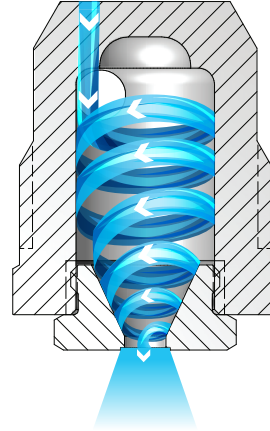


OVERVIEW: WHIRLJET IN-LINE, OFFSET AND DEFLECTED SPRAYS

- Hollow cone spray pattern
- In-line versions ideal for dust control in mining operations
 - BD versions have a lower profile projection for installation in a tee or pipe header
 - In-line BDM features recessed orifice area to protect from damage; self-locking cap to prevent loss due to vibration; fiberglass-reinforced nylon inlet body
- BA offset style ideal for installations with physical space limitations
- Spray angles: Standard – 43° to 94°, Wide – 102° to 125°
- Deflected spray versions available with 120°, 150° and 180° included angle of spray at 10 psi (0.7 bar)
- Uniform spray distribution from .11 to 38 gpm (.41 to 145 lpm)
- Operating pressures up to 500 psi (35 bar)



WhirlJet BD, BDM and BA Nozzles

Liquid passes through a hole on the inlet side of the nozzle. The liquid then enters a whirlchamber where it spins in a circle at high speed. The rotation forces the liquid away from the center toward the edges. This causes the liquid to exit the orifice in a hollow cone pattern.

WHIRLJET OPTIONS



BD
3/8" to 1-1/2" male conn.
In-line nozzle
Removable cap



BDM "Miner Nozzle"
3/8" male conn.
In-line nozzle
Removable cap/nylon body



BA
3/8" to 1/2" male conn.
Offset style nozzle
Removable cap



DeflectoJet® 8686
1/8" to 3/8" male conn.
Deflected nozzle
Removable deflector cap

RELATIVE DROP SIZE IN MICRONS

| | | | |
|-----------|------------|-------------|--------------|
| 10 to 100 | 100 to 500 | 500 to 1000 | 1000 to 5000 |
|-----------|------------|-------------|--------------|

Drop size will vary based on flow rate and pressure.



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ORDERING INFORMATION

WHIRLJET BD

| | | | | |
|-------------|-------------|---|---------------|---------------|
| Inlet Conn. | Nozzle Type | — | Material Code | Capacity Size |
|-------------|-------------|---|---------------|---------------|

Example

| | | | | |
|-----|----|---|----|----|
| 3/8 | BD | — | SS | 10 |
|-----|----|---|----|----|

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

WHIRLJET BDM

| | | | |
|-------------|-------------|---|---------------|
| Inlet Conn. | Nozzle Type | — | Capacity Size |
|-------------|-------------|---|---------------|

Example

| | | | |
|-----|-----|---|---|
| 3/8 | BDM | — | 5 |
|-----|-----|---|---|

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

WHIRLJET BA

| | | | | |
|-------------|-------------|---|---------------|---------------|
| Inlet Conn. | Nozzle Type | — | Material Code | Capacity Size |
|-------------|-------------|---|---------------|---------------|

Example

| | | | | |
|-----|----|---|----|----|
| 1/2 | BA | — | SS | 25 |
|-----|----|---|----|----|

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

DEFLECTOJET 8686

| | | | | | | |
|------------|-------------|---|---------------|---------------|---|-------------|
| Nozzle No. | Inlet Conn. | — | Material Code | Capacity Size | — | Spray Angle |
|------------|-------------|---|---------------|---------------|---|-------------|

Example

| | | | | | | |
|------|-----|---|----|---|---|-----|
| 8686 | 1/4 | — | SS | 1 | — | 120 |
|------|-----|---|----|---|---|-----|

BSPT connections require the addition of a "B" prior to the nozzle number.

