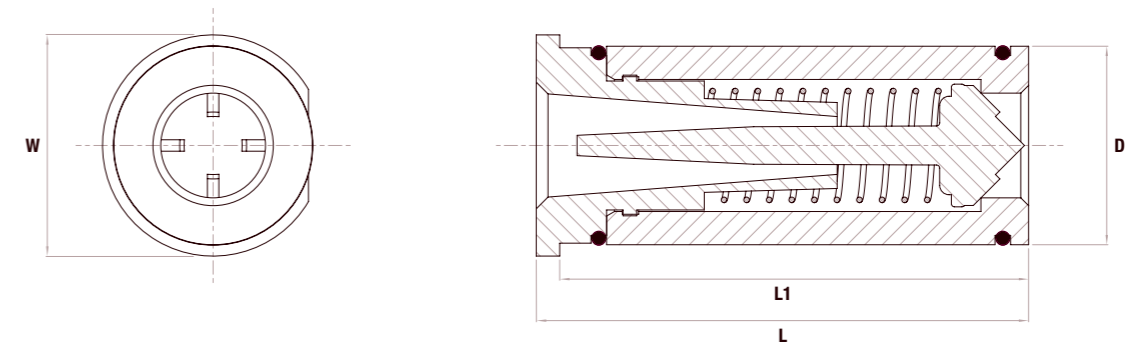
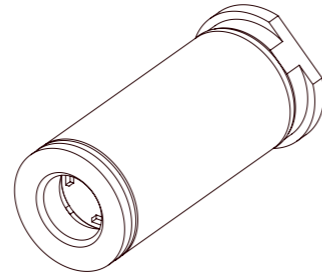


Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# INTEGRAL FLOW LIMITER

EMERGENCY FLOW VALVE  
FOR USE WITH TAPPING TEE  
OUTLET AND SERVICE PIPES  
Ø 32mm

Series 310 Flow Limiter range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.



Component list	
Description	Material
Body	POM
Diffuser sleeve	POM
Spring	Stainless Steel
O-ring	NBR Rubber
Float	POM

Components, may be substituted with equivalent or higher class materials without prior notification.



## Applications

- Gas

## Product information

The Series 310 Flow Limiter is a versatile emergency shut-off valve designed for service line safety, protection against theft, and automatic gas shut-off.

It can be inserted directly into the outlet of a standard DN32mm tapping saddle or service pipes. When used in the saddle outlet instead of the service pipe, a single-size Flow Limiter can cover all services of DN32mm and below with the help of a reducing electrofusion coupler.

If gas flow exceeds specified limits, the Flow Limiter will simultaneously trip and shut off the gas supply, remaining closed until repairs are completed. Once the issue is resolved, an automatic reset feature provides a small bleed-by flow and allows the service to regain pressure, facilitating a reset for normal operation.

**Inlet Pressure:** 10 psig (0.69 Bar) to 100psig (6.90 Bar)

**Capacity:** 725 SCFH (20.5 m³/hr) to 17153 SCFH (48.58 m³/hr)

**Temperature range:** -20°C to +40°C

Lip type for direct insertion into the outlet of a standard full bore DN32mm tapping saddle or service pipes

Tamper proof

Maintenance free

Direction of gas flow indicator permanently moulded into the valve to ensure correct installation

Automatic self-acting operation

Can be installed at any angle e.g. horizontal and vertical pipe mains with no effect on operational performance

All units individually tested

Bleed-by design provides automatic reset

## Designed and manufactured to

MSS SP-115

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## INTEGRAL FLOW LIMITER EMERGENCY FLOW VALVE GAS 69 mBar - 6.9 Bar

310/063-001



INTEGRAL FLOW LIMITER / EMERGENCY FLOW VALVE / FOR USE WITH TAPPING TEE OUTLET AND SERVICE PIPES / Ø 32mm

Reference code	Diameter size mm	Product PN Class mm	W mm	L mm	L1 mm	D mm	Theoretical weight/kg
310032006103 #	32	PN 5	28.3	66.5	63.5	25.4	0.047

# 310/063-001 Designed with straight body.

## CAPACITIES

Inlet pressure		Flow prior to trip		Max bleed-by flow after trip	
P.S.I.G.	Bar	S.C.F.H.	M³/hr	S.C.F.H.	M³/hr
10	0.69	725	25.64	20	0.57
20	1.38	909	25.75	25	0.71
30	2.07	1025	29.04	28	0.79
40	2.76	1122	31.78	32	0.91
60	4.14	1354	38.36	37	1.05
80	5.52	1548	43.83	41	1.16
100	6.90	1715	48.58	50	1.42

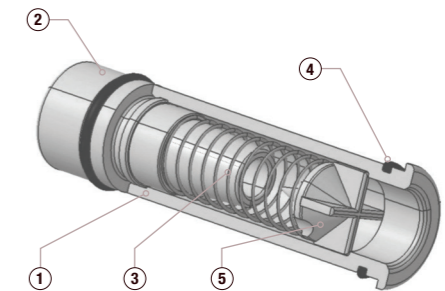
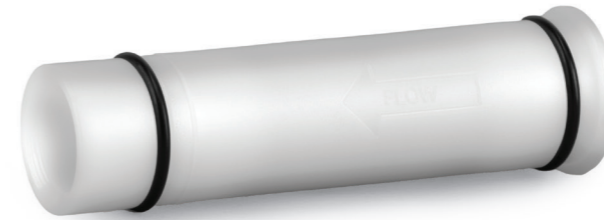
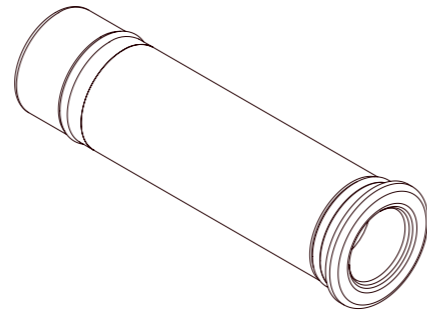
Figures based on gas 0.6SG nominal.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# INTEGRAL FLOW LIMITER

EMERGENCY FLOW VALVE  
FOR USE WITH SERVICE PIPES  
Ø 25mm

Series 310 Flow Limiter range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.



Component list	
Description	Material
1 Body	POM
2 Diffuser sleeve	POM
3 Spring	Stainless Steel
4 Float washer	NBR Rubber
5 Float	POM

Components, may be substituted with equivalent or higher class materials without prior notification.



## Applications

- Gas

## Product information

For direct insertion into the service pipe. The 25mm Flow Limiter is an emergency shut-off valve that provides service line safety, service line theft protection and automatic shut-off, remaining closed until repairs have been made. Once the fault has been rectified, an automatic reset feature provides a small bleed-by flow and allows the service to regain pressure, facilitating a reset for normal operation.

**Inlet Pressure:** 0.5 Bar to 4 Bar

**Capacity:** 318 SCFH (9 m³/hr) to 1095 SCFH (31 m³/hr)

**Temperature range:** -20°C to +40°C

Lip type for direct insertion into the outlet of a standard full bore DN32mm service pipe

Tamper proof

Maintenance free

Direction of gas flow indicator permanently moulded into the valve to ensure correct installation

Automatic self-acting operation

Can be installed at any angle e.g. horizontal and vertical pipe mains with no effect on operational performance

All units individually tested

Bleed-by design provides automatic reset

## Designed and manufactured to

BGE/SN/5

MSS SP-115

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## INTEGRAL FLOW LIMITER EMERGENCY FLOW VALVE GAS 500 mBar - 4 Bar

310/066-001



### INTEGRAL FLOW LIMITER / EMERGENCY FLOW VALVE / FOR USE WITH SERVICE PIPES / Ø 25mm

Reference code	Diameter size mm	PN Bar	Theoretical weight/kg
310-025-00-6106	25	4	0.4

### CAPACITIES

Inlet pressure Bar	Flow prior to trip		Max bleed-by flow after trip	
	S.C.F.H.	M³/hr	S.C.F.H.	M³/hr
0.5	318	9	10	0.3
0.7	530	15	20	0.57
4	1095	31	36	1.03

Figures based on gas 0.6SG nominal.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.

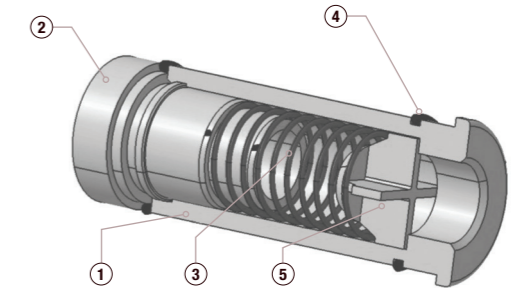


# HIGH CAPACITY INTEGRAL FLOW LIMITER

EMERGENCY FLOW VALVE  
FOR USE WITH SERVICE PIPES  
Ø 32mm



Series 310 Flow Limiter range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.



Component list	
Description	Material
1 Body	POM
2 Diffuser sleeve	POM
3 Spring	Stainless Steel
4 Float washer	NBR Rubber
5 Float	POM

Components, may be substituted with equivalent or higher class materials without prior notification.

## Applications

- Gas

## Product information

For direct insertion into the service pipe. The 32mm Flow Limiter is an emergency shut-off valve that provides service line safety, service line theft protection and automatic shut-off, remaining closed until repairs have been made. Once the fault has been rectified, an automatic reset feature provides a small bleed-by flow and allows the service to regain pressure, facilitating a reset for normal operation.

**Inlet Pressure:** 0.5 Bar to 4 Bar

**Capacity:** 1766 SCFH (50 m³/hr) to 4767 SCFH (135 m³/hr)

**Temperature range:** -20°C to +40°C

Lip type for direct insertion into the outlet of a standard full bore DN32mm service pipe

Tamper proof

Maintenance free

Direction of gas flow indicator permanently moulded into the valve to ensure correct installation

Automatic self-acting operation

Can be installed at any angle e.g. horizontal and vertical pipe mains with no effect on operational performance

All units individually tested

Bleed-by design provides automatic reset

## Designed and manufactured to

MSS SP-115

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## HIGH CAPACITY INTEGRAL FLOW LIMITER EMERGENCY FLOW VALVE GAS 500 mBar - 4 Bar

310/067-001



HIGH CAPACITY INTEGRAL FLOW LIMITER / EMERGENCY FLOW VALVE / FOR USE WITH SERVICE PIPES / Ø 32mm

Reference code	Diameter size mm	PN Bar	Theoretical weight/kg
310-032-00-6107	32	4	0.4

## CAPACITIES

Inlet pressure Bar	Flow prior to trip		Max bleed-by flow after trip	
	S.C.F.H.	M³/hr	S.C.F.H.	M³/hr
0.5	1766	50	-	-
4	4767	135	40.6	1.15

Figures based on gas 0.6SG nominal.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# ELECTROFUSION FLOW LIMITER

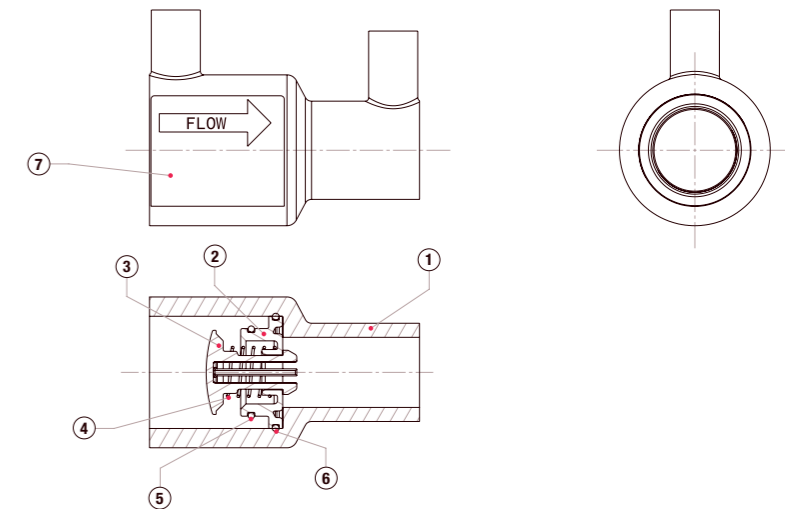
EMERGENCY FLOW VALVE  
FOR USE WITH TAPPING TEE  
OUTLET AND SERVICE PIPES  
Ø 32 x 20 – 32 x 32mm



Series 310 Flow Limiter range of emergency shut-off valves provide service line safety, service line theft protection and automatic shut off.

