

MODEL Z05 RIGID COUPLING

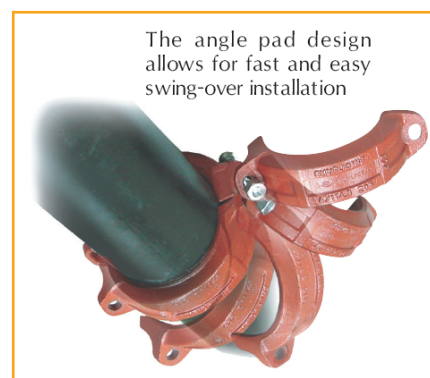
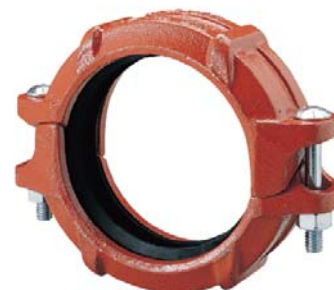
- Angle-Pad Design -

The **Shurjoint** Model Z05 is an angle-pad design rigid coupling for moderate pressure piping services including fire mains, long straight runs and valve connections. The angle-pad design allows the coupling housings to slide along the bolt pads when tightened. The result is an offset clamping action which provides a rigid joint which resists so called 'snaking' of a long straight run. Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13. With the removal of only one bolt you can make a fast and easy "swing-over" installation.

The **Shurjoint** Model Z05 is available with a standard "C" shaped or **GapSeal®** gasket in a variety grades to meet your specific service requirements.

Sizes available: 32mm ~ 200mm / 1-1/4" ~ 8"

Working Pressure: Up to 24 bar / 350 psi



MODEL Z05 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 (Optional).
- Epoxy Coatings in RAL3000 red or other colors (Optional)

• 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).

- (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 dry systems we recommends the use of the **Shurjoint** Gap Seal gasket.

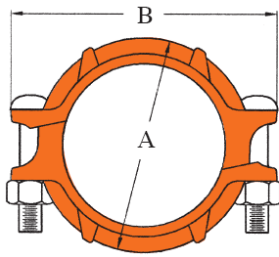
For additional details contact **Shurjoint**.

• Bolts & Nuts:

Heat treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 758 MPa (110,000 psi), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

