



Ensure coupling bolt pads  
make metal-to-metal contact.

Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

The Shurjoint Model Z07N is an angle-pad design rigid coupling for general piping applications where rigidity is required including valve connections, mechanical rooms, fire mains and long straight runs. 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 that resists flexural and torsional loads. Model Z07N is a two-segment coupling which is available in sizes 14"-24". Support and hanging requirements correspond to ANSI B31.1, B31.9 and NFPA 13.

The Shurjoint Model Z07N is available with a standard "C" shaped or GapSeal gasket in a variety of grades to meet your specific service requirements.

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)	AXIAL DISPLACEMENT †	DIMENSIONS			BOLT		WEIGHT
					A	B	C	NO.	SIZE	
in	in	PSI	lb	in	in	in	in	in	lb	
mm	mm	Bar	kN	mm	mm	mm	mm	mm	kg	
14	14.000	250	38460	0-0.13	16.06	20.00	2.95	2	7/8 x 5-1/2	35.3
350	355.6	17	168.75	0-3.2	408	508	75		-	16.0
16	16.000	250	50240	0- 0.13	18.39	22.05	2.95	2	7/8 x 5-1/2	30.5
400	406.4	17	220.41	0-3.2	467	660	75		-	17.9
18	18.000	250	63580	0-0.13	20.68	24.29	3.11	2	7/8 x 5-1/2	40.1
450	457.2	17	278.95	0-3.2	525	617	79		-	22.3
20	20.000	250	78500	0-0.13	22.93	27.99	3.00	2	1 x 5-1/2	57.8
500	508.0	17	344.39	0-3.2	582	711	76		-	26.2
24	24.000	250	113040	0-0.13	27.05	30.55	3.06	2	1 x 5-1/2	70.8
600	609.6	17	495.92	0-3.2	687	776	78		-	32.1

\* Working Pressure is based on roll grooved standard wall carbon steel pipe.

† Allowable Axial Displacement and Angular Movement (deflection) figures are for roll grooved standard steel pipe. Values for cut grooved pipe will be double that of roll grooved. These values are maximums; for design and installation purposes these figures should be reduced by: 50% for 3/4" - 3-1/2"; 25% for 4" and larger to compensate for jobsite conditions.

## MATERIAL SPECIFICATIONS

### HOUSING:

- Ductile Iron to ASTM A536, Gr. 65-45-12 and or ASTM A395 Gr.65-45-15, min. tensile strength 65,000 psi (448 MPa).

### 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:

- **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).  
\*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)
- 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 dry systems we recommend the use of the Shurjoint GapSeal 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 110,000 psi (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

## 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.