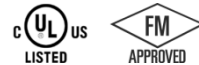



MODEL 7043 FLANGE ADAPTER - ANSI CLASS 300

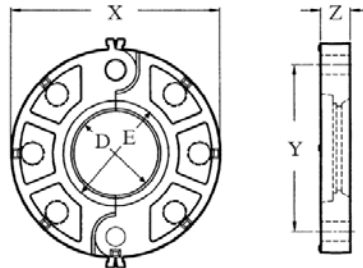
The Model 7043 flange adapter allows for a direct connection with ANSI Class 300 flanges. The specially designed gasket enables the transition from a grooved system to a flanged system or component with this single flange. 2" through 8" Model 7043 flange adapters are supplied hinged as a single assembly, 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.



 Always fasten the bolts to the required torque. Please refer to page 3.

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



Full warranty terms can be found on www.shurjoint.com

Model 7043 Flange Adapter - ANSI Class 300

Nominal Size	Pipe OD	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating [^]	Max. End Load (CWP)	Dimensions			Sealing Surface		Bolts		Weight
					X	Y	Z	D	E	No.	Size	
in mm	in mm	PSI Bar	PSI Nom. Class	Lbs kN	in mm	in mm	in mm	in mm	in mm		in	Lbs Kgs
2 50	2.375 60.3	750 52	750 300	3320 14.84	6.50 165	5.00 127	0.94 24	2.38 60	3.41 87	8	3/8	5.3 2.4
2½ 65	2.875 73.0	750 52	750 300	4860 21.75	7.50 191	5.88 149	1.06 27	2.88 73	3.91 99	8	3/4	7.9 3.6
3 80	3.500 88.9	750 52	750 300	7210 32.26	8.25 210	6.63 168	1.19 30	3.50 89	4.53 115	8	3/4	10.0 4.6
4 100	4.500 114.3	750 52	750 300	11920 53.33	10.00 254	7.95 202	1.31 33	4.50 114	5.53 140	8	3/4	17.3 7.8
5 125	5.563 141.3	750 52	750 300	18220 81.50	11.00 279	9.25 235	1.44 37	5.56 141	6.72 171	8	3/4	21.3 9.7
6 150	6.625 168.3	750 52	750 300	25840 115.62	12.50 318	10.63 270	1.50 38	6.63 168	7.78 198	12	3/4	26.9 12.2
8 200	8.625 219.1	750 52	750 300	43790 195.96	15.00 381	13.00 330	1.69 43	8.63 219	9.94 252	12	7/8	36.2 16.4
10 250	10.750 273.0	750 52	750 300	68030 304.23	17.50 445	15.25 387	1.94 49	10.75 273	12.31 313	16	1	56.9 25.8
12 300	12.750 323.9	750 52	750 300	95700 428.25	20.50 521	17.75 451	2.00 51	12.75 324	14.31 364	16	1 1/8	77.7 35.2

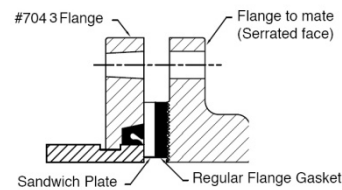
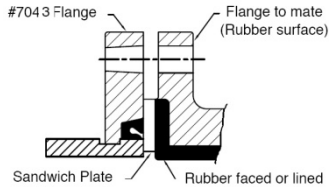
* Working Pressure is based on roll grooved standard wall carbon steel pipe.

[^] The ASME/ANSI pressure class rating is not the design or maximum pressure rating, rather is provided for those that are accustomed to specifying or using ASME/ANSI pressure class rated components such as flange, valves, etc.



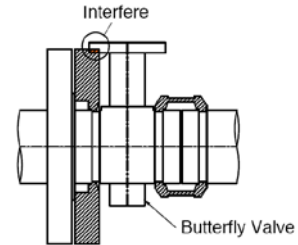
Important Notes:

1. The Model 7043 flange adapter requires a hard flat face for effective sealing. When the mating surface is not adequate as with the serrated faces of some valves or the rubber-faced wafer valves, a sandwich plate (Model #49, see cut sheet #V-03) must be used.

