

# Valve and Coupling Solutions for PE Piping Systems



# VALVE & COUPLING SOLUTIONS FOR PE PIPING SYSTEMS

AVK Australia has a comprehensive and unique range of isolation gate, ball and butterfly valves, couplings, flange adaptors, end caps and support bushes specifically designed for connecting to PE piping systems.

Two options are available:

1. Fully welded (either by butt or fusion weld method) isolation gate and ball valves.
2. Mechanical tensile resistant isolation gate and butterfly valves as well as straight couplings, flange adaptors, end caps & support bushes.

All products are manufactured from either cast ductile iron material, fusion bonded epoxy (FBE) coated providing both internal and external corrosion protection or HDPE.

They are an ideal option and alternative to the traditional PE joining methods of flanges (stub type) and grooved or shouldered couplings.

All items as standard are suitable for PE pipe to PE100 SDR11.

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## DIRECT BUTTWELD OR FUSION WELD PE TAIL SOLUTION

- Gate Valve (full bore) for isolation duties on water. Clockwise or anti-clockwise stem closing options. Stem cap or handwheel option.



Series 36	
Valve bore size	With PE OD tail size
65	75
80	90
100	110
125	125
125	140
150	160
150	180
200	200
200	225
250	280
300	315

- Ball Valve for isolation duties on gas or water. Quarter turn clockwise close, square stem cap operation.



Series 85		
Valve size	(bore)	With PE OD tail size
25	(24)	32
32	(32)	40
40	(40)	50
50	(50)	63
65	(64)	75
80	(74)	90
100	(86)	110
100	(86)	125
150	(120)	160
150	(120)	180

## MECHANICAL TENSILE RESISTANT PE GRIP SOLUTION

- Gate Valve (full bore) for isolation duties on water. Clockwise or anti-clockwise stem closing options. Stem cap or handwheel option.



Series 01		
Valve bore size	Suit PE OD size	Tensile bolting
80	90	2 x M16
100	110	4 x M16
125	125	
125	140	
150	160	
150	180	6 x M16
200	200	
200	225	
250	250	
250	280	
300	315	

- Butterfly Valve for isolation and control duties on water. Lever (s/s) operator to 180 OD, gearbox operated 200 OD and larger. Note: Valve disc will clear the PE ID bore without the need for additional spacer pieces.



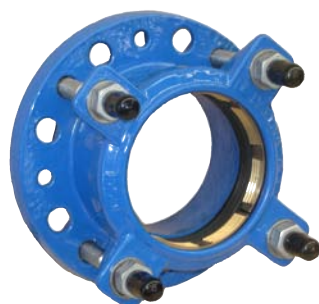
Series 813 & 623		
Valve size	Suit PE OD size	Tensile bolting
80	90	2 x M16
100	110	4 x M16
100	125	
150	160	
150	180	
200	200	6 x M16
200	225	
250	250	
250	280	
300	315	

- Straight Coupling & End Cap



Series 621 & 624	
Suit PE OD size	Tensile bolting
90	2 x M16
110	4 x M16
125	
140	
160	
180	6 X M16
200	
225	
250	
280	
315	

- Flange Adaptor - Table D/E



Series 623		
Flange size	Suit PE OD size	Tensile bolting
80	90	2 x M16
100	110	4 x M16
100	125	
150	160	
150	180	
200	200	6 x M16
200	225	
250	250	
250	280	
300	315	

# MECHANICAL TENSILE RESISTANT PE GRIP SOLUTION



This range features a unique seal and tensile resistant ring designed specifically for PE pipe. An angular deflection allowance of +/- 3.5 degrees on each side at 16 Bar pressure is incorporated in the design. The tensile sealing ring is in RG5 gun metal bronze with EPDM rubber.



Bolts and washers are in Stainless Steel grade 304 S/S (A2) with the nut in 316 S/S (A4) for corrosion protection and anti-galling dissimilar materials. Bolts are strong M16 square neck type for optimal strength. The bolting does not thread mount directly into the cast ductile Iron body or flange avoiding potential galvanic corrosion.



## Support Bush

AVK always recommend the Series 05 316 S/S Support Bush be utilised when using PE pipe systems and mechanical tensile restraint PE Grip sealing ring solution valves & couplings.



Series 05	
Suit PE OD size	
90	
110	
125	
140	
160	
180	
200	
225	
250	
280	
315	