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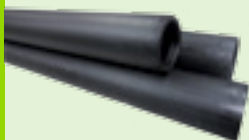
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HDPE Drain Pipe System



HDPE Drain Pipe System



HDPE DRAIN PIPE 5M LENGTHS

Size OD (mm)	Code	NB (mm)
50	920005	40
56	920006	50
63	920007	57
75	920008	65
90	920009	80
110	920010	100
125	920012	115
160	920013	150
200	920015	200
250	920017	225
315	920019	300

HDPE Drain Pipe System


WELDING SLEEVES - WAVI SOLO

Size OD (mm)	Code	Pack Qty	
50	910005	20	
56	910056	20	
63	910006	20	
75	910007	20	
90	910009	20	
110	910011	20	
125	910012	20	
160	910016	3	
200	910020	1	
250	910025	1	
315	910031	1	




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MOULDED BENDS 15°

	Size OD (mm)	Code	Pack Qty
	90	102501	1
	110	921542	20

MOULDED BENDS 30°

	Size OD (mm)	Code	Pack Qty
	75	102102	1
	90	102502	1
	110	921544	20
	125	921554	10

MOULDED BENDS 45°

	Size OD (mm)	Code	Pack Qty
	50	921254	10
	56	921264	10
	63	921274	20
	75	921284	20
	90	921294	20
	110	921304	25
	125	921314	10
	160	921334	5
	200	921354	5

HDPE Drain Pipe System

SEGMENTED BENDS 45°

Size OD (mm)	Code	Pack Qty
250	921374	1
315	921394	1

SWEPT BENDS 88½°

Size OD (mm)	Code	Pack Qty
50	921258	10
56	921268	10
63	921519	20
75	921528	20
90	921538	20
110	921548	20
125	921558	10
160	921568	5



SEGMENTED BENDS 88½°

Size OD (mm)	Code	Pack Qty
200	921015	1
250	921017	1
315	921019	1



MOULDED ELBOWS 88½°

Size OD (mm)	Code	Pack Qty
90	921298	20
110	921308	20



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CONCENTRIC REDUCERS

	Size OD (mm)	Code	Pack Qty
	63/50	920526	20
	63/56	920527	20
	75/50	920531	20
	75/63	920533	20
	90/50	920536	20
	90/63	920538	20
	90/75	920539	20
	110/50	920543	10
	110/56	920544	10
	110/63	920545	10
	110/75	920546	10
	110/90	920547	10
	160/110	920558	5


ECCENTRIC REDUCERS

	Size OD (mm)	Code	Pack Qty
	63/50	920626	20
	75/50	920631	20
	75/63	920633	20
	90/50	920636	20
	90/63	920638	20
	90/75	920639	20
	110/50	920643	20
	110/56	920644	20
	110/63	920645	20
	110/75	920646	20
	110/90	920647	20
	160/110	920671	5
	200/110	920675	1
	200/160	920678	1
	250/160	920688	1
	250/200	920690	1
	315/200	920696	1
	315/250	920698	1

HDPE Drain Pipe System


Y BRANCHES 45°

Size OD (mm)	Code	Pack Qty
50/50	921018	40
56/56	922023	20
63/50	922026	20
63/63	922028	20
75/50	922031	20
75/63	922033	20
75/75	922034	20
90/50	922036	10
90/63	922038	10
90/75	922039	10
90/90	922040	15
110/50	922043	10
110/63	922045	10
110/75	922046	10
110/90	922047	10
110/110	922048	15
125/110	922055	10
125/125	922056	5
160/110	922071	5
160/160	922074	5
200/110	922075	1
200/160	922078	1
200/200	922079	1
250/110	922086	1
250/160	922089	1
250/250	922092	1
315/110	922093	1
315/160	922095	1
315/315	922099	1




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BRANCHES 88½°

	Size OD (mm)	Code	Pack Qty
	50/50	922218	40
	56/56	922223	20
	63/50	922226	20
	63/63	922228	20
	75/50	922231	20
	75/63	922233	20
	75/75	922234	20
	90/50	922236	10
	90/63	922238	10
	90/75	922239	10
	90/90	922240	10
	110/50	922243	10
	110/63	922245	10
	110/75	922246	10
	110/90	922247	10
	110/110	922248	15
	160/110	922271	5
	160/160	922274	5
	200/200	922279	1
	250/160	922289	1
250/250	922292	1	
315/160	922295	1	
315/315	922299	1	

SWEPT JUNCTIONS 88½°

	Size OD (mm)	Code	Pack Qty
	110/110	922280	10

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SCREWED ACCESS TEES

Size OD (mm)	Code	Description	Pack Qty
63	920867		10
75	920868		10
90	920869		10
110	920870	Horizontal	10
110	920870B	Vertical	1
160/110	920873		5
160/160	920874		1



DOUBLE BRANCHES 88½°

Size OD (mm)	Code	Pack Qty
110/110	922448	1




FOUR WAY RISERS 88½°

Size OD (mm)	Code	Pack Qty
110/56/50	922717	1
110/56/56	922718	1
110/63/63	922719	1
110/63/50	922720	1




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RING SEAL SOCKETS

	Size OD (mm)	Code	Pack Qty
	40	924203	120
	50	924205	100
	56	924206	100
	63	924207	20
	75	924208	20
	90	924209	20
	110	924210	20
	160	924213	10


EXPANSION SOCKETS

	Size OD (mm)	Code	Pack Qty
	50	924105	20
	56	924106	20
	63	924107	20
	75	924108	20
	90	924109	10
	110	924110	20
	160	924113	5
	200	924115	1
	250	924117	1
	315	924119	1

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STOP ENDS COMPLETE

Size OD (mm)	Code	Pack Qty
63	924450	10
75	924451	10
90	924452	10
110	924453	10
160	924454	1




WELD ON END CAPS

Size OD (mm)	Code	Pack Qty
50	924625	20
63	924627	20
75	924628	20
90	924629	20
110	924630	20
160	924633	10



HDPE Drain Pipe System

SILT TRAPS WITH STAINLESS STEEL BUCKET & GRATE

	Size OD (mm)	Code	Description	Overall Height (mm)	Base to Level of Invert (mm)	Size NB (mm)
	160/110	ST160BG	Silt Trap Complete	700	250	150/100
	250/110	ST250BG	Silt Trap Complete	600	260	225/100
	50	STI50	Pipe Inlet			40
	56	STI56	Pipe Inlet			50
	63	STI63	Pipe Inlet			57
	75	STI75	Pipe Inlet			65
	90	STI90	Pipe Inlet			80
	110	STI110	Pipe Inlet			100
	160	STI160	Pipe Inlet			150



HDPE Drain Pipe System

FLOOR WASTE GULLY TUNDISH TRAPS

Size OD (mm)	Code	Pack Qty
50	845258	1
63	846519	1
75	847528	1
90	849538	1
90/75	849538P	1
110	850548	1



S & P COMBINATION TRAPS

Size OD (mm)	Code	Pack Qty
63	320150B	20




PALAZZI TRAPS

Size OD (mm)	Code	Pack Qty
110/63	811063	1
110/75	811075	1




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WC PAN COLLARS COMPLETE

	Size OD (mm)	Code	Pack Qty
	110	923031	1


WELD ON PUDDLE FLANGES

	Size OD (mm)	Code	Flange D (mm)
	50	PF50	150
	56	PF56	156
	63	PF63	163
	110	PF110	210

CAP & LININGS

	Size OD (mm)	Code	BSP
	50	924757	1½" (40mm)
	50	924758	2" (50mm)
	63	924760	2" (50mm)

TRAP ADAPTORS


	Size OD (mm)	Code	Trap Size (mm)
	50	325274	40
	63	326350	50
	75	327550	50

HDPE Drain Pipe System

MALE THREADED ADAPTORS (POLY)

PN16

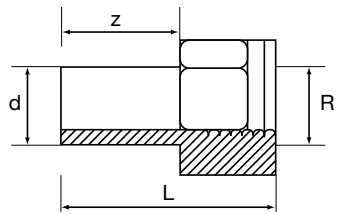
d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
20	½"	250005	65	39	0.012
25	¾"	250010	66	39	0.022
25	1"	250015	72	40	0.024
32	1"	250020	75	43	0.036
40	1¼"	250025	84	49	0.052
50	1½"	250030	92	54	0.076
50	2"	250032	95	52	0.108
63	1½"	250033	95	52	0.104
63	2"	250035	110	63	0.112
75	2½"	250040	110	63	0.176
90	3"	250045	115	63	0.268
110	4"	250050	120	65	0.404



FEMALE THREADED ADAPTORS (POLY)


PN16

d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
20	½"	250100	74	39	0.068
25	¾"	250105	74	39	0.068
32	1"	250110	83	43	0.068
40	1¼"	250115	90	49	0.185
50	1½"	250120	98	54	0.180
63	2"	250125	108	63	0.296
75	2½"	250130	108	63	0.280
90	3"	250135	120	63	0.460
110	4"	250140	130	65	0.630





HDPE Drain Pipe System

DROP-IN FLOOR GRATES WITH S/STEEL GRATE

	Size OD (mm)	Code	Pack Qty
	75	320753G	1
	90	320903G	1
	110	321103G	1
	160	321603G	1

DROP-IN BOLTED TRAPSCREWS (SIO) WITH S/STEEL LID


	Size OD (mm)	Code	Pack Qty
	110	321103	1
	160	321603	1



HDPE Drain Pipe System

RUBBER GROMIT ADAPTORS

Size HDPE (mm)	Code	Flow	Other Material (mm)
50	40COPGR	←	40 COPPER
63	50COPGR	←	50 COPPER




ADAPTORS TO OTHER MATERIALS

Size HDPE (mm)	Code	Flow	Other Material (mm)
50	5040PV	←	40 PVC
50	5050PV	→	50 PVC
50	5040CO	←	40 COPPER
50	5050CO	←	50 COPPER
63	6350PV	←	50 PVC
63	6365PV	→	65 PVC
63	6350CO	←	50 COPPER
63	6365CO	←	65 COPPER
75	7565PV	←	65 PVC
75	7580PV	→	80 PVC
75	7565CO	←	65 COPPER
75	7580CO	←	80 COPPER
90	9080PV	←	80 PVC
90	9080CO	←	80 COPPER
110	110100PV	→	100 PVC
110	100110PV	←	100 PVC
110	110100COSS	←	100 COPPER/SS
110	110110SS	←	110 S/STEEL
160	150160PV	←	150 PVC
160	160150PV	→	150 PVC
160	160160SS	←	160 S/STEEL




HDPE Drain Pipe System


MATRIX WELD WIPES

	Code	Qty/Unit	Pack Qty
	326835	75 Wipes/Pack	12

WAVISOLO ELECTROFUSION WELDING MACHINES


	Size Range	Code	Description
	40 - 315mm	700315	Drainage Welding Unit - Solo
	40 - 160mm	40160SC	Spare Connection Cable
	40 - 315mm	40315SC	Spare Connection Cable

WAVIDUO ELECTROFUSION WELDING MACHINES

	Size Range	Code	Description
	40 - 160mm	700020	Drainage Welding Unit - Duo, with Hand Scraper
	40 - 160mm	40160DSC	Spare Connection Cable

HDPE Drain Pipe System

CUBO ELECTROFUSION WELDING MACHINES

Size Range	Code	Description	
200-315mm	700200	Drainage Welding Unit - Duo	
200-315mm	200315SC	Spare Connection Cable	

HDPE Drain Pipe System

Properties of HDPE Drain Pipe



Resistance to high temperatures

HDPE guarantees resistance to temperatures of up to 100°C and is therefore suitable for carrying waste water from washing-machines and dishwashers.



Elasticity

HDPE is suitable for use in buildings exposed to vibrations in earthquake prone areas and across expansion joints.



Resistance to UV rays

Thanks to the addition of a percentage of carbon black, HDPE can be installed in the open air without deterioration due to UV exposure.



Ease of jointing using welding

HDPE joints are welded (both butt and electrofusion welding), ensuring a completely airtight pipe system.



Low weight

HDPE is lightweight, making it easy to transport and handle.



HDPE cannot be glued

Owing to its high resistance to chemical agents, HDPE cannot be glued.



Resistance to low temperatures

The elasticity of HDPE makes pipe systems resistant to failure even when frozen.



Impact resistance

Thanks to its high elasticity, HDPE is resistant to impact to -40°C; meaning there is no problem carrying out installation at low temperatures.



Absence of clogging

The smooth surfaces of HDPE allow a perfect downflow of every kind of waste water and self cleaning of the pipe systems.



Behaviour in presence of fire

HDPE does not emit any toxic gas during combustion.



HDPE fittings: rubber rings

Even if the rubber rings in the push-fit sockets and expansion sockets are slightly wet by waste waters, they are resistant to all the chemical agents. They are made of an elastomeric material which guarantees tightness and durability, even under extreme conditions.

5.1 Density

The high normal density equal to 0.950 g/cm³ makes polyethylene compact. The low melt flow index of 0.6 g/10 min. influences its molecular weight: the lower the melt flow index, the higher the molecular weight.

As a consequence, with a high density and with a low melt flow index, the resistance to high temperatures and corrosion improves, and stiffness and elasticity increase.

Wavin PE is produced with a high density polyethylene following the specification of the IIP (Italian Institute for Plastics), which guarantees that the UNI standards concerning plastics are respected.

5.2 Expansion

The coefficient of expansion of polyethylene is considerable, especially if compared to some metals;

0.2mm/m°C, which means that it has an expansion of 2mm per every 10°C of temperature difference per metre.

For this reason, its installation requires special expansion supports, when the pipe systems are hanging or free standing. In case of built-in pipe systems, the effects of the variation in temperature are limited or null.

5.3 Thermal Conductivity

The coefficient of thermal conductivity of polyethylene is very low: 0.43 W/mk or 0.37kcal/mk°C. Therefore a rapid thermal load on the pipe will never be able to heat it completely.

5.4 Stabilisation

Stabilisation or malleability is a necessary process, without which the polyethylene pipe submitted to increase of temperature, would have irreversible shortening. A stabilisation process avoids the phenomenon, called heat reversion. Stabilisation guarantees jointing security and eliminates every drawback due to shrinkage after assembling.



Electrofusion System





CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

FUSION GROUP LIMITED

Smeckley Wood Close, Chesterfield, Derbyshire
United Kingdom

WaterMark Certificate of Conformity – Level 1

Evaluated to:

AS/NZS 4129: 2008 Fittings for polyethylene (PE) pipes for pressure applications

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

Certificate No. WM 20303

Issued: 10th January 2013

Expires: 10th January 2018

Originally Certified: 10th January 2013

Current Certification: 10th January 2013

John PRASAD

Certification Manager



ApprovalMark Certification



WaterMark

ApprovalMark



ApprovalMark
International

CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

DYNA PIPE SYSTEMS

WaterMark Certificate of Conformity - Level 1

Evaluated to :

AS/NZS 4129: 2008 Fittings for polyethylene (PE) pipes for pressure applications

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

ApprovalMark

Certificate No. WM 74527

Issued: 10th May 2013

Expires: 10th May 2018

Originally Certified: 10th May 2013

Currently Certification: 10th May 2013

John PRASAD
Certification Manager



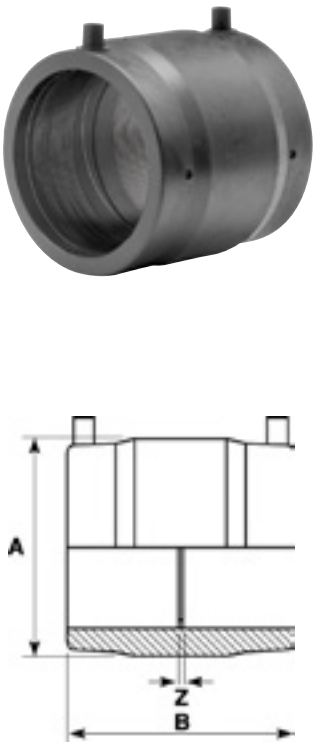
ApprovalMark Certification



WaterMark

Electrofusion System

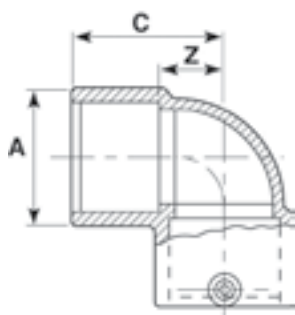
ELECTROFUSION SOCKETS

			PE100	SDR11	PN16		
	d (mm)	Code	A (mm)	B (mm)	z (mm)	GAS Rating (bar)	Weight (kg)
	20	1003020	30.0	61	3	10	0.04
	25	1003025	37.0	76	2	10	0.05
	32	1003032	44.0	81	2	10	0.07
	40	1003040	55.5	90	2	10	0.09
	50	1003050	65.5	98	0	10	0.14
	63	1003063	81.0	111	0	10	0.21
	75	1003075	95.5	118	0	10	0.34
	90	1004090	119.0	127	3	10	0.60
	110	1004110	141.5	135	3	10	0.80
	125	1004125	158.5	147	3	10	1.10
	140	1004140	175.0	154	3	10	1.30
	160	1004160	198.0	164	3	10	1.60
	180	1004180	221.0	167	3	10	2.10
	200	1004200	246.0	175	3	10	2.70
	225	1003225	278.0	220	8	10	3.90
	250	1003250	310.0	224	8	10	5.10
	280	1003280	341.0	256	8	10	7.10
315	1003315	389.0	291	8	10	9.50	

