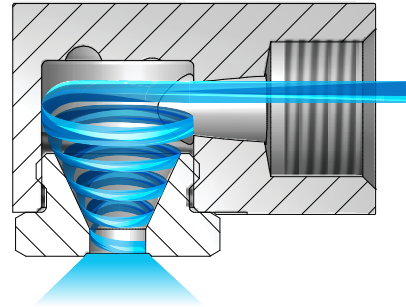


OVERVIEW: WHIRLJET STANDARD, WIDE AND EXTRA WIDE ANGLE NOZZLES

- Hollow cone spray pattern with a circular impact area
- Large, unobstructed flow passages minimize clogging
- Good atomization of liquids at lower pressures – ideal for fluid cooling applications
- Removable caps for easy inspection and cleaning on some models
- Slope-bottom design models reduce the drilling effect of the fluid vortex in the fluid chamber and premature wear
- AX and BX nozzles form smaller drops; ideal for use in air washers and dust suppression applications
- CX, CF, CRC and D nozzles feature higher flow rates; ideal for use in larger, evaporative cooling spray ponds
- AP, LAP and LBP nozzles are constructed of polypropylene and feature excellent corrosion resistance at temperatures up to 160°F (71°C); patented center post design provides extended wear life of the nozzle
- Standard, wide and extra wide spray angles

WhirlJet Nozzles

As liquid enters the nozzle, it passes into a whirlchamber and begins to spin in a circle at high speed. The rotation forces the liquid away from the center toward the edges of the whirlchamber. This causes the liquid to exit the orifice in a hollow cone pattern. Some WhirlJet nozzles have a slope bottom in the whirlchamber that helps extend wear life.



WHIRLJET AX, BX, CX AND D NOZZLES

- Spray angles: Standard – 43° to 91°, Wide – 112° to 120°
- Uniform spray distribution:
 - AX and BX nozzles – from .03 to 38 gpm (.19 to 145 lpm)
 - CX, CRC, CF and D nozzles – from 2.0 to 2362 gpm (7.3 to 9010 lpm)
- Operating pressures from 3.0 to 100 psi (0.2 to 7.0 bar)

Contact your local sales engineer for information about junction boxes.

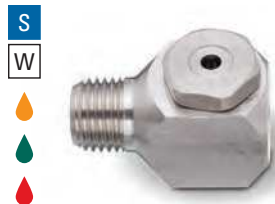


AX
1/8" to 3/4" female conn.
Slope-bottom design
Removable cap



CX
1" to 2-1/2" female conn.
Slope-bottom design
One-piece cast-type

WHIRLJET OPTIONS



BX – 1/8" to 3/4" male conn.
Slope-bottom design
Removable cap



CRC
1-1/4" to 4" female conn.
Two-piece cast-type



CF
4" to 6" flange conn.
Two-piece cast-type



D
1/2" to 3/4" male conn.
One-piece cast-type

**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.

WHIRLJET AP, LAP, LBP AND E NOZZLES

- Spray angles: Standard – 43° to 91°, Wide – 112° to 120°, Extra wide – 144° to 165°
- Uniform spray distribution:
 - AP, LAP and LBP nozzles – from .14 to 18.9 gpm (.20 to 15.9 lpm)
 - E nozzles – from .11 to 16.8 gpm (.41 to 64 lpm)
- Operating pressures from 3.0 to 100 psi (0.2 to 7.0 bar)



AP
1/4" to 3/8" female conn.



E
One-piece bar stock
1/4" to 3/8" female conn.

WHIRLJET OPTIONS

LAP
3/8" to 1/2" female conn.

LBP
3/8" male conn.

E
One-piece cast-type
3/8" to 1/2" female conn.