Electrofusion fittings enable utilities, designers and contractors to create fully welded pipe networks.

The production quality, reliability and flexibility of electrofusion fittings provides the certainty and peace of mind needed for polyethylene pipe jointing.



Component list		
Description	Material	
1	Coupling	PE
2	Body	POM
3	Float	POM
4	Spring	Stainless Steel
5	O-ring	NBR Rubber
6	O-ring	NBR Rubber
7	Label	Plastic

Components, may be substituted with equivalent or higher class materials without prior notification.

## Applications

● Gas

## Product information

The 310/080 Flow Limiter has been designed to be used as an integral part of an electrofusion coupler or reducer enabling the product to be used for DN32mm, DN25mm or DN20mm PE Services. The Flow Limiter is an emergency shut-off valve that provides service line safety, service line theft protection and automatic shut-off.

Should gas flow exceed limits, the Flow Limiter will simultaneously trip and shut-off the gas, remaining closed until repairs have been made. Once the fault has been rectified, an automatic reset feature provides a small bleed-by flow enables the service to regain pressure, equalising the pressure and allowing the unit to reset for normal operation.

**Inlet Pressure:** 10 psig (0.69 Bar) to 100 psig (6.90 Bar)

**Capacity:** 750 SCFH (20.5 m<sup>3</sup>/hr) to 1640 SCFH (46.4 m<sup>3</sup>/hr)

**EFV Operating temperature range:** -20°C to +40°C

**Welding temperature range:** -10°C to +40°C (When using Fusamatic electrofusion systems)

Tamper proof

Maintenance free

Automatic self-acting operation

Can be installed at any angle e.g. horizontal and vertical pipe mains with no effect on operational performance

All units individually tested

Bleed-by design provides automatic reset

Type tested to GIS / EFV 1 @ 4 bar pressure

## Designed and manufactured to

Excess flow valve only

MSS SP-115

GIS/EFV1 – Certificate KM 518472

## Designed and manufactured to

Electrofusion component only

EN 12201-3

EN 1555-3

ISO 4437-3

ISO 4427-3

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories Page

Tapping tee range 30 - 47

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## ELECTROFUSION FLOW LIMITER EMERGENCY FLOW VALVE GAS 0.69 mBar - 7 Bar

310/080-001



ELECTROFUSION FLOW LIMITER / EMERGENCY FLOW VALVE / FOR USE WITH TAPPING TEE OUTLET AND SERVICE PIPES / Ø 32 x 20 – 32 x 32mm

Reference code	Diameter size mm	PN Bar	Theoretical weight/kg
310032008200	32x20	7	0.1
310032008000	32x25	7	0.2
310032008100	32x32	7	0.2

## CAPACITIES

Inlet pressure Bar	Flow prior to trip P.S.I.G.	Flow prior to trip M 3/Hr	Max bleed-by flow after trip M 3/Hr
0.5	7.3	20.00	0.90
0.7	10.2	21.16	0.88
1	14.5	21.93	0.52
2	29.0	28.38	0.58
3	43.5	29.67	0.45
4	58.0	36.12	0.45
5	72.5	41.28	0.45
6	87.0	43.86	0.59
7	101.5	46.44	0.61

Figures based on gas 0.6SG nominal.

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# EQUIPMENT AND ANCILLARIES



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# GATOR 2

AUTOMATIC BUTT FUSION MACHINE

## FOUR OPTIONS

- 63-180mm
- 63-250mm
- 90-315mm
- 200-400mm



The Gator 2 range of butt fusion machines have been designed and developed to be used on gas and water pressure polyethylene pipes for distribution networks.

An integral computer controls and monitors all jointing parameters automatically; time, temperature, pressure, movement and sequence.

**Put simply, the best fully automatic butt fusion machine in the world.**



The best possible control of the joining process is achieved through an integral computer which will control and monitor all the jointing parameters automatically: time, temperature, pressure, movement and sequence.

The welding process will not continue if any of these parameters are not within the specified limits contained in the selected welding standard.

### Product information

Over twenty internationally approved butt welding standards including ISO 21307

Manufactured to ISO 12176 part 3 and part 4 compliant

Fully automatic parameters

Electronic trim stops protect against over trimming

Large backlit display with simple user multilingual interface

Fast clamp system to improve productivity

High quality electro-hydraulic pump, motor, valves and control circuit

Modular components give smallest/narrowest footprint - ideal for in-trench welding

Heater and trimmer stand are combined for space and weight saving

### Designed and manufactured to

ISO 12176-1 and compliant to parts 3 and 4

GIS/PL2-3

IP54 Rated

### Data output

Printer - Thermal Paper

USB Memory device -

Text file / Caldersafe® Weld Analyser

Bluetooth - Caldersafe® Mobile

### Memory

Internal memory capacity: Up to 2,000 records

Back up to SD card: Up to 400,000 records

Caldersafe® Mobile – Unlimited records



### Removable clamp

The fourth clamp on the Gator 2 can be removed to facilitate the butt fusion of long spigot fittings

## GATOR 2 AUTOMATIC BUTT FUSION MACHINE

1280/00-001

### GATOR 2 / AUTOMATIC BUTT FUSION MACHINE

Reference code	Gator 2 size mm	Theoretical weight/kg	Description	Plug type
G180220AFG	180	114 # / 119 †	220 volt – black 2 pin plug – Type F16A	
G250220AFG	250	127 # / 133 †		
G315220AFG	315	156 # / 163 †		
G400220AFG-2	400	190 # / 198 †	220 volt – blue 3 pin plug – BS4343 16A	
G180220AFE	180	114 # / 119 †		
G250220AFE	250	127 # / 133 †		
G315220AFE	315	156 # / 163 †		
G400220AFE-2	400	190 # / 163 †	220 volt – blue 3 pin plug – BS4343 32A	

# Combined chassis, heater, trimmer and controller.

† Combined chassis, heater, trimmer and controller with protective cradle.

Alternative plug types and customisation available upon request.

### GATOR 2 SPECIFICATIONS

Range	Gator 2 - 180 63-180mm	Gator 2 - 250 63-250mm	Gator 2 - 315 90-315mm	Gator 2 - 400 200-400mm
Nominal input voltage (V)	220	220	220	220
Input frequency (Hz)	50-60	50-60	50-60	50-60
Recommended generator output (KVA)	5.0	5.0	7.5	10.0

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Continued

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.





# GATOR 2

AUTOMATIC BUTT FUSION MACHINE

## Fully automatic features

1. Machine sequencing
2. Trim and feathering cycle
3. Pipe slippage check
4. Static and dynamic drag measurement
5. Heater plate temperature control
6. Initial bead up distance control
7. Heater retraction
8. Pressure control at bead up, soak, fusion, and cool time phases
9. Out of specification early warnings

## Operator contribution

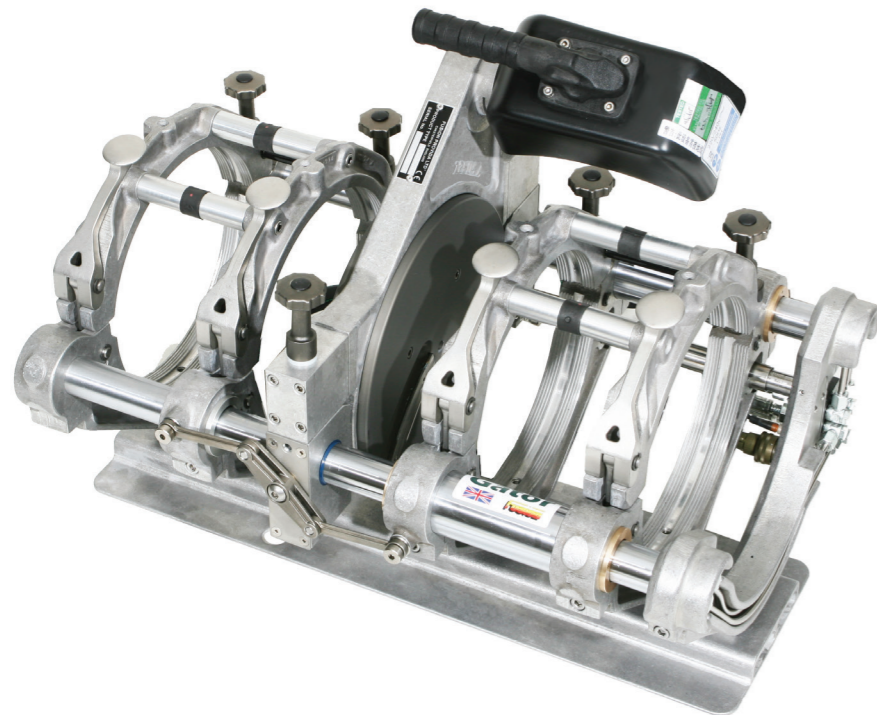
1. Input pipe and operator details
2. Inspect and approve trim

## Preprogrammed parameters

1. Over twenty internationally approved welding standards containing specified:
  - Heater temperatures
  - Fusion pressures
  - Soak times
  - Cooling times
2. Data management systems
3. Diagnostic routines

## Continuously monitored

Temperature	°C
Movement	mm
Pressure	Bar
Time	Seconds
Trimmer current	Amps
Heater continuity	Ω
Pipe slippage	mm
Oil level	ml



