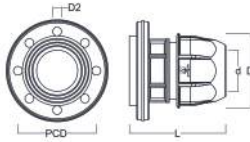




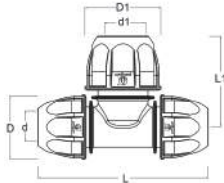
EQUAL ELBOW 45° E.E.

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



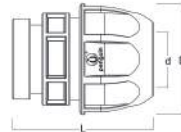
PP FLANGE ADAPTOR P.P.F.A.

size d(mm)	L (mm)	D (mm)	WEIGHT (kg)
63 mm	155	112	0.780
75 mm	173	132	1.160
90 mm	186	150	1.360



ENLARGING TEE E.L.T

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



VITAULIC ADAPTOR V.A.

size d(mm)	L (mm)	D (mm)	WEIGHT (kg)
63 mm	125	112	0.374
110 mm	190	183	1.452

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 ISO7



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.

*Reminder:-

- Make sure the pipe size matching with the compression fittings size.
- Only allowable for PE and PPR jointing.
- Make sure the end of the pipe flat and clean for maximum jointing performance.

Close-Up of a 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 for trusted reliability.

Installation Method

- Mechanical

Application

- House connection & service lines
- Water distribution system
- High end irrigation
- Industrial
- Mining

PIPE SUITABILITY

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

TEST STANDARD

ISO17885, ISO3458, ISO3459, ISO3501, ISO3503

Threaded Standard: ISO7



penguin
Smart Series

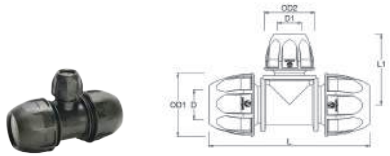
COMPRESSION FITTINGS



FIT TIGHT, LASTS RIGHT

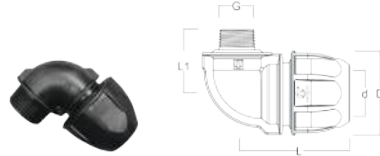
Combines secure fit with long-lasting durability

Premium compression fittings by **Polyware®**



REDUCING TEE R.T.

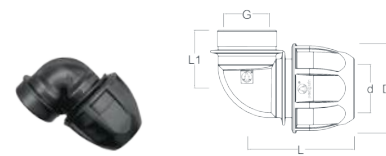
size D1 x D2(mm)	L (mm)	L1 (mm)	OD1 (mm)	OD2 (mm)	WEIGHT (kg)
25 x 20	134	67	55	47	0.138
32 x 20	160	75	65	47	0.232
32 x 25	160	77	65	55	0.268
40 x 25	187	83	80	55	0.356
40 x 32	187	92	80	65	0.371
50 x 20	220	95	94	47	0.410
50 x 25	220	92	94	55	0.492
50 x 32	220	96	94	65	0.618
50 x 40	220	110	94	80	0.648
63 x 25	262	102	112	55	0.738
63 x 32	262	125	112	65	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



MALE ELBOW 90° M.E.

* BSP Taper Male Threaded

size d(mm) x G(inch)	L (mm)	L1 (mm)	D (mm)	WEIGHT (kg)
20 x 1/2"	59	42	47	0.055
20 x 3/4"	59	42	47	0.055
25 x 1/2"	67	51	55	0.072
25 x 3/4"	67	55	55	0.082
25 x 1"	67	55	55	0.090
32 x 3/4"	83	60	65	0.120
32 x 1"	83	60	65	0.138
40 x 1"	93	65	80	0.226
40 x 1 1/4"	93	65	80	0.226
50 x 1 1/4"	111	77	94	0.412
50 x 1 1/2"	111	77	94	0.415
63 x 2"	132	89	112	0.564
75 x 2"	160	95	132	0.861
75 x 2 1/2"	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



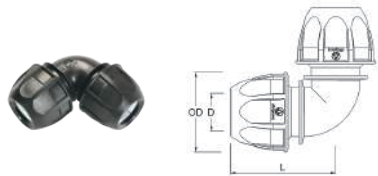
FEMALE ELBOW 90° F.E.