		PE100	SDR17	PN10		
d (mm)	Code	A (mm)	B (mm)	Z (mm)	GAS Rating (bar)	Weight (kg)
355	1003355	405.0	295	4	6	9.00
400	1003400	458.0	335	4	6	12.08

Electrofusion System

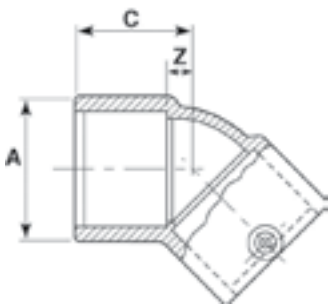
ELECTROFUSION ELBOWS 90°

d (mm)	Code	PE100	SDR11	PN16	GAS Rating (bar)	Weight (kg)	
		A (mm)	C (mm)	Z (mm)			
25	3701025	35.0	53.5	15.5	10	0.06	
32	3701032	42.0	58.0	18.5	10	0.07	
40	3701040	52.5	69.0	22.5	10	0.15	
50	3701050	65.0	74.5	27.0	10	0.21	
63	3701063	81.5	88.0	35.0	10	0.37	
75	3701075	96.0	95.0	40.0	10	0.50	
90	3701090	114.5	118.0	49.0	10	0.90	
110	3701110	137.0	130.0	60.0	10	1.30	
125	3701125	155.5	143.0	67.0	10	1.80	
160	3701160	199.0	171.0	87.0	10	2.60	
180	3701180	222.0	185.0	98.0	10	4.40	



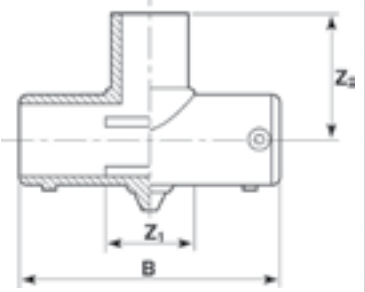
Electrofusion System

ELECTROFUSION ELBOWS 45°

	d (mm)	Code	PE100	SDR11	PN16	GAS Rating (bar)	Weight (kg)
			A (mm)	C (mm)	Z (mm)		
	25	3501025	35.0	45.0	7.0	10	0.05
	32	3501032	42.0	48.0	8.0	10	0.06
	40	3501040	52.5	54.5	9.5	10	0.11
	50	3501050	65.5	56.5	11.5	10	0.17
	63	3501063	81.0	65.0	15.0	10	0.24
	75	3501075	96.0	72.5	17.5	10	0.50
	90	3501090	114.5	89.0	20.0	10	0.80
	110	3501110	136.0	97.0	27.0	10	1.00
	125	3501125	155.5	105.0	30.0	10	1.40
	160	3501160	198.0	120.0	36.0	10	2.60
	180	3501180	223.0	128.0	40.0	10	3.40




ELECTROFUSION EQUAL TEES

d (mm)	Code	PE100	SDR11	PN16	GAS Rating (bar)	Weight (kg)	
		B (mm)	Z ₁ (mm)	Z ₂ (mm)			
25	3011025	99.0	22.0	68.0	10	0.07	
32	3011032	110.0	30.0	76.5	10	0.09	
40	3011040	117.5	31.5	89.0	10	0.16	
50	3011050	136.5	43.0	102.0	10	0.22	
63	3011063	169.0	58.0	118.0	10	0.39	
75	3011075	171.0	61.0	124.0	10	1.00	
90	3011090	211.0	83.5	150.0	10	1.10	
110	3011110	240.0	107.5	171.0	10	1.70	
125	3011125	280.0	118.5	177.0	10	2.30	
160	3011160	314.0	150.0	227.0	10	4.40	
180	3011180	365.0	161.0	225.0	10	5.80	



Electrofusion System

ELECTROFUSION REDUCERS

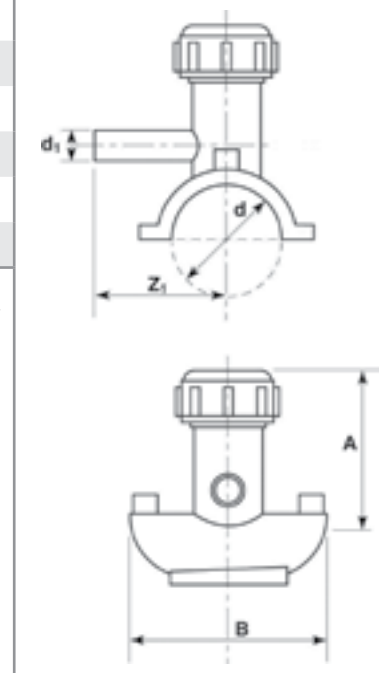
		PE100	SDR11	PN16						
		d ₁ (mm)	d ₂ (mm)	Code	A (mm)	B (mm)	L ₁ (mm)	L ₂ (mm)	GAS Rating (bar)	Weight (kg)
		25	20	1101410	37.0	80.0	35.5	37.0	10	0.05
		32	20	1101412	44.5	82.5	36.5	40.5	10	0.05
		32	25	1101413	44.5	83.5	38.0	41.0	10	0.07
		40	32	1101417	56.0	111.5	47.0	53.0	10	0.12
		50	40	1101422	65.0	103.5	43.5	47.0	10	0.12
		63	32	1101426	81.0	121.0	41.0	59.0	10	0.18
		63	40	1101427	81.0	128.5	48.0	59.0	10	0.21
		63	50	1101428	79.0	131.0	52.0	61.0	10	0.22
		90	63	1101442	113.0	175.0	54.5	80.0	10	0.60
		*110	63	20341163	141.5	330.0	120.0	155.0	10	1.48
		110	90	1101452	136.0	189.0	72.0	85.0	10	0.90
		*125	63	20341263	158.5	330.0	121.0	165.0	10	1.89
		125	90	1101461	155.0	210.0	67.0	90.0	10	1.20
		125	110	1101462	156.0	201.0	73.5	95.0	10	1.30
		*160	90	20341690	198.0	365.0	139.0	185.0	10	3.26
		160	110	1101483	195.0	254.0	72.0	101.0	10	2.20
	180	125	1101496	214.0	276.0	83.0	110.0	10	2.60	

*Supplied as a kit.

ELECTROFUSION TAPPING SADDLES

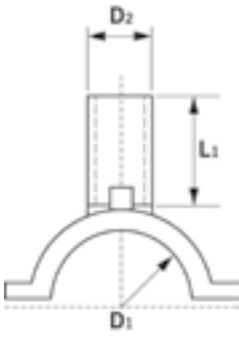
d (mm)	d ₁ (mm)	Code	PE100	SDR11	PN16	GAS Rating (bar)	Weight (kg)
			Z ₁ (mm)	A (mm)	B (mm)		
63	40	2111427	110	138	109	10	0.76
90	40	2111440	110	138	109	10	0.79
110	40	2111449	110	138	109	10	0.80
125	40	2111457	110	138	109	10	0.80
160	40	2111478	110	138	109	10	0.81
180	40	2111490	110	138	109	10	0.82

*Suitable for live tapping after fusion.





Electrofusion System

ELECTROFUSION BRANCH SADDLES


			PE100	SDR11	PN16			
	D ₁ (mm)	D ₂ (mm)	Code	L ₁ (mm)	Punch (mm)	Clamp Type	GAS Rating (bar)	Weight (kg)
	63	63	2311429	50	13	1	10	0.36
	90	63	2311442	85	46	3	10	0.37
	110	63	2311450	85	46	3	10	0.40
	125	63	2311459	80	46	3	10	0.41
	160	63	2311480	85	46	3	10	0.42
	180	63	EFBS18063	75	46	1	10	0.67
	<p>1 - Permanent Clamp. 3 - Permanent Strapclamp. *Drill out with holesaw after fusion.</p>							



CONNEXION ELECTROFUSION WELDING MACHINES

Description	Connexion Red	Connexion Blue	
Welding Mode	Barcode and Manual	Manual	 
Input Voltage Range	AC180/270V	AC180/270V	
Frequency Range	45-66 Hz	45-66 Hz	
Amps	AC 20A maximum	AC 20A maximum	
Power	AC 3.5KVA	AC 2.5KVA	
Circuit Breaker	20A slow	20A slow	
Housing	Protection IP65	Protection IP65	
Electrical Safety	Class 1	Class 1	
Connection Cable	4m	4m	
Fusion Cable	4m	4m	
Weight	22kg	22kg	
Barcode Type	2/5 interleaved code	n/a	
Working Temperature Range	-20°C - +45°C	-20° -+45°C	
Fusion Current Monitor	Short and open circuit	Short and open circuit	
Printer Interface	USB	n/a	
Quality	CE and GS	CE and GS	
Carrying Case	Yes	Yes	
4.0mm Connector Plugs	Yes	Optional	
Hand Scraper	Yes	Optional	
Emergency Stop	Yes	Yes	
Number of Fusions Recordable	1,000	n/a	
Language Variants	Yes	n/a	
Memory Stick with Software Incl	Yes	No	
Product Code for 230V	7903001	7903003	
Welding Range	39.5 - 48V	39.5V	

*Available for hire or purchase.

Code	Description	
7900850	Steel case for Connexion EF Control Machines	



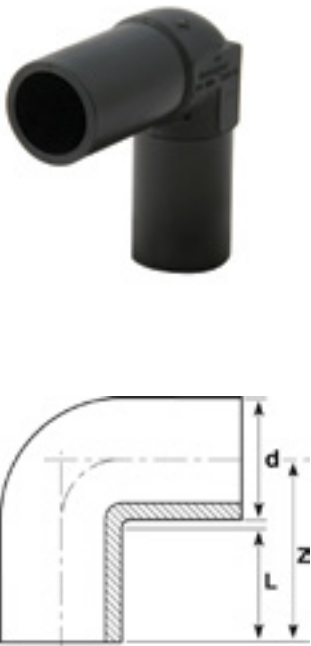
Long Spigot Fittings



Long Spigot Fittings

for Butt or Electrofusion Welding

LONG SPIGOT ELBOWS 90°


	PE100		SDR11		PN16	
	d (mm)	Code	Z (mm)	L (mm)	GAS Rating (bar)	Weight (kg)
	25	485221	80	48	10	0.02
	32	485222	85	54	10	0.05
	40	485223	95	57	10	0.09
	50	485224	105	55	10	0.14
	63	485225	115	65	10	0.28
	75	485226	130	72	10	0.41
	90	485227	150	80	10	0.63
	110	485228	165	87	10	1.04
	125	485229	180	92	10	1.45
	140	585000	190	95	10	1.92
	160	485231	210	120	10	2.90
	180	485232	232	107	10	4.32
	200	485233	253	122	10	5.00
	225	485234	270	130	10	6.40
	250	585235	307	130	10	10.65
	280	585001	340	200	10	15.74
	315	585002	370	210	10	21.96

	PE100		SDR17		PN10	
	d (mm)	Code	Z (mm)	L (mm)	GAS Rating (bar)	Weight (kg)
160	595001	210	103	4	3.04	
200	595002	253	107	4	4.98	
225	595003	270	122	4	6.85	
250	595004	307	180	4	6.49	
280	595005	340	200	4	9.00	
315	595006	370	210	4	15.25	

Long Spigot Fittings

for Butt or Electrofusion Welding

LONG SPIGOT ELBOWS 45°

PE100		SDR11		PN16		
d (mm)	Code	Z (mm)	L (mm)	GAS Rating (bar)	Weight (kg)	
25	485201	75	52	10	0.04	
32	485202	80	54	10	0.05	
40	485203	85	57	10	0.08	
50	485204	90	63	10	0.14	
63	485205	95	65	10	0.30	
75	485206	105	72	10	0.35	
90	485207	120	81	10	0.58	
110	485208	130	86	10	0.93	
125	485209	140	92	10	1.29	
140	585010	164	120	10	1.60	
160	485211	162	102	10	2.46	
180	485212	186	107	10	3.28	
200	485213	185	116	10	4.37	
225	485214	200	123	10	6.01	
250	151021	220	130	10	8.30	
280	151922	230	140	10	10.70	
315	151923	250	150	10	12.30	

PE100		SDR17		PN10	
d (mm)	Code	Z (mm)	L (mm)	GAS Rating (bar)	Weight (kg)
160	485371	162	102	4	2.39
200	485373	186	116	4	4.10
225	485374	205	123	4	5.61
250	585511	220	130	4	5.23
280	585512	230	140	4	7.51
315	585513	250	150	4	10.10

Long Spigot Fittings

for Butt or Electrofusion Welding

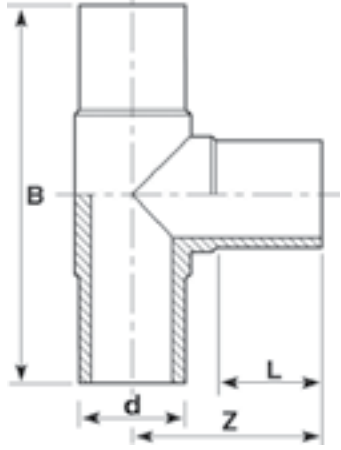
LONG SPIGOT EQUAL TEES

		PE100	SDR11	PN16			
	d (mm)	Code	B (mm)	Z (mm)	L (mm)	GAS Rating (bar)	Weight (kg)
	50	485244	216	108	63	10	0.25
	63	485245	230	115	65	10	0.42
	75	485246	264	132	72	10	0.60
	90	485247	279	136	80	10	0.65
	110	485248	305	152	87	10	1.20
	125	485249	338	167	92	10	1.89
	140	585030	396	196	92	10	3.20
	160	485251	419	208	103	10	4.50
	180	485252	509	270	120	10	7.10
	200	485253	500	270	122	10	8.00
	225	485254	550	275	130	10	11.12
	250	485255	575	288	130	10	14.84
	280	585031	615	308	139	10	18.67
	315	585032	695	346	150	10	26.15
	355	585033	820	410	165	10	35.35
	400	585034	915	460	180	10	42.42

Long Spigot Fittings

for Butt or Electrofusion Welding

LONG SPIGOT EQUAL TEES

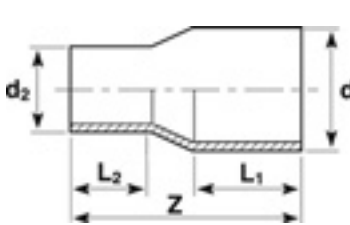
d (mm)	Code	PE100	SDR17	PN10	GAS Rating (bar)	Weight (kg)	
		B (mm)	Z (mm)	L (mm)			
90	485387	300	150	80	4	0.78	
110	485388	300	165	86	4	1.44	
125	485389	366	185	92	4	2.05	
140	585530	396	196	92	4	2.12	
160	485391	428	214	104	4	3.97	
180	485392	460	230	105	4	5.45	
200	485393	500	250	115	4	5.91	
225	485394	540	270	122	4	10.12	
250	585531	575	288	130	4	9.51	
280	585532	615	308	139	4	12.82	
315	585533	695	346	150	4	17.90	
355	585534	818	410	165	4	29.10	
400	585535	910	455	180	4	33.20	



Long Spigot Fittings

for Butt or Electrofusion Welding

LONG SPIGOT REDUCERS

			PE100	SDR11	PN16			
	d ₁ (mm)	d ₂ (mm)	Code	Z (mm)	L ₁ (mm)	L ₂ (mm)	GAS Rating (bar)	Weight (kg)
	32	25	485282	120	52	54	10	0.03
	40	25	485284	130	52	57	10	0.04
	40	32	485285	130	53	57	10	0.05
	50	25	485287	140	53	63	10	0.07
	50	32	485288	140	53	63	10	0.07
	50	40	485289	140	57	63	10	0.08
	63	32	485290	141	44	63	10	0.12
	63	40	485291	137	49	63	10	0.12
	63	50	485292	149	55	65	10	0.14
	75	40	485293	142	50	74	10	0.18
	75	50	485294	170	63	72	10	0.19
	75	63	485295	170	65	72	10	0.22
	90	50	485296	190	63	81	10	0.29
	90	63	485297	190	65	80	10	0.30
	90	75	485298	190	70	81	10	0.36
	110	63	485299	205	65	86	10	0.47
	110	75	485300	187	73	90	10	0.49
	110	90	485301	205	81	86	10	0.56
	125	63	585100	200	63	87	10	0.58
	125	75	485302	215	72	92	10	0.66
125	90	485303	215	81	92	10	0.74	
125	110	485304	215	86	92	10	0.82	

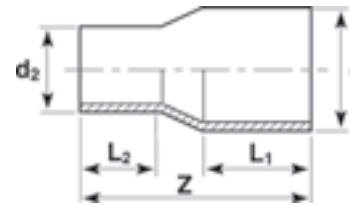
*Eccentric reducers are available on request.

