

## SD-28A SHOULDERED TOGGLE COUPLING

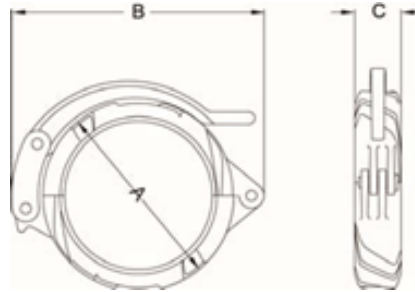


The Shurjoint Model SD-28A coupling is designed to connect shouldered-end pipe with Type A rings for services where frequent assembly and disassembly is desired or required. The housing segments are hinged with a lever handle for easy installation. The use of a split pin prevents accidental opening of the couplings. The housing segments are made of ductile iron to ASTM A536 Gr. 65-45-12 and are normally supplied in hot dip galvanized. The standard rubber gasket is Grade T Nitrile.

For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website [www.shurjoint.com](http://www.shurjoint.com) for details or contact your SHURJOINT representatives.

### material specification

- **Housing:**  
Ductile Iron to ASTM A536 Gr. 65-45-12, min. tensile strength 65,000 psi (448 Mpa).
- **Surface Finish:**  
Standard finish is hot dipped zinc galvanized.
  - (Option) Black electro-deposition coated.
  - (Option) Painted orange or RAL3000 red.
  - (Option) Epoxy Coatings in RAL3000 red or other colors
- **Rubber Gasket:**  
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).  
For additional details contact Shurjoint.
- **Locking Lever Handle:**  
Ductile Iron to ASTM A536 Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).
- **Toggle Links:**  
Plated carbon steel plate to ANSI C-1010 or C-1020.
- **Hinge Pin:**  
Casehardened carbon steel to ANSI C-1212.
- **Rivet:**  
Carbon steel to AISI C-1010.
- **Split Pin:**  
Carbon steel wire rod to ASTM A421.



Model SD-28A Shouldered Toggle Coupling

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Allowable Pipe End Separation (E)	Deflection	Weight
			A	B	C			
in	in	psi	in	in	in	in	(°)	lbs
mm	mm	bar	mm	mm	mm	mm		kg
2	2.375	400	39.32	4.43	1.93	0.125		2.8
50	60.3	28	86.5	112.5	49	3.2	2° - 43'	1.3
3	3.500	400	4.96	6.46	1.93	0.125		4.4
80	88.9	28	126.0	164.0	49	3.2	1° - 53'	2
4	4.500	400	6.30	8.43	2.05	0.125		6.6
100	114.3	28	160.0	214.0	52	3.2	1° - 29'	3
165.1	6.500	400	8.43	11.14	2.05	0.125		6.5
	165.1	28	214.0	283.0	52	3.2	1° - 2'	4.3
6	6.625	400	8.54	11.10	2.05	0.125		9.9
150	168.3	28	217.0	282.0	52	3.2	1° - 1'	4.5
8	8.625	400	10.95	14.17	2.36	0.125		18.3
200	219.1	28	278.0	360.0	60	3.2	0° - 47'	8.3

\*Working pressure is based on standard wall carbon steel pipe.

### General note

- 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 1½ 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.