

XA

Low Flow Air Atomizing

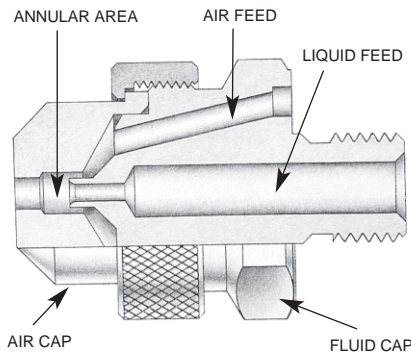
The XA nozzle system uses the energy in compressed air to produce highly atomized sprays at low flow rates. There are many interchangeable components that can be assembled to achieve a variety of spraying objectives.

SPRAY SET-UPS

XA nozzles produce eight distinctly different types of sprays, depending on which interchangeable air and fluid caps are selected. The spray type and flow rate are determined by the "set-up" — a specific combination of one air cap and one fluid cap.

Internal Mix Set-ups

Liquid and air streams meet within the nozzle and are mixed together and expelled through the same orifice(s). This internal mixing means the streams are not independent; a change in air flow will affect the liquid flow. This makes precise metering of the liquid more difficult than with an External Mix Set-up. Internal Mix Set-ups are able to produce the finest atomization of any of the XA set-ups, but they are generally not suitable for use with liquids which have a viscosity that is above 200 centipoise.

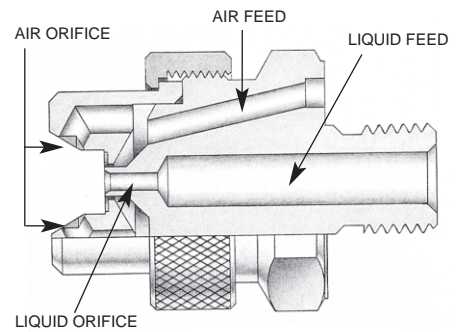


Cutaway View: Internal Mix Set-up

External Mix Set-ups

The air and liquid streams exit the nozzle independently and are combined and mixed outside of the nozzle. Because there is no connection between the air and liquid lines within the nozzle, the air and liquid flow rates can be controlled independently, allowing precise metering of the liquid. The atomization can be controlled by adjusting the air flow rate—more air produces finer atomization. In most cases these set-ups do not atomize as finely as Internal Mix Set-ups.

External Mix Set-ups may be used with liquids having a viscosity above 200 centipoise and for abrasive suspensions. BETE Applications Engineering can provide guidance for spraying high viscosity liquids.



Cutaway View: External Mix Set-up

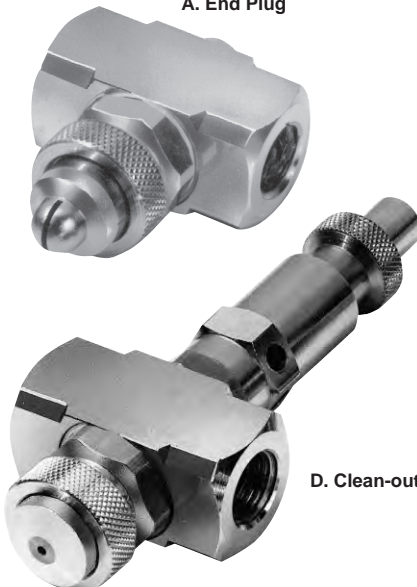
Siphon Set-ups

Internal and External Mix Set-ups require the liquid to be supplied to the nozzle under pressure from a municipal water supply, pump, or pressure vessel. Siphon Set-ups use the flow of compressed air within the nozzle to siphon liquid from a container. Siphon Set-ups are frequently used for spraying additives from a container without the use of a pump. They provide the

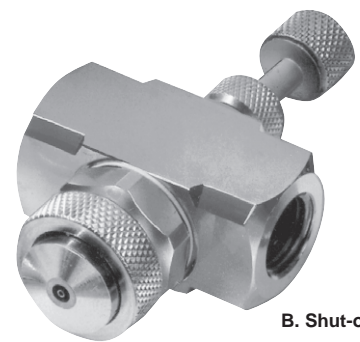
E. Air Operated Shut-off



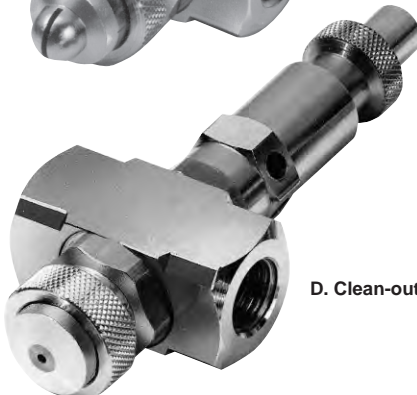
A. End Plug



B. Shut-off



D. Clean-out/Shut-off



Bold letters (A, B, C, D, E, F) refer to hardware assemblies shown on p. 74.

