

Plasson Compression Fittings, Saddles and Valves

Plasson Compression Fittings, Saddles & Valves

MATERIALS

Compression fittings, Tapping & Compression Saddles

BODY	Polypropylene, high grade copolymer.
NUT	Polypropylene, high grade copolymer.
SPLIT RING	Acetal (POM) CPVC available.
O-RING	Nitrile rubber (NBR). EPDM and FRM O-rings available (Approx. 70 Shore A)
REINFORCING RING	Stainless steel on all female offtakes from 1 1/4" up to 4"
	All Tapping Saddles have stainless steel reinforced female offtakes.
NUT & BOLTS	Galvanised steel (Stainless steel available).

Tapper® Saddles

BODY/COMPRESSION FITTING	Polypropylene
BOLT AND NUT	Stainless steel to SS316.
CUTTER	Brass to BS 2874-CZ122
O-RING	NBR
SADDLE SEAL	EPDM
SPLIT RING	Polyacetal

Valves

BODY	Polypropylene, high grade copolymer
O-RING	NBR, EPDM or FRM O - depending on valve.
SPRING (items 3067,3039)	Stainless steel

Threaded Fittings Polypropylene. SS reinforced outlets are available

OPERATING PRESSURE

Compression fitting comply with requirements of AS/NZS 4129 (Int).

StandardsMark license no. 2018

Operating pressures at 20°C (water)

PN16 Up to 63mm diameter

PN12.5 75mm-125mm diameter

PN10 160mm diameter

All female threads from 1 1/4" to 4" have stainless steel reinforcing rings and are Rated as above except that 4" is suitable for PN6.3 only.

Plasson Tapping Saddles and Plasson Compression Saddles comply with specification 025 - 'Tappings Bands' of Australian Standards SAA MP52-1991.

Tapper®WIS 4-22-02/WRC Standards-PN16. WSA approved.

Plasson polypropylene BSP threaded fittings: 1.0 Mpa for male fittings, 0.6 Mpa

For female fittings (1.0 Mpa for SS reinforced female fittings).

Plasson polypropylene valves: PN10 or PN12.5

PIPE SUITABILITY

Plasson Compression Fittings : for pipes 16mm to 160mm outside diamter.

Metric OD System for use with polyethylene pipe manufactured to:

- AS1159-1988-Polyethylene Pipes for Pressure Applications
- AS4130 (Int)-PE Pipes for Pressure Applications
- PE Pipes with outside dimensions to ISO OD series system.

Plasson Rural Fittings: for Type 50 Class rural Polyethylene Pipe manufactured to:

- AS 2698.2 (ID Series)-Class 6

Plasson Compression Fittings, Saddles and Valves

OPERATING TEMPERATURE

The compression saddles, fittings and valves are not for use with hot water although they withstand the same temperature as most polyethylene pipes. The fittings and valves will withstand sub-zero temperatures.

FLANGES

Flange dimensions in accordance with AS/NZS 4331-1995.

Metal backing rings to be used with all flanges.

THREADS

Internal parallel thread up to 2 1/2"; internal taper thread 3" and up.

External taper thread all sizes. All threads conform to ISO7; BS21-1973; DIN2999; NEN3258; AS1722 Part1-1975.

CHEMICAL RESISTANCE

Plasson polypropylene fittings are supplied, as standard, with Nitrile (NBR) rings and acetal split rings which are suitable for water supply and many chemical handling applications.

For many chemicals however, NBR and acetal are unsuitable and Plasson spare rings of either EPDM or VITON (FPM) should be used to replace the nitrile rings. CPVC split rings are also available to replace acetal. Generally nitrile is good in oily applications whilst EPDM or VITON are more suitable in acidic applications. A brief indication of chemical resistance at 20°C follows.

	NBR ¹	O Rings EDPM ²	FPM ²	Plasson Nut +Body PP ¹	Acetal ¹	Split Rings CPVC ²
Benzene	0	-	+	0	+	-
Brine	+	+	+	+	+	+
Slaked Lime	+	+	+	+	+	
Compressed Air cont. oil	+	-	+	+	+	+
Caustic Soda	+	+	0	+	+	+
Fuel Oil	+	-	+	+	+	0
Hydrochloric Acid	-	+	+	+	-	+
Nitric Acid dilute	-	+	+	+	-	+
Carbolic Acid	-	+	+	+		
Lube Oils	+	-	+	+	+	+
Phosphoric Acid	0	+	+	+	+	+
Sulphuric Acid dilute	-	+	+	+	-	+

+ SUITABLE

- UNSUITABLE

0 MEDIUM RESISTANCE

FPM although the most resistant is expensive - EPDM is usually the economical solution. Generally, if EPDM or FPM O Rings are required, then CPVC split rings should be used in place of standard acetal split rings. This is intended as a guide only. Tapping Saddles used in chemical applications or permanently buried situations may require stainless steel bolts and nuts. In many sizes the NBR ring can be replaced with EPDM OR FPM.