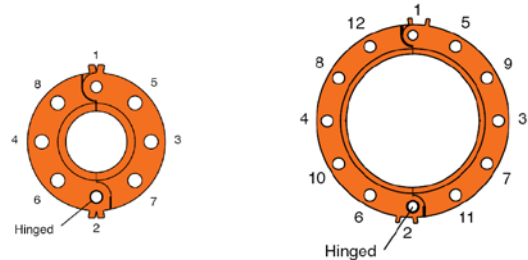


2. The Model 7043 flange adapter has small triangular teeth inside the key shoulder to prevent the pipe from rotating. The teeth should be ground off when mating to a rubber-lined flange.
3. The Models 7043 flange adapter shall not be used as anchor points for tie-rods across non-restrained joints.

4. 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.



5. 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.



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.

Model 7043 on Carbon Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	XS PSI / Bar	STD PSI / Bar	STD PSI / Bar	Sch. 10 PSI / Bar	Sch. 7 PSI / Bar
2 50	750 52	750 52	750 52	500 35	NR
2½ 65	750 52	750 52	750 52	500 35	NR
3 80	750 52	750 52	750 52	500 35	NR
4 100	750 52	750 52	750 52	500 35	NR
5 125	750 52	750 52	750 52	450 31	NR
6 150	750 52	750 52	750 52	450 31	NR
8 200	750 52	750 52	750 52	300 20	NR
10 250	750 52	750 52	750 52	300 20	NR
12 300	750 52	750 52	750 52	250 17	NR

Note: Hydrostatic shell test: 1125 psi (77 Bar) per ANSI B16.5

Model 7043 on Stainless Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
	Sch. 80S PSI / Bar	Sch. 40S PSI / Bar	Sch. 40S PSI / Bar	Sch. 10S PSI / Bar	Sch. 5S PSI / Bar
2 50	400 28	400 28	400 28	NR	NR
2½ 65	400 28	400 28	400 28	NR	NR
3 80	400 28	400 28	400 28	NR	NR
4 100	300 20	300 20	300 20	NR	NR
5 125	300 20	300 20	250 17	NR	NR
6 150	300 20	300 20	200 14	NR	NR
8 200	250 17	250 17	150 10	NR	NR
10 250	250 17	250 17	150 10	NR	NR
12 300	250 17	250 17	150 10	NR	NR

Required Bolt Torque

The table below provides the standard torque values for proper assembly of **Shurjoint** flange adapters. Use a torque wrench so that all the nuts are tightened equally with a same torque value. **Shurjoint** flange adapters are sealed with elastic (rubber) gaskets, which require much lower torques than those that utilize metallic gaskets.

Model 7043 Flange Adapter - ANSI Class 300				
Nom. Size	Bolt		Required Torque	
	in	No	Size (in)	
2	8	5/8	110 ~ 140	149 ~ 190
2½	8	¾	220 ~ 250	298 ~ 339
3	8	¾	220 ~ 250	298 ~ 339
4	8	¾	220 ~ 250	298 ~ 339
5	8	¾	220 ~ 250	298 ~ 339
6	12	¾	220 ~ 250	298 ~ 339
8	12	7/8	320 ~ 400	434 ~ 542
10	16	1	360 ~ 520	488 ~ 705
12	16	1½	450 ~ 725	610 ~ 982

MODEL 7043 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 unless couplings or components are accessible for frequent gasket replacement.

- (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). 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 additional details contact **Shurjoint**.

• Standard Hex 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.

General Notes:

- **ASME/ANSI Pressure-Temperature Rating** is provided as an aid in selecting a proper coupling to incorporate with other piping components (valves, flanges, and etc.) that are used in the same system and carry the ASME/ANSI rating. Select a Class 150 coupling to incorporate with Class 150 valves and flanges.
- **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 1½ 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.

Job Name:	System No.	Location:
Contractor:	Approved:	Date:
Engineer:	Approved:	Date:

Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.