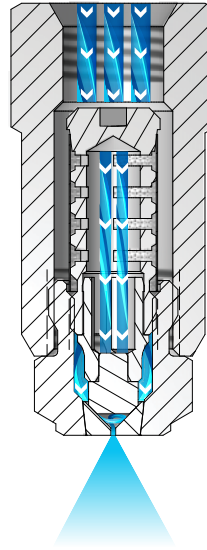


OVERVIEW: HYDRAULIC ATOMIZING

- Finely atomized, hollow cone spray without compressed air
- Very small drops often achieving misting performance
- Ideal for use in dust control and humidification applications
- Wall-mount options for installation on room walls, vessel bulkheads or pipeline
- Orifice inserts, cores and strainers are easily removed for inspection or cleaning
- Most models can be supplied with an internal strainer
- Spray angles: Standard – 43° to 94°, Wide – 112° to 120°
- Uniform spray distribution from .82 to 130 gph (3.1 to 492 lph)
- Operating pressures from 20 to 1000 psi (1.5 to 69 bar)



**Hydraulic
Atomizing Nozzles**

The liquid passes through slots in the core component. The slots make the liquid spin in a circle at a very high speed. The energy from the spinning action causes the liquid to break up into very small droplets and form a hollow cone pattern as it exits the orifice.

HYDRAULIC ATOMIZING OPTIONS

S
W

LN
1/4" female conn.
Integral strainer

S
W

LNN
1/4" male conn.
Integral strainer

S

LND
1/4" female conn. with 1/2" male
wall-mounting threads
Wall-mount
Integral strainer

S

LNND
1/4" male conn. with 1/2" male
wall-mounting threads
Wall-mount
Integral strainer

S
W

N
1/4" female conn.

S
W

NN
1/4" male conn.

S

M
1/4" male conn.
Two-piece design

**RELATIVE DROP SIZE
IN MICRONS**



Drop size will vary based on flow rate and pressure.

ORDERING INFORMATION

HYDRAULIC ATOMIZING LN, LND, N AND M

| | | | | | |
|-------------|-------------|---|---------------|---------------|----------------------|
| Inlet Conn. | Nozzle Type | — | Material Code | Capacity Size | Example |
| | | | | | 1/4 LN — SS 8 |

BSPT connections require the addition of a "B" prior to the inlet connection.
To order M with strainer, use ML as Nozzle Type.

HYDRAULIC ATOMIZING LN AND N

| | | | | | |
|-------------|-------------|---|---------------|---------------|-----------------------|
| Inlet Conn. | Nozzle Type | — | Material Code | Capacity Size | Example |
| | | | | | 1/4 LN — SS 8W |

BSPT connections require the addition of a "B" prior to the inlet connection.

QUICK REFERENCE GUIDE

| Model | Connection/Type | Connection Size (in.) | Materials | Page Number | |
|--------------|-----------------|-----------------------|---|------------------|------------------------|
| | | | | Performance Data | Dimensions and Weights |
| LN | F | 1/4 | Brass, 303 stainless steel (SS), 316 stainless steel (316SS) | E6 | E7 |
| LNN | M | 1/4 | | | |
| LND | F, Wall-mount | 1/4 | Brass, 303 stainless steel (SS) | | |
| LNND | M, Wall-mount | 1/4 | | | |
| N | F | 1/4 | Brass, 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC) | | |
| NN | M | 1/4 | Brass, 303 stainless steel (SS), 316 stainless steel (316SS) | | |
| M | M | 1/4 | Brass, 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC) | | |
| LN-W | F | 1/4 | Brass, 303 stainless steel (SS), 316 stainless steel (316SS) | | |
| LNN-W | M | 1/4 | | | |
| N-W | F | 1/4 | | | |
| NN-W | M | 1/4 | | | |

F = female thread; M = male thread. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request.
For more dimensions and sizes, contact your sales engineer.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