ORDERING INFORMATION

WHIRLJET AX

| | | | | | |
|-------------|-------------|---|---------------|---------------|----------------|
| Inlet Conn. | Nozzle Type | – | Material Code | Capacity Size | Example |
| | | | | | 1/4 AX – SS 10 |

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

WHIRLJET AP-W (9360)

| | | | | | | |
|-------------------|-------------|-------------|---|---------------|---------------|-------------------------|
| Nozzle Series No. | Inlet Conn. | Nozzle Type | – | Material Code | Capacity Size | Example |
| | | | | | | 9360 – 3/8 AP – PP 3-5W |

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

WHIRLJET CF FLANGE CONNECTION

| | | | | | |
|-------------|-------------|---|---------------|---------------|------------------|
| Inlet Conn. | Nozzle Type | – | Material Code | Capacity Size | Example |
| | | | | | 6 CF – SS 550-65 |

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

WHIRLJET E

| | | | | | |
|-------------|-------------|---|---------------|---------------|----------------|
| Inlet Conn. | Nozzle Type | – | Material Code | Capacity Size | Example |
| | | | | | 1/4 E – SS 10 |

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

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

| Inlet Conn. (in.) | Nozzle Type | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | | | | | Spray Angle (°) | | |
|-------------------|-------------|---------------|----------------------|------------------------|--|---------|---------|---------|---------|-------|---------|-------|-------|-------|-------|-------|-----------------|---------|-------|
| | | | | | 0.2 bar | 0.3 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 | 0.7 bar | 1.5 bar | 4 bar |
| 1/2 | ● | 3 | 11.1 | 7.9 | 7.3 | 9.0 | 10.3 | 11.6 | 13.7 | 16.3 | 20 | 23 | 28 | 33 | 40 | 43 | 62 | 65 | 67 |
| | ● | 4 | 11.1 | 9.9 | 9.7 | 11.9 | 13.8 | 15.4 | 18.2 | 22 | 27 | 31 | 38 | 44 | 53 | 58 | 68 | 71 | 73 |
| | ● | 5 | 11.1 | 11.9 | 12.2 | 14.9 | 17.2 | 19.3 | 23 | 27 | 33 | 39 | 47 | 54 | 67 | 72 | 74 | 77 | 80 |
| | ● | 7 | 11.1 | 13.9 | 17.1 | 21 | 24 | 27 | 32 | 38 | 47 | 54 | 66 | 76 | 93 | 101 | 77 | 80 | 83 |
| 3/4 | ● | 4 | 14.3 | 9.1 | 9.7 | 11.9 | 13.8 | 15.4 | 18.2 | 22 | 27 | 31 | 38 | 44 | 53 | 58 | 63 | 66 | 67 |
| | ● | 5 | 14.3 | 10.7 | 12.2 | 14.9 | 17.2 | 19.3 | 23 | 27 | 33 | 39 | 47 | 54 | 67 | 72 | 67 | 69 | 70 |
| | ● | 6 | 14.3 | 12.3 | 14.6 | 17.9 | 21 | 23 | 27 | 33 | 40 | 46 | 57 | 65 | 80 | 86 | 71 | 73 | 77 |
| | ● | 7 | 14.3 | 13.9 | 17.1 | 21 | 24 | 27 | 32 | 38 | 47 | 54 | 66 | 76 | 93 | 101 | 73 | 75 | 80 |
| | ● | 10 | 14.3 | 16.7 | 24 | 30 | 34 | 39 | 46 | 54 | 67 | 77 | 94 | 109 | 133 | 144 | 77 | 80 | 84 |

Highlighted column shows the rated pressure.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

