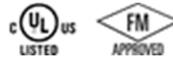


SS-41 FLANGE ADAPTER



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

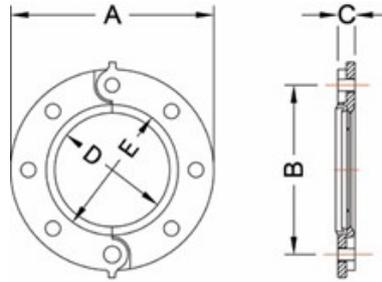
The Model SS-41 stainless steel flange adapter allows for a direct connection with ANSI Class 125/150 and PN 10/16 flanges. The specially designed gasket allows for the transition from a grooved system to a flanged system or component with a single flange. The SS-41 is investment cast in grades CF8 (304), CF8M (316) as well as the optional grades shown below. Integral closure tabs located on the flange O.D. help to facilitate alignment and assembly.

The SS-41 is not a hinged type split flange adapter. It comes with two factory supplied bolts and nuts.

material specification

- **Housing:**
 - Type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8
 - Type 316 to ASTM A743 CF8M
 - Type 316L to ASTM A743 CF3M
 - Type 316Ti to ASTM A240
 - Duplex 2205 to ASTM A890 4A.
 - Super Duplex 2507 to ASTM A890 5A.
 - Duplex 254SMO to ASTM A351 CK3McuN.
- **Rubber Gasket:**
 - Grade E-pw EPDM (Color code: Double Green stripe) certified under NSF/ANSI 61 and NSF/ANSI 372 for potable water service to +180°F (+82°C). Also good for services for water with acid, water with chlorine or chloramines, 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.
 - Other options: Grade "E" - EPDM
Grade "T" - Nitrile
Grade "O" - Fluoroelastomer.
Grade "L" - Silicone.

For additional details contact Shurjoint.



Model SS-41 Flange Adapter - ANSI 125/150

Normal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Dimensions			Sealing Surface		Bolt		Weight
				A	B	C	D	E	No.	Size	
in	in	psi	lbf	in	in	in	in	in			lbs
mm	mm	bar	kN	mm	mm	mm	mm	mm		in	kgs
2	2.375	300	1330	6.00	4.75	0.75	2.28	3.07	4	5/8 x 3	4.6
50	60.3	20	5.71	152	121	19	58	78	4	5/8 x 3	2.1
2½	2.875	300	1950	7.00	5.50	0.87	2.72	3.54	4	5/8 x 3	6.0
65	73.0	20	8.37	178	140	22	69	90	4	5/8 x 3	2.7
3	3.500	300	2880	7.52	6.00	0.94	3.35	4.17	4	5/8 x 3	6.8
80	88.9	20	12.41	191	152	24	85	106	4	5/8 x 3	3.1
4	4.500	300	4770	9.00	7.50	0.94	4.33	5.20	8	5/8 x 3	9.9
100	114.3	20	20.51	229	191	24	110	132	8	5/8 x 3	4.5
6	6.625	300	10340	11.00	9.50	1.00	6.46	7.32	8	3/4 x 3½	12.9
150	168.3	20	44.47	279	241	25	164	186	8	3/4 x 3½	5.8
8	8.625	300	17520	13.50	11.75	1.14	8.46	9.29	8	3/4 x 3½	20.2
200	219.1	20	75.37	343	298	29	215	236	8	3/4 x 3½	9.2

* The working pressure shown is based on roll-grooved Sch. 40S pipe.

Model SS-41 Flange Adapter - PN 10/16

Normal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Dimensions			Sealing Surface		Bolt		Weight
				A	B	C	D	E	No.	Size	
in	in	psi	lbf	in	in	in	in	in			lbs
mm	mm	bar	kN	mm	mm	mm	mm	mm		mm	kgs
2	2.375	300	1000	165	125	22	60	78	4	M16	4.6
50	60.3	20	4.6								2.1
6	6.625	300	7750	285	240	24	168	182	8	M20	12.9
150	168.3	20	35.6								5.8
8	8.625	300	13140	340	295	29	219	236	12	M20	20.2
200	219.1	20	60.3								9.2

* The working pressure shown is based on roll-grooved Sch. 40S pipe.

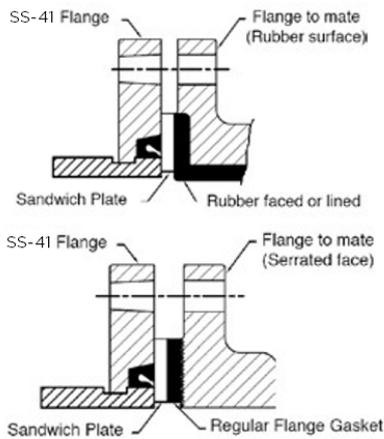
Note: 2" - 6" flange drilling to PN 10/16 and 8" and above to PN 16.

Model SS-41 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
in / mm				
2	300	300	300	275
50	20	20	20	19
2½	300	300	300	275
65	20	20	20	19
3	300	300	300	275
80	20	20	20	19
4	300	300	300	275
100	20	20	20	19
6	300	300	300	275
150	20	20	20	19
8	300	300	300	275
200	20	20	20	19

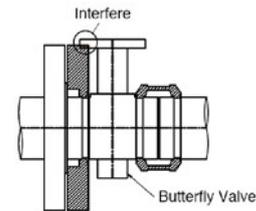
notes

1. The sealing surface of the mating flange, the area shown in the illustration between D & E shall be free from gouges, undulations, or deformities of any type to assure optimum 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 a sandwich plate 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.



2. Make sure that the bottom of the gasket (the making side) is positioned and seated against the bottom of the flange recess.
3. The Model SS-41 Flange have small triangular teeth inside the key shoulder to prevent rotating on the pipe. These teeth should be ground off prior to mating to rubber lined grooved end valve because of possible damage to the surface coating or the integrity of the pipe strength.

4. When assembling a Model SS-41 flange adapter against a butterfly valve or ball valve, make sure that the outside diameter of the flange adapters does not interfere with the valve actuator or the mounting pad of the actuator.



5. Caution: The Model SS-41 flanges shall not be used as anchor points for tie-rods across non-restrained joints. Do not use Model SS-41 flanges within 90 degrees of one another on a standard fitting when the outside dimensions cause interference. 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 SS-41 flange adapters to mate pipe, or wafer / lug valves, the two points with factory supplied bolts / nuts locations must be staggered 90° to each other, a model 49 sandwich plate should be used.

General note

- 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.