| Inlet Conn. (in.) | Nozzle Type | | | | | | | Capacity Size | Orifice Dia. Nom. (mm) | Core No. | Flow Rate Capacity (liters per hour) | | | | | | | | | | Spray Angle (°) | | |
|-------------------|-------------|-----|-----|------|---|----|----|---------------|------------------------|----------|--------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|-------|-----------------|--------|--|
| | LN | LNN | LND | LNND | N | NN | M | | | | 2 bar | 3 bar | 4 bar | 7 bar | 15 bar | 20 bar | 35 bar | 45 bar | 80 bar | 3 bar | 6 bar | 20 bar | |
| 1/4 | • | • | | | | | | .30 | .41 | 106 | – | – | – | – | – | 3.1 | 4.0 | 4.6 | 6.1 | – | – | 51 | |
| | • | • | | | | | | .40 | .41 | 108 | – | – | – | – | – | 4.1 | 5.4 | 6.1 | 8.2 | – | – | 58 | |
| | • | | | | | | | .50 | .41 | 109 | – | – | – | – | 4.4 | 5.1 | 6.7 | 7.6 | 10.2 | – | – | 63 | |
| | • | • | • | • | • | • | • | .60 | .41 | 206 | – | – | – | 3.6 | 5.3 | 6.1 | 8.1 | 9.2 | 12.2 | – | 35 | 65 | |
| | • | • | • | • | • | • | • | 1 | .51 | 210 | – | 3.9 | 4.6 | 6.0 | 8.8 | 10.2 | 13.5 | 15.3 | 20 | 45 | 62 | 72 | |
| | • | • | • | • | • | • | • | 1.5 | .51 | 216 | 4.8 | 5.9 | 6.8 | 9.0 | 13.2 | 15.3 | 20 | 23 | 31 | 65 | 70 | 72 | |
| | • | • | • | • | • | • | • | 2 | .71 | 216 | 6.4 | 7.9 | 9.1 | 12.1 | 17.7 | 20 | 27 | 31 | 41 | 70 | 75 | 77 | |
| | • | • | • | • | • | • | • | 3 | .71 | 220 | 9.7 | 11.8 | 13.7 | 18.1 | 26 | 31 | 40 | 46 | 61 | 65 | 70 | 73 | |
| | • | • | • | • | • | • | • | 4 | 1.1 | 220 | 12.9 | 15.8 | 18.2 | 24 | 35 | 41 | 54 | 61 | 82 | 72 | 81 | 84 | |
| | • | • | • | • | • | • | • | 6 | 1.1 | 225 | 19.3 | 24 | 27 | 36 | 53 | 61 | 81 | 92 | 122 | 73 | 79 | 81 | |
| | • | • | • | • | • | • | • | 8 | 1.5 | 225 | 26 | 32 | 36 | 48 | 71 | 82 | 108 | 122 | 163 | 85 | 89 | 91 | |
| | • | • | • | • | • | • | • | 10 | 1.6 | 420 | 32 | 39 | 46 | 60 | 88 | 102 | 135 | 153 | 204 | 82 | 84 | 86 | |
| | • | • | • | • | • | • | • | 12 | 1.9 | 420 | 39 | 47 | 55 | 72 | 106 | 122 | 162 | 183 | 245 | 78 | 82 | 85 | |
| | • | • | • | • | • | • | • | 14 | 1.9 | 421 | 45 | 55 | 64 | 84 | 124 | 143 | 189 | 214 | 285 | 85 | 88 | 90 | |
| | | | | | • | • | | 16 | 2.2 | 421 | 52 | 63 | 73 | 96 | 141 | 163 | 216 | 245 | 326 | 83 | 86 | 88 | |
| | • | • | • | • | • | • | • | 18 | 1.9 | 422 | 58 | 71 | 82 | 109 | 159 | 183 | 243 | 275 | 367 | 81 | 84 | 86 | |
| | • | | | | | | • | 20 | 2.1 | 422 | 64 | 79 | 91 | 121 | 177 | 204 | 270 | 306 | 408 | 75 | 78 | 80 | |
| | • | • | • | • | • | • | • | 22 | 1.9 | 625 | 71 | 87 | 100 | 133 | 194 | 224 | 297 | 336 | 449 | 70 | 72 | 75 | |
| • | • | • | • | • | • | • | 26 | 2.2 | 625 | 84 | 103 | 119 | 157 | 230 | 265 | 351 | 398 | 530 | 73 | 74 | 77 | | |

Maximum operating pressure depends on material and application. Contact your sales engineer for details.

Highlighted column shows the rated pressure.



W PERFORMANCE DATA:
WIDE ANGLE SPRAY



| Inlet Conn. (in.) | Nozzle Type | | | | Capacity Size | Orifice Dia. Nom. (mm) | Core No. | Flow Rate Capacity (liters per hour) | | | | Spray Angle (°) | |
|-------------------|-------------|-------|-----|------|---------------|------------------------|----------|--------------------------------------|-------|-------|-------|-----------------|-------|
| | LN-W | LNN-W | N-W | NN-W | | | | 1.5 bar | 2 bar | 3 bar | 6 bar | 3 bar | 6 bar |
| 1/4 | ● | ● | ● | ● | 2W | .99 | 210 | – | 6.4 | 7.9 | 11.2 | 165 | 158 |
| | ● | ● | ● | ● | 3W | .99 | 216 | 8.4 | 9.7 | 11.8 | 16.8 | 157 | 152 |
| | ● | ● | ● | ● | 4W | 1.5 | 220 | 11.2 | 12.9 | 15.8 | 22 | 156 | 155 |
| | ● | ● | ● | ● | 8W | 1.5 | 225 | 22 | 26 | 32 | 45 | 152 | 153 |

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

| Nozzle | Nozzle Type | Inlet Conn. (in.) | L (mm) | Body Hex. (in.) | Cap Hex. (in.) | Net Weight (kg) |
|--------|------------------------------------|-------------------|--------|-----------------|----------------|-----------------|
| | LN (F) LN-W (F) | 1/4 | 49.1 | 13/16 | 5/8 | 0.10 |
| | LNN (M) LNN-W (M) | 1/4 | 53.1 | 13/16 | 5/8 | 0.09 |
| | LND (F) | 1/4 | 47.6 | 7/8 dia. | 5/8 | 0.09 |
| | LNND (M) | 1/4 | 51.6 | 7/8 dia. | 5/8 | 0.09 |

Based on the largest/heaviest version of each type.

| Nozzle | Nozzle Type | Inlet Conn. (in.) | L (mm) | Body Hex. (in.) | Cap Hex. (in.) | Net Weight (kg) |
|--------|----------------------------------|-------------------|--------|-----------------|----------------|-----------------|
| | N (F) N-W (F) | 1/4 | 33.3 | 11/16 | 5/8 | 0.05 |
| | NN (M) NN-W (M) | 1/4 | 35.7 | 11/16 | 5/8 | 0.05 |
| | M (M) | 1/4 | 21.4 | 9/16 | – | 0.02 |

Based on the largest/heaviest version of each type.