XA Components & Options

lowest flow rates available in the XA series (as low as 0.1 GPH). They are generally not suitable for use with liquids having a viscosity above 200 centipoise.

By supplying the liquid under pressure, SR Set-ups may be used with liquids having a viscosity above 200 centipoise. In this case, the liquid flow rate is regulated by the fluid cap, and can be determined by using the EF chart for the specific fluid cap.

BASIC OPERATION

The basic XA nozzle assembly consists of a body, a spray set-up, and a "hardware assembly" that can provide shut-off and clean-out capabilities.

Non-Automatic Operation

The XA00 Square Body is the basic component of a non-automatic XA nozzle. Air and liquid feeds are located at opposite ends, perpendicular to the spray.

The XA03 Body has air and liquid feeds on one side, perpendicular to the spray axis.

The XA05 Body has air and liquid inlets located in-line with the spray. *Hardware assemblies cannot be used with the XA05 body.*

Hardware Assemblies for Non-Automatic Operation

A. Plug. The minimum option hardware assembly required for XA operation. Provides neither clean-out nor shut-off.

B. Shut-off. Turning the knurled knob will stop the flow of liquid to the nozzle. Should not be used to meter the flow of liquid.

C. Clean-out. Pressing the spring-loaded plunger will force a small diameter rod through the liquid orifice, cleaning any obstruction. Useful for intermittent spraying of a liquid that may dry in the orifice when not in use.

