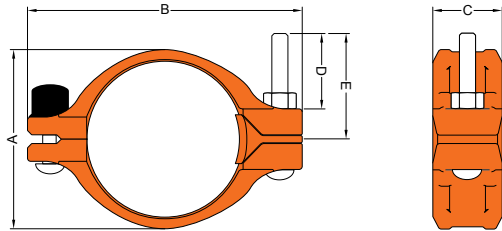


quick install coupling (QIC)  
rigid mechanical



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



ANSI/NSF/CAN 61

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

the Shurjoint model M07 is a ready to install rigid coupling for general piping applications where rigidity is required including valve connections, mechanical rooms, risers and long straight runs. this proprietary design provides a rigid joint that resists flexural and torsional loads. support and hanging requirements corresponding to ANSI B31.1. B31.9 and NFPA 13.

the Shurjoint model M07 is available with a proprietary EPDM gasket, which includes a GapSeal and a center leg feature to support the coupling during installation. the M07 includes two identical housing segments and a fully constrained wedge. proper installation requires the tightening of only one bolt/nut. as this bolt/nut is tightened, the wedge applies uniform compression to the gasket, reducing the chance of pinching. the hinge bolt/nut is factory pre-set and requires no adjustment.

patent pending

## dimensions

NOMINAL SIZE	PIPE O.D.	MAX. WORKING PRESSURE (CWP*)	MAX. END LOAD (CWP)	MAX. END GAP+	DIMENSIONS					BOLT SIZE	WEIGHT
					A	B	C	D	E		
in	in	PSI	lb	in	in	in	in	in	in	in	lb
mm	mm	Bar	kN	mm	mm	mm	mm	mm	mm	mm	kg
2	2.375	750	3340	.25	3.36	5.58	1.90	2.09	2.95	1/2 x 3.8	2.9
50	60.3	52	14.84	6.35	85	142	48	53	75	M12 x 97	1.3
2-1/2	2.875	750	4890	.25	3.80	6.29	1.90	2.09	2.95	1/2 x 3.8	3.3
65	73.0	52	21.75	6.35	97	160	48	53	75	M12 x 97	1.5
3	3.500	750	7250	.25	4.42	7.10	1.90	2.09	2.95	1/2 x 3.8	3.8
80	88.9	52	32.26	6.35	112	180	48	53	75	M12 x 97	1.7
4	4.500	750	11990	.25	5.44	8.35	2.11	1.97	2.91	1/2 x 3.8	5.1
100	114.3	52	53.33	6.35	138	212	54	50	74	M12 x 97	2.3
5	5.563	750	17900	.25	6.73	9.84	2.13	2.17	3.09	5/8 x 4.0	7.7
125	141.3	52	79.66	6.35	171	250	54	55	79	M16 x 102	3.5
6	6.625	700	24000	.25	7.77	10.90	2.11	2.17	3.11	5/8 x 4.0	8.4
150	168.3	48	106.73	6.35	197	277	54	55	79	M16 x 102	3.8
8	8.625	600	35580	.25	10.74	13.79	2.52	2.46	3.43	3/4 x 4.7	17.4
200	219.1	42	158.27	6.35	273	350	64	62	87	M20 x 120	7.9

quick install coupling (QIC)  
rigid mechanical

**material specifications**

**housing:**

- ductile iron ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).
- ASTM A395 Gr. 65-45-15 (on special request)

**surface finish:**

- standard painted finishes in orange or RAL3000 red.
- hot dip zinc galvanized (Option).

**rubber gasket:**

**grade "EHM" EPDM (color code: red and green stripes)**

- good for cold and hot water up to +250°F (121°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 +250°F (+121°C).
- \*EPDM gaskets for water services are not recommended for steam services.
- certified to ANSI/NSF/CAN 61 for cold +73°F/+23°C and hot +180°F/+82°C potable water service.

**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.
- standard deep well sockets are required for assembly.

COUPLING SIZES	BOLT SIZE	SOCKET SIZE
2", 2.5", 3", 4"	1/2-13 M12	7/8" 19mm
6"	5/8-11 M16	1-1/16" 24mm
8"	3/4-10 M20	1-1/4" 30mm

**performance data**

the following table show the maximum working pressures (CWP) of Shurjoint model MO7 coupling used on carbon steel and stainless steel.

**carbon steel pipe**

NOMINAL SIZE	CUT-GROOVED		ROLL-GROOVED	
	XS	STD	STD	SCH. 10
in mm	psi Bar	psi Bar	psi Bar	psi Bar
2	750	750	750	750
50	52	52	52	52
2-1/2	750	750	750	600
65	52	52	52	42
3	750	750	750	600
80	52	52	52	42
4	750	750	750	600
100	52	52	52	42
5	750	750	750	500
125	52	52	52	35
6	700	700	700	500
150	48	48	48	35
8	600	600	600	300
200	42	42	42	20

**stainless steel pipe**

NOMINAL SIZE	CUT-GROOVED		ROLL-GROOVED	
	XS	STD	STD	SCH. 10
in mm	psi Bar	psi Bar	psi Bar	psi Bar
2	600	600	600	300
50	42	42	42	21
2-1/2	600	600	600	300
65	42	42	42	21
3	600	600	600	300
80	42	42	42	21
4	600	600	600	300
100	42	42	42	21
5	600	600	600	300
125	42	42	42	20
6	600	600	600	300
150	42	42	42	21
8	400	400	400	150
200	28	28	28	10

**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).
- 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.