| Nozzle Type/ Inlet Conn. (in.) | | | | | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | | Spray Angle (°) | | | |
|-----------------------------------|-----|-----|-----|-----|---------------|----------------------|------------------------|--|---------|---------|---------|---------|-------|-------|-------|-------|-----------------|---------|---------|-------|
| AP | | LAP | | LBP | | | | 0.2 bar | 0.4 bar | 0.5 bar | 0.7 bar | 1.5 bar | 2 bar | 3 bar | 4 bar | 6 bar | 7 bar | 0.7 bar | 1.5 bar | 6 bar |
| 1/4 | 3/8 | 3/8 | 1/2 | 3/8 | | | | | | | | | | | | | | | | |
| ● | ● | | | | 2 | 2.0 | 2.0 | – | .57 | .64 | .75 | 1.1 | 1.3 | 1.6 | 1.8 | 2.2 | 2.4 | 53 | 70 | 80 |
| ● | ● | | | | 2-3 | 2.0 | 2.4 | – | .69 | .77 | .89 | 1.3 | 1.5 | 1.9 | 2.2 | 2.7 | 2.9 | 61 | 76 | 83 |
| ● | ● | | | | 2-5 | 2.0 | 2.8 | – | .80 | .90 | 1.1 | 1.6 | 1.8 | 2.2 | 2.6 | 3.1 | 3.4 | 63 | 81 | 90 |
| ● | ● | | | | 2-8 | 2.0 | 3.6 | – | .98 | 1.1 | 1.2 | 1.8 | 2.1 | 2.6 | 3.0 | 3.7 | 4.0 | 71 | 87 | 95 |
| ● | ● | | | | 2-10 | 2.0 | 4.4 | – | 1.1 | 1.2 | 1.4 | 2.0 | 2.3 | 2.8 | 3.3 | 4.0 | 4.3 | 72 | 94 | 104 |
| ● | ● | | | | 2-15 | 2.0 | 5.2 | – | 1.2 | 1.3 | 1.5 | 2.2 | 2.5 | 3.1 | 3.6 | 4.4 | 4.7 | 77 | 100 | 111 |
| ● | ● | | | | 2-20 | 2.0 | 6.0 | – | 1.3 | 1.4 | 1.7 | 2.5 | 2.8 | 3.5 | 4.0 | 4.9 | 5.3 | 81 | 103 | 113 |
| ● | ● | | | | 3-2 | 2.4 | 2.0 | – | .75 | .84 | 1.0 | 1.5 | 1.7 | 2.1 | 2.4 | 2.9 | 3.1 | 58 | 67 | 76 |
| ● | ● | | | | 3 | 2.4 | 2.4 | – | .87 | .97 | 1.2 | 1.7 | 1.9 | 2.4 | 2.7 | 3.3 | 3.6 | 55 | 79 | 80 |
| ● | ● | | | | 3-5 | 2.4 | 2.8 | – | 1.1 | 1.2 | 1.4 | 2.0 | 2.3 | 2.8 | 3.3 | 4.0 | 4.3 | 72 | 82 | 86 |
| ● | ● | | | | 3-8 | 2.4 | 3.6 | – | 1.3 | 1.4 | 1.7 | 2.5 | 2.8 | 3.5 | 4.0 | 4.9 | 5.3 | 73 | 88 | 92 |
| ● | ● | | | | 3-10 | 2.4 | 4.4 | – | 1.4 | 1.5 | 1.8 | 2.7 | 3.1 | 3.8 | 4.4 | 5.4 | 5.8 | 81 | 94 | 97 |
| ● | ● | | | | 3-15 | 2.4 | 5.2 | – | 1.6 | 1.8 | 2.1 | 3.1 | 3.5 | 4.3 | 5.0 | 6.1 | 6.6 | 83 | 93 | 100 |
| ● | ● | | | | 3-20 | 2.4 | 6.0 | – | 1.8 | 2.0 | 2.4 | 3.5 | 4.0 | 4.9 | 5.7 | 6.9 | 7.5 | 90 | 100 | 107 |
| ● | ● | | | | 5-2 | 3.6 | 2.0 | – | – | – | 1.4 | 2.0 | 2.3 | 2.8 | 3.3 | 4.0 | 4.3 | 49 | 61 | 67 |
| ● | ● | | | | 5-3 | 3.6 | 2.4 | – | – | 1.3 | 1.6 | 2.3 | 2.6 | 3.2 | 3.7 | 4.6 | 4.9 | 57 | 68 | 69 |
| ● | ● | | | | 5 | 3.6 | 2.8 | – | 1.4 | 1.6 | 2.2 | 2.8 | 3.2 | 3.9 | 4.6 | 5.6 | 6.0 | 70 | 75 | 79 |
| ● | ● | | | | 5-8 | 3.6 | 3.6 | – | 1.7 | 1.9 | 2.3 | 3.3 | 3.9 | 4.7 | 5.5 | 6.7 | 7.2 | 80 | 78 | 82 |
| ● | ● | | | | 5-10 | 3.6 | 4.4 | – | 2.0 | 2.2 | 2.5 | 3.7 | 4.3 | 5.3 | 6.1 | 7.5 | 8.1 | 80 | 87 | 89 |
| ● | ● | | | | 5-15 | 3.6 | 5.2 | – | 2.3 | 2.6 | 3.1 | 4.5 | 5.2 | 6.3 | 7.3 | 8.9 | 9.6 | 83 | 91 | 95 |
| ● | ● | | | | 5-20 | 3.6 | 6.0 | – | 2.5 | 2.8 | 3.3 | 4.8 | 5.5 | 6.8 | 7.8 | 9.6 | 10.4 | 88 | 98 | 102 |

