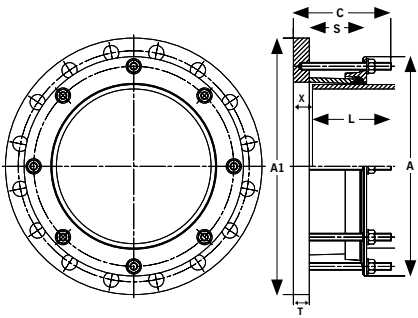


Large Diameter Flange Adaptors OD355 - 813mm to BS EN 1092-1 PN16 Drilling

Datasheet

1/4

Flange Adaptor



Flange Adaptor Type	Flange Adaptor Section	Sleeve Length S (mm)	Distance L (mm)	Setting Gap X (mm)		Bolt Details		
				Min.	Max.	Bolt Dia.	Length (mm)	Torque (Nm)
Standard Sleeve	L02	73	150	25	50	M12	140	55 - 65
Long Sleeve	L03	123	200	25	100	M12	180	55 - 65
Standard Sleeve	YF2	87	150	32	76	M16	160	95 - 120
Long Sleeve	YF3	123	200	32	115	M16	190	95 - 120
Standard Sleeve	A2E	87	150	32	76	M16	160	95 - 120
Long Sleeve	A2H	125	200	32	115	M16	190	95 - 120
Standard Sleeve	XSVG	254	200	57	117	M16	400	95 - 120

L = Distance back from end of pipe that must be rounded, meet tolerances, and free from any wrapping to ensure correct assembly.

Large Diameter Flange Adaptors (BS EN 1092-1 PN16 Drilling)

Pipe OD (mm)	Pipe Material	Flange Drilling BS EN 1092-1		Tolerance on Pipe OD for Distance L		Gasket Mould No.	No. Notches In End Ring If Required	Flange Adaptor Section Type		Flange Adaptor Studs No. x Dia	Weight (kg)		Dimensions						Flange Adaptor Studs Length	
		Nominal	Drilling	(mm) +	(mm) -			Standard Sleeve	Long Sleeve		Standard Sleeve	Long Sleeve	Diameter A (mm)	Flange OD A1 (mm)	Flange Thickness T (mm)	Flange Bolts No. x Dia	Overall C Standard Sleeve (mm)	Overall C Long Sleeve (mm)	Standard Sleeve	Long Sleeve
355.6	Steel & uPVC	350	PN16	1.6	1.6	J51LS	4	L02	L03	8 x M12	24.1	27.5	446	520	18	16 x M24	148	188	140	180
358.6	Coated Steel	350	PN16	1.6	1.6	J51LS	4	L02	L03	8 x M12	23.9	27.3	450	520	18	16 x M24	148	188	140	180
378	Ductile Iron	350	PN16	2.7	3.5	J52LS	8	L02	L03	8 x M12	22.5	26.3	469	520	18	16 x M24	148	188	140	180
406.4	Steel & uPVC	400	PN16	1.6	1.6	J53LS	4	L02	L03	8 x M12	27.9	31.8	497	580	18	16 x M27	148	188	140	180
409.4	Coated Steel	400	PN16	1.6	1.6	J53LS	4	L02	L03	8 x M12	27.7	31.6	500	580	18	16 x M27	148	188	140	180
429	Ductile Iron	400	PN16	2.8	4.0	J54LS	8	L02	L03	8 x M12	26.2	30.2	520	580	18	16 x M27	148	188	140	180
451	PVC & Hep30	450	PN16	0.0	1.0	J55LS	Not Rqd.	L02	L03	10 x M12	45.2	42.4	541	640	25	20 x M27	155	193	140	180
457	Steel & uPVC	450	PN16	1.6	1.6	J55LS	Not Rqd.	L02	L03	10 x M12	37.5	41.9	548	640	23	20 x M27	153	193	140	180
460	Coated Steel	450	PN16	1.6	1.6	J55LS	5	L02	L03	10 x M12	37.2	41.5	551	640	23	20 x M27	153	193	140	180
480	Ductile Iron	450	PN16	2.9	4.0	J56LS	10	L02	L03	10 x M12	34.7	39.3	571	640	23	20 x M27	153	193	140	180
508	Steel & uPVC	500	PN16	1.6	1.6	J57LS	Not Rqd.	L02	L03	10 x M12	45.5	50.3	598	715	23	20 x M30	153	193	140	180
511	Coated Steel	500	PN16	1.6	1.6	J57LS	Not Rqd.	L02	L03	10 x M12	45.1	49.9	602	715	23	20 x M30	153	193	140	180
532	Ductile Iron	500	PN16	3.0	4.0	J58LS	10	L02	L03	10 x M12	42.2	47.2	624	715	23	20 x M30	153	193	140	180
610	Steel & uPVC	600	PN16	1.6	1.6	J60LS	Not Rqd.	L02	L03	10 x M12	58.5	64.2	700	840	23	20 x M33	153	193	140	180
613	Coated Steel	600	PN16	1.6	1.6	J60LS	Not Rqd.	L02	L03	10 x M12	58.0	63.7	703	840	23	20 x M33	153	193	140	180
635	Ductile Iron	600	PN16	3.2	4.5	J61LS	Not Rqd.	L02	L03	10 x M12	54.5	60.4	726	840	23	20 x M33	153	193	140	180
711	Steel	700	PN16	1.6	1.6	J63LS	6	L02	L03	12 x M12	58.5	65.2	802	910	23	24 x M33	153	193	140	180
714	Coated Steel	700	PN16	1.6	1.6	J63LS	6	L02	L03	12 x M12	58.0	64.6	805	910	23	24 x M33	153	193	140	180
738	Ductile Iron	700	PN16	3.4	4.5	J63LS	12	L02	L03	12 x M12	53.1	59.9	830	910	23	24 x M33	153	193	140	180
813	Steel	800	PN16	1.6	1.6	J65LS	Not Rqd.	L02	L03	12 x M12	69.6	77.1	903	1025	23	24 x M36	153	193	140	180

