

Engineering Specification

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

LOCXEND® Suction Diffusers

Model: 1011G

Sizes: 2"x1¼"– 12"x12" (50 x 32 – 300 x 300mm)

Mueller Steam Specialty LOCXEND® Suction Diffusers provide economical and compact pump protection by straining foreign particles and providing proper flow conditions to the pump.

Typical Service

- Mount directly to the suction side of a pump, in either horizontal or vertical position.

Features

- Compact design enables this one unit to act as an elbow, strainer, and entry pipe to the suction side of the pump. This reduces installation time, overall cost, and reduces joint leak paths.
- Equal size flanges or reduced outlet flange sizes available. Reduced outlet design eliminates the need for a reducing base elbow.
- Quick opening knobs allow for quick maintenance.
- O-ring seal eliminates the need to clean the sealing area and install a new flat gasket in competitive models.
- Straightening vanes on the Suction Diffuser's outlet side reduces turbulence into the pump. These minimize stress and erosion within the pump, and eliminate the need for a length of straight pipe to diminish turbulence.
- Robust 5 to 1 Open Area Ratio and blow off feature extend the time between servicing and allows for ease of draining and flushing.
- A separate removable fine mesh screen liner is installed in each Diffuser for start-up. After the start-up period, simply remove and discard, leaving the primary screen for operation.
- Special pads fit the I.D. of standard pipe, eliminating the need for pipe saddles and relieving stress on hanger systems.
- Gauge tapping is available as specified with the order.



Model 1011G

Pressure/Temperature – Non-Shock

| Model | CWP |
|-------|----------------------------------|
| 1011G | 300psi @ 100°F 165psi @ 300°F |

Max. temp can be limited by O-ring material.

Screens

| STANDARD (WATER) | | | |
|------------------|-----------|----------|-----------|
| MODEL | SIZES | MATERIAL | OPENING |
| 1011 | Up to 6" | 304SS | .156 perf |
| 1011 | 8" and Up | 304SS | .125 perf |
| Sleeve | | 304SS | 20 mesh |

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Mueller Steam Specialty product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Mueller Steam Specialty Technical Service. Mueller Steam Specialty reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Mueller Steam Specialty products previously or subsequently sold.

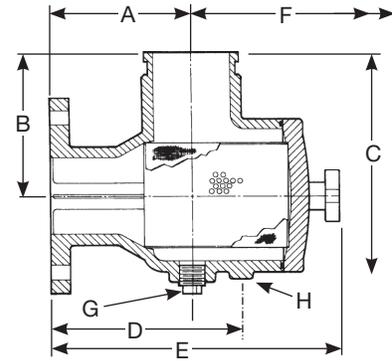
Mueller Steam Specialty™

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Materials

| 1011 | |
|----------------|---|
| Body and Cover | Cast Iron ASTM A126-B |
| Knobs | (2" x 1¼" - 8" x 8") – Ductile Iron ASTM A536 |
| Nuts: | (10" x 10" and larger) – Carbon Steel ASTM A194-4 |
| Sleeve: | 20 mesh Stainless Steel |
| O-Ring: | EPDM |

Special metals and alloys on request.
 Models with flanged inlet available in Cast Iron for Class 125 and Ductile Iron for Class 300 service.



