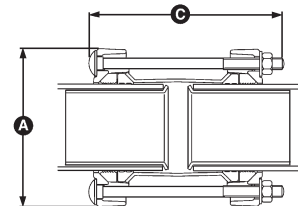


AquaGrip - up to 180mm

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 and 125mm.

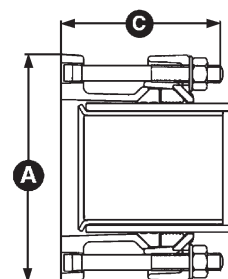
AquaGrip coupling assembly Joins PE pipe to PE pipe

Pipe OD	Dimensions (mm)		No. of Bolts	Bolts size (mm)	Weight Kg
	A	C			
63	144	208	2	M12x200	2.4
90	167.5	208	4	M12x200	3.8
110	188	208	4	M12x200	5.4
125	203	208	4	M12x200	5.8
160	240	223	8	M12x215	9.0
180	257.5	223	8	M12x215	9.8



AquaGrip flange adaptor assembly Joins PE pipe to flanged equipment

Pipe OD	Dimensions (mm)		No. of T-Bolts	T-Bolt size (mm)	Flange specification nom (mm)	Weight Kg
	A	C				
63	200	123	2	M12x115	50/80 PN10/16	3.6
90	200	123	4	M12x115	80 PN10/16	3.8
110	220	123	4	M12x115	100 PN10 & 16	4.2
125	220	123	4	M12x115	100 PN10 & 16	4.3
160	285	129	8	M12x115	150 PN10 & 16	8.1
180	285	129	8*	M12x115	150 PN10 & 16	8.5



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

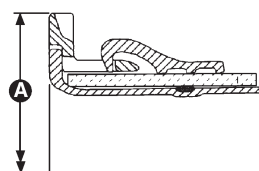
AquaGrip - 225mm and larger

Pipe OD	SDR Rating *				Flange Drilling **	Dimensions		No. of Bolts	Bolt Size	Approximate Weight (kg)
	11	17/17.6	21	26/33		A (mm)	C (mm)			
225	✓	✓	✗	✓	200 PN16	340	-	4	M16x130	15
250	✓	✓	✗	✓	200 PN16	340	-	4	M16x130	24
250	✓	✓	✗	✓	250 PN16	405	-	4	M16x130	23
280	✓	✓	✓	✓	250 PN16	405	-	4	M16x130	32
315	✓	✓	✓	✓	250 PN16	405	170	4	M20x120	48
355	✓	✓	✓	✓	300 PN16	460	138	6	M20x120	65
355	✓	✓	✓	✓	350 PN16	520	138	6	M20x120	65
400	✓	✓	✓	✓	400 PN16	580	134	9	M20x120	95
450	✓	✓	✓	✓	400 PN16	580	134	9	M27x150	160
450	✓	✓	✓	✓	450 PN16	640	134	9	M27x150	186
500	✓	✓	✓	✓	400 PN16	580	175	9	M27x150	169
500	✓	✓	✓	✓	450 PN16	640	134	9	M27x150	169
500	✓	✓	✓	✓	500 PN16	715	134	9	M27x150	199
560	✓	✓	✓	✓	450 PN16	640	235	12	M27x150	200
560	✓	✓	✓	✓	500 PN16	715	180	12	M27x150	248
630	✓	✓	✓	✓	600 PN16	840	220	12	M27x150	311
710	✗	✓	✓	✓	700 PN16	910	310	12	M27x150	311
800	✗	✓	✓	✓	700 PN16	910	270	15	M27x150	470
800	✗	✓	✓	✓	800 PN16	1025	270	15	M27x150	497
900	✗	✓	✓	✓	900 PN16	1125		15	M33x160	800
1000	✗	✓	✓	✓	1000 PN16	1255		18	M33x160	1107
1200	✗	✗	✗	✓	1200 PN16	1485		18	M33x180	1127
1400	✗	✗	✗	✓	1400 PN16	1685		18	M33x180	1582
1600	✗	✗	✗	✓	1600 PN16	1930		24	M33x180	1808

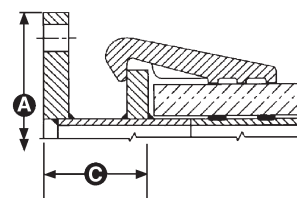
Note:

*SDR = Standard Dimensional Ratio
= Pipe OD / Wall Thickness

** The chart introduces the popular flange drillings. Other drillings may be possible - contact Viking Johnson for further details



225mm - 280mm



315mm - 1600mm

✓ Product requires heating mats at all temperatures to ensure correct installation.

✓ Product requires heating mats if temperature of bore to the pipe falls below -5°C to ensure correct installation.

✗ PE pipe wall too thick - do not have a product.



46-48 WILBURY WAY
HITCHIN, HERTFORDSHIRE
SG4 0UD. UNITED KINGDOM

TELEPHONE: +44 (0)1462 443322

FAX: +44 (0)1462 443311

EMAIL: info@vikingjohnson.com

www.vikingjohnson.com

Material Specification - up to 180mm

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 80 IRHD Grade 'E' to BS EN 681-1:1996 Type WA. Temperature range: -10°C to +40°C. Suitable for water and sewage 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

Material Specification - 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 (Black), 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	140 - 160lbf.ft (190 - 215Nm.)
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.

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 torqueing 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.

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

The company 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.



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