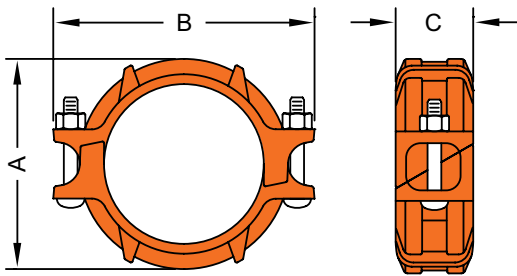




Ensure coupling bolt pads make metal-to-metal contact.

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



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 type 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 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
1-1/4	1.660	500	1080	0-0.05	2.60	4.00	1.81	2	3/8 x 2-1/8	1.41
32	42.2	35	4.89	0-1.2	66	102	46		M10 x 55	0.64
1-1/2	1.900	500	1410	0-0.05	2.83	4.29	1.81	2	3/8 x 2-1/8	1.46
40	48.3	35	6.41	0-1.2	72	109	46		M10 x 55	0.66
2	2.375	500	2210	0-0.07	3.35	4.61	1.85	2	3/8 x 2-3/4	1.74
50	60.3	35	9.99	0-1.7	85	117	47		M10 x 70	0.79
2-1/2	2.875	500	3240	0-0.07	3.86	5.24	1.85	2	3/8 x 2-3/4	2.05
65	73.0	35	14.64	0-1.7	98	133	47		M10 x 70	0.93
76.1 mm	3.000	500	3530	0-0.07	3.94	5.35	1.85	2	3/8 x 2-3/4	2.16
	76.1	35	15.91	0-1.7	100	136	47		M10 x 70	0.98
3	3.500	500	4800	0-0.07	4.45	5.91	1.88	2	1/2 x 3	2.60
80	88.9	35	21.71	0-1.7	113	150	48		M12 x 75	1.20
108.0 mm	4.250	500	7080	0-0.16	5.59	6.93	2.13	2	1/2 x 3	3.62
	108.0	35	32.05	0-4.1	142	176	54		M12 x 75	1.64
4	4.500	500	7940	0-0.16	5.75	7.20	2.13	2	1/2 x 3	4.12
100	114.3	35	35.89	0-4.1	146	183	54		M12 x 75	1.87
133.0 mm	5.250	350	7570	0-0.16	6.69	8.82	2.13	2	1/2 x 3	5.14
	133.0	24	33.33	0-4.1	170	224	54		M12 x 75	2.33
139.7 mm	5.500	350	8310	0-0.16	6.81	8.98	2.09	2	1/2 x 3	5.67
	139.7	24	36.77	0-4.1	173	228	53		M12 x 75	2.57
5	5.563	350	8500	0-0.16	6.89	9.06	2.13	2	1/2 x 3	5.69
125	141.3	24	37.62	0-4.1	175	230	54		M12 x 75	2.58
159.0 mm	6.250	350	10730	0-0.16	7.80	9.84	2.09	2	1/2 x 3	6.06
	159.0	24	47.63	0-4.1	198	250	53		M12 x 75	2.75
165.1 mm	48	350	11600	0-0.16	7.87	9.92	2.09	2	1/2 x 3	6.72
	165.1	24	51.35	0-4.1	200	252	53		M12 x 75	3.05
6	6.625	350	12050	0-0.16	8.00	10.00	2.09	2	1/2 x 3	6.77
150	168.3	24	53.36	0-4.1	203	254	53		M12 x 75	3.07
8	8.625	350	20430	0-0.19	10.40	12.68	2.52	2	5/8 x 5-5/16	13.38
200	219.1	24	90.44	0-4.8	264	322	64		M15 x 135	6.07
200 JIS	8.516	350	19920	0-0.19	10.24	13.35	2.50	2	3/4 x 4-3/4	15.43
	216.3	24	88.14	0-4.8	260	339	64		M20 x 120	7.00

* 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 (optional).
- Epoxy Coatings in RAL3000 red or other colors (optional)

RUBBER GASKET:

Grade "Lube-E" (E-A) (Color code: Violet stripe)

- UL approved pre-lubricated gasket designed specifically for the fire protection industry.
- Maximum Temperature Range: Ambient

OTHER OPTIONS

GapSeal E-A* (without prelubrication).

- Maximum Temperature Range: Ambient

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.

For dry fire systems, we recommend GapSeal E-A gasket (listed under other options)

For additional details or questions contact Shurjoint.

PERFORMANCE DATA

The following tables show the maximum working pressures (CWP) of Shurjoint Model Z05 Rigid Coupling used on both carbon steel and stainless steel pipes. Shurjoint ductile iron couplings can be used in conjunction with stainless steel pipe in non-corrosive environment as the flow media does not come in direct contact with the coupling housings but rather only the gasket.

CARBON STEEL PIPE

NOM. SIZE	CUT-GROOVED		ROLL-GROOVED		
	XS	STD	STD	SCH. 10	SCH. 7
in	psi	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar	Bar
1-1/4	600	600	500	400	250
32	42	42	35	28	17
1-1/2	600	600	500	400	250
40	42	42	35	28	17
2	600	600	500	400	250
50	42	42	35	28	17
2-1/2	600	600	500	400	250
65	42	42	35	28	17
3	600	600	500	400	250
80	42	42	35	28	17
4	600	600	500	400	200
100	42	42	35	28	14
5	450	450	350	300	175
125	31	31	24	20	12
6	450	450	350	300	175
150	31	31	24	20	12
8	450	450	350	300	150
200	31	31	24	20	10

STAINLESS STEEL PIPE

NOM. SIZE	CUT-GROOVED		ROLL-GROOVED		
	SCH. 80S	SCH. 40S	SCH. 40S	SCH. 10S	SCH. 5S
in	psi	psi	psi	psi	psi
mm	Bar	Bar	Bar	Bar	Bar
1-1/4	600	600	450	300	250
32	42	42	31	20	17
1-1/2	600	600	450	300	250
40	42	42	31	20	17
2	600	600	450	300	250
50	42	42	31	20	17
2-1/2	600	600	450	300	250
65	42	42	31	20	17
3	600	600	450	300	250
80	42	42	31	20	17
4	600	600	450	300	200
100	42	42	31	20	14
5	450	450	300	200	NR
125	31	31	20	14	
6	450	450	300	125	NR
150	31	31	20	9	
8	450	450	300	100	NR
200	31	31	20	7	

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.