QUICK REFERENCE GUIDE

| Model | Connection | Connection Size (in.) | Materials | Page Number | |
|-------------|------------|-----------------------|---|------------------|------------------------|
| | | | | Performance Data | Dimensions and Weights |
| BD | M | 3/8 to 1-1/2 | Brass, 303 stainless steel (SS) | D29 | D32 |
| BD-W | M | 3/8 to 3/4 | Brass, 303 stainless steel (SS) | D30 | |
| BDM | M | 3/8 | Nylon/Brass cap | D30 | |
| BA | M | 3/8 to 1/2 | Brass, 303 stainless steel (SS), 309 stainless steel (309SS) | D31 | |
| 8686 | M | 1/8 to 3/8 | Brass, 303 stainless steel (SS) | D31 | |

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 BD | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | | | | Spray Angle (°) | | |
|-------------------|-------------------|---------------|----------------------|------------------------|--|---------|---------|---------|-------|---------|-------|-------|-------|-------|-------|-----------------|---------|-------|
| | | | | | 0.2 bar | 0.4 bar | 0.5 bar | 0.7 bar | 1 bar | 1.5 bar | 2 bar | 3 bar | 4 bar | 6 bar | 7 bar | 0.5 bar | 1.5 bar | 6 bar |
| 3/8 | ● | 2 | 2.4 | 2.0 | .41 | .58 | .64 | .76 | .91 | 1.1 | 1.3 | 1.6 | 1.8 | 2.2 | 2.4 | 51 | 60 | 70 |
| | ● | 3 | 2.4 | 2.4 | .61 | .86 | .97 | 1.1 | 1.4 | 1.7 | 1.9 | 2.4 | 2.7 | 3.4 | 3.6 | 52 | 64 | 77 |
| | ● | 5 | 2.8 | 3.2 | 1.0 | 1.4 | 1.6 | 1.9 | 2.3 | 2.8 | 3.2 | 3.9 | 4.6 | 5.6 | 6.0 | 56 | 67 | 76 |
| | ● | 8 | 4.0 | 4.0 | 1.6 | 2.3 | 2.6 | 3.1 | 3.6 | 4.5 | 5.2 | 6.3 | 7.3 | 8.9 | 9.6 | 56 | 65 | 70 |
| | ● | 10 | 4.0 | 4.4 | 2.0 | 2.9 | 3.2 | 3.8 | 4.6 | 5.6 | 6.4 | 7.9 | 9.1 | 11.2 | 12.1 | 55 | 65 | 72 |
| | ● | 20-10 | 4.0* | 4.4 | – | 4.0 | 4.5 | 5.3 | 6.4 | 7.8 | 9.0 | 11.1 | 12.8 | 15.6 | 16.9 | 61 | 65 | 67 |
| 1/2 | ● | 5 | 3.2 | 3.6 | 1.0 | 1.4 | 1.6 | 1.9 | 2.3 | 2.8 | 3.2 | 3.9 | 4.6 | 5.6 | 6.0 | 63 | 73 | 79 |
| | ● | 8 | 4.0 | 4.0 | 1.6 | 2.3 | 2.6 | 3.1 | 3.6 | 4.5 | 5.2 | 6.3 | 7.3 | 8.9 | 9.6 | 61 | 69 | 73 |
| | ● | 10 | 4.4 | 4.4 | 2.0 | 2.9 | 3.2 | 3.8 | 4.6 | 5.6 | 6.4 | 7.9 | 9.1 | 11.2 | 12.1 | 63 | 70 | 74 |
