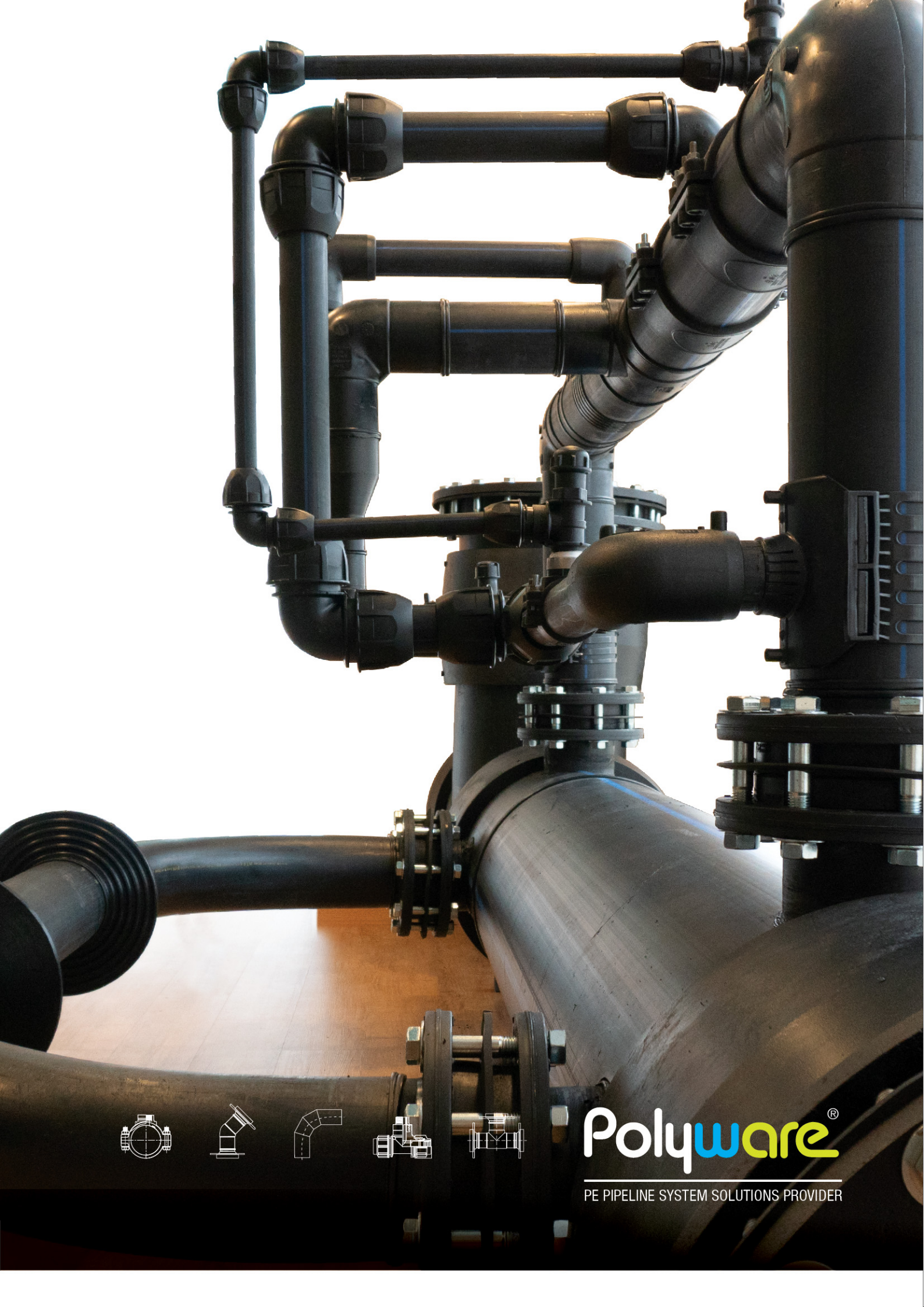




Polyware[®]

