

G28 HINGED LEVER COUPLING



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website www.shurjoint.com for details or contact your SHURJOINT representatives.

The Model G28 Hinged Grooved Coupling is designed for quick connect and disconnect services. The housing segments are hinged with a lever handle for easy assembly. The use of the split pin can secure and prevent the accidental opening of the coupling. The Model G28 can be used in a wide variety of applications with standard rolled or cut grooved pipe. Housings 1½" - 4" (40 mm - 100 mm) feature a smooth outer surface, housings 5" - 10" (125 mm - 250 mm) feature a cross-ribbed design for added strength.

Standard gasket: Grade "E" EPDM or Grade "T" Nitrile.
Standard surface finish: Black electro-deposition coated.

material specification

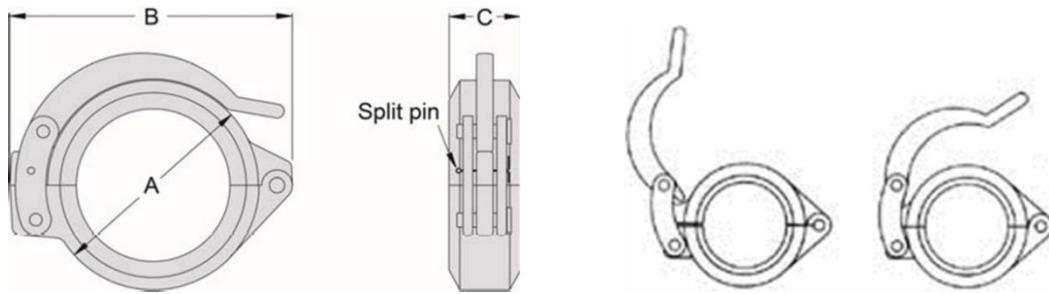
- **Housing:**
Ductile Iron to ASTM A536, Gr. 65-45-12, min. tensile strength 65,000 psi (448 MPa).
- **Surface Finish:**
Standard finish is black electro-deposition coated.
 - Hot dip zinc galvanized (Option).
- **Rubber Gasket:**
Grade "E" EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). Also good for services for water with acid, water with chlorine or chloramines, 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.

- Other options: Grade "T" - Nitrile
Grade "O" - Fluoroelastomer.
Grade "L" - Silicone.

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.



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

Model G28 Hinged Lever Coupling

Normal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Max. End Load (CWP)	Axial Displacement†	Angular Movement/Deflection***	Dimensions			Weight
						A	B	C	
in	in	psi	lbf	in	Degrees (°)	in	in	in	lbs
mm	mm	bar	kN	mm		mm	mm	mm	kg
1½	1.900	300	850	0 - 0.06	1° - 54'	2.95	4.65	1.85	2.2
40	48.3	20	3.66	0 - 1.6		75	118	47	1.0
2	2.375	300	1320	0 - 0.06	1° - 45'	3.43	5.08	1.85	2.4
50	60.3	20	5.71	0 - 1.6		87	129	47	1.1
2½	2.875	300	1940	0 - 0.06	1° - 15'	3.94	5.63	1.85	3.1
65	73.0	20	8.37	0 - 1.6		100	143	47	1.4
76.1	3.000	300	2120	0 - 0.06	1° - 12'	4.06	5.67	1.85	3.1
	76.1	20	9.09	0 - 1.6		103	144	47	1.4
3	3.500	300	2880	0 - 0.06	1° - 12'	4.69	6.46	1.85	4.0
80	88.9	20	12.41	0 - 1.6		119	164	47	1.7
4	4.500	300	4760	0 - 0.13	1° - 36'	5.98	7.95	2.05	5.9
100	114.3	20	20.51	0 - 3.2		152	202	52	2.7
139.7	5.500	300	7120	0 - 0.13	1° - 18'	6.97	9.80	2.05	10.8
	139.7	20	30.64	0 - 3.2		177	249	52	4.9
5	5.563	300	7280	0 - 0.13	1° - 18'	7.05	10.00	2.05	10.8
125	141.3	20	31.35	0 - 3.2		179	254	52	4.9
165.1	6.500	300	9950	0 - 0.13	1° - 07'	7.80	10.87	2.05	13.2
	165.1	20	42.80	0 - 3.2		198	276	52	6.0
6	6.625	300	10330	0 - 0.13	1° - 05'	8.11	11.02	2.05	13.2
150	168.3	20	44.47	0 - 3.2		206	280	52	6.0
8	8.625	300	17510	0 - 0.13	0° - 50'	10.08	13.58	2.44	15.2
200	219.1	20	75.37	0 - 3.2		256	345	62	6.9
10	10.750	300	27210	0 - 0.13	0° - 40'	12.68	17.48	2.60	36.1
250	273.0	20	117.01	0 - 3.2		322	444	66	16.4

* 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 ¾" - 3½"; 25% for 4" and larger to compensate for jobsite conditions.


** Deflection or angular movement given is the maximum value that a coupling allows. When using the given maximum angles for a curved layout, proper bracing should be used to counter pressure thrust that will occur when the system is pressurized.

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Flexible couplings can be used for angular movement and or thermal expansion, though please note individual coupling(s) cannot be used to their maximums for both types of movement within a system at the same time.

Expansion pipe

Lever handles are factory assembled tight for safety. The use of an expansion pipe will be of help for an easy opening or closing. Expansion pipes are available upon request

Expansion Pipe size	Applicable Coupling Sizes	
1/2" x 6"	1 1/2" ~4"	
3/4" x 8"	5" ~ 8"	

(You can easily make your expansion pipe simply by cutting sch. 40 1/2" or 3/4" pipe to a proper length)



Warning:

Lever handle couplings are not recommended for services where excessive shock-loads are present, as often occur in some concrete pumping applications. When the Model G28 is used in concrete pumping applications, sound support and bracing practices should always be in effect. All couplings and components should be regularly inspected to ensure they are in good working condition and that the pipe grooves, coupling keys, and gasket are free of any concrete or foreign material.

For concrete pumping applications we recommend the *Shurjoint* Model S58 shoulder coupling and *Shurjoint* Model S10 abrasion resistant 90° elbow.

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 1 1/2 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.