

MODEL 7041-A FLANGE-ANSI 125/150

The Model 7041-A Flange allows for a direct connection with ANSI class 125/150 flanges. The specially designed gasket enables the transition from a grooved system to a flanged system or component with this single flange. The Model 7041-A sizes 50mm - 300 mm (2" - 12") are comprised of two identical ductile iron segments, sizes 350mm - 600 mm (14" - 24") they are comprised of four identical segments. Flanges comprised of the four segments are assembled with the supplied draw bolts. All include an EPDM rubber gasket and plated track bolts and nuts. Housing segments are supplied with our standard painted finishes, i.e. orange or RAL3000 red. Optional finishes such as hot dipped zinc galvanized and custom epoxy coatings are available.



2" through 8" Model #7041-A flanges are supplied hinged as a single assembly, while larger sizes are supplied with separate segments.

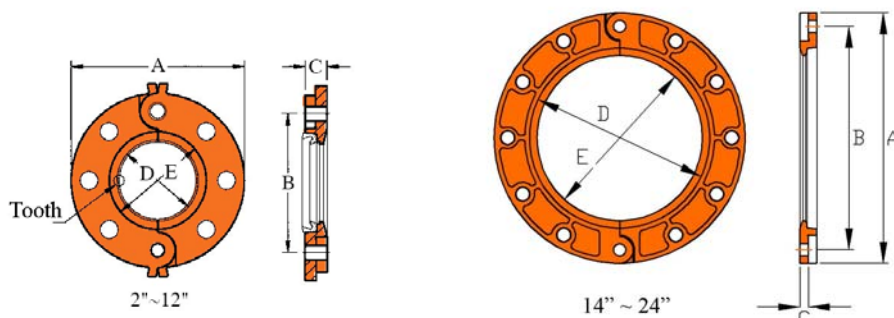
MODEL 7041-A MATERIAL SPECIFICATIONS

- **Housing:**
Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 448MPa (65,000 psi).
- **Surface Finish:**
Standard painted finishes in orange or RAL3000 red.
 - Hot dip zinc galvanized (Option).
 - Epoxy coatings in RAL3000 red or other colors (Option)
- **Rubber Gasket:**
To assure maximum life for the service intended, proper gasket selection and specification in ordering is essential. Failure to select the proper gasket compound may result in personal injury, property damage, joint leakage or joint failure.

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).
- (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 +66°C (+150°F). Temperature range: -29°C to +82°C (-20°F to +180°F). **Do not use for HOT WATER above +66°C (+150°F) or HOT DRY AIR above +60°C (+140°F)**
- 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.
- **Draw Bolts:**
Heat-treated carbon steel track bolts to ASTM A183. 350 - 600mm (14" - 24") only.

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.