Long Spigot Fittings

for Butt or Electrofusion Welding

LONG SPIGOT REDUCERS

		PE100	SDR11	PN16			
d ₁ (mm)	d ₂ (mm)	Code	Z (mm)	L ₁ (mm)	L ₂ (mm)	GAS Rating (bar)	Weight (kg)
140	110	585103	230	88	110	10	0.82
140	125	585125	230	90	110	10	0.98
160	90	585104	248	79	120	10	1.06
160	110	485305	220	92	117	10	1.30
160	125	485306	226	96	111	10	1.30
160	140	585126	260	110	120	10	1.35
180	110	585106	245	82	105	10	1.72
180	125	485307	255	92	107	10	1.72
180	160	485308	255	102	107	10	1.98
200	160	485309	265	102	117	10	2.37
200	180	485310	265	107	117	10	2.68
225	160	485311	280	102	122	10	3.12
225	180	485312	280	107	122	10	3.28
225	200	485313	280	117	122	10	3.54



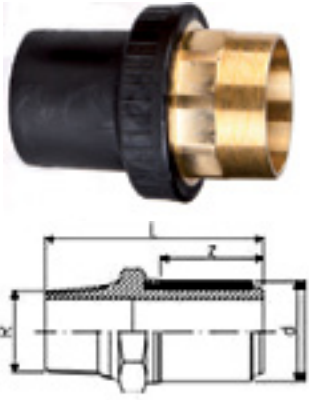
*Eccentric reducers are available on request.



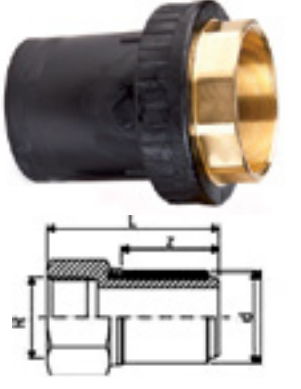
Long Spigot Fittings

for Butt or Electrofusion Welding

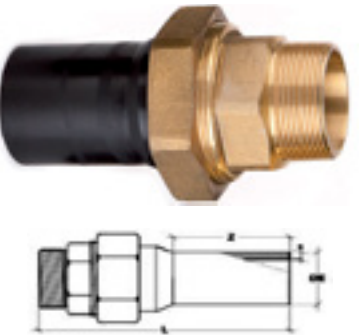
MALE THREADED ADAPTORS (PE/BRASS)

	d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
	25	¾"	LSMPEB2520	94	45	0.16
	32	1"	LSMPEB3225	106	50	0.25
	40	1¼"	LSMPEB4032	123	57	0.40
	50	1½"	LSMPEB5040	126	57	0.54
	63	1½"	LSMPEB6340	190	100	0.84
	63	2"	LSMPEB6350	142	67	0.80
	75	2½"	LSMPEB7565	156	76	1.20
	90	3"	LSMPEB9080	149	80	1.71
	110	4"	LSMPEB110100	202	88	2.92

FEMALE THREADED ADAPTORS (PE/BRASS)

	d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
	20	½"	LSFPEB2015	79	41	0.09
	25	¾"	LSFPEB2520	78	44	0.11
	32	1"	LSFPEB3225	88	48	0.18
	40	1¼"	LSFPEB4032	100	56	0.29
	50	1½"	LSFPEB5040	102	57	0.37
	63	2"	LSFPEB6350	120	66	0.58
	75	2½"	LSFPEB7565	133	75	0.77
	90	3"	LSFPEB9080	145	85	1.06
	110	4"	LSFPEB110100	165	88	1.85

MALE THREADED UNIONS (PE/BRASS)

	DE (mm)	R (inch)	Code	L (mm)	Z (mm)	Weight (kg)
	40	1¼"	LSMPEBU4032	155	60	0.60
	50	1½"	LSMPEBU5040	165	65	0.80
	63	2"	LSMPEBU6350	170	65	1.12

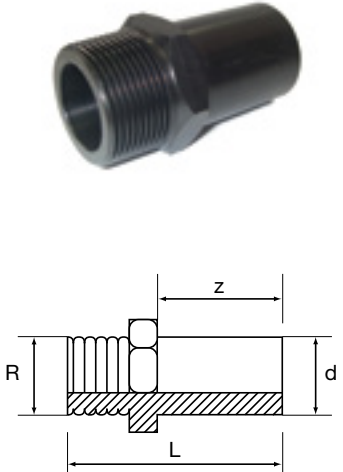
Long Spigot Fittings

for Butt or Electrofusion Welding

MALE THREADED ADAPTORS (POLY)

PN16

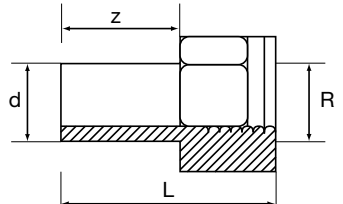
d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
20	½"	250005	65	39	0.012
25	¾"	250010	66	39	0.022
25	1"	250015	72	40	0.024
32	1"	250020	75	43	0.036
40	1¼"	250025	84	49	0.052
50	1½"	250030	92	54	0.076
50	2"	250032	110	52	0.108
63	1½"	250033	110	52	0.104
63	2"	250035	110	63	0.112
75	2½"	250040	110	63	0.176
90	3"	250045	115	63	0.268
110	4"	250050	120	65	0.404



FEMALE THREADED ADAPTORS (POLY)

PN16

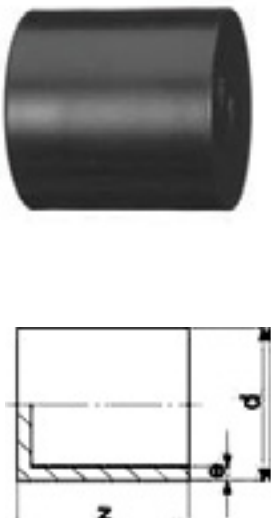
d (mm)	R (inch)	Code	L (mm)	z (mm)	Weight (kg)
20	½"	250100	74	39	0.068
25	¾"	250105	74	39	0.068
32	1"	250110	83	43	0.068
40	1¼"	250115	90	49	0.184
50	1½"	250120	98	54	0.180
63	2"	250125	108	63	0.296
75	2½"	250130	108	63	0.280
90	3"	250135	120	63	0.460
110	4"	250140	130	65	0.630




Long Spigot Fittings

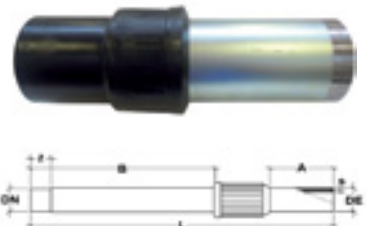
for Butt or Electrofusion Welding

LONG SPIGOT END CAPS

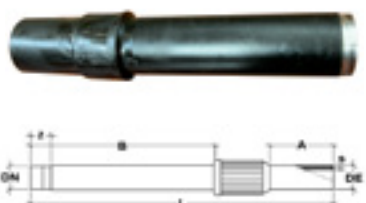
	PE100		SDR11		PN16	
	d (mm)	Code	z (mm)	e (mm)	GAS Rating (bar)	Weight (kg)
	25	485261	52	3.0	10	0.01
	32	485262	54	3.0	10	0.02
	40	485263	57	3.7	10	0.03
	50	485264	63	4.6	10	0.08
	63	485265	65	5.8	10	0.10
	75	485266	80	6.9	10	0.21
	90	485267	90	8.2	10	0.26
	110	485268	98	10.0	10	0.40
	125	485269	105	11.4	10	0.57
	160	485271	120	14.6	10	1.07
	180	485272	128	16.4	10	1.80
	200	485273	138	18.2	10	1.84
225	485274	148	20.5	10	2.50	

PE TO GALVANISED STEEL TRANSITION ADAPTORS

PE SPIGOT TO GALVANISED SPIGOT

	PE100		SDR11		PN16		S (mm)	Weight (kg)	
	DE (mm)	DN (mm)	Code	L (mm)	A (mm)	B (mm)			Z (mm)
	125	100	125100PEG	700	160	430	25	11.4	10.13
	180	150	180150PEG	600	160	310	25	16.4	10.70

PE SPIGOT TO GALVANISED ROLL GROOVE

	PE100		SDR11		PN16		S (mm)	Weight (kg)	
	DE (mm)	DN (mm)	Code	L (mm)	A (mm)	B (mm)			Z (mm)
	125	100	125100PERG	700	160	430	25	11.4	10.13
	180	150	180150PERG	600	160	310	25	16.4	10.70

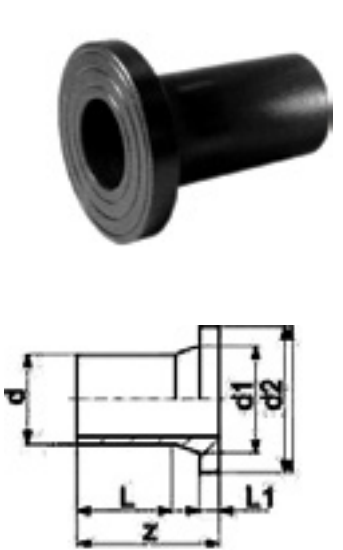
*Galv pipe is PE sheathed up to roll groove.

*Hydrant standpipe riser to above ground.

Long Spigot Fittings

for Butt or Electrofusion Welding

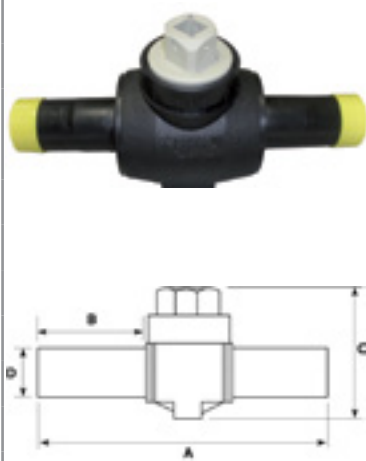
LONG SPIGOT STUB FLANGES

d (mm)	Code	PE100	SDR11	PN16	L (mm)	L1 (mm)	GAS Rating (bar)	Weight (kg)	
		d1 (mm)	d2 (mm)	z (mm)					
20	585090	27	45	89	64	7	10	0.06	
25	585091	33	58	86	65	9	10	0.06	
32	485522	42	68	80	54	10	10	0.06	
40	485523	51	73	85	57	11	10	0.08	
50	485524	61	84	92	63	12	10	0.12	
63	485525	75	100	100	69	14	10	0.17	
75	485526	89	109	120	87	16	10	0.30	
90	485527	106	128	140	101	17	10	0.44	
110	485528	126	158	160	120	18	10	0.68	
125	485529	132	158	170	123	25	10	0.84	
140	585092	155	188	180	124	25	10	1.30	
160	485531	176	212	180	133	25	10	1.64	
180	485532	180	212	190	160	30	10	1.87	
200	485533	234	268	200	132	32	10	2.76	
225	485534	235	268	200	138	32	10	2.97	
250	585093	285	320	210	130	25	10	4.54	
280	585094	291	320	210	140	25	10	4.93	
315	585095	335	370	235	150	25	10	6.39	

Long Spigot Fittings

for Butt or Electrofusion Welding

PE BALL VALVES - FULL PORT

	Nominal Bore D (mm)	Code	PE100	SDR11	PN16	GAS Rating (bar)	Weight (kg)
			A (mm)	B (mm)	C (mm)		
	20	2962020	310	107	136	10	0.50
	25	2962025	310	107	136	10	0.55
	32	2962032	324	109	153	10	0.77
	40	2962040	324	109	153	10	0.80
	50	2962050	410	125	195	10	2.24
	63	2962063	420	125	205	10	2.42
	90	2962090	575	188	289	10	6.60
	110	2962110	575	188	289	10	6.75
	125	2962125	575	154	289	10	6.90
	160	2962160	625	154	490	10	35.00
	180	2962180	625	154	490	10	35.50
	200	2962200	625	154	490	10	36.00
	* 225	2962225	625	154	490	4	37.00

*Authority approval for each application required.
*SDR17.6 PN10 Water.

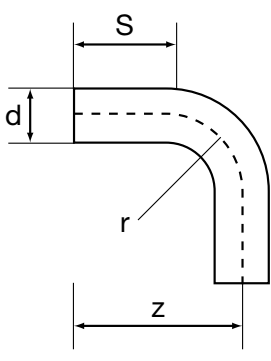
Buttweld Fittings



Buttweld Fittings

for Butt or Electrofusion Welding

ELONGATED SHORT RADIUS BENDS 90°

	PE100		SDR11		PN16		Weight (kg)
	d (mm)	Code	S (mm)	Z (mm)	R (mm)	GAS Rating (bar)	
	32	MB903211	44	78	32	10	0.04
	40	MB904011	49	91	40	10	0.67
	50	MB905011	55	107	50	10	0.12
	63	MB906311	63	128	63	10	0.23
	75	MB907511	70	148	75	10	0.37
	90	MB909011	71	164	90	10	0.57
	110	MB9011011	75	188	110	10	1.00
	125	MB9012511	85	213	125	10	1.43
	140	MB9014011	90	234	140	10	1.95
	160	MB9016011	90	254	160	10	2.76
	180	MB9018011	100	284	180	10	3.91
	200	MB9020011	108	312	200	10	5.29
	225	MB9022511	115	344	225	10	7.38

*Please check availability before ordering.

*Also available in SDR17 on request.

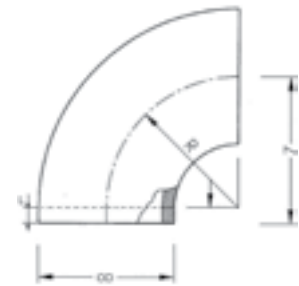


Buttweld Fittings

for Buttwelding

SHORT RADIUS BENDS 90°

	PE100	SDR11	PN16		
Size OD (mm)	Code	Spigot Length L (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)
32	B903211	4	30	34	0.02
40	B904011	5	38	43	0.04
50	B905011	5	48	53	0.07
63	B906311	5	61	66	0.13
75	B907511	6	72	78	0.21
90	B909011	6	87	93	0.33
110	B9011011	8	145	153	0.61
125	B9012511	8	122	130	0.90
140	B9014011	8	137	145	1.24
160	B9016011	8	157	165	1.88
180	B9018011	8	176	184	2.58
200	B9020011	8	196	204	3.57
225	B9022511	10	221	231	5.01
250	B9025011	10	246	256	6.96
280	B9028011	10	276	286	9.28
315	B9031511	10	312	322	13.22
355	B9035511	15	365	380	20.74
400	B9040011	25	410	435	30.45

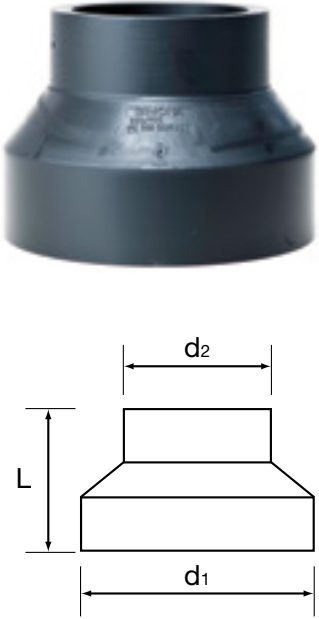


	PE100	SDR17	PN10		
Size OD (mm)	Code	Spigot Length L (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)
90	B909017	6	87	93	0.22
110	B9011017	8	107	115	0.40
125	B9012517	8	122	130	0.59
140	B9014017	8	137	145	0.81
160	B9016017	8	157	165	1.22
180	B9018017	8	176	184	1.73
200	B9020017	8	196	204	2.40
225	B9022517	10	221	231	3.40
250	B9025017	10	246	256	4.60
280	B9028017	10	276	286	6.20
315	B9031517	10	312	322	8.90
355	B9035517	15	365	380	13.00
400	B9040017	25	410	435	19.70

Buttweld Fittings

for Butt Welding

BUTTWELD REDUCERS

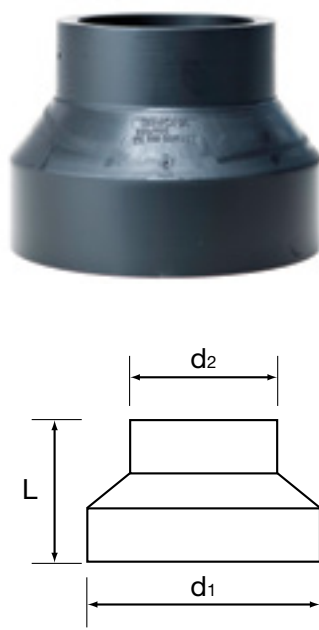
	PE100		SDR11		PN16	
	Size D1 (mm)	Size D2 (mm)	Code	L (mm)	Weight (kg)	
	63	50	R635011	60	0.06	
	90	50	R905011	74	0.15	
	90	63	R906311	74	0.13	
	90	75	R907511	74	0.15	
	110	50	R1105011	90	0.25	
	110	63	R1106311	105	0.29	
	110	90	R1109011	100	0.30	
	125	90	R1259011	110	0.39	
	125	110	R12511011	102	0.40	
	140	110	R14011011	110	0.48	
	140	125	R14012511	110	0.54	
	160	90	R1609011	140	0.75	
	160	110	R16011011	128	0.73	
	160	125	R16012511	122	0.74	
	160	140	R16014011	120	0.77	
	180	110	R18011011	130	0.88	
	180	125	R18012511	140	0.90	
	180	160	R18016011	130	1.06	
	200	110	R20011011	118	1.38	
	200	160	R20016011	145	1.35	
	200	180	R20018011	135	1.44	
	225	160	R22516011	160	1.76	
	225	180	R22518011	160	2.96	
	225	200	R22520011	160	2.02	
	250	160	R25016011	170	2.25	
	250	200	R25020011	180	2.65	
	250	225	R25022511	180	2.89	
	280	200	R28020011	200	3.54	
	280	225	R28022511	200	3.66	
	280	250	R28025011	200	3.88	
	315	200	R31520011	225	4.74	
315	225	R31522511	230	4.98		
315	250	R31525011	225	5.26		
315	280	R31528011	225	5.50		
355	250	R35525011	120	4.50		
355	280	R35528011	120	4.20		
355	315	R35531511	120	4.10		
400	250	R40025011	125	6.20		
400	280	R40028011	125	6.00		
400	315	R40031511	125	5.90		
400	355	R40035511	125	4.90		
450	315	R45031511	125	9.70		
450	355	R45035511	125	9.40		
450	400	R45040011	125	6.20		
500	400	R50040011	125	10.00		
500	450	R50045011	125	9.00		
560	450	R56045011	125	12.90		
560	500	R56050011	125	11.40		
630	450	R63045011	125	20.20		
630	500	R63050011	125	17.80		
630	560	R63056011	125	14.80		

*Please check availability before ordering.