PE PIPELINE SYSTEM SOLUTIONS PROVIDER

PE Electro Fusion Fittings

01



EF Coupler



EF Reducing Coupler



EF Elbow 90°



EF Elbow 45°



EF End Cap



EF Equal Tee



EF Reducing Tee



EF Branch Saddle



EF Tapping Saddle



Transition Female Adaptor PE-Brass



Transition Male Adaptor PE-Brass



EF Transition Coupler Female Adaptor



EF Transition Coupler Male Adaptor



EF Transition Female Elbow 90°



EF Transition Male Elbow 90°



Pin Adaptor

Product Description	Size (mm)	*	Material	Reference Standard
EF Coupler	20 - 500	16 (Water) 10 (Gas)	PE100 & Brass	EN12201 EN1555 MS 1058 Part 3
EF Reducing Coupler	63 - 160	16 (Water) 10 (Gas)		
EF Elbow 90°	25 - 250	16 (Water) 10 (Gas)		
EF Elbow 45°	25 - 250	16 (Water) 10 (Gas)		
EF End Cap	20 - 315	16 (Water) 10 (Gas)		
EF Equal Tee	25 - 180	16 (Water) 10 (Gas)		
EF Reducing Tee	63 - 180	16 (Water) 10 (Gas)		
EF Branch Saddle	63 - 180	16 (Water) 10 (Gas)		
EF Tapping Saddle	25 - 225	16 (Water) 10 (Gas)		
Transition Female Adaptor PE-Brass	20 - 63	16 (Water) 10 (Gas)		
Transition Male Adaptor PE-Brass	20 - 63	16 (Water) 10 (Gas)		
EF Transition Coupler Female Adaptor	20 - 63	16 (Water) 10 (Gas)		
EF Transition Coupler Male Adaptor	20 - 63	16 (Water) 10 (Gas)		
EF Transition Female Elbow 90°	20 - 63	16 (Water) 10 (Gas)		
EF Transition Male Elbow 90°	20 - 63	16 (Water) 10 (Gas)		
EF Pin Adaptor	4.0 - 4.7			



Please scan QR code
for our product installation.

* Max. Operating Pressure (PN) at Temperature 20° C



02 |

PE Single Injection Moulded Fittings Flanges & Gasket



Spigot Tee



Spigot Reducing Tee



Spigot Elbow 45°



Spigot Elbow 90°



PE Stub End (Long Collar)



PE Stub End (Short Collar)



Stub End (Long Collar) SRW



Stub End (Short Collar) SRW



PE Steel Insert Stub End
(Long) Flange Kit



PE Steel Insert Stub End
(Short) Flange Kit



Mild Steel Stub End
(Long) Flange Kit



Mild Steel Stub End
(Short) Flange Kit



PE Reducer



PE End Cap



PE Puddle Flange



PE Single Injection Moulded Flanges



Mild Steel Flange PN16



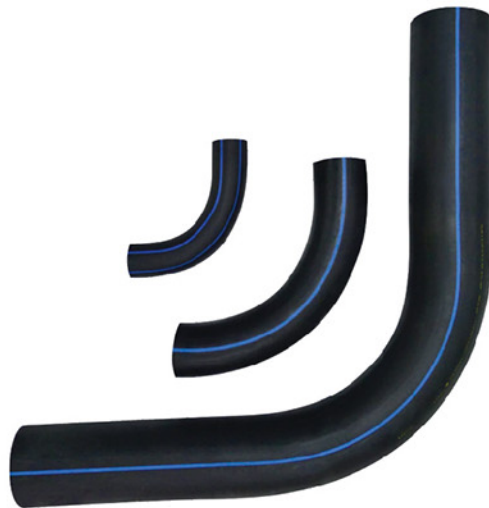
Rubber Gasket

Product Description	Size (mm)	Standard Dimension Ratio (SDR)	Material	Reference Standard
Spigot Tee	50 - 500	21 - 9	PE100	EN 12201 ISO 4427 MS 1058 Part 3
Spigot Reducing Tee	63 - 250			
Spigot Elbow 45°	32 - 500			
Spigot Elbow 90°	32 - 500			
Stub End (Long Collar)	20 - 630			
Stub End (Short Collar)	20 - 1,200			
Reducer	50 - 315			
End Cap	63 - 355			
Puddle Flange	90 - 400			
Product Description	Size (mm / inch)	*	Material	Reference Standard
Mild Steel Flange	20-1200	10 / 16	Mild Steel	ISO 9624, BS 4504
Single Injection Moulded Flange	63-280	16	High Performance Plastic & Steel insert	
Rubber Gasket	2"-12"	16 / TE	Natural Rubber (NR) *Other material upon request	ISO 9624, BS 4504, BS 10 (Table E)