D. Clean-out/Shut-off. Combines functions of hardware assemblies B and C in one unit.



PR Air Cap



Fluid Cap



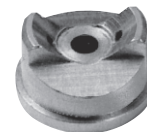
FF Air Cap



SR Air Cap



ER Air Cap



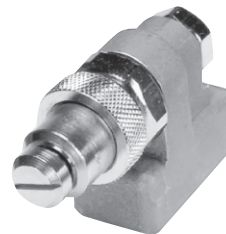
EF Air Cap



XW Air Cap



PF Air Cap

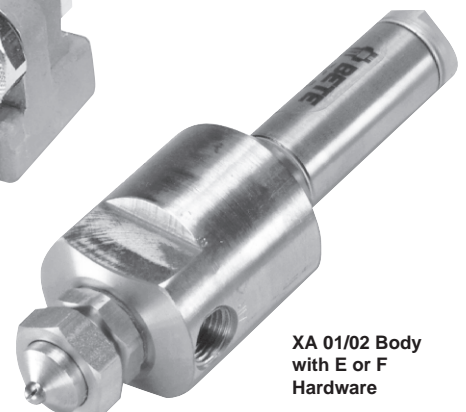


XA03 Body

XA00 Body
with C Hardware



XA05 Body



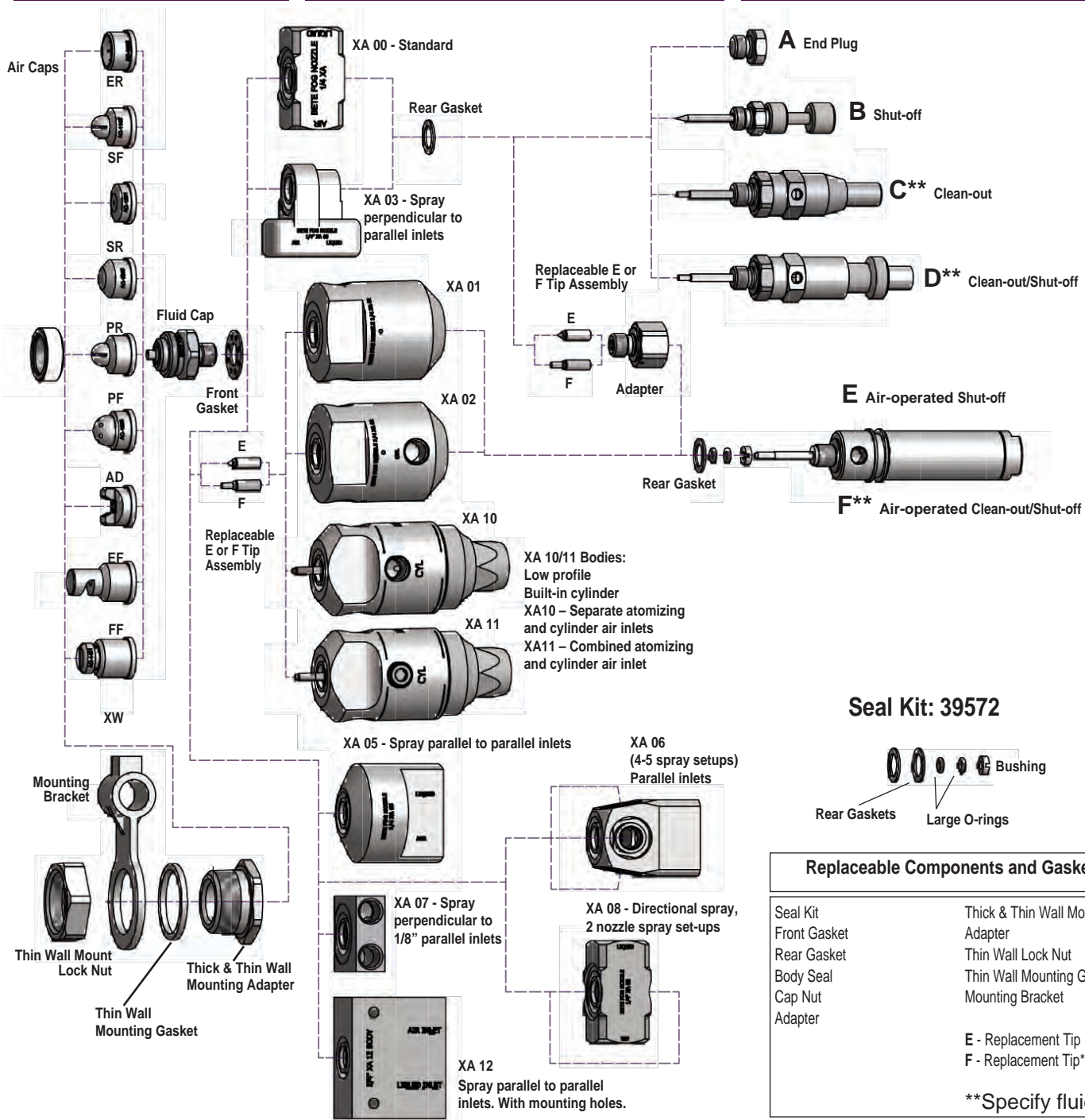
XA 01/02 Body
with E or F
Hardware

XA Components & Options

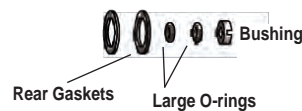
Spray Set-up

Body Styles and Seals

Hardware Assemblies



Seal Kit: 39572

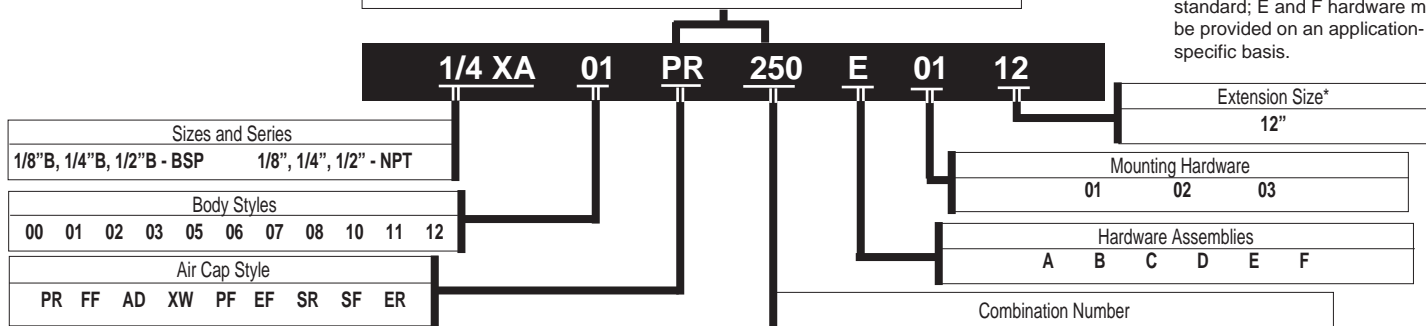


Replaceable Components and Gaskets

| | |
|--------------|---------------------------|
| Seal Kit | Thick & Thin Wall Mount |
| Front Gasket | Adapter |
| Rear Gasket | Thin Wall Lock Nut |
| Body Seal | Thin Wall Mounting Gasket |
| Cap Nut | Mounting Bracket |
| Adapter | |
| | E - Replacement Tip |
| | F - Replacement Tip** |
| | **Specify fluid cap |

TO ORDER

Spray Set-up Number



*For extensions, A hardware is standard; E and F hardware may be provided on an application-specific basis.

