MODEL SS-41 FLANGE - ANSI 125/150

The Model SS-41 stainless steel flange allows for a direct connection with ANSI Class 125/150 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 OD help to facilitate alignment and assembly.

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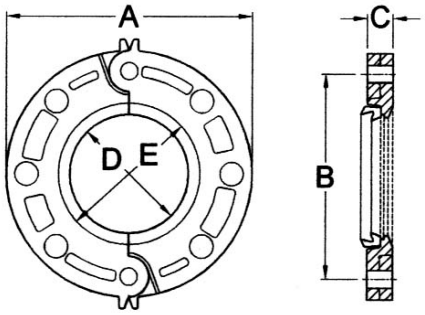
For Fire Protection pressure rating, listing, and approval information, refer to Data Sheet B-42 or visit ***SHURJOINT*** website, www.shurjoint.com for details or contact your ***SHURJOINT*** Representative.



10 YEAR LIMITED WARRANTY

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

Model SS-41 Flange - ANSI 125/150

Nominal Size	Pipe OD	Max. Working Pressure (CWP)*	ASME/ANSI Pressure Class Rating^ @100°F/@38°C	Max. End Load (CWP)	Dimensions			Sealing Surface		Bolts		Weight
					A	B	C	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*	300 *20*	300 *150*	1330 *5.71*	6.00 *152*	4.75 *121*	0.83 *21*	2.36 *60*	3.42 *87*	4	⅝ x 3	4.6 *2.1*
2½ *65*	2.875 *73.0*	300 *20*	300 *150*	1950 *8.37*	7.00 *178*	5.50 *140*	0.87 *22*	2.87 *73*	4.00 *102*	4	⅝ x 3	6.0 *2.7*
3 *80*	*3.500* *88.9*	*300* *20*	300 *150*	*2880* *12.41*	*7.50* *190*	*6.00* *152*	*0.94* *24*	*3.50* *89*	*4.56* *116*	*4*	*⅝ x 3*	*6.8* *3.1*
4 *100*	*4.500* *114.3*	*300* *20*	300 *150*	*4770* *20.51*	*9.00* *229*	*7.50* *191*	*0.94* *24*	*4.50* *114*	*5.56* *141*	*8*	*⅝ x 3*	*9.9* *4.5*
6 *150*	*6.625* *168.3*	*300* *20*	300 *150*	*10340* *44.47*	*11.00* *279*	*9.50* *241*	*1.00* *25*	*6.62* *168*	*7.79* *198*	*8*	*¾ x 3½*	*12.9* *5.8*
8 *200*	*8.625* *219.1*	*300* *20*	300 *150*	*17520* *75.37*	*13.50* *343*	*11.75* *298*	*1.12* *28*	*8.62* *219*	*10.00* *254*	*8*	*¾ x 3½*	*20.2* *9.2*

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

MODEL SS-41 NOTES

• Sealing Surface (D & E):

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.

• Gasket Insertion:

Make sure that the bottom of the gasket (the making side) is positioned and seated against the bottom of the flange recess.

• Sandwich plates:

The Model SS-41 flange requires a hard flat face for effective gasket sealing. A sandwich plate is required and should always be used when the mating surface is not adequate, as with the serrated faces of some valves or the rubber faced or rubber lined flange of a wafer valve.

• Inside teeth:

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, plastic valve or light wall pipe (Sch. 5) because of possible damage to the surface coating or the integrity of the pipe strength.

• 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.

MATERIAL SPECIFICATIONS

• 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" EPDM (Color code: Green stripe) Good for cold & hot water up to +230ºF (+110ºC). 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: -30ºF (-34ºC) to +230ºF (+110ºC)*.
*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 +150ºF (+66ºC).
  Temperature range: -20 ºF to +180 ºF (-29 ºC to +82 ºC).
  Do not use for HOT WATER above +150 ºF (+66 ºC) or HOT DRY AIR above +140 ºF (+60 ºC)

- ☐ Other options: Grade "O" Fluoroelastomer.
  Grade "L" Silicone.
  For additional details contact *Shurjoint.*

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 stainless 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.