(1) Supplied as standard component in Plasson Fittings

(2) Available as Plasson spare parts

NBR O Rings	Cat 7002	FPM O Rings	Cat 7920
EPDM O Rings	Cat 7910	CPVC Split Rings	Cat 7008

APPROVALS

Plasson fittings have been tested and approved by major standard institutions such as WRC (GB), Staatliche Materialprüfungsanstalt Darmstadt (analogous to DIN8078 Part 1) (D); KIWA (NL); Standards Institution of Israel (IL); Australian Authorities (AUS); Statens Provningsanstalt Stockholm (S); Statens Planmerk (S); SGWA (CH); Byggestyrelsen (DK); SKZ GmbH (analogous to DIN8076 Part 3 12/87) (D). QAS Standards Australia StandardMark Licence.

Compression Fittings



Compression Couplings

16-16
20-20
25-25
32-32
40-40
50-50
63-63
75-75
90-90
110-110
125-125
*160-160

*supplied with 4 x 165mm x m16 mild steel hex head galvanised bolts

Reducing Couplings

20-16
25-16
25-20
32-20
32-25
40-25
40-32
50-25
50-32
50-40
63-25
63-32
63-40
63-50
75-50
75-63
90-63
90-75
110-90

Repair Couplings

20-20
25-25
32-32
40-40
50-50
63-63
75-75
90-90
110-110
125- 125

Compression Fittings



90 Deg Tee
16
20
25
32
40
50
63
75
90
110
160

90 Deg Reducing Tee		
1	2	3
20	x 20	x 16
25	x 25	x 20
32	x 32	x 25
40	x 40	x 25
40	x 40	x 32
50	x 50	x 25
50	x 50	x 32
50	x 50	x 40
63	x 63	x 32
63	x 63	x 40
63	x 63	x 50
75	x 75	x 63

1 = Main 2 = Main 3 = Offtake

90 Deg Tee With Threaded Male Offtake		
1	2	3
20	x 20	x 1/2"
20	x 20	x 3/4"
25	x 25	x 1/2"
25	x 25	x 3/4"
32	x 32	x 1"
40	x 40	x 1 1/4"
40	x 40	x 1 1/2"
50	x 50	x 1 1/4"
50	x 50	x 1 1/2"
63	x 63	x 1 1/4"
63	x 63	x 1 1/2"
63	x 63	x 2"

1 = Main 2 = Main 3 = Offtake

Compression Fittings



90 Deg Reducing Tee With Threaded Female Offtake

1	2	3
20	16	$x \frac{3}{4}$ "
25	20	$x \frac{3}{4}$ "
32	25	$x 1$ "

1 = Main 2 = Main 3 = Offtake

90 Deg Tee With Threaded Female Offtake

1	2	3
16	16	$x \frac{1}{2}$ "
16	16	$x \frac{3}{4}$ "
20	20	$x \frac{1}{2}$ "
20	20	$x \frac{3}{4}$ "
25	25	$x \frac{1}{2}$ "
25	25	$x \frac{3}{4}$ "
25	25	$x 1$ "
*25	25	$x 1\frac{1}{4}$ "
32	32	$x \frac{3}{4}$ "
32	32	$x 1$ "
*32	32	$x 1\frac{1}{4}$ "
*32	32	$x 1\frac{1}{2}$ "
40	40	$x 1$ "
*40	40	$x 1\frac{1}{4}$ "
*40	40	$x 1\frac{1}{2}$ "
*40	40	$x 2$ "
*50	50	$x 1\frac{1}{2}$ "
*50	50	$x 2$ "
*63	63	$x 1\frac{1}{4}$ "
*63	63	$x 1\frac{1}{2}$ "
*63	63	$x 2$ "
*75	75	$x 2$ "
*75	75	$x 2\frac{1}{2}$ "
*75	75	$x 3$ "
*90	90	$x 3$ "
+*110	110	$x 4$ "

* With stainless steel reinforcing ring

+ Available PN 6.3 only

1 = Main 2 = Main 3 = Offtake

Compression Fittings



90 Deg Elbows
16-16
20-20
25-25
32-32
40-40
50-50
63-63
75-75
90-90
110-110

90 Deg Elbows With Threaded Male Offtake
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 1"
32 x 1 1/4"
40 x 1"
40 x 1 1/4"
40 x 1 1/2"
50 x 1"
50 x 1 1/4"
50 x 1 1/2"
63 x 1 1/4"
63 x 1 1/2"
63 x 2"
75 x 2 1/2"
75 x 3"
90 x 3"
110 x 4"