| | ● | 15 | 4.4* | 5.2 | 3.1 | 4.3 | 4.8 | 5.7 | 6.8 | 8.4 | 9.7 | 11.8 | 13.7 | 16.8 | 18.1 | 60 | 67 | 70 |
| | ● | 20 | 4.8* | 6.0 | 4.1 | 5.8 | 6.4 | 7.6 | 9.1 | 11.2 | 12.9 | 15.8 | 18.2 | 22 | 24 | 63 | 65 | 69 |
| | ● | 25 | 5.2* | 7.1 | 5.1 | 7.2 | 8.1 | 9.5 | 11.4 | 14.0 | 16.1 | 19.7 | 23 | 28 | 30 | 59 | 63 | 68 |
| 3/4 | ● | 5 | 3.6 | 3.2 | 1.0 | 1.4 | 1.6 | 1.9 | 2.3 | 2.8 | 3.2 | 3.9 | 4.6 | 5.6 | 6.0 | 64 | 73 | 79 |
| | ● | 8 | 4.4 | 4.0 | 1.6 | 2.3 | 2.6 | 3.1 | 3.6 | 4.5 | 5.2 | 6.3 | 7.3 | 8.9 | 9.6 | 62 | 70 | 74 |
| | ● | 10 | 5.2 | 4.4 | 2.0 | 2.9 | 3.2 | 3.8 | 4.6 | 5.6 | 6.4 | 7.9 | 9.1 | 11.2 | 12.1 | 64 | 72 | 75 |
| | ● | 15 | 6.4 | 5.6 | 3.1 | 4.3 | 4.8 | 5.7 | 6.8 | 8.4 | 9.7 | 11.8 | 13.7 | 16.8 | 18.1 | 64 | 72 | 74 |
| | ● | 20 | 7.1 | 6.4 | 4.1 | 5.8 | 6.4 | 7.6 | 9.1 | 11.2 | 12.9 | 15.8 | 18.2 | 22 | 24 | 63 | 70 | 74 |
| | ● | 25 | 7.1 | 7.5 | 5.1 | 7.2 | 8.1 | 9.5 | 11.4 | 14.0 | 16.1 | 19.7 | 23 | 28 | 30 | 63 | 70 | 74 |
| | ● | 50-50.3 | 7.1* | 9.5 | 10.2 | 13.3 | 16.1 | 19.1 | 23 | 28 | 32 | 39 | 46 | 56 | 60 | 70 | 72 | 73 |
| 1-1/2 | ● | 40 | 9.5* | 7.9 | 8.2 | 11.5 | 12.9 | 15.3 | 18.2 | 22 | 26 | 32 | 36 | 45 | 48 | 70 | 73 | 74 |
| | ● | 50 | 9.5* | 9.5 | 10.2 | 13.3 | 16.1 | 19.1 | 23 | 28 | 32 | 39 | 46 | 56 | 60 | 72 | 75 | 77 |
| | ● | 60 | 9.5* | 11.1 | 12.2 | 17.3 | 19.3 | 23 | 27 | 34 | 39 | 47 | 55 | 67 | 72 | 74 | 76 | 79 |
| | ● | 70 | 9.5* | 12.7 | 14.3 | 20 | 23 | 27 | 32 | 39 | 45 | 55 | 64 | 78 | 84 | 76 | 79 | 83 |
| | ● | 80 | 9.5* | 14.3 | 16.3 | 23 | 26 | 31 | 36 | 45 | 52 | 63 | 73 | 89 | 96 | 78 | 82 | 84 |
| | ● | 90 | 9.5* | 14.7 | 18.3 | 26 | 29 | 34 | 41 | 50 | 58 | 71 | 82 | 101 | 109 | 81 | 84 | 84 |
| | ● | 100 | 9.5* | 15.9 | 20 | 29 | 32 | 38 | 46 | 56 | 64 | 79 | 91 | 112 | 121 | 83 | 86 | 86 |
| | ● | 110 | 9.5* | 17.1 | 22 | 32 | 35 | 42 | 50 | 61 | 71 | 87 | 100 | 123 | 133 | 85 | 88 | 88 |
| | ● | 120 | 9.5* | 18.3 | 24 | 35 | 39 | 46 | 55 | 67 | 77 | 95 | 109 | 134 | 145 | 87 | 90 | 90 |

