

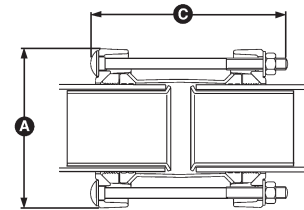


AquaGrip - up to 180mm

AquaGrip couplings and flange adaptors up to 180mm are currently manufactured for SDR17 and SDR11 PE pipe. SDR26 is also available on AquaGrip couplings 160mm.

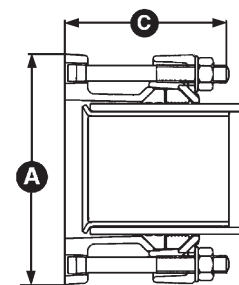
AquaGrip coupling assembly Joins PE pipe to PE pipe

Pipe OD mm	Dimensions (mm)		No. of bolts	Bolt size mm	Weight kg
	A	C			
63	144	208	2	M12 x 200	2.4
90	167.5	208	4	M12 x 200	3.8
110	188	208	4	M12 x 200	5.4
125	203	208	4	M12 x 200	5.8
160	240	223	8	M12 x 215	9.0
180	257.5	223	8	M12 x 215	9.8



AquaGrip flange adaptor assembly Joins PE pipe to flanged equipment

Pipe OD mm	Dimensions (mm)		No. of T-bolts	T-bolt size (mm)	Flange specification nom (mm)	Weight kg
	A	C				
63	200	123	2	M12 x 115	50/80 PN10/16	3.6
90	200	123	4	M12 x 115	80 PN10/16	3.8
110	220	123	4	M12 x 115	100 PN10 & 16	4.2
125	220	123	4	M12 x 115	100 PN10 & 16	4.3
160	285	129	8	M12 x 115	150 PN10 & 16	8.1
180	285	129	8*	M12 x 115	150 PN10 & 16	8.5



*Dimension and bolt length can vary according to style of coupling.

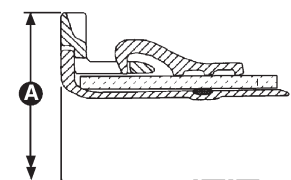
AquaGrip - up to 225mm and larger

The following chart introduces a selection of popular sizes.

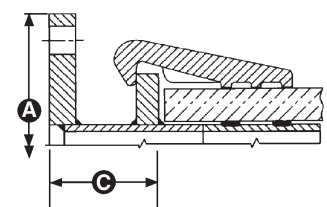
Details of couplings and other flange adaptors are available on request.

Pipe OD mm	SDR rating*	Flange nominal/drillings‡	Dimensions below relate to the SDR ratings shown in bold		No. of bolts	Bolt size mm	Deep reach socket size A/F	Weight (approx) kg
			A	C				
225	11, 17, 26/33	200 PN16	340	-	4	M16 x 130	14.5	
250	11, 17, 26/33	200 PN16	340	-	4	M16 x 130	23.6	
250	11, 17, 26/33	250 PN16	405	-	4	M16 x 130	22.6	
280	11, 17, 21, 26/33	250 PN16	405	-	4	M16 x 130	31.9	
315	11, 17, 21, 26/33	250 PN16	405	170	4	M20 x 120	39.6	
355	11, 17, 21, 26/33	300 PN16	460	138	6	M20 x 120	57.0	
355	11, 17, 21, 26/33	350 PN16	520	138	6	M20 x 120	65.0	
400	11, 17, 21, 26/33	400 PN16	580	134	9	M20 x 120	94.4	
450	11, 17, 21, 26, 33	400 PN16	580	134	9	M24 x 130	130.0	
450	11, 17, 21, 26/33	450 PN16	640	134	9	M24 x 130	151.0	
500	11, 17, 21, 26, 33	400 PN16	580	155	9	M24 x 130	136.0	
500	11, 17, 21, 26/33	450 PN16	640	134	9	M24 x 130	147.0	
500	11, 17, 21, 26, 33	500 PN16	715	134	9	M24 x 130	176.0	
560	11, 17, 21, 26, 33	450 PN16	640	235	12	M24 x 130	189.0	
560	11, 17, 21, 26, 33	500 PN16	715	165	12	M24 x 130	197.0	
630	11, 17, 21, 26, 33	600 PN16	840	220	12	M24 x 150	254.0	
710	17, 21, 26/33	700 PN16	910	310	12	M27 x 150	311.0	
800	17, 26/33	700 PN16	910	270	15	M27 x 150	456.0	
800	17, 26	800 PN16	1025	270	15	M27 x 150	514.0	
900		900 PN16	1125		15	M33 x 160	711.0**	
1000	Please contact us for details	1000 PN16	1255	Please contact us for details	18	M33 x 160	1107**	
1200		1200 PN16	1485		18	M33 x 180	1127**	
1400		1400 PN16	1685		18	M33 x 180	1582**	
1600		1600 PN16	1930		24	M33 x 180	1808**	