* Come With Reinforced Stainless Steel Ring Cap
* BSP Parallel Female Threaded

size d(mm) x G(inch)	L (mm)	L1 (mm)	D (mm)	WEIGHT (kg)
20 x 1/2"	59	32	47	0.062
20 x 3/4"	59	32	47	0.063
25 x 1/2"	67	35	55	0.063
25 x 3/4"	67	38	55	0.092
25 x 1"	67	51	55	0.090
32 x 3/4"	83	52	65	0.138
32 x 1"	83	52	65	0.140
*40 x 1"	93	57	80	0.245
*40 x 1 1/4"	93	57	80	0.245
*50 x 1 1/4"	111	65	94	0.363
*50 x 1 1/2"	111	65	94	0.370
*63 x 2"	132	78	112	0.576
*75 x 2"	160	95	132	0.788
*75 x 2 1/2"	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

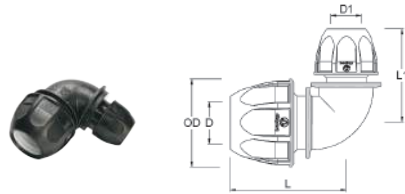


penguin
Smart Series



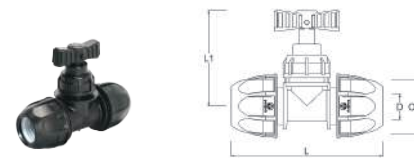
EQUAL ELBOW 90° E.E.

size D(mm) x D(mm)	L (mm)	OD (mm)	WEIGHT (kg)
20 x 20	60	47	0.078
25 x 25	67	55	0.101
32 x 32	83	65	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



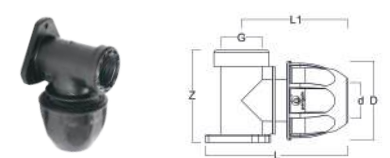
REDUCING ELBOW R.E.

size D(mm) x D1(mm)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
25 x 20	67	60	55	0.086
32 x 20	83	60	65	0.090
32 x 25	83	67	65	0.118
50 x 25	111	67	94	0.262
50 x 32	111	83	94	0.267



STOP TAP S.T.

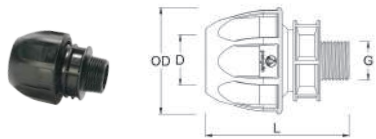
size D(mm) x D1(mm)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x 20	120	91	47	0.138
25 x 25	120	91	55	0.145
32 x 32	139	94	65	0.180



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

size d(mm) x G(inch)	L (mm)	L1 (mm)	D (mm)	WEIGHT (kg)
*20 x 1/2"	92	66	47	0.058
*25 x 1/2"	99	76	55	0.075
*25 x 3/4"	99	76	55	0.090
*32 x 3/4"	120	83	65	0.140
*32 x 1"	120	83	65	0.128

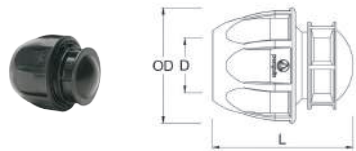
*Ring cap is available upon request when placing an order.
Please note that the price will be different.



MALE THREADED ADAPTOR **M.T.A.**

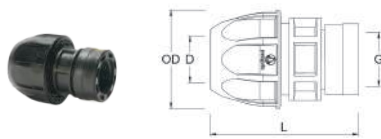
size D(mm) x G(inch)	L (mm)	OD (mm)	WEIGHT (kg)
20 x 1/2"	69	47	0.038
20 x 3/4"	69	47	0.045
25 x 1/2"	74	56	0.052
25 x 3/4"	75	56	0.054
25 x 1"	78	56	0.056
32 x 1/2"	82	66	0.080
32 x 3/4"	82	66	0.080
32 x 1"	86	66	0.084
32 x 1 1/4"	98	66	0.093
*40 x 1"	102	80	0.143
*40 x 1 1/4"	102	80	0.145
*40 x 1 1/2"	102	80	0.145
*50 x 1 1/4"	117	94	0.237
*50 x 1 1/2"	117	94	0.243
*50 x 2"	119	94	0.248
*63 x 1 1/2"	123	112	0.435
*63 x 2"	127	112	0.435
*63 x 2 1/2"	127	112	0.435
*75 x 2"	170	132	0.940
*75 x 2 1/2"	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	0.052
32	77	65	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

