

Suction Diffuser Figure 1011G

Supplied by: Central Grooved Piping Products
a Subsidiary of Central Sprinkler Company
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Product Description

The Figure 1011G are compact and rugged for direct mounting to the suction side of a pump in either a horizontal or vertical product.

The lightweight compact design is easily installed with no need for welding. Long entry pipe, sweep ells, conventional strainers and flanged reducers are not required. Service time is reduced with the quick opening knobs.

Pump performance is improved by the reduction of turbulence flow. The permanent 5/32 perforated stainless steel screen helps remove foreign particles.

Suction Diffusers have a grooved inlet end suitable for installation with Figures 705, 707, and 772 couplings. The outlet end is provided with a 150 # ANSI flat face flange.

The standard "O" ring seal between the body and the cover is EPDM. Special "O" ring seals can be provided upon request. The outlet side of the diffusers have straightening vanes positioned to reduce turbulence.

Free open area of the perforated screen is a minimum ratio of five times the cross sectional area of the entering pipe.

Diffusers have provisions for NPT gauge taps and a plugged NPT drain connection is provided at the bottom.



Technical Data

Figure: 1011G

Sizes:

2", 2¹/₂", 3", 4", 6", 8", 10", and 12"

Body & Cover:

Ductile Iron conforming to ASTM A-395 (60-40-18) or A-536.

Knobs:

Ductile Iron ASTM A-395-56T (60-45-10) for sizes thru 10" x 8", ASTM A-194-4 nuts for sizes 10" x 10" and larger.

Screen:

⁵/₃₂" perforated 304 Stainless Steel ASTM A-240, with mesh Stainless Steel start-up sleeve.

Max. Working Pressure:

300 psi at 100°F



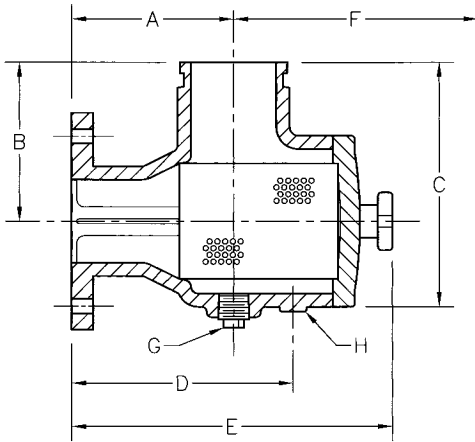
Installation

Install suction diffuser on the inlet (suction) side of the pump, of the size specified in the pump schedule. The system or inlet side is grooved and can be installed with one Central flexible or rigid coupling. Diffuser screens have removable and disposable mesh sleeves around the perforated cage for start-up purposes. After initial system start-up, depressurize the system, inspect and clean as needed.

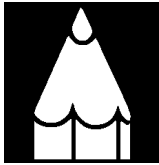
Note: Never remove any piping components without verifying the system is depressurized and drained.

