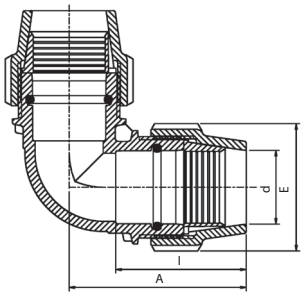
COMPRESSION FITTINGS

90º Elbow
Codo de 90°

0705M0



Size d x d	E	I	A	UB	UC	W
½" x ½"	1.89	2.13	2.87	10	200	0.22
¾" x ¾"	2.13	2.24	2.99	10	150	0.28
1" x 1"	2.52	2.60	3.62	5	100	0.45
1¼" x 1¼"	3.23	3.27	4.29	—	60	0.78
1½" x 1½"	3.78	3.66	4.84	—	35	1.13
2" x 2"	4.45	4.33	5.94	—	24	1.75
3" x 3"	5.98	6.41	8.58	—	8	4.90
4" x 4"	7.13	7.72	11.57	—	4	7.84

TECHNICAL SPECIFICATIONS

Technical Specifications and Installation Instructions

Suitable Pipe

Plasson Fittings shown in this catalogue are suitable for use with IPS Inch size PE pipes made according to standard ASTM D 3035, ASTM F714, AWWA C906.

Threads

The threads, male and female, fit to NPT threads.

Operating Pressures

Plasson compression fittings up to 2" and compression stoptaps are tested and approved to PN 16 bars, according to ISO 14236 which corresponds to a working pressure of 230 psi. 3" and 4" fittings are approved for 200 PSI (14 bars)
The Quick Coupling Valve, Angle Seat Valve and the Check Valve working pressure is 120 psi (8 bars).

Operating Temperatures

The fittings and valves are not to be used with hot water, although they withstand the same temperature as the polyethylene pipe itself. The fittings and valves will withstand sub-zero temperatures.

Quality Assurance

Plasson's Quality Assurance System is ISO - 9001 certified.

Materials

Compression Fittings & Valves
Body: Polypropylene, high-grade copolymer
Nut: Polypropylene, high-grade copolymer
Split Ring: Acetal (POM)
Seal: Nitrile rubber (NBR)
Check valve seal: EPDM
Check Valve Spring: Stainless steel

Legend

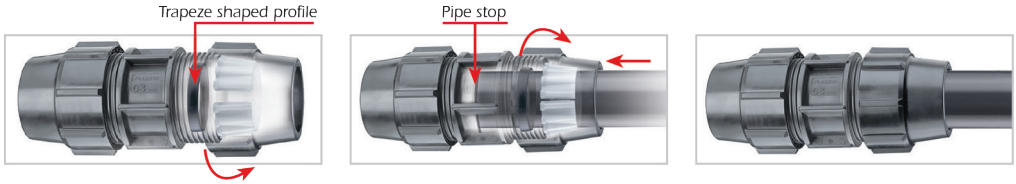
All dimensions are in inches, weights in Lbs

A, A1 Length from centerline to end of fitting
L, L1 Length
B, D, D1 Diameter
d, d1 Nominal diameter of fitting corresponding to nominal OD of pipe
E, E1 Overall diameter of compression fitting
G, G1 Nominal size of thread (inches)
H Overall length of fitting
l, l1 Length of portion of the pipe inside the fitting
l2 Length of thread
W Weight in Lbs

Installation Instructions

½" - 2"

- Cut the pipe square, chamfer the end of the pipe. Undo the nut to the last thread. Leave the nut on the fitting while inserting the pipe.



- Twist the pipe into the fitting* through the split ring and rubber seal to the pipe stop. Tighten the nut firmly.
- Use a Plasson wrench (or similar tool) for final tightening of sizes 11/4" and above.
- The nut should be closed tightly, however there is no need for the nut to actually meet the body shoulder.

* Lubrication of the pipe end will ease insertion of the pipe (use silicone lubricant).

Note: Before installation ensure:
That the end of the pipe to be inserted into the fitting is free of scratches and other imperfections and that both the pipe and the fitting itself are clean of sand, mud, stones etc. If fittings are reused, ensure split ring is sharp and bites into pipe to avoid pull outs. Alternatively replace split ring.

We strongly recommend the use of PTFE tape in threaded connections.

PLASS4

Cut the pipe square and remove all burrs and sharp edges.

- Select correct fitting according to the external diameter of the pipe.
- Slide the PLASS4 fitting (universal side) onto the pipe, until it reaches the internal fins and a slight resistance is felt. Do not force the pipe end past the fins.
- Holding the PLASS4 body with a wrench, tighten the PLASS4 universal nut firmly with a wrench
- Assemble the standard PE joint as per the standard fitting instructions.

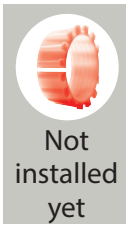
Note: If reusing the fitting, ensure the metal teeth are located in the grip ring and pipe end does not pass the location fins in the body.

TECHNICAL SPECIFICATIONS

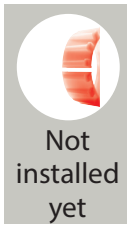
Installation Instructions for Compression Fittings

Assembly Instructions For Fittings Sizes 3”, 4”

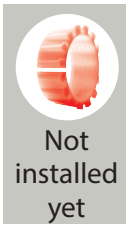
1 Cut the pipe, square. Remove the nut and split ring. Reposition nut, bush and o-ring on pipe 2 diameters back. Lubricate pipe and o-ring.

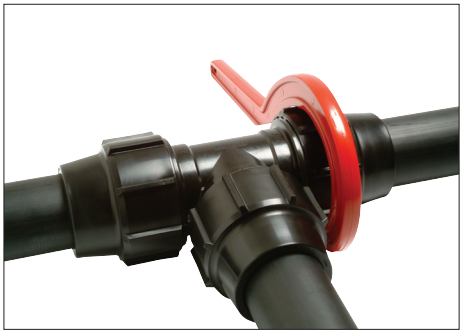


2 Push the pipe fully into the fitting body until stopped by the internal stop. Push the o-ring and plastic bush forward against the fitting. They will not enter the body of the fitting.

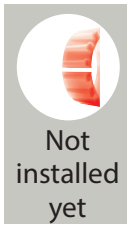


3 Tighten nut to push the bush and o-ring right into the fitting until the bush is flush with fitting mouth.





4 Fully unscrew nut and pull back along pipe.



5 Open split ring and place on pipe with lugs touching bush. Reuse split rings only twice, blunt rings will not bite into pipe.

6 Firmly tighten with Plasson C spanner. Overtightening can cause blow outs.

Do not use a wrench with handle lengths longer than standard Plasson C spanners. For 63mm: max. handle length should be 22cms. For 75–125mm: max. handle length should be 46cms.