Note:
SDR = Standard Dimensional Ratio
= Pipe OD / Wall Thickness



225mm - 280mm



315mm - 1600mm

For further information on all Viking Johnson products and services contact our Marketing Department using the telephone/fax and email details below.





Material Specification - up to 180mm

Notes:

End rings/flange adaptor body

SG iron to BS EN 1563:1997 Symbol EN-GJS-450-10.

Centre sleeve/liners

Mild steel to BS EN 10025:2004 Grade S 275.

Bolts

to BS EN ISO 898-1:1999 Property Class 4.8.

Nuts

to BS 4190:2001 Grade 4.

Washers

Stainless steel - BS 1449: PT2: 1983 Grade 304 S 15

Gripper

Acetal copolymer Grade M90 or equivalent.

Gasket

EPDM compound Grade 'E' to BS EN 681-1:1996 Type WA. 'E'

temperature range: -40°C to +90°C. Operating temperature range limited by capability of PE pipe material. Suitable for water, sewage, many strong and oxidising chemicals and food applications. (Not suitable for fluctuating temperature, i.e. heating systems.) WRAS listed.

Coating

Flange adaptor body, centre sleeve and end rings are coated in Rilsan Nylon 11. Rilsan complies with WIS 4-52-01 Part 1. Bolts: Blue Sheraplex followed by dry film lubricant (Ilex).

Performance criteria

WRAS listed and designed to meet the Full Type 1 performance requirements of WIS 4-24-01.

Bolt torque required

Blue Sheraplex: 40-50lbf.ft (55-65Nm.)

Pressure Rating

16 bar from -10° to 70°C

Material Specification - up to 225mm and larger

Flange adaptor body

280mm and below: SG iron to BS EN 1563:1997:Symbol EN-GJS-450-10.

315mm and above: mild steel to BS EN10025:2004:Grade S275.

Clamp band

SG iron (225mm to 800mm) to BS EN 1563:1997:Symbol EN-GJS-450-10.

Mild steel to BS EN10025:2004:Grade S275 (900mm to 1600mm).

Liner

(225 -280mm sizes): aluminium to BS1490:1988:Grade LM 27M.

Gaskets

70 IRHD EPDM to BS EN 681-1:1996:Type WA.
WRAS listed.

Coatings

Flange adaptor body, clamp bands and liners are coated in Rilsan Nylon 11 (Blue), WRAS listed.

Bolts and nuts and washers are zinc plated followed by Grey Flurene[®] 177.

Please note:

This product must be tightened to the required torque range:

M16 bolts 70 - 80lbf.ft (95 - 110Nm.)

M20 bolts 110 - 120lbf.ft (150 - 165Nm.)

M24 bolts 210 - 220lbf.ft (285 - 300Nm.)

M27 bolts 260 - 300lbf.ft (350 - 405Nm.)

M33 bolts 500 - 550lbf.ft (675 - 750Nm.)

Performance criteria

Designed and listed to meet the full Type 1 performance requirements of WIS 4-24-01 in all sizes up to 450mm.

For confirmation of other sizes please contact our Marketing Department on 01462 443322.

Installation Tools:

All AquaGrip sizes require the correct bolt torque to achieve an adequate seal and grip.

For sizes up to and including 400mm, the use of standard hand tools for torquing the clamp band bolts is considered adequate.

For larger sizes and/or thicker pipe wall (lower SDR), the work required to compress the pipe wall substantially increases and the most efficient way to install the product is with power tools.

Please ask for a copy of our Installation Tools factsheet.

AquaGrip is designed and manufactured under Quality Management Systems certified to BS EN ISO 9001 and the requirements of ISO 14001.

Viking Johnson operates a policy of continual product improvement and innovation, and reserves the right to modify details in this publication.

Information is correct at time of publishing. Additional dimensional information is available from our Technical Support department.

For further information on all Viking Johnson products and services contact our Marketing Department using the telephone/fax and email details below.

