

7043

Flange Adapter | ANSI Class 300





Always fasten the bolts to the required torque

Always use factory-supplied bolts and nuts to assemble flange segments. The use of other bolts may cause joint failure. If the factory supplied bolts cannot be used for the component that is being connected consult Shurjoint technical services for further guidance

Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

The Model 7043 flange adapter allows for a direct connection with ANSI Class 300 flanges. The specially designed gasket enables the transition from a grooved system to a flanged system or component with this single flange. 2" through 8" Model 7043 flange adapters are supplied hinged as a single assembly, while larger sizes are supplied with separate segments. The Model 7043 flange adapters are comprised of two identical ductile iron segments complete with an EPDM gasket and two pairs of bolts and nuts. The flange segments are painted black. The Model 7043 flange adapter has been designed with small projections on the outside face of the flange for mating with 1/16" (1.6 mm) raised face flanges. For mating with flat-face flanges these projections must be removed, this can be accomplished with a grinder or other tool.

For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit www.shurjoint.com for details or contact Shurjoint.

DIMENSIONS

NOMINAL CITE	DIDE O D	MAX. WORKING	MAX. END LOAD	D DIMENSIONS		SEALING SURFACE		BOLT		WEIGHT	
NOMINAL SIZE	PIPE O.D.	PRESSURE (CWP)*	(CWP)	Α	В	С	D	E	NO.	SIZE	WEIGHT
in	in	PSI	lb	in	in	in	in	in		in	lb
mm	mm	Bar	kN	mm	mm	mm	mm	mm			kg
2	2.375	750	3320	6.50	5.00	0.94	2.38	3.07	8	5/8	5.3
50	60.3	52	14.84	165	127	24	60	78			2.4
2-1/2	2.875	750	4860	7.50	5.88	1.06	2.88	3.54	8	3/4	7.9
65	73.0	52	21.75	191	149	27	73	90			3.6
3	3.500	750	7210	8.25	6.63	1.19	3.50	4.17	8	3/4	10.0
80	88.9	52	32.26	210	168	30	89	106			4.6
4	4.500	750	11920	10.00	7.95	1.31	4.50	5.20	8	3/4	17.3
100	114.3	52	53.33	254	202	33	114	132			7.8
5	5.563	750	18220	11.00	9.25	1.44	5.56	5.55	8	3/4	21.3
125	141.3	52	81.50	279	235	37	141	141			9.7
6	6.625	750	25840	12.50	10.63	1.50	6.63	7.32	12	3/4	26.9
150	168.3	52	115.62	318	270	38	168	186			12.2
8	8.625	750	43790	15.00	13.00	1.61	8.63	9.29	12	7/8	36.2
200	219.1	52	195.96	381	330	41	219	236			16.4
10	10.750	750	68030	17.68	15.25	1.89	10.75	11.61	16	1	56.9
250	273.0	52	304.23	449	387	48	273	295			25.8
12	12.750	750	95700	20.50	17.75	1.93	12.75	13.62	16	1-1/8	77.7
300	323.9	52	428.25	521	451	49	324	346			35.2

^{*} Working Pressure is based on roll grooved standard wall carbon steel pipe.

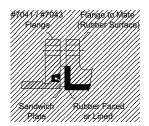


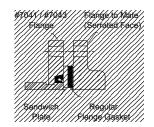
7043

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IMPORTANT NOTES

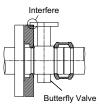
 The Model 7043 flange adapter requires a hard flat face for effective sealing. Sealing surface D is the maximum inside face requirement, sealing surface E is the minimum outside face requirement. If the mating flange face is outside these dimensions, a flange gasket and model 49 sandwich plate (Model #49, see cut sheet #V-03) must be used. With the serrated faces of some valves or rubber-faced wafer valves, the mating surface might also be inadequate and a sandwich plate must be used.



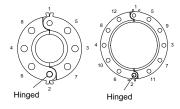


- Model 7043 flange adapter has small triangular teeth inside the key shoulder to prevent the pipe from rotating. The teeth should be ground off when mating to a rubber-lined flange.
- The Model 7043 flange adapter shall not be used as anchor points for tie-rods across non-restrained joints.

 When assembling a Model 7043 flange adapter against a butterfly valve or ball valve, make sure that the outside diameter of the flange adapters do not interfere with the valve actuator or the mounting pad of the actuator.



Bolt tightening sequence: Like a regular flange joint, it is important
to make flange faces contact parallel. Tighten nuts alternately in the
sequence of diagonally opposite pairs as shown below until the flange
faces meet and make a metal-to-metal contact. When using two model
7043 flange adapters to mate pipe, or wafer / lug valves, the hinge point
locations must be staggered 90° to each other, a model 49 sandwich
plate must be used where appropriate, and flange adapter segment
housings must remain parallel during nut tightening sequence.



MATERIAL SPECIFICATIONS HOUSING:

 Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395, Gr. 65-45-15, min. tensile strength 65,000 psi (448 MPa).

SURFACE FINISH:

- Standard painted finishes in black painted.
- Hot dip zinc galvanized (option).
- Epoxy coatings in RAL3000 red or other colors (option).