# GATOR 2 AND WELDA 2 LINERS ALUMINIUM AND PLASTIC

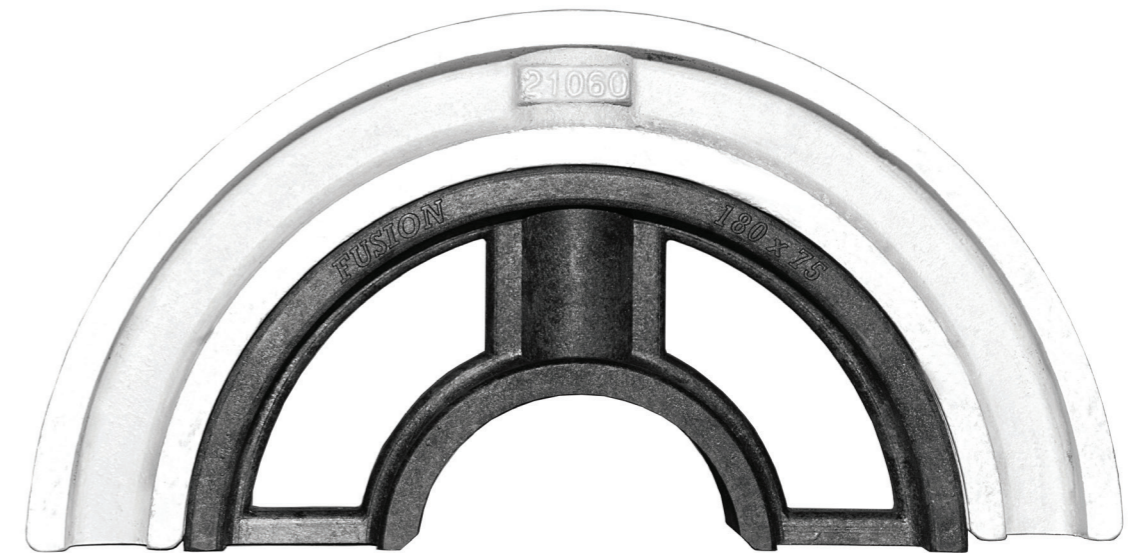
1282/60-001

## GATOR 2 AND WELDA 2 / LINERS / ALUMINIUM AND PLASTIC

Aluminium reference code	Plastic reference code	Size mm	To fit machine sizes
BFL400355	N/A	400x355	400
BFL400315	N/A	400x315	400
BFL315280	N/A	315x280	400/315
BFL315250	N/A	315x250	400/315
BFL315200	N/A	315x200	400/315
BFL250225	BFL250225PT	250x225	400/315/250
BFL250200	BFL250200PT	250x200	400/315/250
BFL250180	BFL250180PT	250x180	400/315/250
BFL180160	BFL180160PT	180x160	315/250/180
BFL180140	BFL180140PT	180x140	315/250/180
BFL180125	BFL180125PT	180x125	315/250/180
BFL180110	BFL180110PT	180x110	315/250/180
BFL18090	BFL18090PT	180x90	315/250/180
BFL18075	BFL18075PT	180x75	250/180
BFL18063	BFL18063PT	180x63	250/180

## Features

- Butt Fusion liners are designed to maximise the size range of the machine due to reducing shell design
- All sizes are available in cast aluminium
- Available in an engineering plastic called Noryl. Noryl liners are extremely tough and very light
- Liners are compatible with all Gator 2 and Welda 2 machines



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# WELDA 2

MANUAL BUTT FUSION MACHINE

## FOUR OPTIONS

- 63-180mm
- 63-250mm
- 90-315mm
- 200-400mm



The Welda 2 range of manual butt fusion machines have been designed and developed to be used on gas and water pressure polyethylene pipes for distribution networks.

Featuring a fast clamping mechanism, electronically regulated heater temperature, replaceable heater surface plates and a compact design, these machines make the fusion process easy and guarantee performance every time.



Product information
4 different options available capable of welding pipe in the range 63-180mm, 63-250mm, 90-315mm and 200-400mm
Fast clamping
Lightweight compact machine
Toolless repositionable 3rd clamp
Heater pull off mechanism
Large easy to read pressure gauge
150 Bar operating system
Trimmer safety switch
Electronically regulated heater temperature
Replaceable heater surface plates
Non-drip quick release hydraulic connections
Heater and trimmer stand

Optional extras
Aluminium and plastic liners, reducing shell design
Stub flange adaptor
Bevel shells for short spigot fitting
Data Logger and Welding App



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Butt fusion liners	251

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



## WELDA 2 MANUAL BUTT FUSION MACHINE ORDER CODES

1280/05-001

Reference code	Welda 2 size mm	Theoretical weight/kg	Range mm	Minimum generator output KVA	Description	Plug type
W180220MFE-2	180	99.5	63-180	5	220V Blue 3 pin plug	 
W250220MFE-2	250	111	63-250	5	220V Blue 3 pin plug	
W315220MFE-2	315	138.7	90-315	7	220V Blue 3 pin plug	
W400220MFE-2	400	178	200-400	8	220V Blue 3 pin plug	
W180220MFG-2	180	99.5	63-180	5	220V Black 2 pin plug	
W250220MFG-2	250	111	63-250	5	220V Black 2 pin plug	
W315220MFG-2	315	138.7	90-315	7	220V Black 2 pin plug	
W400220MFG-2	400	178	200-400	8	220V Black 2 pin plug	

## WELDA 2 AND GATOR 2 LINERS ALUMINIUM AND PLASTIC

1282/60-001

Aluminium reference code	Plastic reference code	Size mm	To fit machine sizes
BFL400355	N/A	400x355	400
BFL400315	N/A	400x315	400
BFL315280	N/A	315x280	400/315
BFL315250	N/A	315x250	400/315
BFL315200	N/A	315x200	400/315
BFL250225	BFL250225PT	250x225	400/315/250
BFL250200	BFL250200PT	250x200	400/315/250
BFL250180	BFL250180PT	250x180	400/315/250
BFL180160	BFL180160PT	180x160	315/250/180
BFL180140	BFL180140PT	180x140	315/250/180
BFL180125	BFL180125PT	180x125	315/250/180
BFL180110	BFL180110PT	180x110	315/250/180
BFL18090	BFL18090PT	180x90	315/250/180
BFL18075	BFL18075PT	180x75	250/180
BFL18063	BFL18063PT	180x63	250/180

### Features

- Butt Fusion liners are designed to maximise the size range of the machine due to reducing shell design
- All sizes are available in cast aluminium
- Available in an engineering plastic called Noryl. Noryl liners are extremely tough and very light
- Liners are compatible with all Gator 2 and Welda 2 machines



# WELDA 500

MANUAL  
BUTT FUSION MACHINE  
250 - 500mm

The Welda 500 is a powerful butt fusion machine packed with quality and safety features enabling a single operator to complete 500mm butt fusion joints with minimum effort.

The fast and controlled ejection of the heater plate and trimmer ensures efficiency and higher quality joints while promoting safe working; and when used with a pipe lifter, minimises manual lifting.



## Product information

Pipe welding size range 250 - 500mm

Swing in/out heater and trimmer

One person quick and safe operation

Single unit: No heater and trimmer stands

Repositionable 3rd clamp

Heater pull off mechanism

Large easy to read pressure gauge

Trimmer safety switch

Electronically regulated heater temperature

Replaceable heater surface plates

Non-drip quick release hydraulic connections

## Optional extras

Aluminium and plastic liners, reducing shell design

Stub flange adaptor

Bevel shells for short spigot fitting

Compact trolley and winch kit

Data Logger and Welding App

## WELDA 500 MANUAL BUTT FUSION MACHINE ORDER CODES

1280/05-001

### WELDA 500 / MANUAL BUTT FUSION MACHINE

Reference code	Welda size mm	Theoretical weight/kg	Range mm	Cylinder standard force cm <sup>2</sup>	Description	Minimum generator output KVA
W500220MFE	500	420	250 - 500	14.14	220V Blue 3 pin plug	9
W500220HFMFE	500	420	250 - 500	31.42	220V Blue 3 pin plug - High Force	9

Note: Welda 500 aluminium liners available upon request.

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# EXTERNAL DEBEADER

1282/30-001

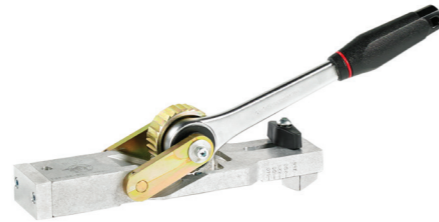
## Features

Easily adjusts to pipe diameter, allowing the blade to cut under the bead without damaging the surface of the pipe

High quality heat treated ground cutting blades

Replacement blades available

Comes complete with storage box



Used to remove external beads after butt fusion joint completion. External bead removal plays a key role in establishing joint integrity and is necessary when undertaking slip-lining or swage lining projects.

### EXTERNAL DEBEADER

Reference code	Range mm	Bead width mm	Theoretical weight/kg
EXTDBS	63-125mm	15	0.8
EXTDB	90-400mm	30	1.8
EXTDBL	355-630mm	35	3.4
EXTDBXL	400-900mm	40	3.5

Note: External debeader spare blades available upon request.

# INTERNAL DEBEADER

1282/30-002

## Features

Rods can be quickly clipped together to debead pipe lengths up to 13m

Bead retained in head after removal process for later inspection/archiving

Robust build quality

Simple to assemble

Facilitates quality control procedures from visual bead inspection and bend back test

Rods come in robust canvas bag

Heads and ancillary components are housed in a steel box with carry handles

Note: Each debeader head size has multiple settings. These are referred to in the table as A, B, C or D. To select the correct head size you will need to know the outer diameter of the pipe you wish to debead (see first column) and its SDR.

### SELECTION CHART

SDR	44	32	26	17	11	7.3
OD mm	Head size					
110				1(B)	1(A)	
125				1(D)	1(C)	1(A)
140				1(A)	1(D)	1(C)
160	2(B)	2(B)	2(B)	2(B)	2(B)	1(D)
180	3(A)	2(C)	2(C)	2(C)	2(B)	2(B)
200	3(A)	3(A)	3(A)	3(A)	2(C)	2(B)
225	3(B)	3(B)	3(B)	3(B)	3(A)	2(C)
250	3(C)	3(C)	3(C)	3(C)	3(B)	3(A)
280	4(B)	4(B)	4(B)	3(C)	3(C)	3(B)
315	4(C)	4(C)	4(C)	4(B)	4(A)	3(C)
355	4(D)	4(D)	4(D)	4(C)	4(C)	4(A)
400				4(D)	4(C)	4(B)
450				4(D)	4(D)	

The internal debeader is a manual kit for the simple and effective removal of internal beads formed during the butt fusion process. The internal debeader can debead polyethylene pipes in the size range 110 - 400mm (450mm with adaptor).