Highlighted column shows the rated pressure.



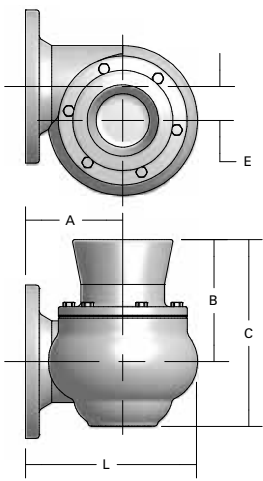
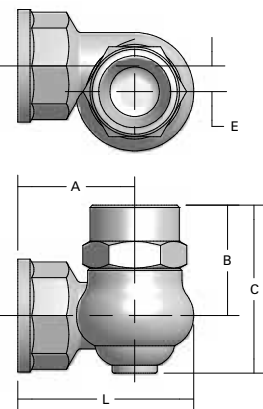
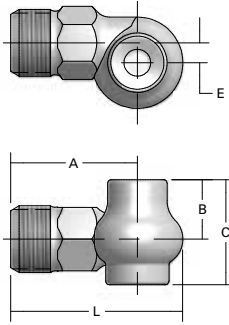
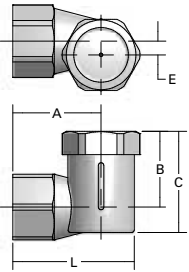
S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

