

## SS-28 STAINLESS STEEL HINGED LEVER COUPLING

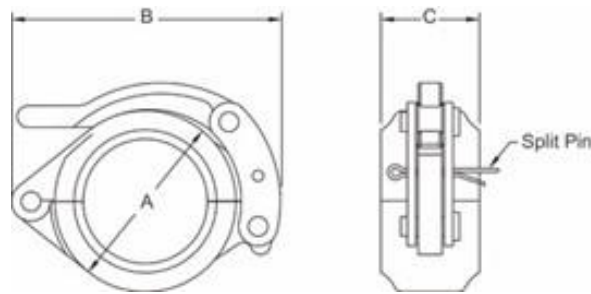


For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website [www.shurjoint.com](http://www.shurjoint.com) for details or contact your SHURJOINT representatives.

The Model SS-28 Hinged Grooved Coupling is designed for quick connect and disconnect services. The housing segments are hinged with a lever handle for easy assembly. Use of the split pin can prevent the accidental opening of the coupling. The Model SS-28 can be used in a wide variety of applications with standard roll- or cut grooved pipe. Housings 1½"- 4" (40 mm - 100 mm) feature a smooth outer surface, housings 5"- 12" (125 mm - 300 mm) feature a cross-ribbed design for added strength. Standard gasket: Grade "E" EPDM or Grade "T" Nitrile. Available standard in CF8 (304) or CF8M (316).

### material specification

- **Housing:**
  - Type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8
  - Type 316 to ASTM A743 CF8M
  - Type 316L to ASTM A743 CF3M
  - Type 316Ti to ASTM A240
  - Duplex 2205 to ASTM A890 4A.
  - Super Duplex 2507 to ASTM A890 5A.
  - Duplex 254SMO to ASTM A351 CK3McuN.
- **Rubber Gasket:**
  - Grade E-pw EPDM (Color code: Double Green stripe) certified under NSF/ANSI 61 and NSF/ANSI 372 for potable water service to +180°F (+82°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.
  - Other options: Grade "E" - EPDM
    - Grade "T" - Nitrile
    - Grade "O" - Fluoroelastomer.
    - Grade "L" - Silicone.
- For additional details contact Shurjoint.
- **Locking Lever Handle:**
  - Type 304 Stainless steel to ASTM A351 CF8 or A743 Gr. CF8
  - Type 316 to ASTM A743 CF8M
- **Toggle Links:**
  - Type 316 Stainless steel
- **Hinge Pin:**
  - Type 316 Stainless steel
- **Rivet:**
  - Type 316 Stainless steel
- **Split Pin:**
  - Carbon steel wire rod to ASTM A421.



Model SS-28 Stainless Steel Hinged Lever Coupling


| Normal Size | Pipe O.D. | Max. Working Pressure (CWP)* | Max. End Load (CWP) | Axial Displacement† | Dimensions |       |      | Deflection Degree† | Weight |
|-------------|-----------|------------------------------|---------------------|---------------------|------------|-------|------|--------------------|--------|
|             |           |                              |                     |                     | A          | B     | C    |                    |        |
| in          | in        | psi                          | lbf                 | in                  | in         | in    | lbs  | (°)                | lbs    |
| mm          | mm        | bar                          | kN                  | mm                  | mm         | mm    | kg   |                    | kg     |
| 1½          | 1.900     | 300                          | 1700                | 0 - 0.06            | 2.95       | 4.65  | 1.85 | 3° - 48'           | 2.2    |
| 40          | 48.3      | 20                           | 7.56                | 0 - 1.6             | 75         | 118   | 47   |                    | 1.0    |
| 2           | 2.375     | 300                          | 2657                | 0 - 0.06            | 3.39       | 4.76  | 1.89 | 3° - 31'           | 2.4    |
| 50          | 60.3      | 20                           | 11.82               | 0 - 1.6             | 86         | 121   | 48   |                    | 1.1    |
| 2½          | 2.875     | 300                          | 3893                | 0 - 0.06            | 3.62       | 5.91  | 1.89 | 2° - 30'           | 3.1    |
| 65          | 73.0      | 20                           | 17.32               | 0 - 1.6             | 92         | 150   | 48   |                    | 1.4    |
| 76.1        | 3.000     | 300                          | 4239                | 0 - 0.06            | 3.62       | 5.91  | 1.89 | 2° - 24'           | 3.1    |
|             | 76.1      | 20                           | 18.86               | 0 - 1.6             | 92         | 150   | 48   |                    | 1.4    |
| 3           | 3.500     | 300                          | 5770                | 0 - 0.06            | 4.69       | 6.42  | 1.89 | 2° - 24'           | 4.0    |
| 80          | 88.9      | 20                           | 25.67               | 0 - 1.6             | 119        | 163   | 48   |                    | 1.8    |
| 4           | 4.500     | 300                          | 9538                | 0 - 0.13            | 6.50       | 8.07  | 2.05 | 3° - 12'           | 5.9    |
| 100         | 114.3     | 20                           | 42.43               | 0 - 3.2             | 165        | 205   | 52   |                    | 2.7    |
| 139.7       | 5.500     | 200                          | 9500                | 0 - 0.13            | 7.44       | 9.96  | 2.05 | 2° - 37'           | 10.8   |
|             | 139.7     | 14                           | 42.25               | 0 - 3.2             | 189        | 253   | 52   |                    | 4.9    |
| 5           | 5.563     | 200                          | 9717                | 0 - 0.13            | 7.44       | 9.96  | 2.05 | 2° - 36'           | 10.8   |
| 125         | 141.3     | 14                           | 43.23               | 0 - 3.2             | 189        | 253   | 52   |                    | 4.9    |
| 165.1       | 6.500     | 200                          | 13267               | 0 - 0.13            | 8.39       | 10.94 | 2.05 | 2° - 14'           | 12.8   |
|             | 165.1     | 14                           | 59.01               | 0 - 3.2             | 213        | 278   | 52   |                    | 5.8    |
| 6           | 6.625     | 200                          | 13782               | 0 - 0.13            | 8.50       | 11.06 | 2.05 | 2° - 10'           | 12.8   |
| 150         | 168.3     | 14                           | 61.31               | 0 - 3.2             | 216        | 281   | 52   |                    | 5.8    |

\* The working pressure shown is based on roll-grooved Sch. 40S pipe.

† Allowable Axial Displacement 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"/DN20 - 3½"/DN90; 25% for 4"/DN100 and larger to compensate for jobsite conditions.

**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" - 6"                   |   |



(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 SS-28 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.

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.