90 Deg Elbows With Threaded Female Offtake
16 x 1/2"
20 x 1/2"
20 x 3/4"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1
*32 x 1 1/4"
40 x 1"
*40 x 1 1/4"
*40 x 1 1/2"
*40 x 2"
50 x 1"
*50 x 1 1/4"
*50 x 1 1/2"
*50 x 2"
*63 x 1 1/4"
*63 x 1 1/2"
*63 x 2"
*75 x 2"
*75 x 2 1/2"
*75 x 3"

* With stainless steel reinforcing ring

Compression Fittings



45 Deg Elbow

40-40
50-50
63-63
90-90
110-110



45 Deg Elbow with Threaded Male Offtake

20 x 1/2"
20 x 3/4"



Male Adaptor

16 x 1/2"
16 x 3/4"
20 x 1/2"
20 x 3/4"
20 x 1"
25 x 1/2"
25 x 3/4"
25 x 1"
32 x 3/4"
32 x 1"
32 x 1 1/4"
32 x 1 1/2"
40 x 1"
40 x 1 1/4"
40 x 1 1/2"
40 x 2"
50 x 1"
50 x 1 1/4"
50 x 1 1/2"
50 x 2"
63 x 1 1/4"
63 x 1 1/2"
63 x 2"
63 x 2 1/2"
75 x 2"
75 x 2 1/2"
75 x 3"
90 x 2"
90 x 2 1/2"
90 x 3"
90 x 4"
110 x 2"
110 x 3"
110 x 4"

Compression Fittings



Female Adaptor

- 16 x 1/2"
- 16 x 3/4"
- 20 x 1/2"
- 20 x 3/4"
- 20 x 1"
- 25 x 3/4"
- 25 x 1"
- 32 x 3/4"
- 32 x 1"
- *32 x 1 1/4"
- *40 x 1"
- *40 x 1 1/4"
- *40 x 1 1/2"
- *50 x 1 1/4"
- *50 x 1 1/2"
- *50 x 2"
- *63 x 1 1/4"
- *63 x 1 1/2"
- *63 x 2"
- *75 x 2"
- *75 x 2 1/2"
- *90 x 2"
- *90 x 3"
- **90 x 4"
- *110 x 3"
- **110 x 4"

Flanged Coupling with Metal Flange

AS2129/AS4987		AS/NZS4331:1998
50 x 2"	1	50 x (40) 1 1/2" I.S.O
50 x 2 1/2"	1	50 x (50) 2" I.S.O
63 x 2 1/2"	1	63 x (50) 2" I.S.O
75 x 3"	1	75 x (63) 2 1/2" I.S.O
90 x 4"	1	90 x (100) 4" I.S.O
110 x 4"	1	110 x (100) 4" I.S.O
125 x 5"	1	125 x (125) 5" I.S.O
125 x 6"	1	125 x (150) 6" I.S.O
160 x 5"	1	125/160 x (125) 5" I.S.O
160 x 6"	1	125/160 x (150) 6" I.S.O

Use M16 bolts with 6" flanges

* With stainless steel reinforcing ring
 † Available PN6.3 only

Compression Fittings



End Plug
20
25
32
40
50
63
75
90
110



O-Ring Nitrile
16
20
25
32
40
50
63
75
90
110
125
160



O-Ring Viton ^{***}
16
20
25
32
40
50
63
75
90
110



O-Ring EPDM ^{***}
16
20
25
32
40
50
63
75
90
110

* Blue Mark - a better chemical resistance than NBR

** White Mark - a better chemical resistance than NBR

*When these rings are used the use of CPVC split rings will usually be required

Compression Fittings



*Split Ring Acetal
16
20
25
32
40
50
63
75
90
110
125

**Split Ring C-PVC
16
20
25
32
40
50
63
75
90
110

Insert PP
75
90
110
125U
125L

* Standard split ring supplied with fittings

** Used in place of acetal in acid or aggressive chemical environments - yellow / brown colour

Single Tapping Saddle

Tapping Saddle for Rural & Metric with S/Steel Reinforcing Ring & Galv.* Bolts 20-50

20 x 1/2"	Metric & Rural (Long Bolts)	PEFI	2 BOLTS
25 x 1/2"	Metric & Rural (Long Bolts)	PEFI	
25 x 3/4"	Metric & Rural (Long Bolts)	PEFI	
32 x 1/2"	Metric & Rural (Long Bolts)	PEFI	
32 x 3/4"	Metric & Rural (Long Bolts)	PEFI	
32 x 1"	Metric & Rural (Long Bolts)	PEFI	
40 x 1/2"	Metric & Rural (Long Bolts)	PEFI	
40 x 3/4"	Metric & Rural (Long Bolts)	PEFI	
40 x 1"	Metric & Rural (Long Bolts)	PEFI	
50 x 1/2"	Metric & Rural (Long Bolts)	PEFI	
50 x 3/4"	Rural only	PEFI	
50 x 1"	Rural only	PEFI	
50 x 1 1/4"	Metric & Rural (Long Bolts)	PEFI	

GALV* Zinc plated with Chromate passivator - Yellow colour (shiny).

