

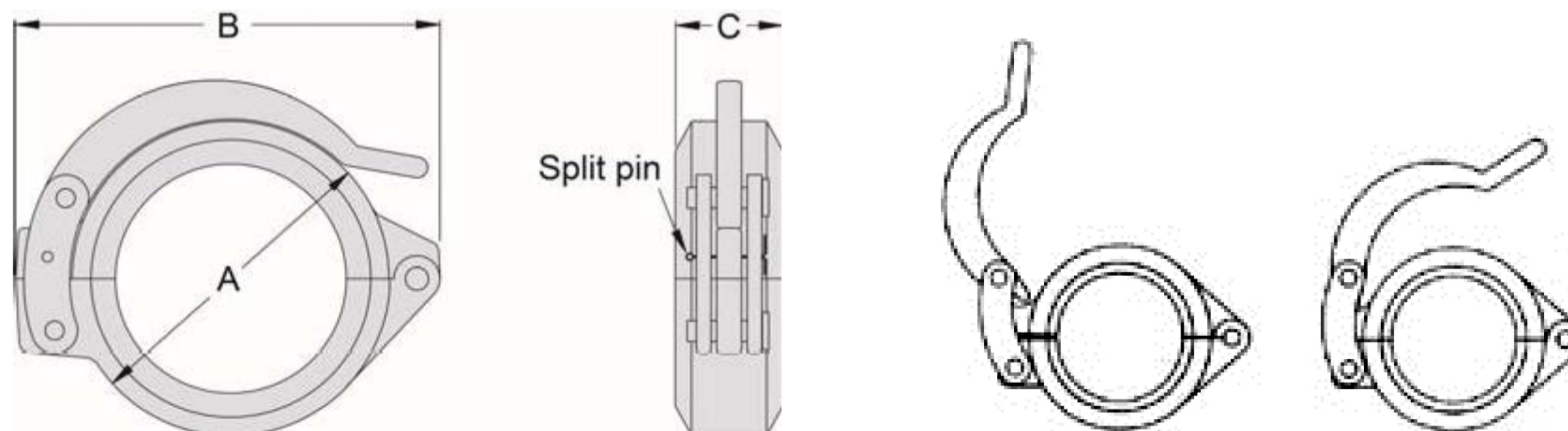
## MODEL G28 HINGED LEVER COUPLING

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.



**10  
YEAR  
LIMITED  
WARRANTY**

Full warranty terms can be found on [www.shurjoint.com](http://www.shurjoint.com)

### Model G28 Hinged Lever Coupling

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

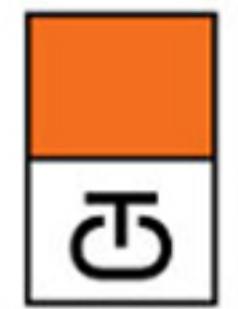
\* Working pressure is based on roll grooved standard wall carbon steel pipe.

† 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.



## Performance Data

The following tables show the maximum working pressures (CWP) of **Shurjoint** Model G28 Hinged Lever 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.

Unit: psi / Bar

Model G28 on Carbon Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
in / mm	XS	STD	STD	Sch. 10	Sch. 7
1½	300	300	300	300	NR
40	20	20	20	20	
2	300	300	300	300	NR
50	20	20	20	20	
2½	300	300	300	300	NR
65	20	20	20	20	
3	300	300	300	300	NR
80	20	20	20	20	
4	300	300	300	300	NR
100	20	20	20	20	
5	300	300	300	300	NR
125	20	20	20	20	
6	300	300	300	300	NR
150	20	20	20	20	
8	300	300	300	250	NR
200	20	20	20	17	
10	300	300	300	250	NR
250	20	20	20	17	

Unit: psi / Bar

Model G28 on Stainless Steel Pipe					
Nom. Size	Cut-Grooved		Roll-Grooved		
in / mm	Sch. 80S	Sch. 40S	Sch. 40S	Sch. 10S	Sch. 5S
1½	300	300	300	300	NR
40	20	20	20	20	
2	300	300	300	300	NR
50	20	20	20	20	
2½	300	300	300	300	NR
65	20	20	20	20	
3	300	300	300	300	NR
80	20	20	20	20	
4	300	300	300	300	NR
100	20	20	20	20	
5	300	300	300	250	150
125	20	20	17	10	NR
6	300	300	250	150	NR
150	20	20	17	10	
8	300	300	200	NR	NR
200	20	20	14		
10	300	300	200	NR	NR
250	20	20	14		

### Expansion Pipe

Lever handles are factory assembled pretty tight for safety sake. 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
½" x 6"	1½" ~4"
¾" x 8"	5" ~ 8"

(You can easily make your expansion pipe simply by cutting sch. 40 ½" or ¾" 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.



## 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).

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

For additional details contact **Shurjoint**.

### • Surface Finish:

Standard finish is black electro-deposition coated  
 Hotdippedzincgalvanized (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.

(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).**

### • 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.

#### 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 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.