### INTERNAL DEBEADER

Reference code	Description	Theoretical weight/kg
IBRTKIT/1.2A	Internal bead removing tool 110-400mm	85
FES-31681	Spare blade for head 1 and 2	N/A
FES-32187	Spare blade for head 3 and 4	N/A

### IBRTKIT CONTAINS THE FOLLOWING ITEMS

These items are also available as spares

Reference code	Description
FES-11769	1 x storage box
FES-11560	1 x drive handle
FES-21459	1 x no. 1 size head
FES-21457	1 x no. 2 size head
FES-21453	1 x no. 3 size head
FES-21451	1 x no. 4 size head
N/A	2 x Allen keys
N/A	1 x set operating instructions
FES-32740	3 x size 1 rod supports
FES-31754	3 x size 2 rod supports
FES-21803	3 x size 3 rod supports
FES-21310	3 x size 4 rod supports
FES-21859	3 x size 4b rod supports
FES-69046	1 x rod bag
FES-21560	6 x 2 meter rods
FES-21618	1 x 1 meter rod



# ADJUSTABLE PIPE LIFTER 400

1282

## Features

Simple lever mechanism which improves productivity

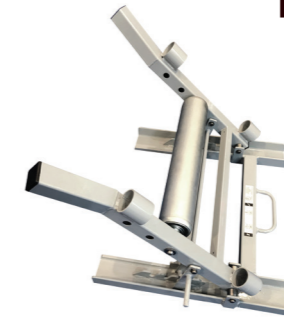
Fully adjustable lifting range and all steel construction

Heavy duty construction

Folds flat for easy storage and transportation

Works in conjunction with pipe support rollers

Compatible with all butt fusion machines from 180mm to 400mm



The Adjustable Pipe Lifter 400 is a simple, robust and effective device which assists with the ejection and movement of polyethylene pipes during the welding process.

### ADJUSTABLE PIPE LIFTER 400

Reference code	Description	Range mm	Theoretical weight/kg
PIPELIFT400	Adjustable Pipe Lifter 400	up to 400mm	22

# PIPE SUPPORT ROLLERS

1282/61-001

## Features

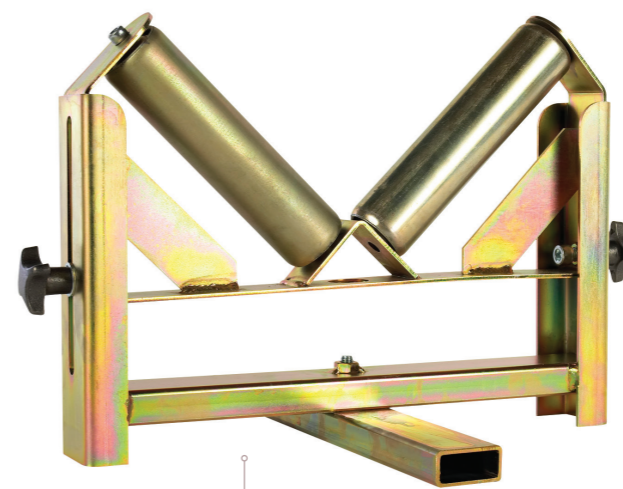
Adjustable pipe rollers covering the range from 63mm to 710mm

Easy storage design

Adjustable pipe support rollers are ideal for use with automatic and manual butt fusion machines and are used to assist the butt fusion welding process.

### PIPE SUPPORT ROLLERS

Reference code	Description	Range mm	Weight per roller
PSROLL315	315 adjustable roller (pair)	63-315mm	5
PSROLL400	400 adjustable roller (pair)	63-400mm	18
PSROLL630	630 adjustable roller (pair)	63-630mm	52
PSROLL355	355 adjustable roller (single)	63-355mm	5
PSROLL710	710 adjustable roller (single)	63-710mm	18



355/710mm



315mm



400mm



630mm

# FUSAMATIC F90

230V ELECTROFUSION WELDING MACHINE

**WELDS 20-1000mm**  
FUSAMATIC ELECTROFUSION FITTINGS



The F90 is a high-performance, robust electrofusion welding machine designed to weld fittings for gas, water, and other pressure pipe applications up to 1000mm in diameter.

Ideal for complex infrastructure projects and utility connections, this advanced welding machine comes equipped with Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard.

## Product information

Fitting size range 20mm to 1000mm diameter
Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard
Protective Field Cage: 23kg including cables
Protective Field Armour: 30kg including cables
Screen protected by hard-wearing scratch-resistant polycarbonate
Pin adaptors included as standard. Welds both 4.0mm and 4.7mm pin fittings (4mm fixed lead)
Multiple language options available
Mains input cable length: 10 Meters
Fusion output cable length: 4 Metres
Data capture: USB and Mobile App
Internal memory of 2,000 up to joint records
Temperature compensation via barcode functionality
Supervisor and Operator access levels

## Designed and manufactured to

ISO12176-2 Electrofusion
ISO12176-2 Classification (P23US2FVKADX)
ISO12176-3 Operator Badge F90 Barcode Only
ISO12176-4 Traceability Coding F90 Barcode Only

Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

## Accessories

Electrofusion fittings	5
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# F-SERIES



## FUSAMATIC F90 230V ELECTROFUSION WELDING MACHINE ORDER CODES

1281/00-012



### FUSAMATIC F90 / 230V ELECTROFUSION WELDING MACHINE

ORDER CODE	Barcode Scanner	2 Pin Plug	3 Pin Plug	3 Pin Plug Australian	Region	Welding range mm	L mm	W mm	H mm	Barcode scanner included	Theoretical weight/kg
F90220V-ENG3P-BCF	●		●		UK	20-1000	330	330	320	Yes	23
F90220V-EUR2P-BCF	●	●			EUROPE	20-1000	330	330	320	Yes	23
F90220V-AUS3P-BCF	●			●	AUSTRALIA	20-1000	330	330	320	Yes	23

F90 - 230V Automatic electrofusion welding machine comes with a Field Cage, CCD scanner and 4.0mm/4.7mm lead end adaptors as standard.

### F90 heavy-duty protection with Field Cage or Field Armour

The Field Armour and Field Cage options include the F90 electrofusion machine, providing robust protection and durability for tough conditions while keeping everything safe and secure.

Replace the 'F' with a 'H' at the end of the order code for the Field Armour option.



F90 Field Cage with stainless steel face plate



F90 Field Armour



Continued

# FUSAMATIC F60

230V ELECTROFUSION WELDING MACHINE

**WELDS 20-200mm**  
FUSAMATIC ELECTROFUSION FITTINGS



The F60 is a compact, lightweight electrofusion welding machine designed to weld fittings for gas, water, and other pressure pipe applications up to 200mm in diameter.

Perfect for day-to-day service and utility connections, this versatile welding machine comes equipped with Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard.

### Product information

Fitting size range 20mm to 200mm diameter
Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard
Protective Field Pack: 12kg including cables
Protective Field Armour: 17kg including cables
Screen protected by hard-wearing scratch-resistant polycarbonate
Pin adaptors included as standard. Welds both 4.0mm and 4.7mm pin fittings (4mm fixed lead)
Multiple language options available
Mains input cable length: 3.5 Meters
Fusion output cable length: 3.5 Metres
Data capture: USB and Mobile App
Internal memory of 2,000 up to joint records
Temperature compensation via barcode functionality
Supervisor and Operator access levels

### Designed and manufactured to

ISO12176-2 Electrofusion  
ISO12176-2 Classification (P23US2FVKADX)  
Note: Regional variations may apply to some of the standards referenced. Please contact us for further details.

### Accessories

Electrofusion fittings	5
Generators	278
Fusion Assist	

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



A dedicated member of the **AR** Group

## F SERIES



### FUSAMATIC F60 230V ELECTROFUSION WELDING MACHINE ORDER CODES

1281/00-010



FUSAMATIC F60 / 230V ELECTROFUSION WELDING MACHINE											
ORDER CODE	Barcode Scanner	2 Pin Plug	3 Pin Plug	3 Pin Plug Australian	Region	Welding range mm	L mm	W mm	H mm	Barcode scanner included	Theoretical weight/kg
F60220V-ENG3P-BC	●		●		UK	20-200	215	385	275	Yes	12
F60220V-EUR2P-BC	●	●			EUROPE	20-200	215	385	275	Yes	12
F60220V-AUS3P-BC	●			●	AUSTRALIA	20-200	215	385	275	Yes	12

F60 - 230V Automatic electrofusion welding machine comes with a Field Pack, CCD scanner and 4.0mm/4.7mm lead end adaptors as standard.

### F60 lightweight, easy-to-carry 12kg Field Pack or Field Armour

The F60's protective Field Pack combines durability with a compact design, including the machine, cables, and bag, ensuring easy transport without sacrificing equipment protection.

Include a 'H' at the end of the order code for the Field Armour option.



F60 Field Pack



F60 Field Armour



Continued

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# SPECIFICATIONS AND TECHNICAL DETAILS



## F90 | F60



The F-Series electrofusion machines are built to meet diverse operational demands.

### SUPPLY

FUSAMATIC F90 / F60			
	F90 / F60		
	Minimum	Typical	Maximum
Input Voltage (230v)	195v	230v	270v
Input Frequency	37Hz	50Hz	62Hz
Input power rating	230 VA to 3600 VA		

### OUTPUT

FUSAMATIC F90			
	F90		
	Minimum	Typical	Maximum
Output 40v Fusamatic/Automatic Fitting	39.5v Fixed		
Output Voltage Barcode and Manual	8v	-	48v
Output Current	1A	-	90A
60% Duty Cycle output ISO12176-2	60A		
Peak Current <60seconds	90A		

FUSAMATIC F60			
	F60		
	Minimum	Typical	Maximum
Output 40v Fusamatic/Automatic Fitting	39.5v Fixed		
Output Voltage Barcode and Manual	8v	-	48v
Output Current	1A	-	60A
60% Duty Cycle output ISO12176-2	30A		
Peak Current <60seconds	60A		

### OPERATING MODES

FUSAMATIC F90 / F60		
	F90	F60
Fusamatic	Max 900 seconds	Max 600 seconds
Manual	3-4000 seconds	3-600 seconds
Barcode	3-4000 seconds	3-600 seconds

### MEMORY AND DATA OUTPUT

FUSAMATIC F90 / F60		
	F90	F60
Internal memory capacity	Up to 2,000 records	Up to 2,000 records
Welding report outputs	USB and Mobile App	USB and Mobile App

### ENVIRONMENT

FUSAMATIC F90 / F60		
	F90 / F60	
	Minimum	Maximum
Operating temperature	-20°C	+50°C
Storage temperature	-20°C	+50°C
Environmental Protection	IP54	

### CABLE LENGTH

FUSAMATIC F90 / F60		
	F90	F60
Input cable	10m	3.5m
Output cable	4m	3.5m

### WEIGHTS

FUSAMATIC F90 / F60		
	F90	F60
Field Pack	-	12kg
Field Cage	23kg	-
Field Armour	30kg	17kg

### DIMENSIONS

FUSAMATIC F90 / F60				
	F90	F90	F60	F60
	Field Cage	Field Armour	Field Pack	Field Armour
Length mm	330	560	215	570
Width mm	330	440	385	340
Height mm	320	310	275	340

### STANDARDS

FUSAMATIC F90 / F60 / ISO CLASSIFICATION		
	F90	F60
ISO12176-2 Electrofusion	YES	YES
ISO12176-2 Classification	P22US3FVKADX	P22US2FVKADX
ISO12176-3 Operator Badge	YES	YES
ISO12176-4 Traceability Coding	YES	YES

#### CONSISTENT WELDS IN ANY TEMPERATURE

The built-in temperature compensation maintains accuracy, even as ambient temperatures fluctuate, delivering precise and reliable joints using barcode parameters for fittings that require them.