MODEL 7041-A FLANGE-ANSI CLASS 125/150

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Nominal Size	Pipe OD	Max. Working Pressure	Max. End Load	Dimensions			Sealing Surface		Bolts		Weight
				A	B	C	D	E	Size	No.	
mm <i>in</i>	mm <i>in</i>	Bar <i>PSI</i>	KN <i>Lbs</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	mm <i>in</i>	in		Kgs <i>Lbs</i>
50 <i>2</i>	60.3 <i>2.375</i>	20 <i>300</i>	5.7 <i>1330</i>	152 <i>6.00</i>	121 <i>4.75</i>	19 <i>0.75</i>	60 <i>2.36</i>	87 <i>3.42</i>	5/8	4	2.0 <i>4.4</i>
65 <i>2.5</i>	73.0 <i>2.875</i>	20 <i>300</i>	8.4 <i>1950</i>	178 <i>7.00</i>	140 <i>5.50</i>	22 <i>0.87</i>	73 <i>2.87</i>	102 <i>4.00</i>	5/8	4	2.5 <i>5.5</i>
80 <i>3</i>	88.9 <i>3.500</i>	20 <i>300</i>	12.3 <i>2890</i>	190 <i>7.50</i>	152 <i>6.00</i>	24 <i>0.94</i>	89 <i>3.50</i>	116 <i>4.56</i>	5/8	4	3.4 <i>7.5</i>
100 <i>4</i>	114.3 <i>4.500</i>	20 <i>300</i>	20.5 <i>4770</i>	229 <i>9.00</i>	191 <i>7.50</i>	24 <i>0.94</i>	114 <i>4.50</i>	141 <i>5.56</i>	5/8	8	4.0 <i>8.8</i>
125 <i>5</i>	141.3 <i>5.563</i>	20 <i>300</i>	31.3 <i>7290</i>	254 <i>10.00</i>	216 <i>8.50</i>	24 <i>0.94</i>	141 <i>5.56</i>	171 <i>6.73</i>	3/4	8	4.5 <i>9.9</i>
150 <i>6</i>	168.3 <i>6.625</i>	20 <i>300</i>	44.5 <i>10340</i>	279 <i>11.00</i>	241 <i>9.50</i>	25 <i>1.00</i>	168 <i>6.62</i>	198 <i>7.79</i>	3/4	8	5.5 <i>12.1</i>
200 <i>8</i>	219.1 <i>8.625</i>	20 <i>300</i>	75.3 <i>17520</i>	343 <i>13.50</i>	298 <i>11.75</i>	28 <i>1.12</i>	219 <i>8.62</i>	254 <i>10.00</i>	3/4	8	8.0 <i>17.6</i>
250 <i>10</i>	273.0 <i>10.750</i>	20 <i>300</i>	117.0 <i>27210</i>	406 <i>16.00</i>	362 <i>14.25</i>	30 <i>1.18</i>	273 <i>10.75</i>	308 <i>12.12</i>	7/8	12	13.8 <i>30.4</i>
300 <i>12</i>	323.9 <i>12.750</i>	20 <i>300</i>	164.7 <i>38280</i>	482 <i>19.00</i>	432 <i>17.00</i>	32 <i>1.25</i>	324 <i>12.75</i>	359 <i>14.13</i>	7/8	12	19.0 <i>41.8</i>
350 <i>14</i>	355.6 <i>14.000</i>	20 <i>300</i>	198.5 <i>46160</i>	533 <i>21.00</i>	476 <i>18.75</i>	36 <i>1.42</i>	382 <i>15.04</i>	351 <i>13.82</i>	1	12	30.2 <i>66.5</i>
400 <i>16</i>	406.4 <i>16.000</i>	20 <i>300</i>	259.2 <i>60290</i>	597 <i>23.50</i>	540 <i>21.25</i>	38 <i>1.50</i>	430 <i>16.93</i>	402 <i>15.83</i>	1	16	39.8 <i>87.6</i>
450 <i>18</i>	457.2 <i>18.000</i>	20 <i>300</i>	328.2 <i>76300</i>	635 <i>25.50</i>	578 <i>22.75</i>	40 <i>1.56</i>	486 <i>19.14</i>	452 <i>17.80</i>	1-1/8	16	42.8 <i>94.2</i>
500 <i>20</i>	508.0 <i>20.000</i>	20 <i>300</i>	405.2 <i>94200</i>	699 <i>27.50</i>	635 <i>25.00</i>	43 <i>1.60</i>	537 <i>21.15</i>	504 <i>19.83</i>	1-1/8	20	50.6 <i>111.4</i>
600 <i>24</i>	609.6 <i>24.000</i>	20 <i>300</i>	583.5 <i>135650</i>	813 <i>32.00</i>	749 <i>29.50</i>	48 <i>1.89</i>	635 <i>25.0</i>	602 <i>23.70</i>	1-1/4	20	71.8 <i>157.9</i>

MODEL 7041-A 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 7041 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 7041 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 7041 flanges shall not be used as anchor points for tie-rods across non-restrained joints. Do not use Model 7041 flanges within 90 degrees of one another on a standard fitting when the outside dimensions cause interference.

General Notes:

- Pressure ratings listed are CWP (cold water pressure) or maximum working pressure within the service temperature range of the gasket used in the coupling. This rating may occasionally differ from maximum working pressures listed and/or approved by cULus and/or FM as testing conditions and test pipes differ. For additional information contact *Shurjoint*.
- Maximum working pressures and end loads listed are total of internal and external pressures and loads based on Sch. 40 steel pipe with roll grooves to ANSI/AWWA C606-04 specifications. For information on other pipe schedules contact *Shurjoint*.
- **For one time field test only** the maximum joint working pressure may be increased 1-1/2 times the figures shown.
- **Warning:** Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- *Shurjoint* reserves the right to change specifications, designs and or standard equipment without notice and without incurring any obligations.