1011G Grooved End Suction Diffuser

Dimensions and Approximate Weights



| Size Inlet x Outlet | A Inches mm | B Inches mm | C Inches mm | D Inches mm | E Inches mm | F Screen Removal Inches mm | G Plug NPT mm | H Pipe Support ID | Net Wt. Lbs. Kg |
|---------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|------------------------|----------------------------|--------------------------|
| 2" x 2" | 4.50 114 | 4.50 114 | 6.69 170 | 6.12 155 | 10.19 259 | 8.81 224 | 0.75 20 | 1.380 35 | 19 8.6 |
| 2½" x 2" | 5.00 127 | 5.00 127 | 7.50 191 | 6.56 166 | 10.88 276 | 9.12 232 | 0.75 20 | 1.380 35 | 20 9.1 |
| 2½" x 2½" | 5.00 127 | 5.00 127 | 7.50 191 | 6.56 166 | 10.88 276 | 9.12 232 | 0.75 20 | 1.380 35 | 22 10 |
| 3" x 2" | 5.50 140 | 5.50 140 | 8.44 214 | 7.38 187 | 11.56 294 | 9.62 244 | 0.75 20 | 1.380 35 | 38 17.2 |
| 3" x 2½" | 5.50 140 | 5.50 140 | 8.44 214 | 7.38 187 | 11.56 294 | 9.62 244 | 0.75 20 | 1.380 35 | 39 17.7 |
| 3" x 3" | 5.50 140 | 5.50 140 | 8.44 214 | 7.38 187 | 11.56 294 | 9.62 244 | 0.75 20 | 1.380 35 | 40 18.1 |
| 4" x 3" | 6.50 165 | 6.81 173 | 10.44 265 | 10.44 265 | 8.75 222 | 13.12 333 | 1.00 25 | 1.380 35 | 50 22.7 |
| 4" x 4" | 6.50 165 | 6.81 173 | 10.44 265 | 10.44 265 | 8.75 222 | 13.12 333 | 1.00 25 | 1.380 35 | 52 23.6 |
| 6" x 4" | 8.00 203 | 8.00 203 | 13.31 338 | 10.50 267 | 16.88 429 | 16.56 421 | 1.00 25 | 1.380 35 | 106 48.1 |
| 6" x 5" | 8.00 203 | 8.00 203 | 13.31 338 | 10.50 267 | 16.88 429 | 16.56 421 | 1.00 25 | 1.380 35 | 110 49.9 |
| 6" x 6" | 8.00 203 | 8.00 203 | 13.31 338 | 10.50 267 | 16.88 429 | 16.56 421 | 1.00 25 | 1.380 35 | 113 51.3 |
| 8" x 6" | 9.00 229 | 10.00 254 | 15.31 389 | 11.50 292 | 17.88 454 | 16.88 429 | 1.00 25 | 1.380 35 | 137 62.1 |
| 8" x 8" | 9.00 229 | 10.00 254 | 16.75 425 | 11.75 298 | 20.75 527 | 22.88 581 | 1.25 35 | 1.380 35 | 222 101 |
| 10" x 8" | 9.00 229 | 11.75 298 | 18.44 468 | 11.75 298 | 20.75 527 | 22.88 581 | 1.25 35 | 1.380 35 | 236 107 |
| 10" x 10" | 11.00 279 | 11.75 298 | 20.00 508 | 14.00 356 | 26.38 670 | 30.75 781 | 1.25 35 | 1.380 35 | 343 155.6 |
| 12" x 10" | 11.00 279 | 12.88 327 | 21.00 533 | 14.00 356 | 26.75 679 | 30.75 781 | 1.25 35 | 1.380 35 | 357 161.9 |



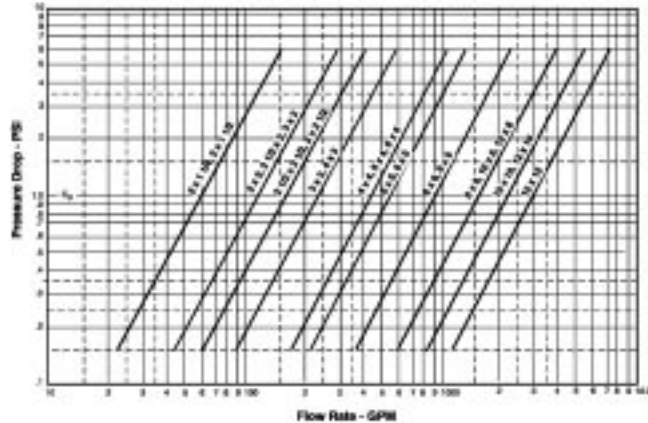
Ordering Information

Ordering Information: When placing an order, indicate the full product name. Please specify the quantity, figure number, type of "O" ring, and size.

Availability and Service: Central Grooved Piping Products are available throughout the U.S., Canada, and internationally, through a network of Central distribution centers. You may write directly to Central, or call 215-362-0700 for the distributor nearest you.

Warranty: Central Grooved Piping Products will repair and/or replace any products found to be defective in material or workmanship within a period of one year from the date of shipment. Please refer to the current price list for further details of the warranty.

Pressure Drop Curves



CENTRAL GROOVED PIPING PRODUCTS