#### MULTILINGUAL INTERFACE FOR GLOBAL USABILITY

The F-Series is ready for international use with a multilingual interface, allowing operators worldwide to use it in their preferred language.

#### EXTENDED CABLE REACH FOR GREATER FLEXIBILITY

Designed with cable lengths to access hard-to-reach joints, the F-Series optimises on-site workflow and enhances flexibility across applications.

#### MEETS THE HIGHEST INTERNATIONAL STANDARDS

With compliance across multiple standards, the F-Series stands out as a leader in electrofusion quality, reliability, and safety, providing you with peace of mind on every project.

#### SMART COMPATIBILITY WITH FUSAMATIC FITTINGS

Integrated Fusamatic automatic fitting recognition enables a seamless setup for every weld, providing perfect results and ease of use with each connection.

#### VERSATILE WELDING RANGE FROM 20-1000mm

With the flexibility to weld pipes from 20mm to 1000mm, the F-Series handles diverse project needs, allowing you to tackle both small and large-scale installations.

#### NON-STOP WELDING POWER FOR DEMANDING JOBS

Designed for continuous performance, the F-Series supports efficient, uninterrupted welding, reducing time spent on site.

#### GLOBAL SUPPORT WHEN AND WHERE YOU NEED IT

Fusion's network of global repair and service centres provides localised support, so you can depend on expert assistance wherever your projects take you.

#### PERFECT FOR WELDING SMALLER CONNECTIONS

Perfectly suited for pipes up to 200mm, the F60 provides reliable welding performance, improving mobility and efficiency in your workflow.

#### BARCODE SCANNER FOR TRACEABILITY

The F-Series machines come equipped with a CCD barcode scanner as standard, enabling operators to scan fitting barcodes for seamless traceability and precise weld documentation. Additionally, the ISO 12176 traceability barcode can be scanned, further enhancing on-site traceability when using the Fusamatic automatic system.



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# UNIPREP SCRAPER

1282/40-002

## Features

Four Uniprep Scrapers suitable for the following pipe sizes: 63 - 250mm, 90 - 400mm, 125 - 500mm and 450 - 710mm

Fast and consistent scraping action

Suitable for all SDR rated pipe

Four sided tungsten scraping tip

Accurately controlled depth of cut – 0.25mm ± 0.05mm

Lightweight die-cast aluminium body

Spring loaded tip for irregular shaped pipe

Quick release after pipe scraping, using post locking screw

## Optional extras

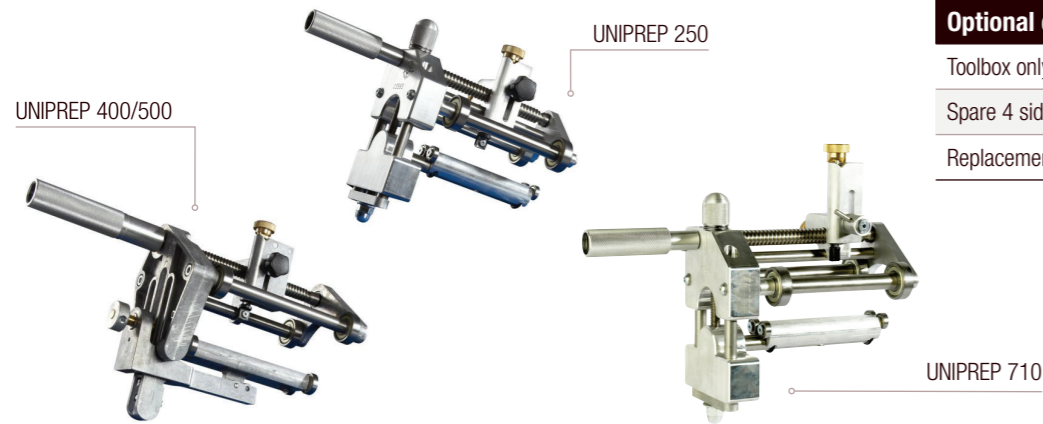
Toolbox only

Spare 4 sided scraping tip

Replacement tip holder

Uniprep scrapers are high productivity tools, used for preparing pipe ends prior to electrofusion.

UNIPREP SCRAPER				
Reference code	Description	Scrape length mm	Theoretical weight/kg	Spare blade code
UNIPREP250	Uniprep scraper 63 - 250mm	130	3	UNIPREP22
UNIPREP400	Uniprep scraper 90 - 400mm	150	3.5	UNIPREP22
UNIPREP500	Uniprep scraper 125 - 500mm	180	4	UNIPREP22
UNIPREP710	Uniprep scraper 450 - 710mm	345	5	UNIPREP22



# UNIVERSAL SCRAPER

1282/40-003

## Features

Suitable for pipe sizes from 63 - 250mm

Suitable for all commonly used SDR rated pipe

Correct length of scrape is pre-set

Fixed, serrated blade driven around the pipe using ratchet handle

Internal roller action holds the cutting blade against the pipe

Comes complete with carry case, spare blade and cleaning brush

Universal scrapers provide a convenient means of preparing pipe ends prior to electrofusion jointing.



UNIVERSAL SCRAPER		
Reference code	Description	Theoretical weight/kg
UNISCRP	Universal scraper 63 - 250mm	4.5

Note: Universal scraper spare blades available upon request.



# MULTISGRAPE KIT

1282/40-001

## Features

Suitable for pipe sizes from 20 - 63mm

Portable, strong and durable in design

Comes with a choice of solid or expandable mandrels

Mandrels support the pipe ends

Mandrels aid pipe re-rounding, cover a variety of pipe sizes and SDR's

Spring loaded blade ensures that the optimum depth of cut is achieved

Hardened steel blade design, indexable with two cutting edges

Sprung loaded arm facilitates use on coiled and oval pipe

Kit comes in portable carry case

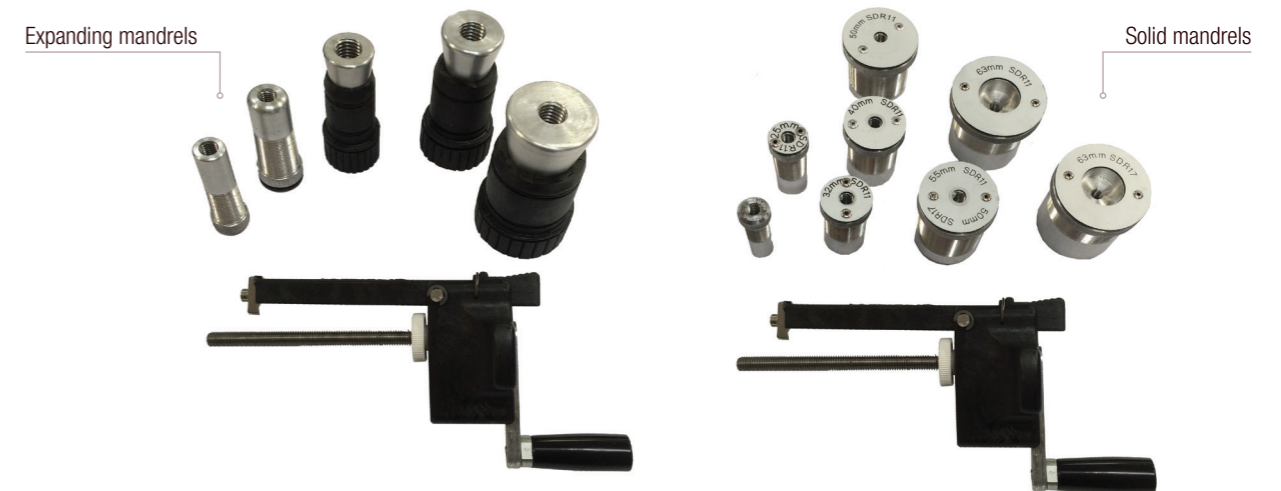
## Optional extras

Spare parts available upon request

The Multisgrape Kit is a versatile pipe scraper which is portable, strong and durable. Designed specifically with coiled pipe in mind, the tool delivers consistent results over traditional hand scraping.

MULTISGRAPE KIT	
Reference code	Description
MULTISGRAPEKIT	Tool including complete set of solid mandrels and spare blade in case
MULTISCRKITEM	Tool including 20mm and 25mm solid mandrels and small, medium and large expanding mandrels in case
MULTISGRAPE	Tool only

MULTISGRAPE KIT			
Diameter range mm	SDR range	Case dimensions mm	Weight - Kg Complete kit
20/25/32/40/50/55/63	11 - 17	275x225x90	2.5





# MULTI CLAMP

## MAINS RESTRAINING / REROUNDING CLAMP

The multi-clamp kit has been specifically designed for easier alignment and restraint of a whole range of electrofusion fittings and suits narrow trenching techniques.



1282/10-001

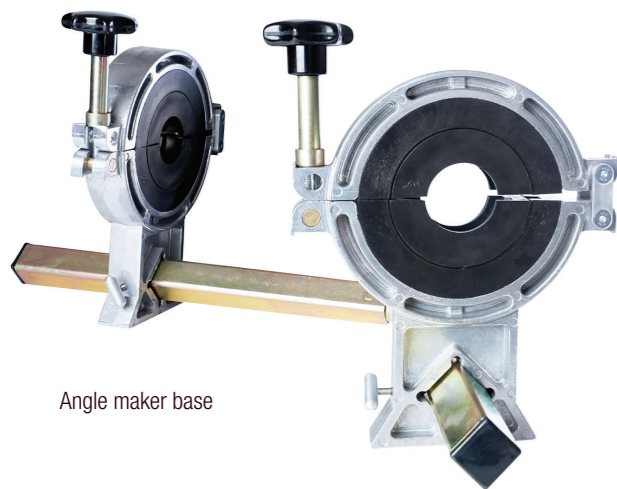
### Features

- Suitable for pipe sizes 63 - 180mm
- Quick to install and easy to use
- Lightweight die cast aluminium with extruded lightweight base
- Injection moulded ABS reducing liner shells
- Available in 2 or 3 way configuration
- Lightweight die-cast aluminium body
- Available with straight or angle maker base
- Suits narrow trenching techniques
- Facilitates full re-rounding and restraint during electrofusion
- Top clamp hinges facilitates use in narrow trenches
- The dovetail assembly allows complete rotation through 360° to suit any pipe and fitting configuration (large diameter tees require extra base, ring and liners)

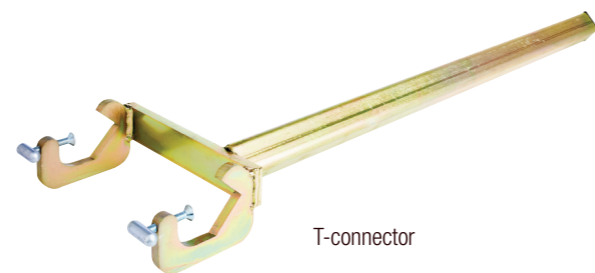
MULTI CLAMP KIT / UNIVERSAL	
Reference code	Theoretical weight/kg
MCKIT180	13.5
CONTENTS	
1 x Plastic container	
2 x Basic 180mm rings + slide blocks	
4 x 180mm x 125mm liner segments	
4 x 125mm x 90mm liner segments	
4 x 125mm x 63mm liner segments	
2 x 460mm bases	
1 x Allen key	
1 x Spanner	
1 x T-connector	