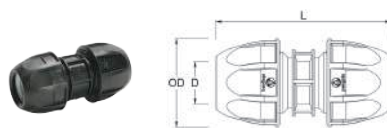


FEMALE THREADED ADAPTOR **F.T.A.**

size D(mm) x G(inch)	L (mm)	OD (mm)	WEIGHT (kg)
20 x 1/2"	70	47	0.042
20 x 3/4"	72	47	0.044
25 x 1/2"	75	55	0.057
25 x 3/4"	76	55	0.058
25 x 1"	79	55	0.070
32 x 3/4"	85	65	0.095
32 x 1"	89	65	0.096
*40 x 1"	104	80	0.163
*40 x 1 1/4"	104	80	0.176
*40 x 1 1/2"	104	80	0.180
*50 x 1 1/4"	125	94	0.248
*50 x 1 1/2"	125	94	0.249
*63 x 2"	153	112	0.447
*75 x 2"	158	132	0.710
*75 x 2 1/2"	158	132	0.930
*90 x 3"	177	150	0.945
*110 x 4"	195	183	1.406

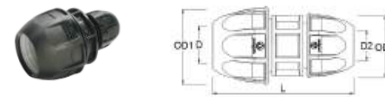
* Come With Reinforced Stainless Steel Ring Cap

* 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	108	55	0.090
32 x 32	123	65	0.152
40 x 40	150	80	0.256
50 x 50	177	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



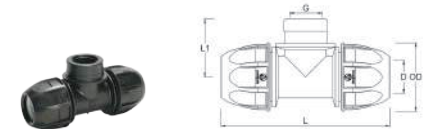
REDUCING COUPLER **R.C.**

size D1 x D2(mm)	L (mm)	OD1 (mm)	OD2 (mm)	WEIGHT (kg)
25 x 20	97	55	47	0.086
32 x 20	112	65	47	0.090
32 x 25	113	65	55	0.118
40 x 20	118	80	47	0.130
40 x 25	120	80	55	0.186
40 x 32	138	80	65	0.193
50 x 20	135	94	47	0.215
50 x 25	135	94	55	0.262
50 x 32	159	94	65	0.267
50 x 40	161	94	80	0.293
63 x 25	172	112	55	0.424
63 x 32	166	112	65	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	0.159
32 x 32	160	80	65	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

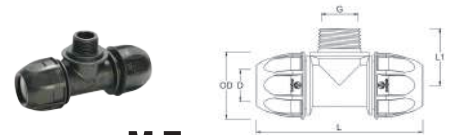


* Come With Reinforced Stainless Steel Ring Cap

* BSP Parallel Female Threaded

FEMALE TEE **F.T.**

size D(mm) x G(inch)	L (mm)	L1 (mm)	OD (mm)	WEIGHT (kg)
20 x 1/2"	120	47	47	0.094
20 x 3/4"	120	47	47	0.095
25 x 1/2"	134	50	55	0.139
25 x 3/4"	134	50	55	0.140
25 x 1"	134	50	55	0.153
32 x 3/4"	160	59	65	0.198
32 x 1"	160	59	65	0.200
*40 x 1"	187	65	80	0.353
*40 x 1 1/4"	187	65	80	0.358
*40 x 1 1/2"	187	65	80	0.366
*50 x 1 1/4"	220	78	94	0.536
*50 x 1 1/2"	220	78	94	0.542
*63 x 2"	262	90	112	0.925
*75 x 2"	320	96	132	1.380
*75 x 2 1/2"	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 1/2"	120	47	47	0.089
20 x 3/4"	120	47	47	0.090
25 x 1/2"	134	50	55	0.130
25 x 3/4"	134	50	55	0.139
25 x 1"	134	50	55	0.149
32 x 3/4"	160	59	65	0.190
32 x 1"	160	59	65	0.198
*40 x 1"	189	62	80	0.320
*40 x 1 1/4"	189	65	80	0.348
*50 x 1 1/4"	220	77	94	0.540
*50 x 1 1/2"	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 1/2"	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