03

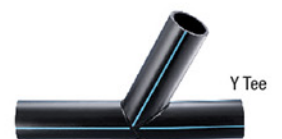
PE Seamless Long Radius Sweep Bend

At present, **Polyware** is the sole producer of PE Seamless Long Radius Sweep Bend in Malaysia.



Product Description	Size (mm)	Center Line Radius of Curvature	Angular Tolerance	Linear Tolerance	Reference Standard
Sweep Bend	OD 90 - 180 (other sizes upon request)	2.5 - 4 x diameter	+/- 2 revision	+/- 20 mm	MS 1058: Part 2 pressure pipe

PE Fabricated Fittings



Product Description	Size (mm)	Standard Dimension Ratio (SDR)	Material	Reference Standard
Bend & Tee	110-500	21-9	PE100	EN 12201



Please scan QR code for our product installation.

* Max. Operating Pressure (PN) at Temperature 20° C



04

PPR Water Piping System



PPR Coupler



PPR Reducing Coupler



PPR Equal Tee



PPR Reducing Tee



PPR Elbow 45°



PPR Elbow 90°



PPR End Cap



PPR Brass Female Threaded Adaptor



PPR Brass Male Threaded Adaptor



PPR Brass Female Elbow 90°



PPR Brass Male Elbow 90°



PPR Brass Female Tee



PPR Brass Male Tee

Product Description	Size (mm)	*	Material	Reference Standard
Thermoplastic Pipe System For Hot and Cold Water Supply Systems	20-63	25	PPR	DIN 8077, 8078 ISO 15784

PE100 Socket Fusion System



PE SF Coupler



PE SF Reducing Coupler



PE SF Equal Tee



PE SF Reducing Tee



PE SF Elbow 45°



PE SF Elbow 90°



PE SF End Cap



PE SF Brass Female Threaded Adaptor



PE SF Brass Male Threaded Adaptor



PE SF Brass Female Elbow 90°



PE SF Brass Male Elbow 90°



PE SF Brass Female Tee



PE SF Brass Male Tee

Product Description	Size (mm)	*	Material	Reference Standard
PE100 Socket Fusion fittings for cold water distribution	20-63	16	PE100	BS EN 12201-3 : 2011 MS 1058 : PART 3 : 2006

* Max. Operating Pressure (PN) at Temperature 20° C



05

Penguin Smart Mechanical Jointing System



Male Threaded Adaptor



Female Threaded Adaptor



End Cap



Straight Coupler



Reducing Coupler



Male Tee



Female Tee



Equal Tee



Reducing Tee



Male Elbow



Female Elbow



Equal Elbow



Reducing Elbow



Equal Elbow 45°



Flange Adaptor



Wall Plate Female Elbow



Vitaucic Adaptor



Stop Tap

Product Description	Size (mm)	*	Material	Reference Standard
Male Threaded Adaptor (MTA)				
Female Threaded Adaptor (FTA)				
End Cap (EC)				
Straight Coupler (SC)				
Male Tee (MT)				
Female Tee (FT)				
Equal Tee (ET)	20 - 110	16	Polypropylene (PP)	ISO 17885, ISO 3458, ISO 3459, ISO 3501, ISO 3503.
Reducing Tee (RT)				Threaded Standard: BS21 IS07 (ISO4427 & MS1058) & AS/NZS4130
Male Elbow (ME)				
Female Elbow (FE)				
Equal Elbow (EE)				
Reducing Elbow (RE)				
Equal Elbow 45° (EE45°)				
Flange Adaptor (FA)	50 - 110			
Wall Plate Female Elbow (WPFE)	20 - 32 (½"-1")			
Vitaucic Adaptor (VA)	63 - 110			
Stop Tap (ST)	20 - 32			