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 Z05 RIGID COUPLING


Model Z05 Rigid Coupling										
Nominal Size	Pipe OD	Max. Working Pressure	Max End Load	Axial displacement	Dimension			Bolt Size	Weight	
					A	B	C			
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>	No.	Kgs <i>Lbs</i>	
32 <i>1.25</i>	42.2 <i>1.660</i>	24 <i>350</i>	3.37 <i>755</i>	0 - 1.2 <i>0 - 0.05</i>	66 <i>2.60</i>	102 <i>4.00</i>	46 <i>1.81</i>	2 <i>3/8 x 2-1/8</i>	0.6 <i>1.4</i>	
40 <i>1.5</i>	48.3 <i>1.900</i>	24 <i>350</i>	4.42 <i>990</i>	0 - 1.2 <i>0 - 0.05</i>	72 <i>2.83</i>	109 <i>4.29</i>	46 <i>1.81</i>	2 <i>3/8 x 2-1/8</i>	0.7 <i>1.5</i>	
50 <i>2</i>	60.3 <i>2.375</i>	24 <i>350</i>	6.90 <i>1550</i>	0 - 1.7 <i>0 - 0.07</i>	85 <i>3.35</i>	117 <i>4.61</i>	47 <i>1.85</i>	2 <i>3/8 x 2-3/4</i>	0.8 <i>1.7</i>	
65 <i>2.5</i>	73.0 <i>2.875</i>	24 <i>350</i>	10.11 <i>2270</i>	0 - 1.7 <i>0 - 0.07</i>	98 <i>3.86</i>	132 <i>5.20</i>	47 <i>1.85</i>	2 <i>3/8 x 2-3/4</i>	0.9 <i>2.1</i>	
65 <i>2.5</i>	76.1 <i>3.000</i>	24 <i>350</i>	11.01 <i>2475</i>	0 - 1.7 <i>0 - 0.07</i>	100 <i>3.94</i>	136 <i>5.35</i>	47 <i>1.85</i>	2 <i>3/8 x 2-3/4</i>	1.0 <i>2.2</i>	
80 <i>3</i>	88.9 <i>3.500</i>	24 <i>350</i>	14.99 <i>3365</i>	0 - 1.7 <i>0 - 0.07</i>	113 <i>4.45</i>	148 <i>5.83</i>	48 <i>1.88</i>	2 <i>3/8 x 2-3/4</i>	1.2 <i>2.6</i>	
100 <i>4</i>	108.0 <i>4.250</i>	24 <i>350</i>	22.11 <i>4963</i>	0 - 4.1 <i>0 - 0.16</i>	142 <i>5.59</i>	176 <i>6.93</i>	54 <i>2.13</i>	2 <i>3/8 x 2-3/4</i>	1.6 <i>3.6</i>	
100 <i>4</i>	114.3 <i>4.500</i>	24 <i>350</i>	24.77 <i>5565</i>	0 - 4.1 <i>0 - 0.16</i>	146 <i>5.75</i>	182 <i>7.17</i>	53 <i>2.09</i>	2 <i>3/8 x 2-3/4</i>	1.9 <i>4.1</i>	
125 <i>5</i>	133.0 <i>5.250</i>	20 <i>300</i>	28.91 <i>6491</i>	0 - 4.1 <i>0 - 0.16</i>	170 <i>6.69</i>	224 <i>8.82</i>	54 <i>2.13</i>	2 <i>1/2 x 3</i>	2.3 <i>5.1</i>	
125 <i>5</i>	139.7 <i>5.500</i>	20 <i>300</i>	31.72 <i>7125</i>	0 - 4.1 <i>0 - 0.16</i>	173 <i>6.81</i>	227 <i>8.94</i>	53 <i>2.09</i>	2 <i>1/2 x 3</i>	2.6 <i>5.7</i>	
125 <i>5</i>	141.3 <i>5.563</i>	20 <i>300</i>	32.45 <i>7290</i>	0 - 4.1 <i>0 - 0.16</i>	175 <i>6.89</i>	229 <i>9.02</i>	53 <i>2.09</i>	2 <i>1/2 x 3</i>	2.6 <i>5.7</i>	
150 <i>6</i>	159.0 <i>6.250</i>	20 <i>300</i>	40.98 <i>9199</i>	0 - 4.1 <i>0 - 0.16</i>	198 <i>7.80</i>	250 <i>9.84</i>	54 <i>2.13</i>	2 <i>1/2 x 3</i>	2.8 <i>6.1</i>	
150 <i>6</i>	165.1 <i>6.500</i>	20 <i>300</i>	44.30 <i>9955</i>	0 - 4.1 <i>0 - 0.16</i>	200 <i>7.87</i>	246 <i>9.69</i>	54 <i>2.13</i>	2 <i>1/2 x 3</i>	3.1 <i>6.8</i>	
150 <i>6</i>	168.3 <i>6.625</i>	20 <i>300</i>	46.02 <i>10340</i>	0 - 4.1 <i>0 - 0.16</i>	203 <i>8.00</i>	249 <i>9.80</i>	54 <i>2.13</i>	2 <i>1/2 x 3</i>	3.1 <i>6.8</i>	
200 <i>8</i>	219.1 <i>8.625</i>	20 <i>300</i>	78.00 <i>17525</i>	0 - 4.8 <i>0 - 0.19</i>	264 <i>10.40</i>	330 <i>12.99</i>	64 <i>2.52</i>	2 <i>5/8 x 5-5/16</i>	6.1 <i>13.4</i>	
200 JIS <i>8</i>	216.3 <i>8.516</i>	20 <i>300</i>	76.08 <i>17079</i>	0 - 4.8 <i>0 - 0.19</i>	260 <i>10.24</i>	340 <i>13.39</i>	64 <i>2.50</i>	2 <i>3/4 x 4-3/4</i>	7.4 <i>16.2</i>	

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.