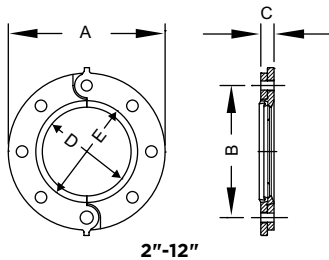


|                  |  |
|------------------|--|
| job name:        |  |
| job location:    |  |
| engineer:        |  |
| contractor:      |  |
| tag:             |  |
| po#:             |  |
| rep:             |  |
| wholesale dist.: |  |



the model SS-41 stainless steel flange adapter 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 O.D. help to facilitate alignment and assembly.

for fire protection pressure rating, listing, and approval information, refer to data sheet B-42 or visit [www.shurjoint.com](http://www.shurjoint.com) for details or contact Shurjoint.

### dimensions

| NOMINAL SIZE | PIPE O.D. | MAX. WORKING PRESSURE (CWP)* | MAX. END LOAD (CWP) | DIMENSIONS |       |      | SEATING SURFACE |      | BOLT |             | WEIGHT |
|--------------|-----------|------------------------------|---------------------|------------|-------|------|-----------------|------|------|-------------|--------|
|              |           |                              |                     | A          | B     | C    | D               | E    | No.  | SIZE        |        |
| in           | in        | PSI                          | lb                  | in         | in    | in   | in              | in   |      |             | lb.    |
| mm           | mm        | Bar                          | kN                  | mm         | mm    | mm   | mm              | mm   | No.  | in          | kg     |
| 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   |      |             | 2.1    |
| 2-1/2        | 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   |      |             | 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  |      |             | 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  |      |             | 4.5    |
| 6            | 6.625     | 300                          | 10340               | 11.00      | 9.50  | 1.00 | 6.46            | 7.32 | 8    | 3/4 x 3-1/2 | 12.9   |
| 150          | 168.3     | 20                           | 44.47               | 279        | 241   | 25   | 164             | 186  |      |             | 5.8    |
| 8            | 8.625     | 300                          | 17520               | 13.50      | 11.75 | 1.14 | 8.46            | 9.29 | 8    | 3/4 x 3-1/2 | 20.2   |
| 200          | 219.1     | 20                           | 75.37               | 343        | 298   | 29   | 215             | 236  |      |             | 9.2    |

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

### 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 mating 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 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-pw" EPDM (color code: double green stripe)

- good for cold & hot water up to +230°F (+110°C). also good for services for water with acid, water with chlorine, chloramine, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals.
- good for cold +86°F (+30°C) and hot +180°F (+82°C) potable water services. EPDM is UL classified per NSF/ANSI 61 & NSF/ANSI 372.
- **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)
- 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 additional details contact Shurjoint.

### 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.