Every effort has been made to ensure that the information contained in this publication is accurate at the time of publishing. Crane Ltd assumes no responsibility or liability for typographical errors or omissions or for any misinterpretation of the information within the publication and reserves the right to change without notice.

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Technical Information

Viking Johnson manufacture flange adaptors to any pipe OD and flange drilling. If the product required is not shown in any of our tables please contact Viking Johnson who can provide the relevant information.

Working Pressure Rating

For Water / Wastewater applications in accordance with flange rating.

Gas 6 bar

Vacuum Pressure

Capable of accommodating a vacuum pressure of -0.7 bar

Site Test Pressure

1.5 times working pressure for short duration (2 hours)

End Load Due to Internal Pressure

Dedicated Flange Adaptors DO NOT resist end load due to the internal pressure - adequate external restraint must be provided to prevent pipe pull out from the coupling.

Tie Rods

When using tie rods to provide restraint, depending on the pipe OD & flange drilling the flange adaptor end ring may need to be notched to allow the tie rod to pass over.

The Large Diameter Flange Adaptor Technical Data (BS EN 1092-1 PN16 Drilling) Table provides details on:

- Those products that do not require notching (i.e. there is no interference between the tie rods and end ring) - indicated by "Not Rqd."
- Those products where there is interference between the tie rod and end ring and do require notching, with the number of notches provided as standard indicated.

Materials & Relevant Standards

Flange Body & End Ring

Steel to BS EN10025-2: Grade S275JR

Gaskets: L02/L03/YF2/YF3

Rubber 80 IRHD Moulded Compound to BS EN681-1: Type WA,WC,WG

BS EN682: Type G

(other materials available on request)

Gaskets: A2E/A2H/XSXG

Rubber 70 IRHD Moulded Compound to BS EN681-1: Type WA, WC, WG

BS EN682: Type G

(other materials available on request)

Tie Rod Yield Strength

The number of notches indicated assumes the use of tie rods with a minimum yield strength of 725 N/mm².

If tie rods with a lower yield strength are used, then depending on the working pressure an increased number than that specified in the table may be required; in this situation please advise Viking Johnson of the number of notches and we will accommodate your requirements.

Temperature Rating of Product

EPDM -20°C to +90°C

Nitrile -20°C to +90°C

Other Gasket Grades Contact Viking Johnson.

For use on applications with fluctuating and / or elevated temperatures (> 60°C) may require regular maintenance to re-tighten the bolts and must be included in any maintenance schedule.

Approvals

The following water contact materials used in Large Diameter Dedicated products are approved for use with potable water:-

Rilsan Nylon 11:

- WRAS, DVGW, W270, ACS & KIWA.

EPDM Gaskets:

- WRAS

In addition to the above, Large Diameter Dedicated range as a finished product has KIWA certification verifying that the above products comply with the requirements of the Water Supply (Water Fittings) Regulations for England and Wales 1999, the Water Byelaws 2000, Scotland and the Water Regulations Northern Ireland.

Coatings

Body, Flange & End Ring:

- Rilsan Nylon 11 to WIS 4-52-01 Part 1

Nuts & Studs:

- Sheraplex coated to WIS 4-52-03

Studs

Steel to BS EN ISO898-1: Property Class 4.8

Nuts

Steel to BS4190: Grade 4

Washers

Stainless Steel to BS1449:Part 2: Grade 304S15