Butt Weld Fittings

for Butt welding

BUTTWELD REDUCERS

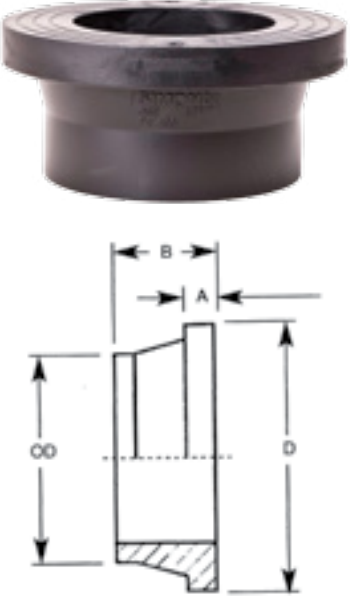
	PE100	SDR17	PN10		
Size D1 (mm)	Size D2 (mm)	Code	L (mm)	Weight (kg)	
110	63	R1106317	105	0.20	
110	90	R1109017	100	0.22	
125	90	R1259017	110	0.28	
125	110	R12511017	102	0.28	
140	110	R14011017	110	0.30	
140	125	R14012517	110	0.36	
160	90	R1609017	140	0.53	
160	110	R16011017	128	0.52	
160	125	R16012517	122	0.50	
160	140	R16014017	120	0.52	
180	160	R18016017	130	0.70	
200	160	R20016017	145	0.89	
200	180	R20018017	135	0.98	
225	160	R22516017	160	1.21	
225	180	R22518017	160	1.28	
225	200	R22520017	160	1.32	
250	160	R25016017	170	1.00	
250	200	R25020017	180	1.82	
250	225	R25022517	180	2.03	
280	200	R28020017	200	2.44	
280	225	R28022517	200	2.56	
280	250	R28025017	200	2.64	
315	200	R31520017	225	3.36	
315	225	R31522517	230	3.50	
315	250	R31525017	225	3.58	
315	280	R31528017	225	3.65	
355	250	R35525017	120	3.80	
355	280	R35528017	120	3.20	
355	315	R35531517	120	3.00	
400	250	R40025017	125	4.60	
400	280	R40028017	125	6.90	
400	315	R40031517	125	4.20	
400	355	R40035517	125	4.00	
450	315	R45031517	125	7.50	
450	355	R45035517	125	5.50	
450	400	R45040017	125	5.00	
500	400	R50040017	125	6.00	
500	450	R50045017	125	5.80	
560	450	R56045017	125	8.60	
560	500	R56050017	125	7.60	
630	450	R63045017	125	13.70	
630	500	R63050017	125	12.00	
630	560	R63056017	125	9.80	

*Please check availability before ordering.

Buttweld Fittings

for Butt Welding

BUTTWELD STUB FLANGE ADAPTORS

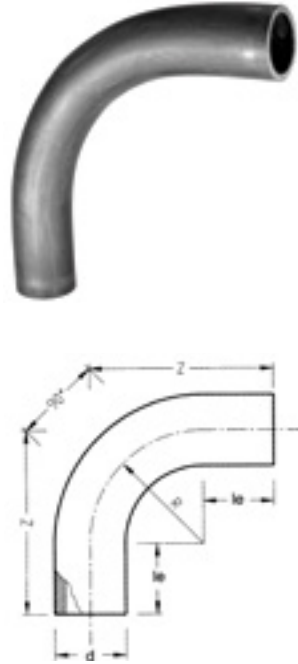
	PE100		SDR11		PN16	
	Size OD (mm)	Code	D (mm)	A (mm)	B (mm)	Weight (kg)
	50	SF5011	84	12	50	0.08
	63	SF6311	100	14	50	0.14
	75	SF7511	108	16	50	0.22
	90	SF9011	128	17	80	0.33
	110	SF11011	160	18	80	0.48
	125	SF12511	158	25	80	0.50
	140	SF14011	187	25	80	0.76
	160	SF16011	212	27	80	0.98
	180	SF18011	213	32	80	0.73
	200	SF20011	270	33	65	1.34
	225	SF22511	270	35	65	1.25
	250	SF25011	334	35	80	2.55
	280	SF28011	334	35	80	2.40
	315	SF31511	380	35	90	3.52
	355	SF35511	444	40	100	5.35
	400	SF40011	495	45	110	7.82
	450	SF45011	545	45	110	9.52
	500	SF50011	596	60	125	13.42
	560	SF56011	657	60	125	14.71
	630	SF63011	710	60	125	18.92

	PE100		SDR17		PN10	
	Size OD (mm)	Code	D (mm)	A (mm)	B (mm)	Weight (kg)
90	SF9017	128	17	80	0.28	
110	SF11017	160	18	80	0.38	
125	SF12517	158	25	80	0.38	
140	SF14017	187	25	80	0.53	
160	SF16017	212	25	80	0.71	
180	SF18017	213	25	80	0.57	
200	SF20017	270	25	65	1.13	
225	SF22517	270	25	65	0.99	
250	SF25017	334	32	80	2.14	
280	SF28017	334	32	80	1.89	
315	SF31517	380	30	90	2.79	
355	SF35517	444	35	100	4.32	
400	SF40017	495	45	110	6.40	
450	SF45017	545	45	110	7.60	
500	SF50017	596	60	125	10.70	
560	SF56017	657	60	125	12.80	
630	SF63017	710	60	125	14.80	

Buttweld Fittings

for Butt or Electrofusion Welding

SWEEP BENDS 90°

Size OD (mm)	PE100		SDR11		PN16	
	Code	Spigot Length l_e (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)	
32	SB903211	128	128	200	0.11	
40	SB904011	50	120	170	0.12	
50	SB905011	701	150	220	0.28	
63	SB906311	80	189	269	0.48	
75	SB907511	90	225	315	0.77	
90	SB909011	100	270	370	1.31	
110	SB9011011	110	330	370	2.30	
125	SB9012511	125	375	440	3.40	
140	SB9014011	150	470	500	5.24	
160	SB9016011	160	480	620	7.12	
180	SB9018011	200	590	640	11.12	
200	SB9020011	200	600	790	13.87	
225	SB9022511	225	675	800	19.74	
250	SB9025011	250	750	900	26.99	
280	SB9028011	280	840	1000	37.89	
315	SB9031511	300	945	1120	53.20	
355	SB9035511	300	1065	1245	73.63	
400	SB9040011	491	1420	1521	132.11	
450	SB9045011	732	1450	1837	194.88	
500	SB9050011	931	1650	2101	286.22	
560	SB9056011	860	1682	2120	351.17	
630	SB9063011	699	1715	2164	417.41	

*Please check availability before ordering.

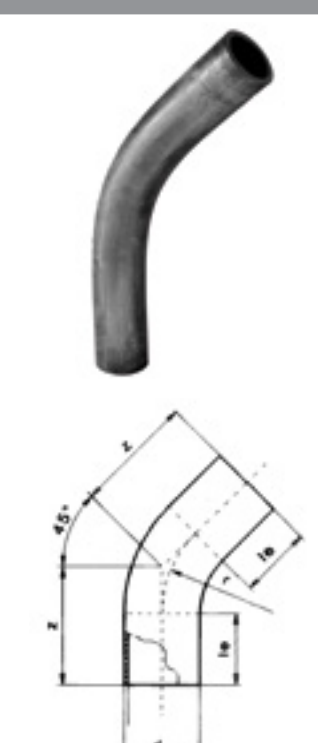
Size OD (mm)	PE100		SDR17		PN10	
	Code	Spigot Length l_e (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)	
90	SB909017	100	270	370	0.90	
110	SB9011017	110	330	440	1.58	
125	SB9012517	125	375	500	2.30	
140	SB9014017	150	470	620	3.57	
160	SB9016017	160	480	640	4.81	
180	SB9018017	200	590	790	9.21	
200	SB9020017	200	600	800	9.40	
225	SB9022517	225	675	900	13.41	
250	SB9025017	250	750	1000	18.26	
280	SB9028017	280	840	1120	25.69	
315	SB9031517	300	945	1245	36.08	
355	SB9035517	300	1065	1365	50.08	
400	SB9040017	491	1420	1521	89.44	
450	SB9045017	732	1450	1837	131.98	
500	SB9050017	931	1650	2101	193.53	
560	SB9056017	860	1682	2120	238.19	
630	SB9063017	699	1715	2164	282.33	

*Please check availability before ordering.

Buttweld Fittings

for Butt or Electrofusion Welding

SWEEP BENDS 45°

	PE100		SDR11		PN16	
	Size OD (mm)	Code	Spigot Length l_e (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)
	40	SB454011	50	120	100	0.08
	50	SB455011	70	150	132	0.17
	63	SB456311	80	189	158	0.32
	75	SB457511	90	225	183	0.52
	90	SB459011	100	270	212	0.87
	110	SB4511011	110	330	247	1.50
	125	SB4512511	125	375	280	2.21
	140	SB4514011	150	470	345	3.38
	160	SB4516011	160	480	359	4.62
	180	SB4518011	200	590	444	7.24
	200	SB4520011	200	600	449	9.00
	225	SB4522511	225	675	505	12.81
	250	SB4525011	250	750	561	17.51
	280	SB4528011	280	840	628	24.59
	315	SB4531511	300	945	691	34.26
	355	SB4535511	300	1065	741	46.53
	400	SB4540011	695	1030	1123	90.43
	450	SB4545011	1066	1105	1524	156.24
	500	SB4550011	1040	1170	1526	192.72
	560	SB4556011	1255	1260	1778	281.73
630	SB4563011	1175	1465	1782	357.08	

* Please check availability before ordering.


	PE100		SDR17		PN10	
	Size OD (mm)	Code	Spigot Length l_e (mm)	Radius R (mm)	Centre to Face Z (mm)	Weight (kg)
90	SB459017	100	270	212	0.59	
110	SB4511017	110	330	247	1.03	
125	SB4512517	125	375	280	1.49	
140	SB4514017	150	470	345	2.30	
160	SB4516017	160	480	359	3.12	
180	SB4518017	200	590	444	5.99	
200	SB4520017	200	600	449	6.10	
225	SB4522517	225	675	505	8.70	
250	SB4525017	250	750	561	11.85	
280	SB4528017	280	840	628	16.67	
315	SB4531517	300	945	691	23.24	
355	SB4535517	300	1065	741	31.65	
400	SB4540017	695	1030	1123	61.22	
450	SB4545017	1066	1105	1524	105.81	
500	SB4550017	1040	1170	1526	130.31	
560	SB4556017	1255	1260	1778	191.09	
630	SB4563017	1175	1465	1782	241.52	

*Please check availability before ordering.


Buttweld Fittings

for Buttwelding

BUTTWELD END CAPS

PE100	SDR11	PN16	
Size		Code	
160		EC16011	
180		EC18011	
200		EC20011	
225		EC22511	
250		EC25011	
280		EC28011	
315		EC31511	
355		EC35511	
400		EC40011	

BUTTWELD PONTOON CAPS

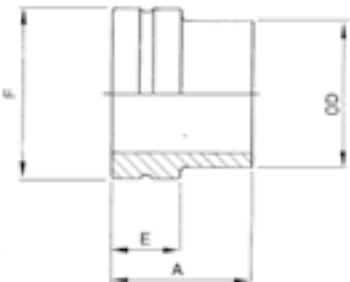
PE100	SDR41	PN4	
Size		Code	
160		PC160	
200		PC200	
225		PC225	
250		PC250	
280		PC280	
315		PC315	
355		PC355	



Buttweld Fittings

for Butt Welding

BUTTWELD SHOULDERED ENDS

	PE100			SDR11	PN16		Weight (kg)
	Size OD (mm)	Code	To Suit	F (mm)	E (mm)	A (mm)	
	50	SE5011	50	67	41	60	0.13
	63	SE6311	50	67	41	80	0.22
	75	SE7511	80	97	43	75	0.36
	90	SE9011	80	97	43	75	0.39
	110	SE11011	100	122	43	75	0.61
	125	SE12511	150	178	48	75	1.40
	160	SE16011	150	178	47	75	1.23
	200	SE20011	200	232	55	75	1.91
	225	SE22511	200	232	55	75	1.84
	250	SE25011	250	286	55	75	2.89
	280	SE28011	250	337	55	75	4.04
	315	SE31511	300	337	55	75	3.90
	355	SE35511	350	369	55	80	4.50

Size OD (mm)	PE100			SDR17	PN10		Weight (kg)
	Code	To Suit	F (mm)	E (mm)	A (mm)		
90	SE9017	80	97	43	75	0.28	
110	SE11017	100	122	43	75	0.61	
125	SE12517	150	178	48	75	1.28	
160	SE16017	150	178	47	75	1.05	
200	SE20017	200	232	55	75	1.10	
225	SE22517	200	232	55	75	1.05	
250	SE25017	250	286	55	75	1.50	
280	SE28017	250	337	55	75	2.10	
315	SE31517	300	337	55	75	3.29	
355	SE35517	350	369	55	80	4.50	



Buttweld Fittings

for Buttwelding

BOLTED COUPLINGS FOR SHOULDERED ENDS TO GALVANISED SHOULDERED COUPLINGS

NOM Bore (mm)	Size OD (mm)	Code	A (mm)	B (mm)	C (mm)	Work Press Mpa	Bolt Size x Length (mm)	Qty Bolt Holes	Max Tightening Torque NM	Weight (kg)	
50	60.3	SC63	143	104	46	5.2	M12 x 65	2	30	1.4	
80	88.9	SC90	180	132	46	5.2	M12 x 75	2	30	1.8	
100	114.3	SC110	205	165	52	5.2	M12 x 90	2	30	2.4	
150	165.1	SC160	275	215	53	4.0	M16 x 120	2	73	4.0	
200	219.1	SC200	345	280	62	4.0	M20 x 150	2	143	7.2	
250	273.1	SC250	420	335	65	1.8	M20 x 150	2	143	9.5	
300	323.9	SC315	470	383	67	1.8	M20 x 150	2	143	11.5	
350	355.6	SC355	530	422	76	1.6	M24 x 150	2	248	15.0	

*Please check availability before ordering.





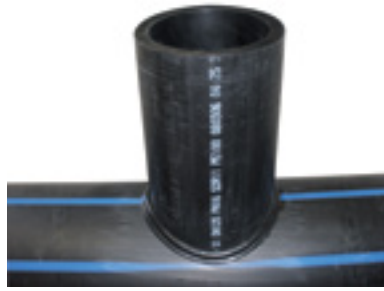
Fabricated Fittings/Manifolds



Fabricated Fittings/Manifolds



FLANGED BENDS 90°



FABRICATED TEES 90°



TRUE Y PIECES 90° & 60°



FLANGED SWEEP BENDS 45°



Y JUNCTIONS
45° & 60°



FLANGED SWEEP
BENDS 90°



FLANGED TEES



FLANGED BENDS 45°

Matrix Piping Systems have a prefabrication workshop which specialises in fabricating PE Pipe & Sheet. We make to order: manifolds, pipe spools, flanged bends & tees, offsets and reducing tees, all to your specifications.