| Nozzle Type/ Inlet Conn. (in.) | | | | | Capacity Size | Inlet Dia. Nom. (mm) | Orifice Dia. Nom. (mm) | Flow Rate Capacity (liters per minute) | | | | | | | | | | Spray Angle (°) | | |
|-----------------------------------|-----|-----|-----|-----|------------------|-------------------------------|---------------------------------|--|------------|------------|------------|------------|----------|----------|----------|----------|----------|-----------------|------------|----------|
| AP | | LAP | | LBP | | | | 0.2 bar | 0.4 bar | 0.5 bar | 0.7 bar | 1.5 bar | 2 bar | 3 bar | 4 bar | 6 bar | 7 bar | 0.7 bar | 1.5 bar | 6 bar |
| 1/4 | 3/8 | 3/8 | 1/2 | 3/8 | | | | | | | | | | | | | | | | |
| ● | ● | | | | 8-5 | 4.4 | 2.8 | - | 1.7 | 1.9 | 2.2 | 3.3 | 3.9 | 4.7 | 5.5 | 6.7 | 7.2 | 60 | 68 | 71 |
| ● | ● | | | | 8 | 4.4 | 3.6 | 1.6 | 2.3 | 2.6 | 3.1 | 4.5 | 5.2 | 6.3 | 7.3 | 8.9 | 9.6 | 65 | 72 | 74 |
| ● | ● | | | | 8-10 | 4.4 | 4.4 | 1.9 | 2.7 | 3.0 | 3.5 | 5.2 | 6.1 | 7.4 | 8.6 | 10.5 | 11.3 | 73 | 81 | 81 |
| ● | ● | | | | 8-15 | 4.4 | 5.2 | 2.2 | 3.1 | 3.5 | 4.1 | 6.1 | 7.1 | 8.7 | 10.0 | 12.3 | 13.3 | 78 | 84 | 87 |
| ● | ● | | | | 8-20 | 4.4 | 6.0 | 2.4 | 3.4 | 3.9 | 4.6 | 6.7 | 7.7 | 9.5 | 10.9 | 13.4 | 14.5 | 84 | 89 | 92 |
| ● | ● | | | | 10-5 | 4.8 | 2.8 | - | - | 2.1 | 2.5 | 3.6 | 4.2 | 5.1 | 5.9 | 7.3 | 7.8 | 55 | 64 | 67 |
| ● | ● | | | | 10-8 | 4.8 | 3.6 | - | 2.5 | 2.8 | 3.3 | 4.8 | 5.5 | 6.8 | 7.8 | 9.6 | 10.4 | 60 | 64 | 66 |
| ● | ● | | | | 10 | 4.8 | 4.4 | 2.0 | 2.8 | 3.2 | 3.8 | 5.6 | 6.4 | 7.9 | 9.1 | 11.2 | 12.1 | 70 | 76 | 75 |
| ● | ● | | | | 10-15 | 4.8 | 5.2 | 2.4 | 3.4 | 3.9 | 4.6 | 6.7 | 7.7 | 9.5 | 10.9 | 13.4 | 14.5 | 76 | 81 | 79 |
| ● | ● | | | | 10-20 | 4.8 | 6.0 | 2.9 | 4.1 | 4.5 | 5.3 | 7.8 | 9.0 | 11.1 | 12.8 | 15.6 | 16.9 | 78 | 85 | 98 |
| ● | ● | | | | 15-5 | 6.0 | 2.8 | - | - | - | 2.9 | 4.2 | 4.9 | 6.0 | 6.9 | 8.5 | 9.2 | 52 | 65 | 60 |
| ● | ● | | | | 15-8 | 6.0 | 3.6 | - | - | 3.2 | 3.8 | 5.6 | 6.4 | 7.9 | 9.1 | 11.2 | 12.1 | 55 | 68 | 64 |
| ● | ● | | | | 15-10 | 6.0 | 4.4 | - | 3.5 | 3.9 | 4.6 | 6.7 | 7.7 | 9.5 | 10.9 | 13.4 | 14.5 | 65 | 75 | 71 |
| ● | ● | | | | 15 | 6.0 | 5.2 | 3.1 | 4.4 | 4.8 | 5.7 | 8.4 | 9.7 | 11.8 | 13.7 | 16.7 | 18.1 | 70 | 72 | 75 |
| ● | ● | | | | 15-20 | 6.0 | 6.0 | 3.5 | 4.9 | 5.5 | 6.5 | 9.5 | 11.0 | 13.4 | 15.5 | 19.0 | 21 | 78 | 80 | 82 |
| | | ● | | | 20-5 | 6.4 | 3.2 | - | - | - | 3.1 | 4.6 | 5.4 | 6.6 | 7.6 | 9.3 | 10.0 | 33 | 40 | 55 |
| | | ● | | | 20-8 | 6.4 | 4.4 | - | - | 3.5 | 4.1 | 6.1 | 7.1 | 8.7 | 10.0 | 12.3 | 13.3 | 40 | 47 | 60 |