*Dual inlets, each in diameter specified.

Highlighted column shows the rated pressure.



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Spraying Systems Co.®

W PERFORMANCE DATA:
WIDE ANGLE SPRAY



| Inlet Conn. (in.) | Nozzle Type BD-W | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | | | | Spray Angle (°) | | |
|-------------------|---------------------|---------------|----------------------|------------------------|--|---------|---------|---------|-------|---------|-------|-------|-------|-------|-------|-----------------|---------|-------|
| | | | | | 0.2 bar | 0.4 bar | 0.5 bar | 0.7 bar | 1 bar | 1.5 bar | 2 bar | 3 bar | 4 bar | 6 bar | 7 bar | 0.5 bar | 1.5 bar | 6 bar |
| 3/8 | ● | 3-2W | 2.4 | 2.0 | – | – | .73 | .84 | 1.0 | 1.2 | 1.4 | 1.7 | 2.0 | 2.5 | 2.7 | 112 | 109 | 90 |
| | ● | 3-3W | 2.4 | 2.8 | – | – | .96 | 1.1 | 1.4 | 1.7 | 1.9 | 2.4 | 2.7 | 3.4 | 3.6 | 115 | 112 | 97 |
| | ● | 3-5W | 2.4 | 3.2 | – | – | 1.1 | 1.3 | 1.6 | 1.9 | 2.2 | 2.7 | 3.1 | 3.8 | 4.2 | 117 | 113 | 103 |
| | ● | 5-5W | 2.8 | 3.2 | – | – | 1.6 | 1.9 | 2.3 | 2.8 | 3.2 | 3.9 | 4.5 | 5.6 | 6.1 | 115 | 112 | 102 |
| | ● | 5-10W | 2.8 | 4.4 | – | 1.5 | 2.1 | 2.5 | 3.0 | 3.6 | 4.1 | 5.1 | 6.0 | 7.2 | 8.0 | 119 | 119 | 109 |
| | ● | 8-8W | 3.9 | 3.9 | – | 1.8 | 2.6 | 3.1 | 3.6 | 4.4 | 5.2 | 6.3 | 7.4 | 9.0 | 9.5 | 116 | 110 | 98 |
| | ● | 8-10W | 3.9 | 4.4 | – | 2.1 | 2.9 | 3.4 | 4.1 | 5.1 | 6.0 | 7.1 | 8.2 | 9.9 | 10.7 | 118 | 113 | 101 |
| | ● | 10-10W | 3.9 | 4.4 | – | 2.3 | 3.2 | 3.8 | 4.5 | 5.5 | 6.3 | 7.9 | 9.3 | 11.0 | 11.8 | 118 | 111 | 100 |
| 1/2 | ● | 5-3W | 3.2 | 2.8 | .67 | .75 | 1.0 | 1.2 | 1.5 | 1.8 | 2.0 | 2.5 | 2.9 | 3.5 | 3.8 | 118 | 113 | 100 |
| | ● | 5-5W | 3.2 | 3.2 | 1.0 | 1.1 | 1.6 | 1.9 | 2.3 | 2.8 | 3.2 | 3.9 | 4.5 | 5.6 | 6.1 | 121 | 116 | 102 |
| | ● | 8-8W | 3.9 | 3.9 | 1.6 | 1.8 | 2.6 | 3.1 | 3.6 | 4.4 | 5.2 | 6.3 | 7.4 | 9.0 | 9.5 | 119 | 113 | 103 |
| | ● | 10-15W | 4.4 | 5.6 | 2.5 | 2.8 | 3.9 | 4.6 | 5.6 | 6.7 | 7.8 | 9.5 | 11.1 | 13.4 | 14.5 | 120 | 112 | 102 |
| | ● | 15-15W* | 4.4 | 5.6 | 3.0 | 3.4 | 5.0 | 5.7 | 6.7 | 8.3 | 9.7 | 11.9 | 14.1 | 16.7 | 18.3 | 117 | 111 | 104 |
| 3/4 | ● | 8-25W | 4.4 | 7.5 | 2.6 | 2.9 | 4.2 | 5.0 | 6.0 | 7.5 | 8.6 | 10.3 | 11.9 | 14.6 | 15.6 | 124 | 120 | 111 |
| | ● | 10-10W | 5.2 | 4.4 | 2.0 | 2.2 | 3.2 | 3.8 | 4.5 | 5.5 | 6.3 | 7.9 | 9.3 | 11.0 | 11.8 | 118 | 111 | 100 |
| | ● | 10-30W | 5.2 | 7.9 | 3.7 | 4.1 | 6.2 | 7.2 | 8.6 | 10.3 | 11.9 | 14.6 | 16.8 | 21 | 23 | 124 | 117 | 108 |
| | ● | 15-15W | 6.4 | 5.6 | 3.0 | 3.4 | 5.0 | 5.7 | 6.7 | 8.3 | 9.7 | 11.9 | 13.8 | 16.7 | 18.3 | 117 | 112 | 102 |
| | ● | 15-25W | 6.4 | 7.5 | 4.1 | 4.6 | 6.2 | 7.3 | 8.9 | 10.7 | 12.6 | 15.4 | 17.9 | 22 | 23 | 119 | 114 | 106 |
| | ● | 20-25W | 7.1 | 7.5 | 4.8 | 5.4 | 8.1 | 9.5 | 11.5 | 13.8 | 16.0 | 19.7 | 23 | 28 | 30 | 118 | 112 | 105 |
| | ● | 20-30W | 7.1 | 7.9 | 5.2 | 5.8 | 8.5 | 9.9 | 11.9 | 14.6 | 16.8 | 21 | 24 | 29 | 31 | 118 | 112 | 105 |
| | ● | 25-25W | 7.1 | 7.5 | 5.2 | 5.8 | 8.1 | 9.5 | 11.5 | 13.8 | 16.0 | 19.7 | 23 | 28 | 30 | 117 | 110 | 103 |
| | ● | 25-30W | 7.1 | 7.9 | 5.6 | 6.3 | 8.9 | 10.7 | 12.7 | 15.8 | 18.2 | 22 | 26 | 31 | 34 | 117 | 110 | 103 |

*Dual inlets, each in diameter specified.