Product Description	Size (mm)	*	Material	Reference Standard
Flange Adaptor with PP Flange		6	Polypropylene (PP)	ISO 9624
Flange Adaptor with MS Flange	63 - 110	10	Polypropylene (PP) & Mild Steel (Other flange materials upon request)	(Flange Connection)

* Max. Operating Pressure (PN) at Temperature 20° C



PP Compression Fittings
c/w Brass Threaded Insert

Brass Female Elbow



Brass Male Elbow



Brass Female Tee



Brass Male Tee



Brass Female Threaded Adaptor



Brass Male Threaded Adaptor

Product Description	Size (mm)	*	Material	Reference Standard
Brass Female Elbow (BFE)	20-32	16	Polypropylene (PP) & Brass With Nickel Plated	ISO 3458, 3459, 3501, 3503, 14236 & BS 5114 ISO 17885
Brass Male Elbow (BME)				
Brass Female Tee (BFT)				
Brass Male Tee (BMT)				
Brass Female Threaded Adaptor (BFTA)	20-63			
Brass Male Threaded Adaptor (BMTA)				



Double Outlet Saddle



Clamp Saddle

PP Clamp Saddle
&
Mechanical Tapping SaddleThermoplastic Ferrule
(Threaded Connection)Thermoplastic Ferrule
(PE Connection)Thermoplastic Ferrule
(Spigot End Connection)Thermoplastic Mechanical
Tapping Saddle

Product Description	Size (mm)	*	Material	Reference Standard
Double Outlet Saddle & Clamp Saddle	25 - 160 (½" - 2") 180 - 250 (½" - 3")	10 8	Polypropylene (PP)	BS21, ISO 7 (Threaded Outlet)
Thermoplastic Mechanical Tapping Saddle	20 - 32 (½" - 1¼")		Polypropylene (PP)	JKR 20200-00055-99
Thermoplastic Ferrule (Threaded Connection)				
Thermoplastic Ferrule (PE Connection)				
Thermoplastic Ferrule (Spigot End Connection)				

PP Threaded Fittings



Nipple & Reducing Nipple



Bush



Plug



Tank Connector

Product Description	Size (mm / inch)	*	Material	Reference Standard
Nipple & Reducing Nipple	(½" - 2")	10	Polypropylene (PP)	BS21, ISO 7
Bush	(½" - 3")	10		
Plug	3/8" - ¾"	10		
Tank Connector	½" - 3"	10		

* Max. Operating Pressure (PN) at Temperature 20° C

HÜRNER EF Control Box & Tooling

07 |



HÜRNER Pipe Aligner



HÜRNER Pipe Scraper



HÜRNER Scraper Saddle

Product Description	Size (mm)
HÜRNER ELECTRO FUSION CONTROL BOX (UNIVERSAL) EF Control Box HST 300 Print 450 EF Control Box HST 300 Print 450 +2.0	OD450 > OD 1,200
HÜRNER PIPE ALIGNER Pipe Aligner	20 - 180
HÜRNER PIPE SCRAPER	32 - 250
HÜRNER SCRAPER SADDLE Scraper Saddle	63 - 180

HÜRNER BUTT FUSION MACHINE



HÜRNER CNC BUTT WELDING MACHINE



HORNER SOCKET WELDING

Product Description	Size (mm)
HÜRNER CNC BUTT WELDING MACHINE	<i>*Model or sizes upon request.</i>
HORNER SOCKET WELDING Socket Welding HMS 50T Socket Welding HMS 63T	20 - 32 1230V with temperature control 15.5 kgs 20 - 63 16.5 kgs

■ ■ ■ Made in Germany

Polyware®

Polyware Sdn. Bhd. (408370-M)
7, Jalan Zarib 1, Zarib Industrial Park, 31500 Ipoh, Perak, Malaysia. Tel: (605) 323 2788 Fax: (605) 322 9236 | 322 9237 W: www.polyware.com.my
1, Jalan 6 / 2A , Seksyen 6, Bandar Rinching Industrial Park, 43500 Semenyih, Selangor Darul Ehsan, Malaysia.