MULTI CLAMP KIT / BASIC	
Reference code	Theoretical weight/kg
MCKIT180B	9.5
CONTENTS	
1 x Carrying bag	
2 x Basic 180mm rings + slide blocks	
4 x 180 x 125mm liner segments	
4 x 125 x 90mm liner segments	
4 x 125 x 63mm liner segments	
1 x 600mm base	
1 x Allen key	

OPTIONAL EXTRAS AND SPARE PARTS	
Reference code	Description
FES-12390	180mm ring
FES-132000	125 - 180mm base
FES-148500	180mm extended base
FES-22541	180 x 160mm liner segments
FES-22540	180 x 140mm liner segments
FES-21607	180 x 125mm liner segments
FES-31784	160 x 110mm liner segments
FES-33812	160 x 75mm liner segments
FES-33354	125 x 90mm liner segments
FES-33356	125 x 63mm liner segments
FES-33358	T-connector



Angle maker base



T-connector

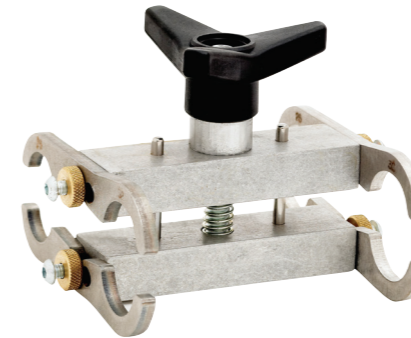
Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# MINI CLAMP

## SERVICE PIPE CLAMP

The Mini Clamp is designed to restrain and align pipe and fittings for service connections during the electrofusion process. Suitable for pipes and fitting sizes 16, 20, 25 and 32mm.



1282/10-002

### Features

- Suitable for pipe sizes 16, 20, 25 and 32mm
- Simple and easy to use
- Compact design
- Robust construction with cast aluminium body
- Designed to restrain and align pipe and fittings for service connections
- Promotes re-rounding and restraint during electrofusion
- Reducers, couplers and tapping tee outlets can be accommodated
- Interchangeable arms for each pipe size

MINI CLAMP		
Reference code	Description	Theoretical weight/kg
MINICLAMP	16, 20, 25 and 32mm Mini Clamp	1

# VERSA CLAMP

## SERVICE PIPE CLAMP

The Versa Clamp is designed to restrain and align pipe and fittings for service connections during the electrofusion process. Suitable for pipe and fitting sizes 16, 20, 25 and 32mm. Can be used on 90° and 45° elbows and straight connections.



1282/10-003

### Features

- Suitable for pipe sizes 16, 20, 25 and 32mm
- Can be used on 90° and 45° elbows and straight connections
- Pocket size
- Ultra lightweight design
- Multi angle
- Cost efficient
- Available with tough engineered plastic or aluminium steel kit
- Works in tight spaces with Multi Seal and Flex Tee electrofusion tapping tees

VERSA CLAMP		
Reference code	Description	Theoretical weight/kg
VERSACLAMP20	20mm Multi angled clamp – Engineered plastic	0.2
VERSACLAMP25	25mm Multi angled clamp – Engineered plastic	0.2
VERSACLAMP32	32mm Multi angled clamp – Engineered plastic	0.2
VERSACLAMP16-32	16-32mm Multi angled clamp metallic kit	2.2



Straight Connections



90° Elbows



45° Elbows

# ELBOW CLAMP

## SERVICE PIPE CLAMP

1282/10-004



ELBOWCLAMP20-32

The Elbow Clamp is designed to restrain and align pipe and fittings for service connections during the electrofusion process. Suitable for clamping 20, 25 and 32mm service pipe when fusing 90° elbows.

### Features

- Suitable for pipe sizes 20, 25 and 32mm
- Suitable for 90° electrofusion elbows
- Pocket size
- Available with tough engineered plastic or aluminium steel kit
- Compact lightweight aluminium and steel design
- Works in tight spaces

### ELBOW CLAMP

Reference code	Description	Theoretical weight/kg
ELBOWCLAMP20	20mm Elbow Clamp – Engineered plastic	0.1
ELBOWCLAMP25	25mm Elbow Clamp – Engineered plastic	0.1
ELBOWCLAMP32	32mm Elbow Clamp – Engineered plastic	0.1
ELBOWCLAMP20-32	20-32mm Elbow Clamp metallic kit	1.1



90° Elbow clamp - 20mm pipe



90° Elbow clamp - 25mm pipe

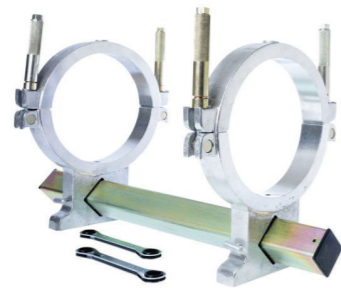


90° Elbow clamp - 32mm pipe

# ALIGNMENT CLAMP

## MAINS RESTRAINING CLAMP

1282/10-006



The Alignment Clamp mains restraining clamp will hold HDPE pipe securely during the welding process whilst also providing excellent rerounding abilities for coiled pipe. Suitable for jointing 250mm electrofusion couplers.

### Features

- Suitable for jointing 250mm electrofusion couplers (180mm with liners)
- Quick to install and easy to use
- Lightweight die cast aluminium
- Facilitates full rerounding and restraint during electrofusion
- Hinged with pins for ease of pipe positioning in trench – facilitates use in narrow trenches
- Fixed clamp position
- Robust construction

### Optional extras

- Liners available for smaller sizes
- Three-way configuration
- Angle maker base

### ALIGNMENT CLAMP

Reference code	Description	Theoretical weight/kg
FES-01-15-014	250mm Alignment Clamp	17.2

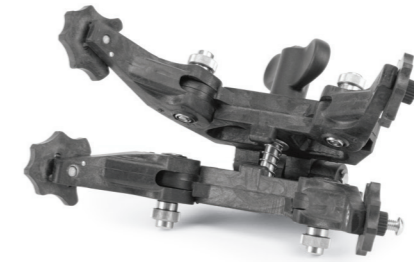
Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# MINI AND MAXI POSI CLAMP

## SERVICE PIPE CLAMP

1282/10-005



The Mini and Maxi Posi is designed to restrain and align pipe and fittings for service connections during the electrofusion process. Suitable for pipe and fitting sizes 20-40mm and 32-63mm. Can be used for couplers, reducers, end caps, equal tees, reducing tees, 90° and 45° elbows.

### Features

- Suitable for pipe sizes 20-40mm and 32-63mm
- Can be used on couplers, reducers, end caps, equal tees, reducing tees and 90° and 45° elbows
- Lightweight design
- Manufactured from tough engineering plastic (Noryl)
- Can be used on Multi Seal Tapping Tees where couplers are connected to the outlet
- All nuts and adjustments are fully captive and therefore cannot be lost

### MINI AND MAXI POSI CLAMP

Reference code	Description	Range mm	Theoretical weight/kg
MINIPOSI	Couplers, Reducers, End Caps, Equal and Reducing Tees, 45° and 90° Elbows	20/25/32/40	0.5
MAXIPOSI	Couplers, Reducers, End Caps, Equal and Reducing Tees, 45° and 90° Elbows	32/40/50/63	1.0



Maxi Posi clamp 90° Elbow



Maxi Posi clamp on Multi Seal tapping tee

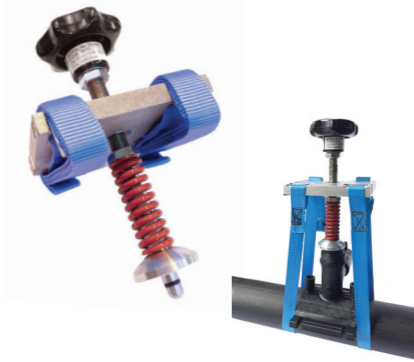


Maxi Posi clamp coupler

# TOP LOAD CLAMP

## WEBBING STRAP MOUNTED

1282/10-007



The webbing strap mounted clamp for top loading saddles applies the correct force onto top loaded saddles during the welding process. Suitable for pipes and fittings in the range 63-500mm.

### Features

- Suitable for pipe sizes 63-500mm
- Designed for tapping saddles
- Self locking non-slip cam design
- Easy to use
- Lightweight
- Strong, durable design
- Ideal for use in confined spaces
- Indicator (when flush) at top of clamp, shows that the correct clamping force is applied to the fitting

### TOP LOAD CLAMP

Reference code	Description	Theoretical weight/kg
TLOADCLAMPA	63-500mm Top Load Clamp	1

### Optional extras

- Branch Saddle adapter foot available



When the indicator at the top of the clamp is flush this shows that the correct clamping force is applied to the fitting.

Note: We strive for accuracy in our brochure, but specifications may change due to continuous product improvement and range extension. Dimensions are nominal and box quantities may vary. For the latest information, visit [www.fusiongroup.com](http://www.fusiongroup.com)

# STRAP CLAMP 200 STRAIGHT ALIGNMENT CLAMP

1282/10-008

## Features

Suitable for pipe sizes 40 - 200mm

For use with electrofusion couplers

Lightweight construction

Compact design

Fast acting 'tug and tension' straps

Works above, below or alongside the joint

No liners required

Available in single and double clamp format

## Optional extras

Page

Strap Clamp 200 Knuckle 270

T-Adaptor 271

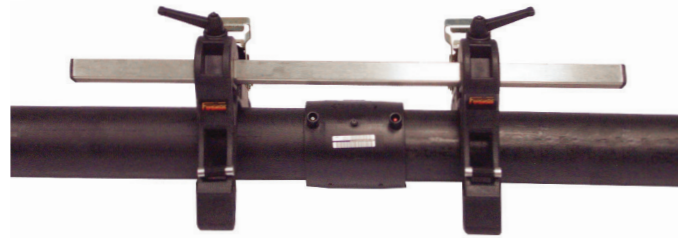
## Accessories

Page

Electrofusion couplers 40 - 200mm 6-7

Note: To use the Strap Clamp 200 Straight to clamp tees, a T-Adaptor is required.

The Strap Clamp 200 is a lightweight, fast set up clamp that will hold HDPE pipe securely during the welding process. Suitable for pipe sizes 40 - 200mm and applicable electrofusion couplers.



### STRAP CLAMP 200 STRAIGHT / ALIGNMENT CLAMP

Reference code	Description	Range mm	Theoretical weight/kg
SC200-2-S	Straight runner bar with 2 clamps	40 - 200	2.5
SC200-2-S-4	Straight runner bar with 4 clamps	40 - 200	4.6

# STRAP CLAMP 200 KNUCKLE ALIGNMENT CLAMP

1282/10-009

## Features

Suitable for pipe sizes 40 - 200mm

Centrally located adjustable knuckle allows the SC200-2-K to be used for 22.5°, 45° and 90° elbows, reducers and couplers.