Fabricated Fittings/Manifolds



EXTENDED STUB FLANGES



PULLED REDUCING TEES



CUSTOM MANIFOLDS



THREADED PIPES



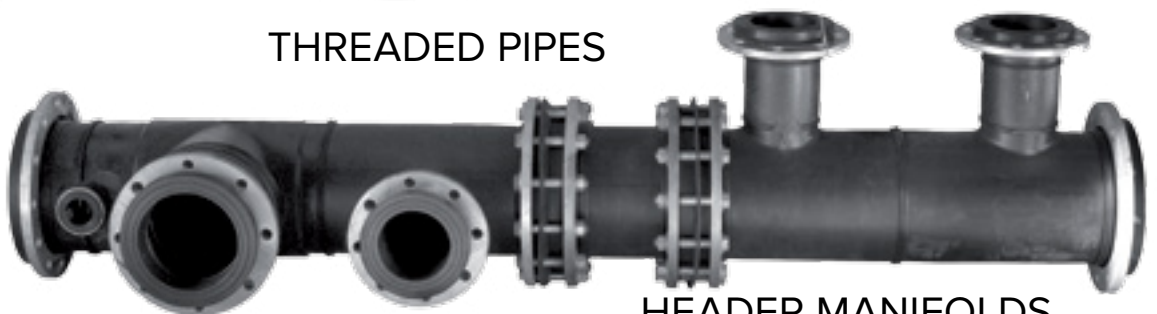
CUSTOM MACHINED FITTINGS



PIPE SPOOLS



OFFSETS

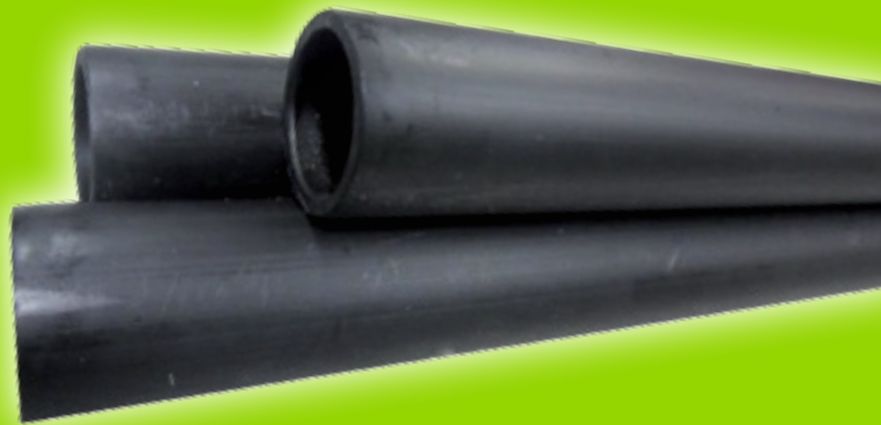


HEADER MANIFOLDS

Matrix Piping Systems have a prefabrication workshop which specialises in fabricating PE Pipe & Sheet. We make to order: manifolds, pipe spools, flanged bends & tees, offsets and reducing tees, all to your specifications.



Poly Pipe



PE PRESSURE PIPE SPECIFICATION ACCORDING TO AS/NZS 4130

SDR	41	33	26	21	17	13.6	11	9	SDR										
PN for PE80	3.2	4	-	6.3	8	10	12.5	16	PN for PE80										
PN for PE100	4	-	6.3	8	10	12.5	16	20	PN for PE100										
DN	Min Wall	Mean ID	Ave Mass	Min Wall	Mean ID	Ave Mass	Min Wall	Mean ID	Ave Mass	Min Wall	Mean ID	Ave Mass	Min Wall	Mean ID	Ave Mass	Min Wall	Mean ID	Ave Mass	DN
16																			16
20						1.60	16.65	0.0976	1.90	16.05	0.1125	2.30	15.15	0.1337	2.80	19.15	0.2014	2.30	20
25						1.60	21.65	0.1241	1.90	28.05	0.1870	2.40	26.95	0.2329	2.90	25.95	0.2730	3.60	25
32						1.90	28.65	0.1600	1.90	35.00	0.2963	2.40	33.80	0.3589	3.70	42.35	0.5543	3.70	32
40						1.90	36.10	0.2400	2.40	43.85	0.4564	3.00	43.85	0.4564	3.70	42.35	0.5543	4.60	40
50						2.40	45.05	0.3800	3.00	55.20	0.7274	4.70	53.30	0.8836	5.80	51.00	1.0654	5.60	50
63						3.00	56.90	0.5800	3.80	65.75	1.0265	5.50	63.65	1.2324	6.80	60.95	1.4873	7.10	63
75						3.60	67.65	0.8300	4.50	78.95	1.4762	6.60	76.45	1.7706	8.20	73.05	2.1558	8.40	75
90						4.30	81.25	1.2000	5.40	89.95	2.1960	8.10	93.30	2.6563	10.00	89.40	3.1962	10.10	90
110	2.70	104.70	0.9458	3.40	103.20	1.1700	4.30	101.30	6.60	96.50	2.1960	8.10	93.30	2.6563	10.00	89.40	3.1962	12.30	110
125	3.10	118.90	1.2414	3.90	117.30	1.5200	6.00	112.90	7.40	109.90	2.8018	9.20	106.10	3.4238	11.40	101.50	4.1474	14.00	125
140	3.50	133.15	1.5561	4.30	131.45	1.8800	6.70	126.45	8.30	123.05	3.5169	10.30	118.85	4.2868	12.70	113.85	5.1685	15.70	140
160	4.00	152.25	2.0161	4.90	150.35	2.4300	7.70	144.45	9.50	140.65	4.5707	11.80	135.85	5.5964	14.60	129.95	6.7848	17.90	160
180	4.40	171.45	2.5095	5.50	169.15	3.0800	8.60	162.65	10.70	158.25	5.8074	13.30	152.75	7.1035	16.40	146.25	8.5763	20.10	180
200	4.90	190.50	3.0846	6.20	187.70	3.8500	9.60	180.60	11.90	175.80	7.1649	14.70	169.90	8.7105	18.20	162.50	10.5745	22.40	200
225	5.50	214.35	3.9046	6.90	211.45	4.8000	10.80	203.25	13.40	197.75	9.0884	16.60	191.05	11.0624	20.50	182.85	13.3858	25.10	225
250	6.20	237.95	4.8923	7.70	234.85	5.9500	11.90	226.05	14.80	219.95	11.1381	18.40	212.35	13.6277	22.70	203.35	16.4628	27.90	250
280	6.90	266.70	6.0628	8.60	263.10	7.4500	13.40	253.00	16.60	246.30	13.9931	20.60	237.90	17.0752	25.40	227.80	20.6395	31.30	280
315	7.70	300.15	7.6161	9.70	295.95	9.4300	15.00	284.85	18.70	277.05	17.7198	23.20	267.55	21.6403	28.60	256.25	26.1256	35.20	315
355	8.70	338.20	9.6877	10.90	333.60	11.9300	16.90	321.00	21.10	312.10	22.5493	26.10	301.60	27.4323	32.20	288.80	33.1589	39.60	355
400	9.80	381.10	12.2806	12.30	375.80	15.1900	19.10	361.50	23.70	351.90	28.4998	29.40	339.90	34.7905	36.30	325.40	42.1007	44.70	400
450	11.00	428.85	15.4866	13.80	422.95	19.1300	21.50	406.75	26.70	395.85	36.1096	33.10	382.35	44.0706	40.90	366.05	53.3147	50.20	450
500	12.30	476.25	19.2786	15.30	469.95	23.6000	23.90	451.95	29.60	439.95	44.4809	26.80	424.85	54.3763	45.40	406.75	65.7823	55.80	500
560	13.70	533.60	24.0044	17.20	526.20	29.7000	26.70	506.30	33.20	492.60	55.8873	41.20	475.80	68.2156	50.80	455.70	82.4036		560
630	15.40	600.35	30.3710	19.30	592.15	37.4700	30.00	569.75	37.30	554.35	70.6213	46.30	535.45	86.2294	57.20	512.55	104.4155		630
710	17.40	676.50	38.6482	21.80	667.30	47.6200	33.90	641.90	42.10	624.60	89.8187	52.20	603.40	109.5464					710
800	19.60	762.30	49.0068	24.50	752.00	60.3200	38.10	723.40	47.40	703.90	113.8923	58.80	680.00	138.9560					800
900	22.00	857.75	61.8130	27.60	845.95	76.4100	42.90	813.85	53.50	791.55	144.5500								900
1000	24.50	952.90	76.5370	30.60	940.10	94.1100	47.70	904.20	59.30	879.80	178.0568								1000

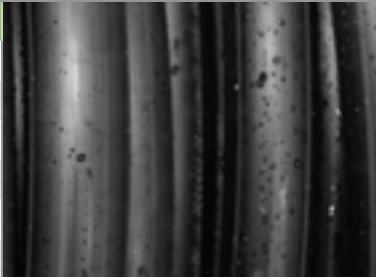
NOTE: 1) All dimensions are in millimetres, and mass in kg/m. 2) Nominal Diameter (DN) equals outside diameter.

PE100 Pipe


AS/NZS4130

ALL BLACK PIPE

	PE100	SDR11	PN16	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
COILS				
40	CL4011150	150	32.30	0.4340
50	CL5011150	150	40.45	0.6736
63	CL6311100	100	51.00	1.0654
75	CL7511100	100	60.95	1.4873
90	CL9011100	100	73.05	2.1558
110	CL11011100	100	89.40	3.1962



	PE100	SDR11	PN16	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
LENGTHS				
25	251106	6	20.15	0.1716
32	321106	6	25.95	0.2730
40	401106	6	32.30	0.4340
50	501106	6	40.45	0.6736
63	631106	6	51.00	1.0654
75	751106	6	60.95	1.4873
90	901106	6	73.05	2.1558
110	1101112	12	89.40	3.1962
125	1251112	12	101.50	4.1474
140	1401112	12	113.85	5.1685
160	1601112	12	129.95	6.7848
180	1801112	12	146.25	8.5763
200	2001112	12	162.50	10.5745
225	2251112	12	182.85	13.3858
250	2501112	12	203.35	16.4628
280	2801112	12	227.80	20.6395
315	3151112	12	256.25	26.1256
355	3551112	12	288.80	33.1589
400	4001112	12	325.40	42.1007
450	4501112	12	366.05	53.3147
500	5001112	12	406.75	65.7823
560	5601112	12	455.70	82.4036
630	6301112	12	512.55	104.4155



*More variations in size, class & length available on request.

PE100 Pipe

AS/NZS4130

ALL BLACK PIPE

	PE100	SDR17	PN10	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
LENGTHS				
110	1101712	12	96.50	2.1960
125	1251712	12	109.90	2.8018
140	1401712	12	123.05	3.5169
160	1601712	12	140.65	4.5707
180	1801712	12	158.25	5.8074
200	2001712	12	175.80	7.1649
225	2251712	12	197.75	9.0884
250	2501712	12	219.95	11.1381
280	2801712	12	246.30	13.9931
315	3151712	12	277.05	17.7198
355	3551712	12	312.10	22.5493
400	4001712	12	351.90	28.4998
450	4501712	12	395.85	36.1096
500	5001712	12	439.95	44.4809
560	5601712	12	492.60	55.8873
630	6301712	12	554.35	70.6213



*More variations in size, class & length available on request.

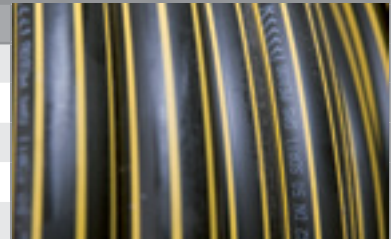
PE100 Pipe

AS/NZS4130

GAS PIPE

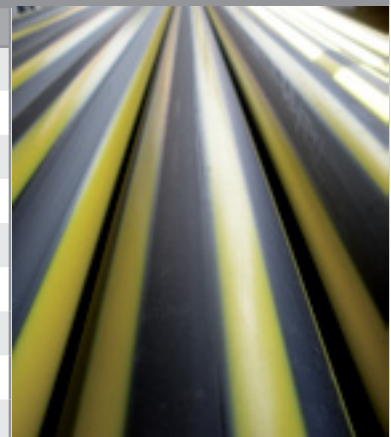
PE100 S2

Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
COILS				
25	CL2513100Y	100	21.05	0.1435
32	CL3213100Y	100	26.95	0.2329
40	CL4013150Y	150	33.80	0.3589
50	CL5013150Y	150	42.35	0.5543
63	CL6313100Y	100	53.30	0.8836



PE100 S2

Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
LENGTHS				
32	321306Y	6	26.95	0.2329
40	401306Y	6	33.80	0.3589
50	501306Y	6	42.35	0.5543
63	631306Y	6	53.30	0.8836
75	751306Y	6	63.65	1.2324
90	901306Y	6	76.45	1.7706
110	1101312Y	12	93.30	2.6563
125	1251312Y	12	106.10	3.4238
180	1801312Y	12	152.75	7.1035




*More variations in size, class & length available on request.





PE100 Pipe

AS/NZS4130

BLUE STRIPE PIPE

	PE100	SDR11	PN16		
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)	
COILS					
	25	CL251150B	50	20.15	0.1716
	32	CL321150B	50	25.95	0.2730
	32	CL3211200B	200	25.95	0.2730
	40	CL4011150B	150	32.30	0.4340
	50	CL5011150B	150	40.45	0.6736
	63	CL6311150B	100	51.00	1.0654

	PE100	SDR13.6	PN12.5		
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)	
COILS					
	40	CL4013150B	150	33.80	0.3589
	50	CL5013150B	150	42.35	0.5543
	63	CL6313100B	100	53.30	0.8836

	PE100	SDR11	PN16		
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)	
LENGTHS					
	25	251106B	6	20.15	0.1716
	32	321106B	6	25.95	0.2730
	40	401106B	6	32.30	0.4340
	50	501106B	6	40.45	0.6736
	63	631106B	6	51.00	1.0654
	75	751106B	6	60.95	1.4873
	90	901106B	6	73.05	2.1558
	110	1101106B	6	89.40	3.1962
	125	1251112B	12	101.50	4.1474
	180	1801112B	12	146.25	8.5763



*More variations in size, class & length available on request.


* Project qty's of red stripe available on request.

PE100 Pipe


AS/NZS4130

LILAC COEX PIPE


PE100		SDR11	PN16	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
COILS				
25	CL251150LX	50	20.15	0.1716
25	CL2511200LX	200	20.15	0.1716
32	CL3211200LX	200	25.95	0.2730
40	CL401150LX	50	32.30	0.4340
40	CL4011150LX	150	32.30	0.4340
50	CL501150LX	50	40.45	0.6736
50	CL5011150LX	150	40.45	0.6736
63	CL631150LX	50	51.00	1.0654
90	CL9011100LX	100	73.05	2.1558



PE100		SDR13.6	PN12.5	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
COILS				
25	CL251350LX	50	21.05	0.1435
25	CL2513200LX	200	21.05	0.1435
32	CL321350LX	50	26.95	0.2329
32	CL3213200LX	200	26.95	0.2329
40	CL401350LX	50	33.80	0.3589
40	CL4013150LX	150	33.80	0.3589
50	CL501350LX	50	42.35	0.5543
50	CL5013150LX	150	42.35	0.5543
63	CL631350LX	50	53.30	0.8836
63	CL6313100LX	100	53.30	0.8836
75	CL7513100LX	100	63.65	1.2324
90	CL9013100LX	100	76.45	1.7706



PE100		SDR11	PN16	
Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
LENGTHS				
125	1251112LX	12	101.50	4.1474
180	1801112LX	12	146.25	8.5763





*More variations in size, class & length available on request.

*Lilac stripe available on request.

PE100 Pipe

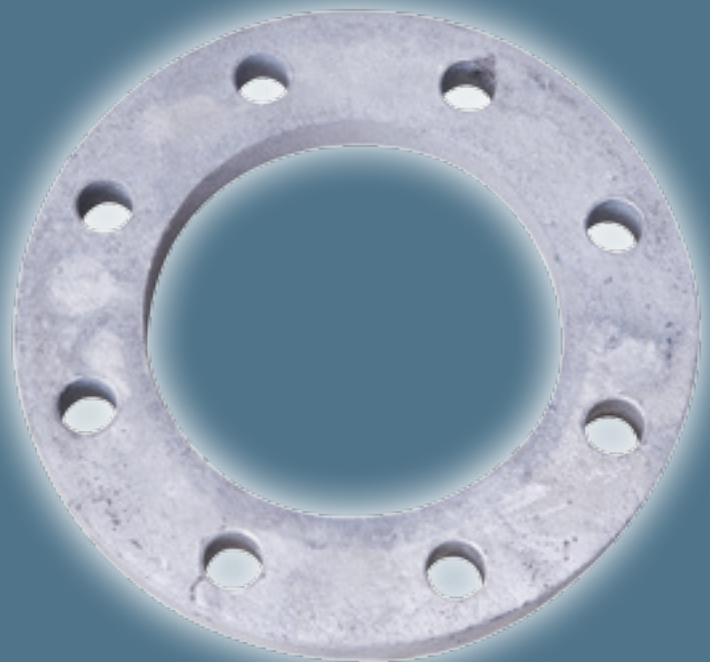
LOW PRESSURE PIPE (FOR NON PRESSURE APPLICATIONS)

	PE100	SDR41	PN4		
	Size OD (mm)	Code	Standard Length (m)	ID (mm)	Weight (kg per m)
	LENGTHS				
	200	2004112	12	190.50	3.0846
	250	2504112	12	237.95	4.8923
	315	3154112	12	00.15	7.6161
	400	4004112	12	381.10	12.2806
	450	4504112	12	428.85	15.4866
	500	5004112	12	476.25	19.2786
	560	5604112	12	533.60	24.0044
	630	6304112	12	600.35	30.3710

*More variations in size, class & length available on request.