EQUAL ELBOW 45° E.E.

size D(mm) x D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
63 x 63	105	112	0.714

PP STEEL FLANGE ADAPTOR P.P.F.A.

size D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
63 mm	155	112	0.780
90 mm	186	160	1.360
110 mm	205	182	1.828



ENLARGING TEE

size D(mm) x D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
25 x 32	146	55	0.181

Product Description	Size (mm)	Max Operating Pressure (PN) at temperature 20°C	Reference Test Standards
Mechanical Compression Fittings	20 - 110	16	ISO17885 ISO3458, ISO3459 ISO3501, ISO3503 BS21, ISO7

*Industrial Designed Pending

04.24-IPH

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Installation Instruction

1. Cutting the pipe

Cut the pipe using pipe cutter for remove the damage profile surface end of the pipe to ensure end of pipe is even and flat.

2. Pipe position

Gently turn the nut counter-clockwise until two threads are visible on the fitting body.
The fitting is now prepared for pipe insertion.

3. Pipe insertion

Push the pipe firmly into the fitting body until the pipe reaches the stop inside the fitting and comes to a complete halt.

4. Tighten securely

Twist clockwise to tighten the nut firmly.
For fittings 20mm to 32mm: Hand-tightening is sufficient.
For larger fittings (over 32mm): Use a wrench for a secure connection.

5. Secure connection

Installation is complete! The fitting is secure when you can no longer pull the pipe from the fitting.



Close-Up of a Penguin Smart Series Cut-Through Compression Fitting

Produce with high performance polypropylene with corrosion, biological and chemical resistant complied with BS6920

Excellent UV protection to maintain product structure during outdoor exposure.

Clip-Ring
No interference during pipe insertion & maximum pull out resistance

Enhance new design ribs to maximum performance up to PN16.

(NBR) nitrile butadiene rubber O-Ring complied to AS1646 with long term performance

Effortless Connection

Ergonomic Design: Comfortable grip makes installation a breeze.
Low Torque: Requires minimal effort to tighten.
Smooth & Twist: Intuitive design simplifies the connection process.
Safe to Handle: No sharp edges to worry about.

Why Choose ?

Sustainable & Safe:
Eco-friendly design that minimizes environmental impact.
Easy on You, Easy on the Planet.

Product Features

- Completely redesigned for a user-friendly experience.
- Lightweight & Maneuverable.
- Corrosion-resistant materials ensure long-lasting performance.
- Delivers a safety factor of 2.5 times for trusted reliability.

PIPE SUITABILITY

Polyethylene Pipe PE 80 & PE 100 (ISO4427 & MS1058) & AS/NZS4130

TEST STANDARD

ISO17885, ISO3458, ISO3459, ISO3501, ISO3503

Threaded Standard: BS21 ISO7

Premium compression fittings by Polyware®



penguin
Smart Series

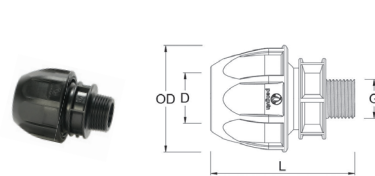
COMPRESSION FITTINGS



FIT TIGHT, LASTS RIGHT

Combines secure fit with long-lasting durability

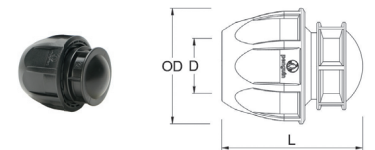
Premium compression fittings by Polyware®



MALE THREADED ADAPTOR M.T.A.

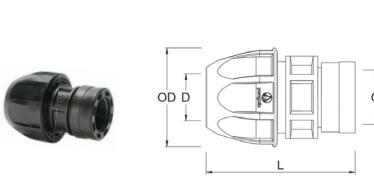
size D(mm) x G(inch)	L (mm)	OD (mm)	WEIGHT (kg)
20 x ½"	69	47	0.038
20 x ¾"	69	47	0.054
25 x ½"	74	55.5	0.052
25 x ¾"	75	55.5	0.054
25 x 1"	78	55.5	0.056
32 x ½"	82	65.6	0.080
32 x ¾"	82	65.6	0.080
32 x 1"	86	65.6	0.084
32 x 1 ¼"	98	65.6	0.093
*40 x 1"	102	80	0.143
*40 x 1 ¼"	102	80	0.145
*40 x 1 ½"	117	80	0.145
*50 x 1 ¼"	117	94	0.237
*50 x 1 ½"	117	94	0.215
*50 x 2"	119	94	0.248
*63 x 1 ½"	123	112	0.435
*63 x 2"	127	112	0.435
*63 x 2 ½"	127	112	0.435
*75 x 2"	170	132	0.940
*75 x 2 ½"	170	132	0.940
*90mm x 3"	175	150	1.200
*110mm x 4"	205	184	1.560