Lightweight construction

Compact design

Fast acting 'tug and tension' straps

Works above, below or alongside the joint

No liners required

Available in single and double clamp format

## Optional extras

Page

T-Adaptor 271

## Accessories

Page

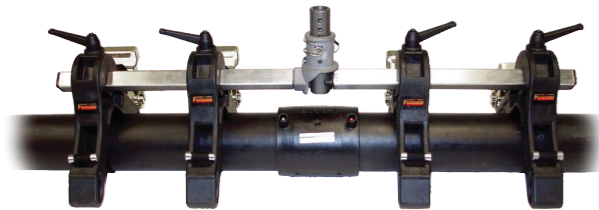
Electrofusion couplers 40 - 200mm 6-7

Electrofusion reducers 40 - 200mm 16-17

Electrofusion elbows 40 - 200mm 18-23

Note: To use the Strap Clamp 200 Knuckle to clamp tees, a T-Adaptor is required.

The Strap Clamp 200 Knuckle is a lightweight, fast set up clamp that will hold HDPE pipe securely during the welding process. Suitable for pipe sizes 40 - 200mm. Centrally located adjustable knuckle allows the SC200-2-K to be used for 22.5°, 45° and 90° elbows, reducers and couplers.



### STRAP CLAMP 200 KNUCKLE / ALIGNMENT CLAMP

Reference code	Description	Range mm	Theoretical weight/kg
SC200-2-K	Knuckle bar with 2 clamps	40 - 200	2.7
SC200-2-K-4	Knuckle bar with 4 clamps	40 - 200	4.6

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# STRAP CLAMP 200 TITAN

1282/10-010

## Features

Suitable for pipe sizes 40 - 200mm

For use with electrofusion couplers

Lightweight construction

Compact design

Fast acting 'tug and tension' straps

Works above, below or alongside the joint

No liners required

Available in single and double clamp format

## Optional extras

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T-Adaptor 271

## Accessories

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Electrofusion couplers 40 - 200mm 6-7

The Strap Clamp Titan 200 will hold HDPE pipe securely during the welding process whilst also being capable of pulling up to 12m lengths of pipe into position. Suitable for pipe sizes 40 - 200mm and applicable electrofusion couplers.



### STRAP CLAMP 200 TITAN

Reference code	Description	Range mm	Theoretical weight/kg
SC200T	Straight ratchet runner bar with 4 clamps	40 - 200	6.5

# T-ADAPTOR AND V-BLOCKS

1282

## Features

Suitable for pipe sizes 40 - 500mm

Lightweight construction

Compact design

The T-adaptor is an add-on tool enabling strap clamps to be used for clamping tees.

To use the T-Adaptor a further V-Block clamp needs to be purchased.

The T-Adaptor can be used on the SC200 or SC500 range of alignment clamps.



Strap clamp with T-Adaptor fixed in place

### T-ADAPTOR AND V-BLOCKS

Reference code	Description	Range mm	Theoretical weight/kg
SC200ADT	T-Adaptor for strap clamp 200	40 - 200	0.3
SC500ADT	T-Adaptor for strap clamp 500	160 - 500	3.4
FES-34989	V block clamp assembly for 200 T-Adaptor	40 - 200	0.6
FES-12799	V block clamp assembly for 500 T-Adaptor	16 - 500	1.5



T-Adaptor

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# STRAP CLAMP 500 STRAIGHT ALIGNMENT CLAMP

1282/10-011

## Features

Suitable for pipe sizes 160 - 500mm

For use on electrofusion couplers

Lightweight construction

Compact design

Fast acting 'tug and tension' straps

Works above, below or alongside the joint

Available in single and double clamp format

No liners required

## Optional extras

Page

T-Adaptor

271

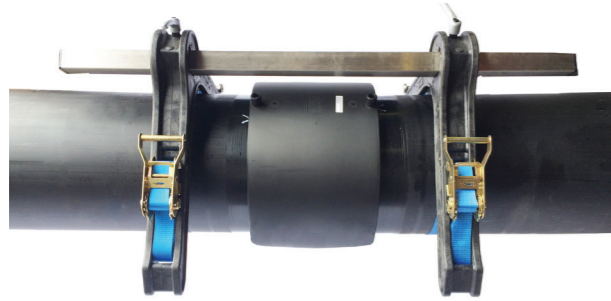
## Accessories

Page

Electrofusion couplers 160 - 500mm 6 - 13

Note: To use the Strap Clamp 500 Straight to clamp tees, a T-Adaptor is required.

The Strap Clamp 500 is a lightweight, fast set up clamp that will hold HDPE pipe securely during the welding process. Suitable for pipe sizes 160 - 500mm and applicable electrofusion couplers.



### STRAP CLAMP 500 STRAIGHT / ALIGNMENT CLAMP

Reference code	Description	Range mm	Theoretical weight/kg
SC500	Plain runner bar with 2 clamps	160 - 500	8
FES-12799	V block clamp assembly	160 - 500	1.5

# STRAP CLAMP 500 TITAN

1282/10-012

## Features

Suitable for pipe sizes 160 - 500mm

For use with electrofusion couplers

Lightweight robust construction

Compact design – capable of pulling 12 metre lengths of pipe into position

Fast acting 'tug and tension' straps

Works above, below or alongside the joint

No liners required

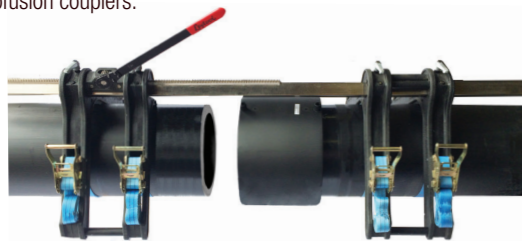
Ratchet handle included

## Accessories

Page

Electrofusion couplers 160 - 500mm 6 - 13

The Strap Clamp Titan 500 will hold HDPE pipe securely during the welding process whilst also being capable of pulling up to 12m lengths of pipe into position. Suitable for pipe sizes 160 - 500mm and applicable electrofusion couplers.



### STRAP CLAMP 500 TITAN

Reference code	Description	Range mm	Theoretical weight/kg
SC500T	Straight ratchet runner bar with 4 clamps	160 - 500	20

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# REROUNDING POST SQUEEZE OFF CLAMP Ø 50 - 250mm

1282/22-001

## Features

Suitable for pipe sizes 50 - 250mm

Can also be used on oval pipe caused by pipe storage (stacking or coiled)

Rerounds the pipe, effectively covering a large surface area

Reusable or sacrificial

Tool can be left on pipe (if required) to give added protection

Common size 19mm hex ratchet flats

Mild steel construction

Post Squeeze Off Rerounding Clamps are designed as a cost effective solution for re-rounding pipes after squeeze off has been applied.

Can also be used on oval pipe caused by pipe storage (stacking or coiled).

### REROUNDING / POST SQUEEZE OFF CLAMP

Reference code	Range mm	Theoretical weight/kg
RRC50	50	2.9
RRC63	63	3
RRC75	75	3.5
RRC90	90	3.5
RRC110	110	5.8
RRC125	125	5.5
RRC140	140	5.5
RRC160	160	7.5
RRC180	180	6.8
RRC200	200	9.3
RRC225	225	11.5
RRC250	250	12



# REROUNDING TOOLS

Ø 20 - 250mm

Rerounding tools are quick and easy to use and remove ovality from polyethylene coiled or oval pipe to allow insertion into fittings prior to electrofusion.

## REROUNDING TOOLS / Ø 20 - 250mm

Reference code	Product group	Range mm	Theoretical weight/kg
RRT20	1	20	0.5
RRT25	1	25	0.5
RRT32	1	32	0.5
RRT40	1	40	105
RRT50	1	50	1.3
RRT63	2	63	1.3
RRT75	2	75	1.5
RRT90	3	90	1.5
RRT110	3	110	2.0
RRT125	3	125	2.0
RRT160	3	160	2.3
RRT180	3	180	3.0
RRT200	4	200	3.0
RRT225	4	225	3.0
RRT250	4	250	3.0



Aluminium nut cracker design  
20 - 50mm



Hinged collar design  
63 - 75mm



Hinged collar design  
90 - 180mm



Split collar design  
200 - 250mm

1282/22-002

### Features

Suitable for pipe sizes 20 - 250mm

Quick and easy to use

Removes ovality from polyethylene coiled or oval pipe prior to electrofusion

#### Aluminium nut cracker design ①

Suitable for pipe sizes 20 - 50mm

Lightweight, compact and easy to carry

Simple latch lock

#### Hinged collar design ②

Suitable for pipe sizes 63 - 75mm

Side handle allows easy manoeuvre

#### Hinged collar design ③

Suitable for pipe sizes 90 - 180mm

Easy to use handle for correct positioning

Robust design and lightweight

#### Split collar design ④

Suitable for pipe sizes 200 - 250mm

Locking handles for correct positioning

Robust design and lightweight

Comes with ratchet spanner

# MINI SQUEEZE TOOL

Ø 16 - 32mm – SDR 11

The mini squeeze tool is an effective and easy to use tool designed for SDR 11 service pipes in the range 16 - 32mm. It is compact, lightweight and features a unique design with built-in safety stops to prevent damage to the pipe.



## MINI SQUEEZE TOOL / Ø 16 - 32mm

Reference code	Description	Theoretical weight/kg
SQT32	16 - 32mm Mini Squeeze Tool	1

1282/20-001

### Features

Suitable for pipe sizes from 16 - 32mm

Suitable for SDR 11 service pipes

Compact robust design

Lightweight

Easy to use

Manufactured from cast stainless steel

Built-in safety stops to prevent damage to the pipe

# SERVICE SQUEEZE TOOL

Ø 20 - 63mm

The service squeeze tool is designed for flow control or temporary closure of either metric or imperial sizes of PE pipe in the range 20 - 63mm. Featuring high quality manufacturing, this tool is compact, robust and easy to use.



1282/20-002

### Features

Suitable for pipe sizes from 20 - 63mm (20,32,40,50 and 63mm)

Cast steel construction

Buffer stop plates

Easy to use turning handle

Robust double loop construction

## SERVICE SQUEEZE TOOL / Ø 20 - 63mm

Reference code	Description	Theoretical weight/kg
SQT63	20 - 63mm Service Squeeze Tool (UK)	4.8
SQT63X10	20 - 63mm Service Squeeze Tool (Export)	4.8

### SQT63 SIZES – 6 SIDED SDR11 ONLY

A	20mm
B	25mm
C	32mm
D	40mm
E	50mm
F	63mm

### SQT63X10 SIZES – 4 SIDED SDR11 ONLY

A	20mm, 25mm, 32mm
B	40mm, 63mm (SDR17)
C	50mm
D	63mm

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# MECHANICAL SQUEEZE TOOL

Ø 63-125mm

The mechanical squeeze tool is designed for flow control or temporary closure of PE pipe in the range 63 - 125mm. Can be used on SDR 11 pipe between sizes 63 - 110mm and SDR 17 pipe between sizes 90 - 125mm.