Highlighted column shows the rated pressure.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

| Inlet Conn. (in.) | Nozzle Type BDM | Capacity Size | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | Spray Angle (°) | | |
|-------------------|--------------------|---------------|------------------------|--|---------|-------|-------|--------|--------|--------|--------|-----------------|-------|--------|
| | | | | 0.7 bar | 1.5 bar | 3 bar | 7 bar | 15 bar | 20 bar | 25 bar | 35 bar | 1.5 bar | 7 bar | 35 bar |
| 3/8 | ● | 2-0.5 | 1.2 | – | – | .63 | .96 | 1.4 | 1.6 | 1.8 | 2.2 | – | 52 | 45 |
| | ● | 2-1 | 1.6 | – | .61 | .87 | 1.3 | 1.9 | 2.2 | 2.5 | 3.0 | 53 | 65 | 50 |
| | ● | 2 | 2.0 | .76 | 1.1 | 1.6 | 2.4 | 3.5 | 4.1 | 4.6 | 5.4 | 60 | 69 | 62 |
| | ● | 3-2 | 2.0 | .84 | 1.2 | 1.7 | 2.7 | 3.9 | 4.5 | 5.0 | 5.9 | 57 | 68 | 58 |
| | ● | 3 | 2.4 | 1.1 | 1.7 | 2.4 | 3.6 | 5.3 | 6.1 | 6.8 | 8.1 | 64 | 75 | 64 |
| | ● | 5 | 3.2 | 1.9 | 2.8 | 3.9 | 6.0 | 8.8 | 10.2 | 11.4 | 13.5 | 73 | 78 | 72 |
| | ● | 10-2 | 2.0 | 1.3 | 2.0 | 2.8 | 4.2 | 6.2 | 7.1 | 8.0 | 9.4 | 30 | 46 | 40 |
| | ● | 20-10 | 4.4 | 5.3 | 7.8 | 11.1 | 16.9 | 25 | 29 | 32 | 38 | 61 | 60 | 49 |

Maximum recommended operating pressure is 500 psi (34.5 bar).

Highlighted column shows the rated pressure.



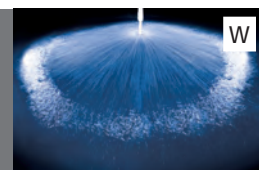
S PERFORMANCE DATA:
STANDARD ANGLE SPRAY



| Inlet Conn. (in.) | Nozzle Type BA | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | Spray Angle (°) | | |
|-------------------|-------------------|---------------|----------------------|------------------------|--|---------|---------|-------|-------|-------|-----------------|---------|-------|
| | | | | | 0.4 bar | 0.7 bar | 1.5 bar | 3 bar | 4 bar | 7 bar | 0.5 bar | 1.5 bar | 6 bar |
| 3/8 | ● | 3 | 2.4 | 2.4 | .86 | 1.1 | 1.7 | 2.4 | 2.7 | 3.6 | 52 | 64 | 77 |
| | ● | 5 | 3.6 | 3.2 | 1.4 | 1.9 | 2.8 | 3.9 | 4.6 | 6.0 | 64 | 73 | 79 |
| | ● | 8 | 4.8 | 4.0 | 2.3 | 3.1 | 4.5 | 6.3 | 7.3 | 9.6 | 62 | 70 | 74 |
| | ● | 10 | 5.2 | 4.4 | 2.9 | 3.8 | 5.6 | 7.9 | 9.1 | 12.1 | 64 | 72 | 75 |
| | ● | 15 | 6.4 | 5.6 | 4.3 | 5.7 | 8.4 | 11.8 | 13.7 | 18.1 | 64 | 72 | 74 |
| | ● | 20 | 7.1 | 6.4 | 5.8 | 7.6 | 11.2 | 15.8 | 18.2 | 24 | 63 | 70 | 74 |
| | ● | 25 | 7.5 | 7.5 | 7.2 | 9.5 | 14.0 | 19.7 | 23 | 30 | 63 | 70 | 74 |
| 1/2 | ● | 25 | 9.5 | 6.4 | 7.2 | 9.5 | 14.0 | 19.7 | 23 | 30 | 63 | 66 | 71 |
| | ● | 30 | 9.5 | 7.5 | 8.6 | 11.4 | 16.8 | 24 | 27 | 36 | 67 | 71 | 75 |
| | ● | 40 | 9.5 | 9.1 | 11.5 | 15.3 | 22 | 32 | 36 | 48 | 72 | 76 | 78 |
| | ● | 50 | 9.5 | 11.1 | 14.4 | 19.1 | 28 | 39 | 46 | 60 | 74 | 79 | 82 |
| | ● | 60 | 9.5 | 13.1 | 17.3 | 23 | 34 | 47 | 55 | 72 | 77 | 82 | 86 |

Highlighted column shows the rated pressure.