* BSP Taper Male Threaded



END CAP E.C.

size D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
20	63	47	0.036
25	67	55.5	0.052
32	77	65.6	0.082
40	85	80	0.145
50	100	94	0.211
63	112	112	0.354
75	135	132	0.610
90	145	150	0.787
110	175	183	1.456

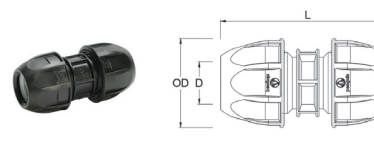


FEMALE THREADED ADAPTOR F.T.A.

size D(mm) x G(inch)	L (mm)	OD (mm)	WEIGHT (kg)
20 x ½"	70	47	0.042
20 x ¾"	72	47	0.044
25 x ½"	75	55.5	0.057
25 x ¾"	76	55.5	0.058
25 x 1"	79	55.5	0.070
32 x ¾"	85	65.6	0.095
32 x 1"	89	65.6	0.096
*40 x 1"	104	80	0.163
*40 x 1 ¼"	104	80	0.176
*40 x 1 ½"	104	80	0.180
*50 x 1 ¼"	125	94	0.248
*50 x 1 ½"	125	94	0.249
*63 x 2"	153	112	0.447
75 x 2"	158	132	0.710
75 x 2 ½"	158	132	0.930
90 x 3"	177	150	0.945
110 x 4"	195	183	1.406

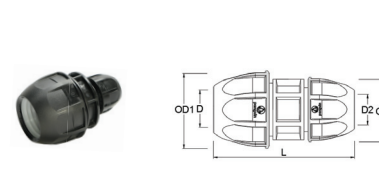
* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded



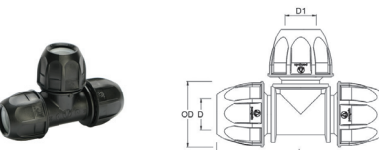
STRAIGHT COUPLER S.C.

size D x D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
20 x 20	94	47	0.069
25 x 25	100	55.5	0.090
32 x 32	123	65.6	0.152
40 x 40	150	80	0.256
50 x 50	170	94	0.418
63 x 63	196	112	0.666
75 x 75	233	132	1.074
90 x 90	260	150	1.380
110 x 110	329	183	2.500



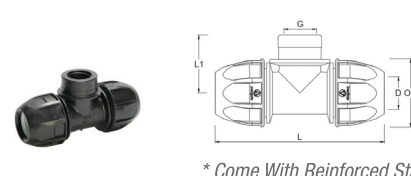
REDUCING COUPLER R.C.

size D1 x D2(mm)	L (mm)	OD1 (mm)	OD2 (mm)	WEIGHT (kg)
25 x 20	97	55.5	47	0.086
32 x 20	112	65.6	47	0.09
32 x 25	113	65.6	55.5	0.118
40 x 20	118	80	47	0.130
40 x 25	120	80	55.5	0.186
40 x 32	138	80	65.6	0.193
50 x 20	135	94	47	0.215
50 x 25	135	94	55.5	0.262
50 x 32	159	94	65.6	0.267
50 x 40	161	94	80	0.293
63 x 25	172	112	55.5	0.424
63 x 32	166	112	65.6	0.451
63 x 40	178	112	80	0.492
63 x 50	185	112	94	0.562
75 x 50	265	132	94	1.107
75 x 63	265	132	112	1.190
90 x 63	240	150	112	1.108
90 x 75	252	150	132	1.266
110 x 63	280	183	112	1.690
110 x 75	280	183	132	1.872
110 x 90	290	183	150	2.056