RUBBER GASKET:

Grade "E" EPDM (Color code: Green stripe)

- Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.
- Not recommended for petroleum oils, minerals oils, solvents and aromatic hydrocarbons.
- Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C).
 *EPDM gaskets for water services are not recommended for steam services.

(Option) Grade "T" Nitrile (Color code: Orange stripe)

- Recommended for petroleum products, air with oil vapors, vegetable and mineral oils within the specified temperature range. Also good for water services under +150°F (+66°C)
- Hot dip zinc galvanized (Optional). Temperature range: -20°F to +180°F (-29°C to +82°C)
- Do not use for HOT WATER above +150°F (+66°C) or HOT DRY AIR above +140°F (+60°C).

OTHER OPTIONS

Grade "O" - Fluoroelastomer

Grade "L" - Silicone

- For dry systems we recommend the use of the Shurjoint GapSeal gasket.
- · For additional details contact Shurjoint.

BOLTS & NUTS:

 Plated hex bolts conforming to ASTM A307 with hex nuts. (2 nuts and bolts are supplied). Bolts and nuts for the flange connection to be supplied by installer.



7043

Flange Adapter | ANSI Class 125/150

PERFORMANCE DATA

The following tables show the maximum working pressures (CWP) of Shurjoint Model 7043 Flange Adapter ANSI Class 300 used on both carbon steel and stainless steel pipes. Shurjoint ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket.

CARBON STEEL PIPE

NOM. SIZE	CUT-GR	OOVED	ROLL-GROOVED		
NOM. SIZE	XS	STD	STD	SCH. 10	
in	psi	psi	psi	psi	
mm	Bar	Bar	Bar	Bar	
2	750	750	750	500	
50	52	52	52	35	
2-1/2	750	750	750	500	
65	52	52	52	35	
3	750	750	750	500	
80	52	52	52	35	
4	750	750	750	500	
100	52	52	52	35	
5	750	750	750	450	
125	52	52	52	31	
6	750	750	750	450	
150	52	52	52	31	
8	750	750	750	300	
200	52	52	52	20	
10	750	750	750	300	
250	52	52	52	20	
12	750	750	750	250	
300	52	52	52	17	

STAINLESS STEEL PIPE

NOM. SIZE	CUT-GR	OOVED	ROLL-GROOVED		
NOM. SIZE	SCH. 80S	SCH. 40S	SCH. 40S	SCH. 10S	
in	psi	psi	psi	psi	
mm	Bar	Bar	Bar	Bar	
2	400	400	400	275	
50	28	28	28	19	
2-1/2	400	400	400	275	
65	28	28	28	19	
3	400	400	400	275	
80	28	28	28	19	
4	300	300	300	275	
100	20	20	20	19	
5	300	300	250	200	
125	20	20	31	14	
6	300	300	200	200	
150	20	20	14	14	
8	250	250	150	75	
200	17	17	10	5	
10	250	250	150	75	
250	17	17	10	5	
12	250	250	150	50	
300	17	17	10	3	

LISTINGS/APPROVALS

The information provided below is based on the latest listing and approval data at the time of publication. Listings/Approvals are subject to change and/or additions by the approvals agencies. Contact Shurjoint for the performance on other pipes and the latest listings and approvals

UL/CUL						
NOM SIZE	NOM. SIZE SCH 40 SCH 10					
in	psi	psi				
mm	Bar	Bar				
2	300	300				
50	20	20				
2-1/2	300	300				
65	20	20				
76.1 mm	300	300				
65	20	20				
3	300	300				
80	20	20				
4	300	300				
100	20	20				
5	300	300				
125	20	20				
6	300	300				
150	20	20				
8	300	300				
200	20	20				
10	300	300				
250	20	20				
12	300	300				
300	20	20				

FM				
NOM. SIZE	SCH 40			
in	psi			
mm	Bar			
2	300			
50	20			
2-1/2	300			
65	20			
76.1 mm	300			
65	20			
3	300			
80	20			
4	300			
100	20			
5	300			
125	20			
6	300			
150	20			
8	300			
200	20			
10	300			
250	20			
12	300			
300	20			

TORQUE VALUES

NOM. SIZE	ВС	LT		JIRED QUE
(IN)	NO	SIZE (IN)	LB-FT	NM
2	8	5/8	110 ~ 140	149 ~ 190
2-1/2	8	3/4	220 ~ 250	298 - 339
3	8	3/4	220 ~ 250	298 - 339
4	8	3/4	220 ~ 250	298 - 339
5	8	3/4	220 ~ 250	298 - 339
6	12	3/4	220 ~ 250	298 - 339
8	12	7/8	320 ~ 400	434 ~ 542
10	16	1	360 ~ 520	488 ~ 705
12	16	1-1/8	450 ~ 725	610 ~ 982

GENERAL NOTES

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606
 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint
 for additional information.
- Max. End Load is calculated based on the maximum working pressure (CWP).
- Listed and or Approved Pressures are pressure ratings for fire protection systems, tested and approved by various approval bodies. Please always refer to the latest approval data posted on the Shurjoint website.
- Field Joint Test: For one time only the system may be tested hydrostatically at 1.5 times the maximum working pressure listed (AWWA C606 5.2.3).
- · Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The 10 Year Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- · Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