1282/20-003

## Features

Suitable for pipe sizes from 63 - 125mm

Can be used on SDR 11 pipe between sizes 63 - 110mm

Can be used on SDR 17 pipe between sizes 90 - 125mm

Robust metal construction

Buffer stop plates

Robust double loop construction

### MECHANICAL SQUEEZE TOOL / Ø 63-125mm

Reference code	Description	Theoretical weight/kg
SQT125M	63-125mm Mechanical Squeeze Tool	9.2

# 200 HYDRAULIC MAINS SQUEEZE TOOL

Ø 63-200mm

The 200 hydraulic mains squeeze tool is designed for flow control or temporary closure of PE pipe in the range 63 - 200mm. Can be used on SDR 11 and SDR 17 pipes.

1282/20-004

## Features

Suitable for pipe sizes from 63 - 200mm

Can be used on SDR 11 and SDR 17 pipe

Fabricated steel construction

15 tonnes weber jack

Spring return after squeeze off

Controlled release through hydraulic shut off valve

Buffer stop plates to prevent pipe damage

Screw down lock pins

Integral safety relief valve

### 200 HYDRAULIC MAINS SQUEEZE TOOL / Ø 63-200mm

Reference code	Description	Theoretical weight/kg
SQT200	63-200mm Hydraulic Squeeze Tool with stops for SDR 11 and 17	37



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# 250 HYDRAULIC MAINS SQUEEZE TOOL

Ø 180-250mm

The 250 mains squeeze tool is designed for flow control or temporary closure of PE pipe in the range 180 - 250mm. Can be used on SDR 11/17/21 and 26 pipes.

1282/20-005

## Features

Suitable for pipe sizes from 180 - 250mm

Can be used on SDR 11/17/17.6/21 and 26 pipe

Note: Pipe stops need to be ordered separately for each diameter and SDR rating.

A-frame design, robust construction for in-trench work

The A-frame can be detached and used with an additional beam set which allows up to four squeeze-off points to be carried out efficiently with one tool

Controlled release through hydraulic shut off valve

Tool supplied with 4 beam sets



### 250 HYDRAULIC MAINS SQUEEZE TOOL / Ø 180-250mm

Reference code	Description	Theoretical weight/kg
SQT250A-2	SQT250 Auto Hydraulic Squeeze-off Tool 1 beam set	180
SQT250A-2AI	SQT250 Auto Hydraulic Squeeze-off Tool 1 beam set with air intensifier	190
SQT250A-2HP	SQT250 Auto Hydraulic Squeeze-off Tool 1 beam set with hand pump	190

# 400 HYDRAULIC MAINS SQUEEZE TOOL

Ø 250-400mm

The 400 mains squeeze tool is designed for flow control or temporary closure of PE pipe in the range 250 - 400mm. Can be used on SDR 11/17/17.6/21 and 26 pipes.

1282/20-006

## Features

Suitable for pipe sizes from 250 - 400mm

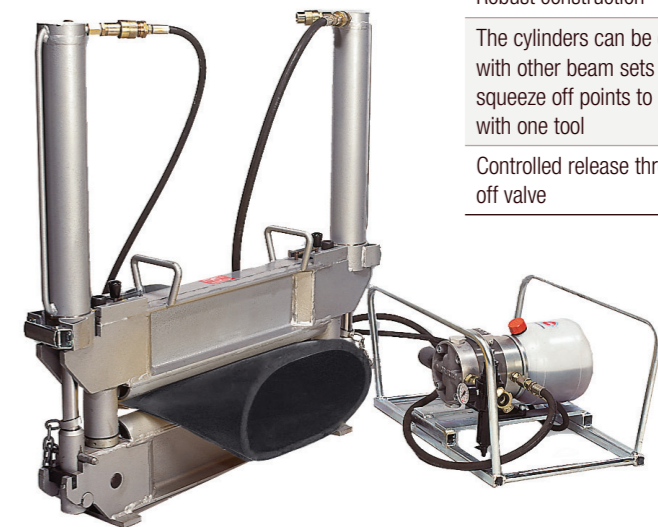
Can be used on SDR 11/17/17.6/21 and 26 pipe

Note: Pipe stops need to be ordered separately for each diameter and SDR rating.

Robust construction

The cylinders can be detached and used with other beam sets which allows up to four squeeze off points to be carried out efficiently with one tool

Controlled release through hydraulic shut off valve



### 400 HYDRAULIC MAINS SQUEEZE TOOL / Ø 250-400mm

Reference code	Description	Theoretical weight/kg
SQT400AI	SQT400 Auto Hydraulic Squeeze-off Tool, 4 beam set with air intensifier	430
SQT400E	SQT400 Auto Hydraulic Squeeze-off Tool, 4 beam set with electric pump	430

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# GENERATORS

1282/62-001

## Features

Suitable for powering both electrofusion control boxes and automatic butt fusion machines

Tailored to suit your own specific requirements

Available in petrol or diesel engines

High quality, smooth, regular power output

Complies with the Tin12 (EC3) specification

Meets the current EC regulations

## Accessories

Page

Butt fusion machines 248-255

Electrofusion control box 258-263

A range of generators which are suitable for powering both electrofusion control boxes and automatic butt fusion machines. Generators are tailored to suit your own specific requirements and are available in petrol or diesel engines.

Reference code	Description	Theoretical weight/kg
P501WF	Generator 5KVA on wheeled frame	70-85kg
P750WF	Generator 7.5KVA on wheeled frame	80-100kg

Please state output voltage and socket at the time of ordering.

## BUTT FUSION POWER REQUIREMENTS

Machine description	Generator output voltage (V) 230V Single phase		Minimum generator output	
	230V Single phase	Gator (kVA)	Welda (kVA)	
GATOR 2 / WELDA 2 – 180	Yes	3.5	5	
GATOR 2 / WELDA 2 – 250	Yes	4.0	5	
GATOR 2 / WELDA 2 – 315	Yes	6.0	7	
GATOR 2 / WELDA 2 – 400	Yes	6.5	8	
WELDA 500	Yes	N/A	9	

## ELECTROFUSION POWER REQUIREMENTS

Machine description	Generator output voltage (V) 230V Single phase		Minimum power required	
	230V Single phase	kW	kVA	
F60	Yes	2.2	2.8	
F90	Yes	4.8	6.0	



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



# HAND SCRAPER

1282/40-004

## Features

Suitable for all pipe sizes

Suitable for all commonly used SDR rated pipe

Lightweight and portable

Four edged blade

Low profile



Harris hand scraping tools provide a convenient and affordable solution for preparing pipe ends prior to electrofusion jointing.

## HAND SCRAPER

Reference code	Description	Theoretical weight/kg	Spare blade code
HARRIS	1.5" Hand scraper	0.1	60122
HARRISLGE	2.5" Hand scraper	0.1	60233

# SECATEURS

1282/50-001

## Features

Suitable for pipe sizes:

- Small cutter: 16-42mm
- Large cutter: 20-63mm

Suitable for cutting PE, PVC and PP pipes

Lightweight and portable

Cost effective solution

Ø 16-63mm

Secateurs suitable for use on PE, PVC and PP pipe in the range 16-63mm.

## SECATEURS

Reference code	Description	Theoretical weight/kg
PCS2032M	16-42mm Small secateurs cutter	0.35
PCS2063	20-63mm Large secateurs cutter (Long handle)	1.5



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

# JUMBO PIPE CUTTERS

Ø 160 - 800mm

Jumbo pipe cutter for cutting pipe in sizes ranging from 160 - 800mm.

JUMBO PIPE CUTTERS		
Reference code	Description	Theoretical weight/kg
PCJ355	160 - 355mm Jumbo Pipe Cutter	24
PCJ630	355 - 630mm Jumbo Pipe Cutter	28
PCJ800	355 - 800mm Jumbo Pipe Cutter	31

Note: Jumbo pipe cutter spare blades available upon request.

# GUILLOTINE CUTTERS

Ø 63 - 315mm

A range of guillotine cutters for cutting PE pipe in the range 63 - 315mm. Guillotine cutters provide an accurate square cut for electrofusion welding and minimal facing for butt fusion welding.

GUILLOTINE CUTTERS		
Reference code	Description	Theoretical weight/kg
PCG125	63 - 125mm Guillotine Cutter	7.5
PCG200	63 - 225mm Guillotine Cutter	15
PCG315	63 - 315mm Guillotine Cutter	33

Note: Guillotine cutter spare blades available upon request.



1282/50-002

## Features

Suitable for cutting pipes sizes 160 - 800mm



1282/50-003

## Features

Suitable for pipe sizes 63 - 315mm  
Three versions available in the range:

- 63 - 125mm
- 63 - 225mm
- 63 - 315mm

Suitable for cutting PE pipes

Hinged V-shaped jaws allows the cutter to be positioned anywhere on existing pipes

Long life stainless steel blade

Quadruple ground stainless steel blade provides an accurate square cut for electrofusion and minimal facing for butt fusion welding

Square drive feature allows the cutter to be used with a wrench and extension when working in narrow trenches

Fast opening

Environmentally friendly – no PE waste

Replacement blades available

# CUTTER KEYS

1282/70-001

## Features

Designed for use with service/tapping tee integral cutters with 12mm hexagonal drives as per UK WIS and GIS specifications

Two versions available – 260mm long single piece and 1000mm single piece design with extended length for use in trench

Robust steel construction

Corrosion resistant finish to prolong life

Universal drive key tools designed for use with service/tapping tee integral cutters with 12mm hexagonal drives.

Suitable for use with Fusamatic Tapping Tees.



CUTTER KEYS		
Reference code	Description	Theoretical weight/kg
CUTKEY12	Universal tapping tee cutter key 12mm – Single piece length 260mm	0.6
CUTTERKEYEXL	Universal tapping tee cutter key 12mm – Single piece extended length 1000mm	1.3

Accessories	Page
Multi Seal tapping tees	30-41
Flex Tee tapping tees	46-47

# TEST CAPS

1282/70-002

## Features

Rated 16 Bar water

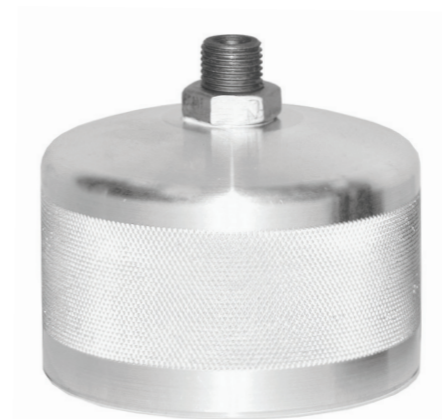
Standard test caps fitted with a single ¼" BSP outlet

Textured caps for grip, no tools required

A range of reusable caps for the pressure testing of Fusion manufactured service/tapping tee fittings.

TEST CAPS		
Reference code	Description	Theoretical weight/kg
FES-22869	40 - 63mm Outlet design. Aluminium Multi Seal Test Cap	0.4
FES-34571	40 - 63mm Outlet design. Multi Seal Test Cap	0.1
FES-34263	20 - 32mm Multi Seal Test Cap	0.1

Accessories	Page
Multi Seal tapping tees	30-41



Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.



Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check the PN and SDR rating marked on the fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Correct installation procedures should be followed.

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