EQUAL TEE E.T.

size D(mm) x D1(mm)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x 20	120	63	47	0.116
25 x 25	134	67	55.5	0.159
32 x 32	160	80	65.6	0.264
40 x 40	187	96	80	0.427
50 x 50	220	112	94	0.651
63 x 63	262	132	112	1.134
75 x 75	320	160	132	1.797
90 x 90	357	190	150	2.831
110 x 110	433	215	183	4.565

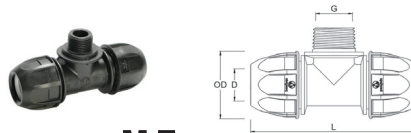


* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded

FEMALE TEE F.T.

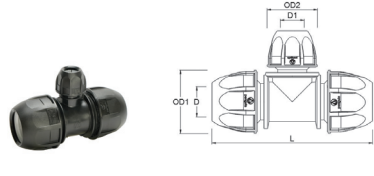
size D(mm) x G(inch)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x ½"	120	47	47	0.094
20 x ¾"	120	47	47	0.095
25 x ½"	134	50	55.5	0.139
25 x ¾"	134	50	55.5	0.140
25 x 1"	134	50	55.5	0.153
32 x ¾"	160	59	65.6	0.198
32 x 1"	160	59	65.6	0.200
*40 x 1"	187	65	80	0.353
*40 x 1 ¼"	187	65	80	0.358
*40 x 1 ½"	187	65	80	0.366
*50 x 1 ¼"	220	78	94	0.536
*50 x 1 ½"	220	78	94	0.536
*63 x 2"	262	90	112	0.925
*75 x 2"	320	96	132	1.380
*75 x 2 ½"	320	96	132	1.440
*90 x 3"	355	118	150	2.210
*110 x 3"	425	123	183	3.512
*110 x 4"	425	123	183	3.512



MALE TEE M.T.

size D(mm) x G(inch)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x ½"	120	47	47	0.089
20 x ¾"	120	47	47	0.090
25 x ½"	134	50	55.5	0.130
25 x ¾"	134	50	55.5	0.139
25 x 1"	134	50	55.5	0.149
32 x ¾"	160	59	65.6	0.190
32 x 1"	160	59	65.6	0.198
*40 x 1"	189	62	80	0.320
*40 x 1 ¼"	189	65	80	0.348
*50 x 1 ¼"	220	77	94	0.540
*50 x 1 ½"	220	77	94	0.545
*63 x 1"	262	92	112	0.830
*63 x 2"	262	92	112	0.880
*75 x 2"	320	122	132	1.419
*75 x 2 ½"	320	122	132	1.421
*90 x 3"	348	137	150	2.110
*110 x 3"	425	150	183	3.280
*110 x 4"	425	150	183	3.560

* BSP Taper Male Threaded



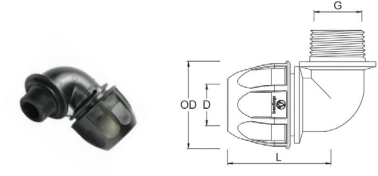
REDUCING TEE R.T.

size D1 x D2(mm)	L (mm)	L1 (mm)	OD1 (mm)	OD2 (mm)	WEIGHT (kg)
25 x 20	134	67	55.5	47	0.138
32 x 20	160	75	65.6	47	0.232
32 x 25	160	77	65.6	55.5	0.268
40 x 25	187	83	80	55.5	0.356
40 x 32	187	92	80	65.6	0.371
50 x 20	220	95	94	47	0.410
50 x 25	220	92	94	55.5	0.492
50 x 32	220	96	94	65.6	0.618
50 x 40	220	110	94	80	0.648
63 x 25	262	102	112	55.5	0.738
63 x 32	262	125	112	65.6	0.750
63 x 40	262	128	112	80	0.758
63 x 50	262	128	112	94	1.074
75 x 50	314	145	132	94	1.598
75 x 63	315	148	132	112	1.658
90 x 63	355	160	150	112	2.024
90 x 75	355	173	150	132	2.112
110 x 63	396	190	183	112	2.855
110 x 75	396	200	183	132	3.100
110 x 90	396	215	183	150	3.355



EQUAL ELBOW 90° E.E.