Model 1011G

Dimensions and Weights

| SIZE | | DIMENSIONS | | | | | | | | | | WEIGHT | | | | | | | |
|---------|-----------|----------------|-----|---------------------------------|-----|---------------------------------|-----|--------------------------------|-----|---------------------------------|-----|---------------------------------|-----|--------|----|---------------------------|----|------|------|
| in. | mm | A | | B | | C | | D | | E | | F Screen Removal | | G | | H Pipe Support I.D. | | lbs. | kgs. |
| | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | | | | |
| 2 x 1¼ | 51 x 32 | On Application | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2 x 1½ | 51 x 38 | On Application | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2 x 2 | 51 x 51 | 4½ | 114 | 4½ | 114 | 6 ¹ / ₁₆ | 170 | 6 ¹ / ₈ | 156 | 10 ³ / ₁₆ | 259 | 8 ¹³ / ₁₆ | 224 | ¾ NPT | 20 | .824 | 21 | 19 | 42 |
| 2½ x 2 | 64 x 51 | 5 | 127 | 5 | 127 | 7½ | 191 | 6 ⁹ / ₁₆ | 167 | 10 ⁷ / ₈ | 276 | 9 ¹ / ₈ | 232 | ¾ NPT | 20 | 1.380 | 35 | 20 | 44 |
| 2½ x 2½ | 64 x 64 | 5 | 127 | 5 | 127 | 7½ | 191 | 6 ⁹ / ₁₆ | 167 | 10 ⁷ / ₈ | 276 | 9 ¹ / ₈ | 232 | ¾ NPT | 20 | 1.380 | 35 | 22 | 49 |
| 3 x 2 | 76 x 51 | 5½ | 140 | 5½ | 140 | 8 ⁷ / ₁₆ | 189 | 7 ⁷ / ₈ | 187 | 11 ⁹ / ₁₆ | 294 | 9 ⁵ / ₈ | 244 | ¾ NPT | 20 | 1.380 | 35 | 38 | 84 |
| 3 x 2½ | 76 x 64 | 5½ | 140 | 5½ | 140 | 8 ⁷ / ₁₆ | 189 | 7 ⁷ / ₈ | 187 | 11 ⁹ / ₁₆ | 294 | 9 ⁵ / ₈ | 244 | ¾ NPT | 20 | 1.380 | 35 | 39 | 86 |
| 3 x 3 | 76 x 76 | 5½ | 140 | 5½ | 140 | 8 ⁷ / ₁₆ | 189 | 7 ⁷ / ₈ | 187 | 11 ⁹ / ₁₆ | 294 | 9 ⁵ / ₈ | 244 | ¾ NPT | 20 | 1.380 | 35 | 40 | 88 |
| 4 x 3 | 102 x 76 | 6½ | 165 | 6 ¹³ / ₁₆ | 173 | 10 ⁷ / ₁₆ | 265 | 8 ³ / ₄ | 223 | 13 ³ / ₈ | 333 | 11½ | 292 | 1 NPT | 25 | 1.380 | 35 | 50 | 110 |
| 4 x 4 | 102 x 102 | 6½ | 165 | 6 ¹³ / ₁₆ | 173 | 10 ⁷ / ₁₆ | 265 | 8 ³ / ₄ | 223 | 13 ³ / ₈ | 333 | 11½ | 292 | 1 NPT | 25 | 1.380 | 35 | 52 | 115 |
| 6 x 4 | 152 x 102 | 8 | 203 | 8 | 203 | 13 ⁵ / ₁₆ | 338 | 10½ | 267 | 16 ⁷ / ₈ | 429 | 16 ⁹ / ₁₆ | 421 | 1 NPT | 25 | 1.380 | 35 | 106 | 234 |
| 6 x 5 | 152 x 127 | 8 | 203 | 8 | 203 | 13 ⁵ / ₁₆ | 338 | 10½ | 267 | 16 ⁷ / ₈ | 429 | 16 ⁹ / ₁₆ | 421 | 1 NPT | 25 | 1.380 | 35 | 110 | 242 |
| 6 x 6 | 152 x 152 | 8 | 203 | 8 | 203 | 13 ⁵ / ₁₆ | 338 | 10½ | 267 | 16 ⁷ / ₈ | 429 | 16 ⁹ / ₁₆ | 421 | 1 NPT | 25 | 1.380 | 35 | 113 | 249 |
| 8 x 6 | 203 x 152 | 9 | 229 | 10 | 254 | 15 ⁵ / ₁₆ | 389 | 11½ | 292 | 17 ⁷ / ₈ | 454 | 16 ⁷ / ₈ | 429 | 1 NPT | 25 | 1.380 | 35 | 137 | 302 |
| 8 x 8 | 203 x 203 | 9 | 229 | 10 | 254 | 16 ⁵ / ₁₆ | 414 | 11¾ | 298 | 20 ³ / ₄ | 527 | 22 ⁷ / ₈ | 581 | 1¼ NPT | 32 | 1.380 | 35 | 222 | 490 |
| 10 x 8 | 254 x 203 | 9 | 229 | 11¾ | 298 | 18 ⁷ / ₁₆ | 468 | 11¾ | 298 | 20 ³ / ₄ | 527 | 22 ⁷ / ₈ | 581 | 1¼ NPT | 32 | 1.380 | 35 | 236 | 520 |
| 10 x 10 | 254 x 254 | 11 | 280 | 11¾ | 298 | 20 | 508 | 14 | 356 | 26 ³ / ₈ | 670 | 30¾ | 781 | 1¼ NPT | 32 | 1.380 | 35 | 343 | 756 |
| 12 x 8 | 305 x 203 | On Application | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 12 x 10 | 305 x 254 | 11 | 280 | 12 ⁷ / ₈ | 327 | 21 | 533 | 14 | 356 | 26 ³ / ₈ | 670 | 30¾ | 781 | 1¼ NPT | 32 | 1.380 | 35 | 357 | 787 |
| 12 x 12 | 305 x 305 | On Application | | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

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Limited Warranty: Mueller Steam Specialty warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge. This shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication or improper installation of the product. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Any implied warranties that are imposed by law are limited in duration to one year.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights.



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