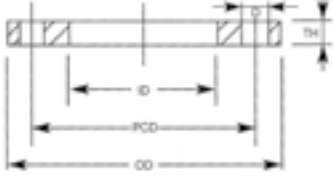


Backing Rings



Backing Rings

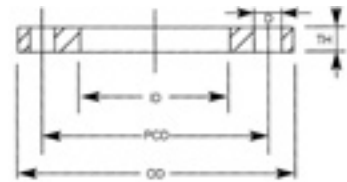
BACKING RINGS GALVANISED STEEL - TABLE D

	Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
	110	4"	611101	215	125	178	10	4	18	M16	1.81
	125	4"	611201								
	140	5"									
	160	6"	611601	280	175	235	13	8	18	M16	3.62
	180	6"	611801	280	185	235	13	8	18	M16	3.33
	200	8"	612001	335	230	292	13	8	18	M16	4.55
	225	8"	612251	335	240	292	13	8	18	M16	4.17
	250	10"	612501	405	290	356	16	8	22	M20	7.50
	280	10"	612801	405	300	356	16	8	22	M20	6.92
	315	12"	613151	455	345	406	19	12	22	M20	9.63
	355	14"	613551	525	373	470	22	12	26	M24	17.41
	400	16"	614001	580	425	521	22	12	26	M24	20.03
	450	18"	614501	640	480	584	25	12	26	M24	26.37
	500	20"	615001	705	533	641	29	16	26	M24	36.14
	560	22"	615601	760	590	699	29	16	30	M27	38.46
	630	24"	616301	825	660	756	32	16	30	M27	45.50



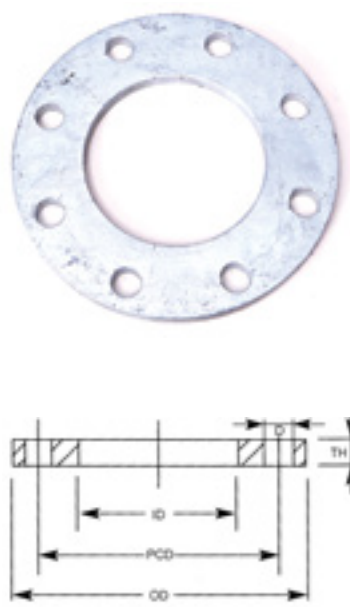
BACKING RINGS GALVANISED STEEL - TABLE E

Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
20	1/2"	610201	95	32	67	6	4	14	M12	0.27
25	3/4"	610251	100	37	73	6	4	14	M12	0.29
32	1"	610321	115	44	83	7	4	14	M12	0.45
40	1 1/4"	610401	120	52	87	8	4	14	M12	0.54
50	1 1/2"	610501	135	62	98	9	4	14	M12	0.75
63	2"	610631	150	74	114	10	4	18	M16	0.97
75	2 1/2"	610751	165	87	127	10	4	18	M16	1.13
90	3"	610901	185	103	146	12	4	18	M16	1.65
110	4"	611102	215	125	178	13	8	18	M16	2.24
125	4"	611252	215	140	178	13	8	18	M16	1.93
125	5"	611251	255	140	210	14	8	18	M16	3.70
140	5"	611401	255	158	210	14	8	18	M16	3.23
160	6"	611602	280	175	235	17	8	22	M20	4.60
180	6"	611802	280	185	235	17	8	22	M20	4.22
200	8"	612002	335	230	292	19	8	22	M20	6.50
225	8"	612252	335	240	292	19	8	22	M20	5.95
250	10"	612502	405	290	356	22	12	22	M20	10.05
280	10"	612802	405	300	356	22	12	22	M20	9.25
315	12"	613152	455	345	406	25	12	26	M24	12.31
355	14"	613552	525	373	470	29	12	26	M24	22.95
400	16"	614002	580	425	521	32	12	26	M24	29.13
450	18"	614502	640	480	584	35	16	26	M24	36.33
500	20"	615002	705	533	641	38	16	26	M24	47.35
560	22"	615602	760	590	699	44	16	30	M27	58.35
630	24"	616302	825	660	756	48	16	33	M30	67.36



Backing Rings

BACKING RINGS GALVANISED STEEL - ANSI 150

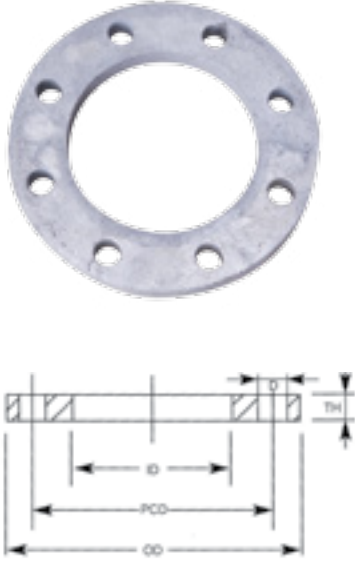
	Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
	20	1/2"	610203	90	32	60.5	6	4	16	M14	0.22
	25	3/4"	610253	98	37	70.0	8	4	16	M14	0.36
	32	1"	610323	108	44	79.5	8	4	16	M14	0.43
	40	1 1/4"	610403	117	52	89.0	8	4	16	M14	0.49
	50	1 1/2"	610503	127	62	98.5	10	4	16	M14	0.69
	63	2"	610633	152	74	120.5	10	4	20	M18	0.99
	75	2 1/2"	610753	178	87	139.5	10	4	20	M18	1.39
	90	3"	610903	191	103	152.0	12	4	20	M18	1.80
	110	4"	611103	229	125	190.5	12	8	20	M18	2.49
	125	5"	611253	254	140	216.0	16	8	22	M20	4.05
	140	5"	611403	254	158	216.0	16	8	22	M20	4.00
	160	6"	611603	279	175	241.0	16	8	22	M20	4.28
	180	6"	611803	279	185	241.0	16	8	22	M20	4.44
	200	8"	612003	343	230	298.5	20	8	22	M20	7.51
	225	8"	612253	343	240	298.5	20	8	22	M20	6.93
	250	10"	612503	406	290	362.0	20	12	26	M24	8.95
	280	10"	612803	406	300	362.0	20	12	26	M24	8.23
	315	12"	613153	483	345	432.0	25	12	26	M24	16.36
	355	14"	613553	535	376	476.0	28	12	29	M27	23.26
	400	16"	614003	600	430	540.0	32	16	29	M27	31.89
450	18"	614503	635	480	578.0	36	16	32	M28.4	34.72	
500	20"	615003	700	533	635.0	40	20	32	M28.4	45.73	
560	22"	615603	750	590	692.0	46	20	35	M28.4	53.86	
630	24"	616303	825	660	756.0	32	20	30	M27	45.50	

*ANSI 300 available on request.

Backing Rings

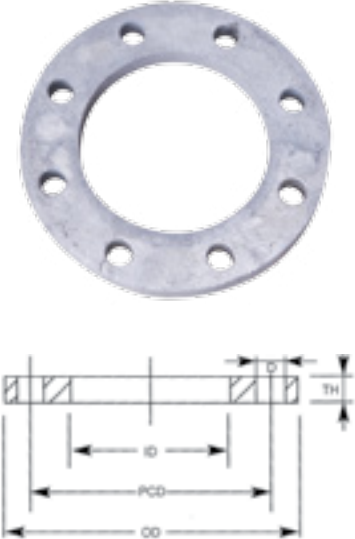
BACKING RINGS GALVANISED STEEL - DIN 16

Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
32	1"	630324	115	44	85	12	4	14	M12	0.78
40	1 1/4"	630404	140	52	100	14	4	18	M16	1.35
50	1 1/2"	630504	150	62	110	14	4	18	M16	1.50
63	2"	630634	165	74	125	16	4	18	M16	2.02
75	2 1/2"	630754	185	87	145	16	4	18	M16	2.37
90	3"	630904	200	103	160	18	8	18	M16	2.97
110	4"	631104	220	125	180	18	8	18	M16	3.35
125	4"	631254	220	140	180	18	8	18	M16	2.91
125	5"	631255	250	140	210	25	8	18	M16	6.21
140	5"	631404	250	158	210	18	8	18	M16	3.88
160	6"	631604	285	175	240	20	8	22	M20	5.76
180	6"	631804	285	185	240	20	8	22	M20	5.32
200	8"	632004	340	230	295	24	12	22	M20	8.42
225	8"	632254	340	240	295	24	12	22	M20	7.72
250	10"	632504	405	290	355	30	12	26	M24	13.28
280	10"	632804	405	300	356	30	12	22	M20	9.25
315	12"	633154	455	345	406	34	12	26	M24	12.31



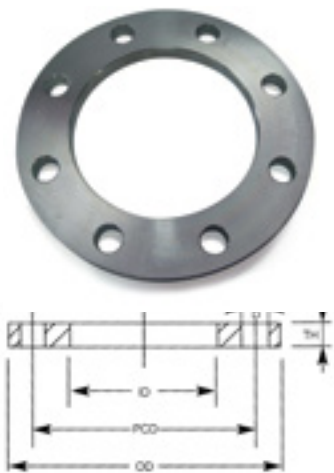
BACKING RINGS GALVANISED STEEL - DIN 10

Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
32	1"									
40	1 1/4"									
50	1 1/2"									
63	2"									
75	2 1/2"									
90	3"									
110	4"									
125	4"									
125	5"									
140	5"									
160	6"									
180	6"									
200	8"	642003	340	235	295	22	8	22	M20	7.66
225	8"	642253	340	238	295	22	8	22	M20	7.42
250	10"									
280	10"									
315	12"									




Backing Rings

BACKING RINGS 316 STAINLESS STEEL - TABLE D

	Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
	110	4"	631101	215	140	178	13	4	18	M16	2.03
	125	4"	631251	215	140	178	13	4	18	M16	2.03
	125	5"									
	160	6"	631601								
	180	6"	631801								
	200	8"									
	225	8"	632251								
	250	10"	632501	405	290	356	16	8	22	M20	12.30
	280	10"	632801	405	300	356	16	8	22	M20	12.20
	315	12"	633151								
	355	14"	633551								

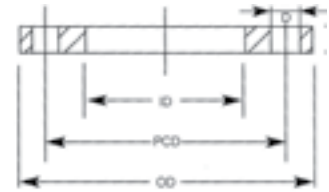
BACKING RINGS 316 STAINLESS STEEL - TABLE E

	Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
	20	1/2"	630201	95	32	67	8	4	14	M12	0.36
	25	3/4"	630251	100	37	73	8	4	14	M12	0.39
	32	1"	630321	115	44	83	8	4	14	M12	0.52
	40	1 1/4"	630401	120	52	87	8	4	14	M12	0.54
	50	1 1/2"	630501	135	62	98	8	4	14	M12	0.67
	63	2"	630631	150	74	114	8	4	18	M16	0.78
	75	2 1/2"	630751	165	87	127	10	4	18	M16	1.13
	90	3"	630901	185	103	146	10	4	18	M16	1.38
	110	4"	631102	215	125	178	13	8	18	M16	2.35
	125	4"	631252	215	140	178	13	8	18	M16	2.03
	125	5"	631253	255	140	210	13	8	18	M16	3.43
	160	6"	631602	280	175	235	14	8	22	M20	3.79
	180	6"	631802	280	185	235	14	8	22	M20	3.48
	200	8"	632002	335	230	292	16	8	22	M20	5.47
	225	8"	632252	335	230	292	16	8	22	M20	5.47
	250	10"	632502	405	290	356	16	12	22	M20	7.31
	280	10"	632802	405	300	356	16	12	22	M20	6.73
	315	12"	633152	455	345	406	18	12	22	M20	9.12
	355	14"	633552	525	373	470	20	12	26	M24	15.83

*Larger sizes available on request.

BACKING RINGS 316 STAINLESS STEEL - ANSI 150

Suit PE/Size (mm)	Flange Size (inch)	Code	OD (mm)	ID (mm)	PCD (mm)	TH (mm)	Qty Bolt Holes	D (mm)	Bolt Size (mm)	Weight (kg)
20	1/2"	620204	90	32	60.5	6	4	16	M14	0.22
25	3/4"	620254	98	37	70.0	8	4	16	M14	0.36
32	1"	620324	108	44	79.5	8	4	16	M14	0.43
40	1 1/4"	620404	117	52	89.0	8	4	16	M14	0.49
50	1 1/2"	620504	127	62	98.5	10	4	16	M14	0.69
63	2"	620634	152	74	120.5	10	4	20	M18	0.99
75	2 1/2"	620754	178	87	139.5	10	4	20	M18	1.39
90	3"	620904	191	103	152.0	12	4	20	M18	1.80
110	4"	621104	229	125	190.5	12	8	20	M18	2.49
125	4"	621254	229	140	190.5	12	8	22	M20	2.14
125	5"	621255	254	140	216.0	16	8	22	M20	4.05
140										
160	6"	621604	279	175	241.0	16	8	22	M20	4.28
180	6"	621804	279	185	241.0	16	8	22	M20	3.92
200	8"	622004	343	230	298.5	20	12	26	M24	6.98
225	8"	622254	343	240	298.5	20	12	26	M24	6.40
250	10"	622504	406	290	362.0	20	12	26	M24	8.95
280	10"	622804	406	300	362.0	20	12	26	M24	8.23
315	12"	623154	483	345	432.0	25	12	26	M24	16.36
355	14"	623554	535	376	476.0	28	12	29	M27	23.26



*Larger sizes available on request.



Backing Rings

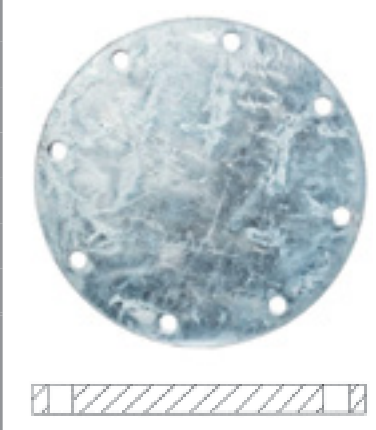
CHINA PUMP FLANGES GALVANISED STEEL

	Suit PE/Size (mm)	Flange Size	Code	ID (mm)	Weight (kg)
	160 / 180	6" (150 mm)	651601	185	2.91
	200 / 225	8" (200 mm)	652001	230	4.08
	250 / 280	10" (250 mm)	652501	290	4.60
	315	12" (300 mm)	653151	345	7.11




BLIND FLANGES GALVANISED STEEL - TABLE D

Suit PE/Size (mm)	Flange Size	Code	Weight (kg)
160 / 180	6" (150 mm)	621601	6.40
200 / 225	8" (200 mm)	621001	8.72
250 / 280	10" (250 mm)	622501	15.80
450	18" (450 mm)	624501	61.88
500	20" (500 mm)	625001	86.93
560	22" (560 mm)	625601	100.70
630	24" (600 mm)	626301	131.44




BLIND FLANGES GALVANISED STEEL - TABLE E

Suit PE/Size (mm)	Flange Size	Code	Weight (kg)
20	1/2" (15 mm)	620201	0.31
25	3/4" (20 mm)	620251	0.34
32	1" (25 mm)	620321	0.54
40	1 1/4" (30 mm)	620401	0.67
50	1 1/2" (40 mm)	620501	0.96
63	2" (50 mm)	620631	1.31
75	2 1/2" (65 mm)	620751	1.60
90	3" (80 mm)	620901	2.43
110 / 125	4" (100 mm)	621102	3.49
125 / 140	5" (125 mm)	621252	3.50
160 / 180	6" (150 mm)	621602	7.81
200 / 225	8" (200 mm)	622002	12.70
250 / 280	10" (250 mm)	622502	21.46
315	12" (300 mm)	623152	30.66
355	14" (355 mm)	623552	47.83
400	16" (400 mm)	624002	64.77
450	18" (450 mm)	624502	86.05
500	20" (500 mm)	625002	113.91
560	22" (560 mm)	625602	152.78
630	24" (600 mm)	626302	196.27




Backing Rings


BLIND FLANGES GALVANISED STEEL - ANSI 150

	Suit PE/Size (mm)	Flange Size	Code	Weight (kg)
	20	1/2" (15 mm)	620203	0.26
	25	3/4" (20 mm)	620253	0.43
	32	1" (25 mm)	620323	0.53
	40	1 1/4" (30 mm)	620403	0.62
	50	1 1/2" (40 mm)	620503	0.93
	63	2" (50 mm)	620633	1.33
	75	2 1/2" (65 mm)	620753	1.86
	90	3" (80 mm)	620903	2.58
	110 / 125	4" (100 mm)	621103	3.65
	125 / 140	5" (125 mm)	621253	5.98
	160 / 180	6" (150 mm)	621603	7.30
	200 / 225	8" (200 mm)	622003	14.03
	250 / 280	10" (250 mm)	622503	19.33
	315	12" (300 mm)	623153	34.71
	355	14" (355 mm)	623553	47.67
	400	16" (400 mm)	624003	68.37
	450	18" (450 mm)	624503	85.86
	500	20" (500 mm)	625003	115.79
	560	22" (560 mm)	625603	152.58
	630	24" (600 mm)	626303	196.20