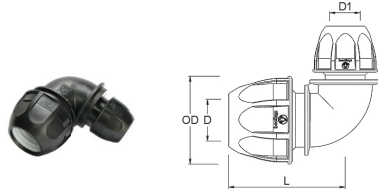
size D(mm) x D1(mm)	L (mm)	OD (mm)	WEIGHT (kg)
20 x 20	60	47	0.078
25 x 25	67	55.5	0.101
32 x 32	83	65.6	0.174
40 x 40	93	80	0.293
50 x 50	111	94	0.456
63 x 63	132	112	0.714
75 x 75	161	132	1.200
90 x 90	184	150	1.669
110 x 110	195	183	3.194



* BSP Taper Male Threaded

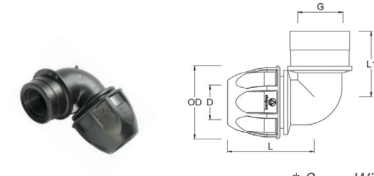
MALE ELBOW 90° M.E.

size D(mm) x G(inch)	L (mm)	L1 (mm)	OD2 (mm)	WEIGHT (kg)
20 x ½"	59	42	47	0.055
20 x ¾"	59	42	47	0.055
25 x ½"	67	51	55.5	0.063
25 x ¾"	67	55	55.5	0.082
25 x 1"	67	55	55.5	0.090
32 x ¾"	83	60	65.6	0.120
32 x 1"	83	60	65.6	0.125
40 x 1"	93	65	80	0.226
40 x 1 ¼"	93	65	80	0.226
50 x 1 ¼"	111	77	94	0.412
50 x 1 ½"	111	77	94	0.415
63 x 2"	132	89	112	0.564
75 x 2"	160	95	132	0.861
75 x 2 ½"	160	95	132	0.870
90 x 3"	173	125	150	1.590
110 x 3"	215	128	183	2.120
110 x 4"	215	133	183	2.115



REDUCING ELBOW R.E.

size D(mm) x D1(mm)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
25 x 20	67	60	55.5	0.086
32 x 20	83	60	65.5	0.090
32 x 25	83	67	65.5	0.118
50 x 25	111	67	94	0.262
50 x 32	111	83	94	0.267

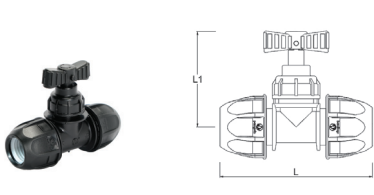


* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded

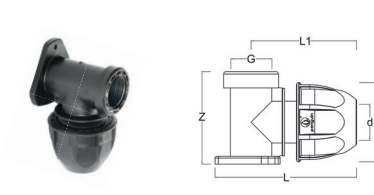
FEMALE ELBOW 90° F.E.

size D(mm) x G(inch)	L (mm)	L1 (mm)	OD2 (mm)	WEIGHT (kg)
20 x ½"	59	32	47	0.062
20 x ¾"	59	32	47	0.063
25 x ½"	67	35	55.5	0.063
25 x ¾"	67	38	55.5	0.092
25 x 1"	67	51	55.5	0.090
32 x ¾"	83	52	65.6	0.138
32 x 1"	83	52	65.6	0.140
*40 x 1"	93	57	80	0.245
*40 x 1 ¼"	93	57	80	0.245
*50 x 1 ¼"	111	65	94	0.363
*50 x 1 ½"	111	65	94	0.370
*63 x 2"	132	78	112	0.576
*75 x 2"	160	95	132	0.788
*75 x 2 ½"	160	95	132	0.898
*90 x 3"	170	105	150	0.942
*110 x 3"	200	120	183	2.112
*110 x 4"	200	123	183	2.224



STOP TAP S.T.

size D(mm) x D1(mm)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x 20	120	91	47	0.138
25 x 25	120	91	55	0.145
32 x 32	139	94	65	0.180



WALL PLATE FEMALE ELBOW W.P.F.E.

size D(mm) x G(inch)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg
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