Tapping Saddle for Metric with S/Steel Reinforcing Ring & Galv.* Bolts 50 - 180

For Metric Pipe			
50 x 3/4"	2 BOLTS	PEFI	
50 x 1"		PEFI	
50 x 1 1/4"		PEFI	
63 x 1/2"		PEFI	
63 x 3/4"		PEFI	
63 x 1"		PEFI	
63 x 1 1/4"		PEFI	
63 x 1 1/2"		PEFI	
75 x 1/2"		PEFI	
75 x 3/4"		PEFI	
75 x 1"	PEFI	4 BOLTS	
75 x 1 1/4"	PEFI		
75 x 1 1/2"	PEFI		
75 x 2"	PEFI		
90 x 1/2"	PEFI		
90 x 3/4"	PEFI		
90 x 1"	PEFI		
90 x 1 1/4"	PEFI		
90 x 1 1/2"	PEFI		
90 x 2"	PEFI		
110 x 1/2"	PEFI	6 BOLTS	
110 x 3/4"	PEFI		
110 x 1"	PEFI		
110 x 1 1/4"	PEFI		
110 x 1 1/2"	PEFI		
110 x 2"	PEFI		
125 x 3/4"	PEFI		
125 x 1"	PEFI		
125 x 1 1/4"	PEFI		
125 x 1 1/2"	PEFI		
125 x 2"	PEFI		
140 x 1"	PEFI		
140 x 1 1/4"	PEFI		
140 x 1 1/2"	PEFI		
140 x 2"	PEFI		
160 x 1"	PEFI		
160 x 1 1/4"	PEFI		
160 x 1 1/2"	PEFI		
160 x 2"	PEFI		
180 x 1"	PEFI		
180 x 1 1/4"	PEFI		
180 x 1 1/2"	PEFI		
180 x 2"	PEFI		

The nuts and bolts are made of galvanised steel. O-Rings are NBR rubber. FPM and EPDM O-Rings are available subject to special pricing and delivery. GALV* Zinc plated with Chromate passivator - Yellow colour (shiny).

S/S Nuts - Bolts available on request. Larger sizes available on request.

Threaded Fittings



Elbows

SIZE
FEMALE - FEMALE
1/2"
3/4"
1"
2"
MALE - FEMALE
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"



Tees

SIZE
FEMALE - FEMALE
1/2"
3/4"
1"
2"



Sockets

SIZE
FEMALE - FEMALE
1/2"
3/4" X 1/2"
3/4"
1" X 1/2"
1 X 3/4"
1"
1 1/4" X 3/4"
1 1/4 X 1"
1 1/4"
1 1/2" X 3/4"
1 1/2 X 1"
1 1/2" X 1 1/4"
1 1/2"
2" X 1/2"
2" X 3/4"
2" X 1"
2" X 1 1/4"
2" X 1 1/2"
2"

Threaded Fittings



Reducing Bushes

SIZE MALE - FEMALE
3/4" X 1/2"
1" X 1/2"
1" X 3/4"
1 1/4" X 1/2"
1 1/4" X 3/4"
1 1/4" X 1"
1 1/2" X 1/2"
1 1/2" X 3/4"
1 1/2" X 1"
1 1/2" X 1 1/4"
2" X 1/2"
2" X 3/4"
2" X 1"
2" X 1 1/4"
2" X 1 1/2"
3" X 2"
3" X 2 1/2"
4" X 2"
4" X 3"



Plugs - Threaded

SIZE
1/2"
3/4"
1"
1 1/4"
1 1/2"
2"



Nipples

SIZE
1/2"
3/4 X 1/2"
3/4"
1" X 1/2"
1" X 3/4"
1"
1 1/4" X 1/2"
1 1/4" X 3/4"
1 1/4" X 1"
1 1/4" X 1"
1 1/4"
1 1/2" X 1/2"
1 1/2" X 3/4"
1 1/2" X 1"
1 1/2" X 1 1/4"
1 1/2"
2" X 1/2"
2" X 3/4"
2" X 1"
2" X 1 1/4"
2" X 1 1/2"
2"
2 1/2"
3" X 2"
3" X 2 1/2"
3"
4" X 3"
4"



Caps

1/2"
3/4"
1"
1 1/4"
1 1/2"
2"