| | | ● | | | 20-10 | 6.4 | 4.8 | - | 4.0 | 4.5 | 5.3 | 7.8 | 9.0 | 11.1 | 12.8 | 15.6 | 16.9 | 39 | 55 | 65 |
| | | ● | | | 20-15 | 6.4 | 6.0 | 3.7 | 5.2 | 5.8 | 6.9 | 10.0 | 11.6 | 14.2 | 16.4 | 20 | 22 | 55 | 63 | 68 |
| | | ● | | | 20 | 6.4 | 6.4 | 4.1 | 5.8 | 6.4 | 7.6 | 11.2 | 12.9 | 15.8 | 18.2 | 22 | 24 | 59 | 66 | 70 |
| | | ● | | | 20-25 | 6.4 | 7.5 | 5.1 | 7.2 | 8.1 | 9.6 | 14.0 | 16.1 | 19.7 | 23 | 28 | 30 | 60 | 73 | 77 |
| | | ● | | | 20-40 | 6.4 | 9.1 | 5.9 | 8.3 | 9.3 | 11.0 | 16.2 | 18.7 | 23 | 26 | 32 | 35 | 80 | 82 | 86 |
| | | ● | | | 20-50 | 6.4 | 11.1 | 7.1 | 10.0 | 11.3 | 13.4 | 19.5 | 23 | 28 | 32 | 39 | 42 | 83 | 90 | 97 |
| | | ● | | | 20-60 | 6.4 | 13.1 | 8.2 | 11.6 | 12.9 | 15.3 | 22 | 26 | 32 | 36 | 45 | 48 | 86 | 94 | 99 |
| | | ● | | | 25-8 | 7.1 | 4.4 | - | - | - | 4.6 | 6.7 | 7.7 | 9.5 | 10.9 | 13.4 | 14.5 | 27 | 42 | 57 |
| | | ● | | | 25-10 | 7.1 | 4.8 | 3.1 | 4.4 | 4.8 | 5.7 | 8.4 | 9.7 | 11.7 | 13.7 | 16.7 | 18.1 | 35 | 50 | 59 |
| | | ● | | | 25-15 | 7.1 | 6.0 | 3.9 | 5.5 | 6.1 | 7.2 | 10.6 | 12.2 | 15.0 | 17.3 | 21 | 23 | 44 | 57 | 64 |
| | | ● | | | 25-20 | 7.1 | 6.4 | 4.5 | 6.4 | 7.1 | 8.4 | 12.3 | 14.2 | 17.4 | 20 | 25 | 27 | 53 | 63 | 68 |
| | | ● | | | 25 | 7.1 | 7.5 | 5.1 | 7.2 | 8.1 | 9.6 | 14.0 | 16.1 | 19.7 | 23 | 28 | 30 | 60 | 70 | 74 |
| | | ● | | | 25-40 | 7.1 | 9.1 | 6.5 | 9.2 | 10.3 | 12.2 | 17.9 | 21 | 25 | 29 | 36 | 39 | 69 | 73 | 79 |
| | | ● | | | 25-50 | 7.1 | 11.1 | 8.0 | 11.3 | 12.6 | 14.9 | 22 | 25 | 31 | 36 | 44 | 47 | 76 | 81 | 85 |
| | | ● | | | 25-60 | 7.1 | 13.1 | 9.2 | 13.0 | 14.5 | 17.2 | 25 | 29 | 36 | 41 | 50 | 54 | 83 | 86 | 92 |
| | | ● | ● | ● | 40-8 | 9.1 | 4.4 | - | - | - | 5.7 | 8.4 | 9.7 | 11.8 | 13.7 | 16.7 | 18.1 | 30 | 41 | 48 |
| | | ● | ● | ● | 40-10 | 9.1 | 4.8 | - | - | 5.8 | 6.9 | 10.0 | 11.6 | 14.2 | 16.4 | 20 | 22 | 34 | 45 | 53 |
| | | ● | ● | ● | 40-15 | 9.1 | 6.0 | 4.9 | 6.9 | 7.7 | 9.1 | 13.4 | 15.5 | 18.9 | 22 | 27 | 29 | 44 | 48 | 57 |
| | | ● | ● | ● | 40-20 | 9.1 | 6.4 | 5.5 | 7.8 | 8.7 | 10.3 | 15.1 | 17.4 | 21 | 25 | 30 | 33 | 45 | 52 | 59 |
| | | ● | ● | ● | 40-25 | 9.1 | 7.5 | 6.5 | 9.2 | 10.3 | 12.2 | 17.9 | 21 | 25 | 29 | 36 | 39 | 48 | 56 | 61 |
| | | ● | ● | ● | 40 | 9.1 | 9.1 | 8.2 | 11.6 | 12.9 | 15.3 | 22 | 26 | 32 | 36 | 45 | 48 | 67 | 71 | 73 |
| | | ● | ● | ● | 40-50 | 9.1 | 11.1 | 10.2 | 14.4 | 16.1 | 19.0 | 28 | 32 | 39 | 46 | 56 | 60 | 68 | 80 | 84 |
| | | ● | ● | ● | 40-50.1 | 9.1 | 10.7 | 10.2 | 14.4 | 16.1 | 19.0 | 28 | 32 | 39 | 46 | 56 | 60 | 40 | 47 | 50 |
| | | ● | ● | ● | 40-60 | 9.1 | 13.1 | 12.2 | 17.3 | 19.3 | 23 | 33 | 39 | 47 | 55 | 67 | 72 | 80 | 86 | 90 |