BLIND FLANGES 316 STAINLESS STEEL - TABLE D


Suit PE/Size (mm)	Flange Size	Code	Weight (kg)	
20	1/2" (15 mm)			
25	3/4" (20 mm)			
32	1" (25 mm)			
40	1 1/4" (30 mm)			
50	1 1/2" (40 mm)			
63	2" (50 mm)			
75	2 1/2" (65 mm)			
90	3" (80 mm)			
110 / 125	4" (100 mm)			
125 / 140	5" (125 mm)			
160 / 180	6" (150 mm)			
200 / 225	8" (200 mm)			
250 / 280	10" (250 mm)	628004	19.34	
315	12" (300 mm)			
355	14" (355 mm)			

BLIND FLANGES 316 STAINLESS STEEL - TABLE E

Suit PE/Size (mm)	Flange Size	Code	Weight (kg)	
20	1/2" (15 mm)	620207	0.40	
25	3/4" (20 mm)	620257	0.45	
32	1" (25 mm)	620327	0.61	
40	1 1/4" (30 mm)	620407	0.67	
50	1 1/2" (40 mm)	620507	0.86	
63	2" (50 mm)	620637	1.07	
75	2 1/2" (65 mm)	620757	1.60	
90	3" (80 mm)	620907	2.03	
110 / 125	4" (100 mm)	621107	3.60	
125 / 140	5" (125 mm)	621257	5.00	
160 / 180	6" (150 mm)	621607	6.44	
200 / 225	8" (200 mm)	622007	14.04	
250 / 280	10" (250 mm)	622507	12.30	
315	12" (300 mm)	623157	34.73	
355	14" (355 mm)	623557	47.07	

Backing Rings

BLIND FLANGES 316 STAINLESS STEEL - ANSI 150


	Suit PE/Size (mm)	Flange Size	Code	Weight (kg)
	20	1/2" (15 mm)	640204	0.26
	25	3/4" (20 mm)	640254	0.42
	32	1" (25 mm)	640324	0.53
	40	1 1/4" (30 mm)	640404	0.63
	50	1 1/2" (40 mm)	640504	0.93
	63	2" (50 mm)	640634	1.33
	75	2 1/2" (65 mm)	640754	1.86
	90	3" (80 mm)	640904	2.58
	110 / 125	4" (100 mm)	641104	3.64
	140	5" (125 mm)	641404	6.00
	160 / 180	6" (150 mm)	641604	7.30
	200 / 225	8" (200 mm)	642004	14.04
	250 / 280	10" (250 mm)	642504	19.34
	315	12" (300 mm)	643154	34.73
	355	14" (355 mm)	643554	47.70

Bolts Sets & Gaskets




Bolts & Gaskets

BOLT SETS GALVANISED STEEL

	Bolt Size	Bolt Length (mm)	Code	Description	Includes
	M12	65	805065	1/2"-1/4" Flg T D/E Galv Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M12	75	815075	1 1/2" Flg T D/E Galv Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	75	820075	2"-3" Flg T D/E Galv Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	90	840090	4" Flg TD Galv Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	90	840091	4" TE - 6" TD Flg Galv Bolt Set	8 Bolts, 8 Nuts & 16 Washers
	M20	100	860100	6"-8" Flg TE Galv Bolt Set	8 Bolts, 8 Nuts & 16 Washers
	M16	100	880100	8" Flg TD Galv Bolt Set	8 Bolts, 8 Nuts & 16 Washers

BOLT SETS STAINLESS STEEL

	Bolt Size	Bolt Length (mm)	Code	Description	Includes
	M12	65	705065	1/2"-1/4" Flg T D/E 316SS Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M12	75	715075	1 1/2" Flg T D/E 316SS Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	75	720075	2"-3" Flg T D/E 316SS Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	90	740090	4" Flg TD 316SS Bolt Set	4 Bolts, 4 Nuts & 8 Washers
	M16	90	740091	4" TE - 6" TD Flg 316SS Bolt Set	8 Bolts, 8 Nuts & 16 Washers
	M20	100	760100	6"-8" Flg TE 316SS Bolt Set	8 Bolts, 8 Nuts & 16 Washers
	M16	100	780100	8" Flg TD 316SS Bolt Set	8 Bolts, 8 Nuts & 16 Washers

*More variations in size, length & set configuration available on request.

*Bolts, Nuts & Washers also available for purchase separately.

*Bolt length assumes stub flange bolted to valve flange.

FULL FACE RUBBER GASKETS

Suit PE/Size (mm)	Flange Size	Code
TABLE D/E		
20	1/2" (15 mm)	GDE020
25	3/4" (20 mm)	GDE025
32	1" (25 mm)	GDE032
40	1 1/4" (32 mm)	GDE040
50	1 1/2" (40 mm)	GDE050
63	2" (50 mm)	GDE063
75	2 1/2" (65 mm)	GDE075
90	3" (80 mm)	GDE090
125 / 140	5" (125 mm)	GDE125140
160 / 180	6" (150 mm)	GDE160180
200 / 225	8" (200 mm)	GDE200225
355	14" (355 mm)	GDE355
400	16" (400 mm)	GDE400
TABLE D		
110	4" (100 mm)	GD0110
250 / 280	10" (250 mm)	GD250280
TABLE E		
110 / 125	4" (100 mm)	GE110125
250 / 280	12" (300 mm)	GE0315
315	10" (250 mm)	GE250280
ANSI 150		
20	1/2" (15 mm)	GA020
25	3/4" (20 mm)	GA025
32	1" (25 mm)	GA032
40	1 1/4" (32 mm)	GA040
50	1 1/2" (40 mm)	GA050
63	2" (50 mm)	GA063
75	2 1/2" (65 mm)	GA075
90	3" (80 mm)	GA090
110	4" (100 mm)	GA0110
125 / 140	5" (125 mm)	GA125140
160	6" (150 mm)	GA0160
200 / 225	8" (200 mm)	GA200225
250 / 280	10" (250 mm)	GA250280
315	12" (300 mm)	GA0315
355	14" (355 mm)	GA0355
400	16" (400 mm)	GA0400



*Please specify thickness. 3mm standard.




Camlocks




Camlocks


PP MALE CAMLOCK X FEMALE BSP - TYPE A

	Code	Size (mm)	Thread Size
	CAM20M20F	20	0.75" (20mm)
	CAM25M25F	25	1" (25mm)
	CAM32M32F	32	1.25" (32mm)
	CAM40M32F	40	1.25" (32mm)
	CAM40M40F	40	1.5" (40mm)
	CAM50M50F	50	2" (50mm)
	CAM80M80F	80	3" (80mm)
	CAM100M100F	100	4" (100mm)


PP FEMALE CAMLOCK X MALE BSP - TYPE B

	Code	Size (mm)	Thread Size
	CAM20F20M	20	0.75" (20mm)
	CAM25F25M	25	1" (25mm)
	CAM32F32M	32	1.25" (32mm)
	CAM40F32M	40	1.25" (32mm)
	CAM40F40M	40	1.5" (40mm)
	CAM50F50M	50	2" (50mm)
	CAM80F80M	80	3" (80mm)
	CAM100F100M	100	4" (100mm)


PP FEMALE CAMLOCK X FEMALE BSP - TYPE D

	Code	Size (mm)	Thread Size
	CAM20F20F	20	0.75" (20mm)
	CAM25F25F	25	1" (25mm)
	CAM32F32F	32	1.25" (32mm)
	CAM40F32F	40	1.25" (32mm)
	CAM40F40F	40	1.5" (40mm)
	CAM50F50F	50	2" (50mm)
	CAM80F80F	80	3" (80mm)
	CAM100F100F	100	4" (100mm)


PP FEMALE DUST CAP - TYPE DC

Code	Size (mm)	
CAM20DC	20	
CAM25DC	25	
CAM32DC	32	
CAM40DC	40	
CAM50DC	50	
CAM80DC	80	
CAM100DC	100	

PP MALE DUST PLUG - TYPE DP

Code	Thread Size	
CAM20DP	20	
CAM25DP	25	
CAM32DP	32	
CAM40DP	40	
CAM50DP	50	
CAM80DP	80	
CAM100DP	100	

PP MALE CAMLOCK X MALE BSP - TYPE F

Code	Size (mm)	Thread Size	
CAM20M20M	20	0.75" (20mm)	
CAM25M25M	25	1" (25mm)	
CAM32M32M	32	1.25" (32mm)	
CAM40M32M	40	1.25" (32mm)	
CAM40M40M	40	1.5" (40mm)	
CAM50M50M	50	2" (50mm)	
CAM80M80M	80	3" (80mm)	
CAM100M100M	100	4" (100mm)	

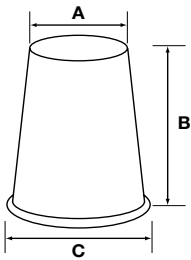


Poly Rotomoulded Products




Poly Rotomoulded

POLY VALVE COVERS COMPLETE WITH SECURITY FASTENED LID


	Code	Size (mm)	A (mm)	B (mm)	C (mm)	Material	Wall Thickness	Colour
	S400	400	420	700	570	LLDPE	5 - 7 mm	Black
	S700	700	600	800	750	LLDPE	5 - 7 mm	Black

*25mm Hole x 4 - Optional.
**Stackable.

POLY VALVE COVER LIDS ONLY


	Code	Size (mm)	Description	Material	Wall Thickness	Colour
	S400L	400	Double Skinned Lid with Stainless Steel Security Fastener	LLDPE	5 - 7 mm	Black
	S700L	700	Double Skinned Lid with Stainless Steel Security Fastener	LLDPE	5 - 7 mm	Black

POLY VALVE COVER KEYS

	Code	Description
	KW5	5mm Pin Hex Key Wrench



PONTOON BOWCONES

Code	Size OD (mm)	Description	
BC560	560	Polyethylene Pontoon Bowcone to suit 560mm SDR41 PE Pipe	






Pipe Preparation & Installation Equipment




Pipe Preparation & Installation Equipment


ROTARY PIPE SCRAPING TOOLS

	Code	Description	Size (mm)
 <p>Rotary Pipe Scraping Tool</p>	RTC160	Rotary Pipe Scraper	50-160
	RTC315	Rotary Pipe Scraper	75-315
	RTC710	Rotary Pipe Scraper	355-710
	UPRB	Replacement Blade	


- Maintains mechanical scraping across the whole joint area.
- Faster scraping action.
- Controlled depth of cut (0.30mm).
- Other size ranges available on request.


 <p>Replacement Blade</p>
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20-63 ROTARY PIPE SCRAPING KITS

	Code	Description	Size (mm)
	RPSKIT2063	Rotary Pipe Scraping Kit	20 - 63

HAND SCRAPERS


	Code	Description
 <p>Hand Scraping Tool</p>	HS60	Hand Scraping Tool
	HS60BL	4 Sided Replacement Blade

 <p>Replacement Blade</p>
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Pipe Preparation & Installation Equipment

MATRIX WELD WIPES

Code	Description
326835	Approved Poly Welding Wipes (75 Pack) 90% Alcohol



DETECTABLE WARNING TAPE

Code	Standard Length (m)	Width (mm)	Colour	Used for
RTTL	250	100	Lilac	Recycled Water
GTTY	250	100	Yellow	Gas Main
WTTY	250	100	Green	Water Main
STTB	250	100	Beige	Sewer Main
NPTTL	250	100	Lilac	Non-Potable Water






Welding Equipment




Welding Equipment

CONNEXION ELECTROFUSION WELDING MACHINES


Description		Connexion Red	Connexion Blue
	Welding Mode	Barcode and Manual	Manual
	Input Voltage Range	AC180/270V	AC180/270V
	Frequency Range	45-66 Hz	45-66 Hz
	Amps	AC 20A maximum	AC 20A maximum
	Power	AC 3.5KVA	AC 2.5KVA
	Circuit Breaker	20A slow	20A slow
	Housing	Protection IP65	Protection IP65
	Electrical Safety	Class 1	Class 1
	Connection Cable	4m	4m
	Fusion Cable	4m	4m
	Weight	22kg	22kg
	Barcode Type	2/5 interleaved code	n/a
	Working Temperature Range	-20°C - +45°C	-20° -+45°C
	Fusion Current Monitor	Short and open circuit	Short and open circuit
	Printer Interface	USB	n/a
	Quality	CE and GS	CE and GS
	Carrying Case	Yes	Yes
	4.0mm Connector Plugs	Yes	Optional
	Hand Scraper	Yes	Optional
	Emergency Stop	Yes	Yes
Number of Fusions Recordable	1,000	n/a	
Language Variants	Yes	n/a	
Memory Stick with Software Included	Yes	No	
Product Code for 230V	7903001	7903003	
Welding Range	39.5 - 48V	39.5V	

*Available for hire or purchase.

STEEL CARRY CASES

	Code	Description
	7900850	Steel case for Connexion EF Welding Machines

PIN ADAPTORS

Code	Description	UOM	
40S47PTA	4.0mm Socket x 4.7mm Pin	Pair	


ELECTROFUSION WELDING MACHINES

Code	Description	Size Range	
700020	Drainage Welding Unit - Duo, with Hand Scraper	40 - 160mm	
40160DSC	Spare Connection Cable	40 - 160mm	

*Available for hire or purchase.


Welding Equipment

CUBO ELECTROFUSION WELDING MACHINES - HIRE ONLY

	Technical Data	Cubo
	Operating Temperature	-10°C - +45°C
	Humidity	max.80%
	Mains Voltage	230V (+15%/-20%) 184V - 264V
	Mains Frequency	45 Hz - 65 Hz
	Fusion Current	4 A, 5 A and/or 10 A Version see description
	Fuses Input	230V: primary 10 - 16 AT
	Protection	1 / IP 65
	Mains Cable	4.0 m
	Fusion Cable	4.5 m
	Dimensions (WxHxD)	230 x 260 x 230 mm
	Weight incl Cables	4.6 kg
	Display	1 x 4 N, 7 segments
	Display Size	50 x 18 mm
	Type Size	14 mm
	Warranty	12 months
	Product Code	474602
	Description	Automatic electrofusion unit for the electrofusion fittings type I/LI, brand Rollmaplast. Constant current/amperage electrofusion system. The unit is optimised for generator use. The lightweight unit is robust and safe to operate. Easy to handle with start/stop (on/off) keys. Display shows fusion modes, effective fusion time and ambient temperature.