W PERFORMANCE DATA:
WIDE ANGLE SPRAY



| Inlet Conn. (in.) | Nozzle Type DeflectoJet® 8686 | Capacity Size | Flow Rate Capacity (liters per minute) | | | | | | |
|-------------------|----------------------------------|---------------|--|---------|---------|-------|-------|-------|-------|
| | | | 0.4 bar | 0.7 bar | 1.5 bar | 3 bar | 4 bar | 6 bar | 7 bar |
| 1/8 | ● | .37 | 1.1 | 1.4 | 2.1 | 3.0 | 3.4 | 4.2 | 4.5 |
| | ● | .5 | 1.4 | 1.9 | 2.8 | 4.0 | 4.6 | 5.6 | 6.0 |
| | ● | .75 | 2.2 | 2.9 | 4.2 | 5.9 | 6.8 | 8.4 | 9.0 |
| 1/4 | ● | 1 | 2.9 | 3.8 | 5.6 | 7.9 | 9.1 | 11.2 | 12.1 |
| | ● | 1.5 | 4.3 | 5.7 | 8.3 | 11.8 | 13.7 | 16.8 | 18.1 |
| | ● | 2 | 5.8 | 7.7 | 11.2 | 15.8 | 18.2 | 22 | 24 |
| | ● | 2.5 | 7.2 | 9.5 | 13.9 | 19.7 | 23 | 28 | 30 |
| 3/8 | ● | 3 | 8.8 | 11.6 | 17.0 | 24 | 27 | 34 | 36 |
| | ● | 3.5 | 10.4 | 13.7 | 20 | 28 | 32 | 39 | 42 |
| | ● | 4 | 11.9 | 15.7 | 23 | 32 | 36 | 45 | 48 |
| | ● | 4.5 | 12.9 | 17.1 | 25 | 36 | 41 | 50 | 54 |
| | ● | 5 | 14.4 | 19.1 | 28 | 39 | 46 | 56 | 60 |

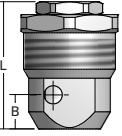
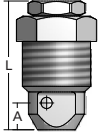
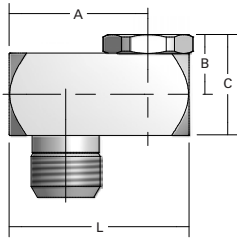
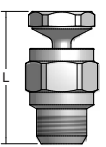
Highlighted column shows the rated pressure.



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DIMENSIONS AND WEIGHTS

| Nozzle | Nozzle Type | Inlet Conn. (in.) | L (mm) | Hex. (in.) | A (mm) | B (mm) | C (mm) | Net Weight (kg) |
|---|-----------------|-------------------|--------|------------|--------|--------|--------|-----------------|
|  | BD (M) | 3/8 | 31.8 | 11/16 | – | 6.7 | – | 0.03 |
| | | 1/2 | 37.3 | 7/8 | – | 8.0 | – | 0.06 |
| | | 3/4 | 44.5 | 1-1/16 | – | 9.5 | – | 0.11 |
| | | 1-1/2 | 66.7 | 2 | – | 8.0 | – | 0.60 |
| | BD-W (M) | 3/8 | 31.8 | 11/16 | – | 6.7 | – | 0.03 |
| | | 1/2 | 37.3 | 7/8 | – | 7.9 | – | 0.06 |
| | | 3/4 | 44.4 | 1-1/16 | – | 9.5 | – | 0.11 |
|  | BDM (M) | 3/8 | 32.5 | 11/16 | 6.7 | – | – | 0.01 |
|  | BA (M) | 3/8 | 38.1 | – | 26.6 | 14.7 | 24.2 | 0.11 |
| | | 1/2 | 55.6 | – | 42.9 | 14.7 | 27.4 | 0.27 |
|  | 8686 (M) | 1/8 | 30.2 | 1/2 | – | – | – | 0.02 |
| | | 1/4 | 33.3 | 5/8 | – | – | – | 0.03 |
| | | 3/8 | 44.5 | 7/8 | – | – | – | 0.08 |

Based on the largest/heaviest version of each type.