Highlighted column shows the rated pressure.

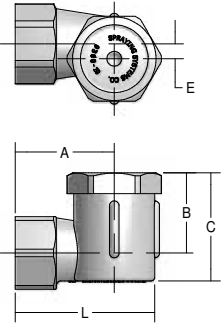
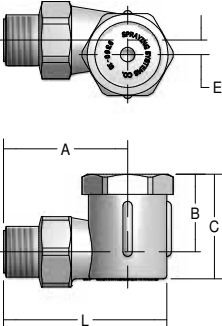
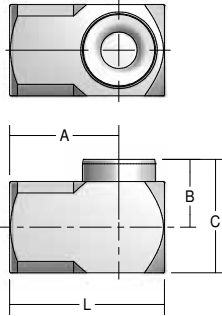
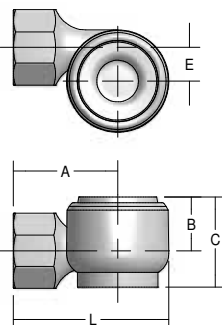


DIMENSIONS AND WEIGHTS

| Nozzle | Nozzle Type | Inlet Conn. (in.) | L (mm) | A (mm) | B (mm) | C (mm) | E (mm) | Net Weight (kg) |
|---|----------------------------|-------------------|--------|--------|--------|--------|--------|-----------------|
|  | CF (Flange) | 4 | 209.6 | 111.9 | 235.0 | 314.3 | 39.7 | 51.71 |
| | | 6 | 311.2 | 174.6 | 220.7 | 338.1 | 61.9 | 57.15 |
|  | CRC (F) | 1-1/4 | 86.5 | 54.0 | 53.2 | 77.8 | 10.3 | 1.02 |
| | | 2 | 123.0 | 81.0 | 77.8 | 118.3 | 18.3 | 2.27 |
| | | 3 | 176.2 | 112.7 | 150.8 | 213.5 | 28.6 | 8.62 |
| | | 4 | 228.6 | 141.3 | 231.8 | 311.2 | 39.7 | 18.14 |
|  | D (M) | 1/2 | 58.7 | 44.5 | 18.3 | 33.3 | 6.4 | 0.14 |
| | | 3/4 | 69.1 | 50.8 | 23.8 | 42.1 | 7.9 | 0.21 |
|  | AP (F) AP-W (F) | 1/4 | 36.5 | 25.4 | 22.0 | 29.4 | 4.0 | 0.01 |
| | | 3/8 | 37.3 | 27.8 | 22.0 | 29.4 | 4.0 | 0.01 |

Based on the largest/heaviest version of each type.

DIMENSIONS AND WEIGHTS

| Nozzle | Nozzle Type | Inlet Conn. (in.) | L (mm) | A (mm) | B (mm) | C (mm) | E (mm) | Net Weight (kg) |
|---|------------------------------------|-------------------|--------|--------|--------|--------|--------|-----------------|
|  | LAP (F) LAP-W (F) | 3/8 | 48.4 | 32.5 | 30.0 | 40.5 | 4.9 | 0.02 |
| | | 1/2 | 51.6 | 35.7 | 30.0 | 40.5 | 4.9 | 0.02 |
|  | LBP (M) LBP-W (M) | 3/8 | 53.2 | 39.7 | 31.4 | 40.5 | 4.9 | 0.02 |
| | | | | | | | | |
|  | E (F) | 1/4 | 31.8 | 22.2 | 12.7 | 19.1 | – | 0.06 |
| | | 3/8 | 50.8 | 34.9 | 15.9 | 31.8 | – | 0.30 |
| | | 1/2 | 60.3 | 41.3 | 19.4 | 41.3 | – | 0.49 |
|  | E (F) Cast | 3/8 | 35.7 | 31.0 | 15.1 | 27.0 | 9.5 | 0.12 |
| | | 1/2 | 55.6 | 36.5 | 17.5 | 31.8 | 12.7 | 0.17 |

Based on the largest/heaviest version of each type.