*Available for hire only

SPARE PARTS FOR CUBO ELECTROFUSION WELDING MACHINES

	Code	Description
	799350465	Standard A4 Yellow Welding Cable
	799350466	Standard 10A Blue Welding Cable
	200315SC	200 - 315mm Duo Welding Cable


Welding Equipment

S2 EXTRUSION WELDING GUNS

<ul style="list-style-type: none"> • Weighs 5.8kg (without cord) • Maintenance-free blower • Perfect seam quality • Multifunctional display • Ergonomic and easy to handle 	
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EXTRUSION WELDING WIRE

Code	Material	Colour	Size (mm)	Shape	Roll Length (m)
WELD550	HDPE	Black	4mm	Round	550



ELECTRO-HYDRAULIC BUTTWELDING MACHINES

Size (mm)	Code	Standard Parts	Optional Parts
63-160	50160BABW	Skid Mounted, Layer Clamp Inserts, Hydraulic Power Pack, Planer / Heating Plate & Stand	Fittings Chuck & Knife Edge Clamps
90-250	90250BABW	Skid Mounted, Layer Clamp Inserts, Hydraulic Power Pack, Planer / Heating Plate & Stand	Fittings Chuck & Knife Edge Clamps
90-315	90315BABW	Skid Mounted, Layer Clamp Inserts, Hydraulic Power Pack, Planer / Heating Plate & Stand	Fittings Chuck & Knife Edge Clamps
200-450	200450BABWC	Skid Mounted, Layer Clamp Inserts, Hydraulic Power Pack, Planer / Heating Plate & Stand	Fittings Chuck, Knife Edge Clamps & Electric Overhead Crane
315-630	315630BABWC	Skid Mounted, Layer Clamp Inserts, Hydraulic Power Pack, Planer / Heating Plate & Stand	Fittings Chuck, Knife Edge Clamps & Electric Overhead Crane





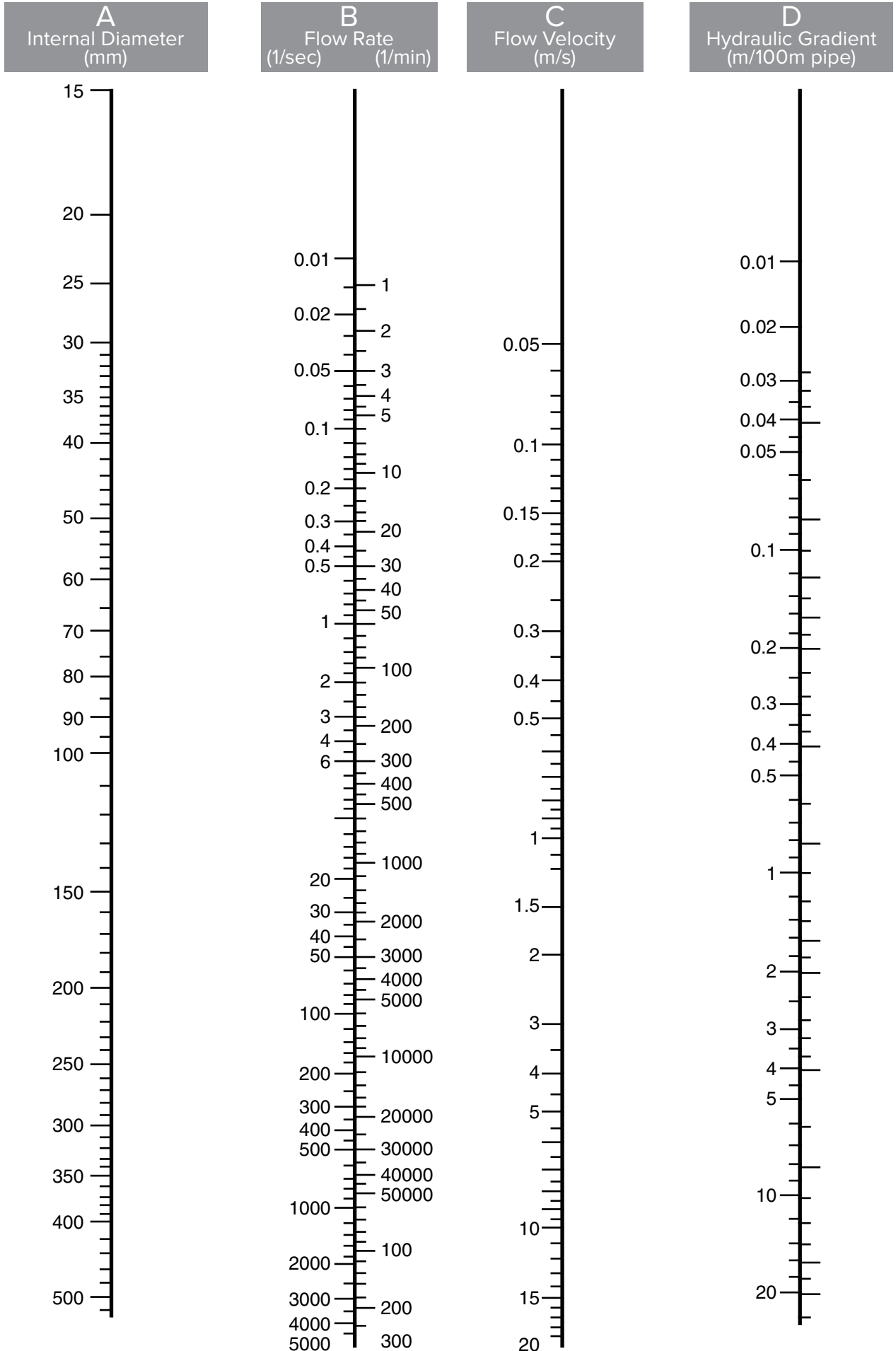
Technical Data

PROPERTIES OF POLYETHYLENE

Property	Test Method	PE* 80B	PE* 80C	PE* 100
Density kg/m ³	ISO1183D, ISO1872-ZB	950	960	960
Tensile Yield Strength Mpa	ISO527	20	21	23
Elongation at Yield %	ISO527	10	8	8
Tensile Break Strength Mpa	ISO527	27	33	37
Elongation at Break %	ISO527	>800	>600	<600
Tensile Modulus Mpa - Short Term	ref. AS.NZS 2566	700	750	950
Tensile Modulus Mpa - Long Term	ref. AS.NZS 2566	200	210	260
Hardness Shore D	DIN 53505	59	60	64
Notched Impact Strength kJ/m ² (23°C)	ISO179/1 e A	35	24	26
Melt Flow Rate 190/5, g/10min	ISO1133	0.7 - 1.0	0.4 - 0.5	0.3 - 0.5
Thermal Expansion x 10 ⁴ /C	DIN 53752	2.4	1.8	2.4
Thermal Conductivity W/m.k (20°C)	DIN 52612	0.43	0.43	0.43
Crystalline Melt Point °C	DIN 53736	125	130	132
Dielectric Strength kV/mm	DIN 53481	70	53	53
Surface Resistivity Ohm	DIN 53482	>10 ¹⁵	>10 ¹⁵	>10
Volume Resistivity Ohm	DIN 53482	>10 ¹⁵	>10 ¹⁵	>10 ¹⁵
Poissons Ratio μ		0.4	0.4	0.4

Flow Nomogram

(Approximate Values Only)



Technical Data

SDR (Standard Dimension Ratio)

SUPPORT SPANS (METRES)

DN	SDR 41	SDR 33	SDR 26	SDR 21	SDR 17	SDR 13.6	SDR 11	SDR 9	SDR 7.4
16	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
20	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.65	0.65
25	0.65	0.65	0.65	0.65	0.65	0.70	0.70	0.75	0.75
32	0.70	0.70	0.70	0.70	0.75	0.80	0.85	0.90	0.90
40	0.80	0.80	0.80	0.80	0.90	0.90	1.00	1.00	1.10
50	0.85	0.85	0.90	0.95	1.00	1.10	1.15	1.20	1.25
63	0.95	1.00	1.05	1.10	1.20	1.25	1.30	1.40	1.45
75	1.00	1.10	1.20	1.25	1.35	1.40	1.50	1.55	1.60
90	1.15	1.25	1.35	1.40	1.50	1.60	1.65	1.75	1.80
110	1.35	1.40	1.55	1.60	1.70	1.80	1.90	2.00	2.10
125	1.45	1.55	1.65	1.75	1.85	2.00	2.10	2.20	2.30
140	1.55	1.65	1.80	1.90	2.00	2.10	2.25	2.35	2.45
160	1.70	1.80	1.95	2.10	2.20	2.30	2.45	2.55	2.65
180	1.85	1.95	2.10	2.25	2.35	2.50	2.65	2.80	2.90
200	1.95	2.10	2.25	2.40	2.55	2.70	2.85	3.00	3.10
225	2.15	2.30	2.45	2.60	2.75	2.90	3.05	3.20	3.35
250	2.30	2.45	2.60	2.75	2.95	3.10	3.30	3.45	3.60
280	2.45	2.65	2.80	3.00	3.20	3.35	3.55	3.70	3.90
315	2.65	2.85	3.05	3.25	3.45	3.65	3.85	4.05	4.20
355	2.90	3.10	3.30	3.50	3.75	3.95	4.15	4.35	4.55
400	3.10	3.35	3.55	3.80	4.05	4.25	4.50	4.70	4.90
450	3.40	3.60	3.85	4.10	4.35	4.60	4.85	5.10	5.35
500	3.60	3.85	4.15	4.40	4.75	4.95	5.20	5.50	
560	3.90	4.15	4.50	4.75	5.05	5.35			
630	4.20	4.50	4.85	5.55	5.45	5.80			
710	4.60	4.90	5.25	5.60	5.95	6.30			
800	4.95	5.30	5.70	6.05	6.45	6.85			
900	5.35	5.70	6.10	6.55	6.95				
1000	5.80	6.15	6.55	7.00	7.35				

TEMPERATURE RATING TABLE

PE 100		Permissible System Operating Head (m)								
Temp C°	Limit Years	PN 3.2	PN 4	PN 6.3	PN 8	PN 10	PN 12.5	PN 16	PN 20	PN 25
20	200	32	40	63	80	100	125	160	200	250
25	100	30	38	59	75	94	117	150	188	233
30	100	28	35	55	70	88	109	140	175	218
35	100	26	32	50	64	80	100	128	160	200
40	100	24	30	47	60	75	94	120	150	185
45	60	22	28	44	56	70	88	112	140	175
50	36	21	26	41	52	65	81	104	130	163
55	24	19	24	38	48	60	75	96	120	150
60	12	18	23	35	45	56	70	90	113	140
65	8	17	21	33	42	53	66	84	105	130
70	5	16	20	31	39	49	61	78	98	120
75	2	14	18	28	36	45	56	72	90	113
80	2	13	17	26	33	41	52	66	83	105

Essential Guide For Electrofusion Poly

Please study these photos. The preparation you see is essential for fusion.



1. Pipe must be dry cut so that pipe ends are kept free of oil or any other contaminant. Cut must be straight to allow full insertion into EF fitting.



2. Scrape the outside surface of the spigot for at least half the socket length, immediately before assembly & welding. Complete and even removal of 0.2mm to 0.3mm is absolutely essential. Use a rotary scraping tool as it removes a consistent amount of material



3. Clean the spigot and socket interior with alcohol wipes, and allow to completely dry. Ensure spigots & socket interior are dry and free of any contamination before assembly. Retain EF fittings in their original bag until ready to weld.

Essential Guide For Electrofusion Poly

Please study these photos. The preparation you see is essential for fusion.

4. Use a texta, paint marker or wax pencil to ensure that all spigots are inserted half way into the EF sockets. Ensure pipe ends are square and together to prevent molten material releasing into the pipe bore during welding.



5. Be sure the joint is kept straight, still and not under any stress during weld and cool down time. Must not be artificially cooled in any way. If you have any further questions please call one of our helpful staff on 1800 634 644.



Terms & Conditions

1. **SELLER** means Matrix Piping Systems and **BUYER** means the Buyer whose order for the purchase of goods is accepted by the seller.
2. **ACCEPTANCE OF BUYERS ORDER** These terms and conditions shall apply to every sales contract and sale of goods between Seller and Buyer; any terms and conditions of Buyer's order deviating from or inconsistent with these terms and conditions are expressly rejected by Seller. This rejection also extends to any statement by Buyer that Buyer's terms and conditions shall prevail and to any stipulation by Buyer as to the manner of declaring such rejection. A contract shall only be or be deemed to have been entered into between Seller and Buyer for the supply of goods when, upon an order having been placed upon Seller for goods, that order has been accepted by Seller. (Such acceptance of order may be made and communicated by Seller in writing or by overt act of acceptance.) The provisions of this Clause 2 shall apply to every quotation or offer by Seller for the Supply of goods.
3. **PRICES** Quotations are to be treated as estimates only and subject to withdrawal, correction or alteration at any time before acceptance of Buyer's order by Seller. **PRICES ARE EX SELLER'S WAREHOUSE UNLESS OTHERWISE AGREED IN WRITING.** Prices do not include GST which will be charged at the commissioner of taxation's current rate on all taxable goods and services supplied.
4. **INSURANCE** Buyer is responsible to effect whatever insurance cover he requires at his expense.
5. **PAYMENT** Deposit of 10% to accompany official order with further progress payments as requested and balance on completion or on advice from us that completed goods are ready for delivery. If Seller shall extend credit to Buyer, payment for all goods sold will be within Thirty (30) days from date of each delivery. Interest shall be payable by Buyer on all amounts overdue to Seller at the rate of 2% (2 percentum) per month.
6. **CONFIRMATION ORDERS** Confirmation orders must be marked as such by Buyer, if not Seller will consider Buyer's order as original.
7. **CANCELLATION** Orders accepted by Seller cannot be countermanded or delivery deferred or goods returned except with the written consent of Seller and upon terms that reimburse and indemnify Seller against all loss including cartage, bank charges and other incidental expenses on any part of the order that is cancelled. Where Seller agrees to accept goods for return a re-stocking charge of 15% of the price of the goods returned will be made.
8. **ACCEPTANCE AND CLAIMS** Acceptance of the goods delivered shall be deemed for all purposes to have taken place at the expiration of seven (7) days from the date of each delivery.
9. **DELIVERY AND RISK**
 - (a) At cost to be effected approximately 8-11 weeks from acceptance of this order schedule. Subject at all times to factors outside our control, holidays, fire, strikes, lockouts, other contingencies and in all cases subject to confirmation or alteration if and when offered order is accepted by us.
 - (b) Unless the Buyer has requested Seller to make special delivery arrangements the risk in respect of the goods shall pass to the Buyer upon delivery to the Buyer's premises or the nominated carrier's depot. The Buyer shall provide or cause to be provided full and clear access for delivery and will at his own expense provide all necessary assistance in unloading the goods at the nominated place of delivery.
 - (c) Where the Buyer has requested special delivery arrangements (ie. other than Seller delivering to premises of Buyer) risk in respect of goods shall pass to the Buyer upon the goods leaving the premises of Seller in Swan Hill. Seller will not in any circumstances accept liability for damage, shortage or loss during transit.
 - (d) If delivery of the goods by Seller is delayed for a cause other than it's own negligence, the Buyer shall be liable for extra charges, losses or expenses incurred by Seller and the Buyer shall not be entitled to cancel this contract by reason thereof.
10. **SPECIAL ORDERS** Buyer will place order in writing on Seller for non-stock items. Seller will not accept return of non-stock items unless Manufacturer agrees to accept return from Seller. Seller may deduct transport handling and restocking charges of 15% of the price of the goods from the credit due to Buyer and may also deduct therefrom reasonable labour costs associated with the restoration of non-stock items to the condition as supplied by Manufacturer.

Terms & Conditions

11. **RISK AND PROPERTY** The risk in the goods sold shall pass to Buyer at the point of delivery. This shall also apply to any partial delivery of goods. If delivery of goods is delayed due to any circumstances beyond the control of Seller the risk passes to Buyer on the day when the goods were first ready for consignment from the Seller's warehouse and this day is to be regarded as date of delivery for purpose of payment in Clause 5. The property in the goods shall remain Seller's until it has received in cash the total contract price. Seller may at any time recover the goods if they are in the Buyer's possession and resell the goods if any payment owed by the Buyer on any account is overdue or if Seller considers that the amount outstanding from the Buyer on the general statement of account between the parties is in excess of the credit limit Seller is willing to accord to the Buyer and for this purpose Seller, its servants or agents may enter upon the Buyer's or other premises upon which the goods are situated.
12. **DELIVERY TIME** Seller may deliver the goods by instalments or partial shipments and Buyer will accept each delivery. Requirements of Buyer shall not be a condition or of the essence of the contract. Seller shall be under no liability for direct consequential loss or damage to Buyer arising from delay or postponement in delivery.
13. **WARRANTY** Goods sold shall have only the benefit of any warranty given by the Manufacturer which Seller is able to enforce without legal expense. Buyer should carefully note the terms of Manufacturers' warranties. Under no circumstances is Seller liable for any direct or consequential loss or damage to persons or property of any nature due to any cause whatsoever. All conditions and Warranties implied by law or under Statute are hereby expressly negated so far as they lawfully can be. Goods are not guaranteed by Seller in any way unless expressly in writing. Any such warranty is subject to the Manufacturer's Maintenance and Conditions of Operation to the goods sold to Buyer. Transport costs of Warranty Items are payable by Buyer.
14. **NO IMPLIED SERVICE** The Buyer acknowledges that excepting as provided by law this agreement does not entitle the Buyer to demand to receive from Seller any site inspection or service of the goods supplied, delivered and installed if applicable. If the Buyer does not require Seller's services in respect of site inspection and service of the goods, the subject of this agreement then the Buyer should arrange with Seller to enter a separate agreement in respect of same. In the event that no separate agreement in relation to site inspection and service is required by the Buyer, then the Buyer acknowledges that in the event of the goods supplied requiring to be serviced or inspected due to breakdown or otherwise, then the Buyer shall rely solely on any benefit in respect of same provided by the Manufacturer.
15. **AGREED USE** The Buyer acknowledges that the matters set out in the schedule hereto are a description of the purposes for which the goods purchased hereby are to be applied in respect of work required to be performed by such goods and that the Buyer may forfeit any rights he may have against Seller for the supply of the subject goods if they are applied to any other use. The Buyer forfeits any right or claim against the Seller if any alteration to the goods sold or quoted is carried out without the Seller's written consent. The Buyer further acknowledges sole responsibility for any damage or injury to property or persons caused by using the sold goods to pump or transfer hazardous or toxic fluids or substances.
16. **REPAIRS** Goods returned by Buyer to Seller for repair will be free of all charges to Seller and at Buyer's risk.
17. **VARIATION BY BUYER** Should there be any variation in details, sizes and quantities, delivery instructions or any other item or matter on which the quotation or invoice is based Seller reserves the right to revise and amend the contract price accordingly.
18. **CLERICAL ERRORS** Clerical errors in computations, typing or otherwise of catalogue quotation; acceptance; offer; invoice; delivery docket; credit note; specification of Seller shall be subject to correction.
19. **MODIFICATIONS** All modifications and amendments to these Terms and Conditions shall be in writing and if otherwise shall not be binding upon Seller.
20. If any of the provisions of this Contract are unlawful or invalid by reason of any applicable statute or rule of Law, then such provision shall be severed from the rest of this Contract which shall remain valid and binding on the parties.

NOTES

A series of horizontal dotted lines for taking notes.