AIR ATOMIZING

TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 74.

XA Components & Options

AUTOMATIC OPERATION

For critical applications which require automatic, no-drip, or high-speed spray shut-off, the XA can be supplied with an air cylinder operated shut-off or clean-out/shut-off. These air cylinders provide virtually instantaneous liquid shut-off at rates of up to 180 cycles per minute. *The air cylinders require a minimum of 80 PSI to run that fast.*

Bodies for Automatic Operation

The XA01, XA02, XA10, and XA11 Round Bodies are rugged, highly reliable, and well suited to the rigors of high-cycle automatic operation. They have been designed to simplify the feed piping required for installing automatic nozzles by providing a constant location for the air inlet piping. With their neat, professional appearance, they are particularly recommended for OEM applications.

The XA01 Round Body has one inlet for air and one for liquid. Because the air inlet supplies air for both cylinder movement and liquid atomization, spraying during start-up and shut-off is not as crisp and precise as with the XA02. *The XA01 body cannot be used with atomizing air pressure under 30 PSI.*

The XA02 Round Body has two inlets for air and one inlet for liquid. One of the air inlets supplies the cylinder and the other supplies atomizing air. The XA02 body

must be used when the air cylinder operates at a different pressure from the atomizing air or where the atomizing air is supplied below 30 PSI.

NOTE: The XA00 Square and XA03 Bodies used for non-automatic operation can also be used, with hardware assemblies E or F, for automatic operation. Special design features allow field upgrading to automatic operation.

The XA10 and XA11 Bodies have a built in air-operated cylinder. The integral cylinder provides a smaller profile for use where space is limited.

Hardware Assemblies for Automatic Operation

E. Air-Operated Shut-off. Removal of air pressure to the cylinder causes a spring-loaded poppet valve actuator to shut off liquid flow.

F. Air-Operated Clean-out/Shut-off. Operation similar to E, but includes a clean-out needle.

SOLENOID VALVES

Electrically operated solenoid valves can be used to control the operation of any XA nozzle. BETE can supply solenoid valves matched to your specific application.

Solenoids for Automatic XA Nozzles.

A 3-way, quick-exhaust solenoid valve is required to operate the E or F hardware assembly. The valve is

located in the line that supplies air to the cylinder, as close to the nozzle as possible. Independent control of the atomizing air of an XA02 or square body requires an additional 2-way solenoid valve.

Solenoids for Non-Automatic XA Nozzles.

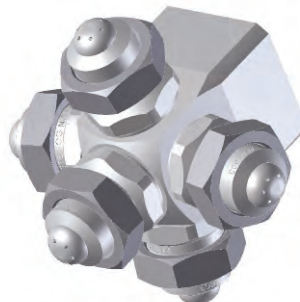
Two-way solenoid valves can be used to stop and start the flow of air and liquid to any non-automatic XA nozzle.

FILTERS, REGULATORS AND STRAINERS

For optimum reliability, every pressure-fed XA nozzle should have a strainer and regulator in the liquid feed line and a filter and regulator in the air feed line. Every XA nozzle with a Siphon Feed Set-up should have a filter and regulator in the air line. The size and type of each of these components depends on the application, and can be determined by your BETE sales representative. BETE maintains an inventory of filters, strainers, and regulators that can be supplied with your XA nozzle to ensure reliable operation. These components can be purchased individually or in kit form.



Simple piping and robust design describe this multiple nozzle XA lance.



The XA06 manifold body can be fitted with up to five nozzle setups and is often used for humidification of large areas.



Corrosion-resistant XA in PVC

XA Components & Options

SPRAY EXTENSIONS

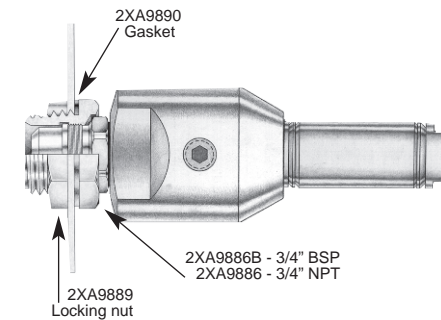
The spray set-up can be moved away from the nozzle body by using optional 6" or 12" extensions. These allow the spray to be moved closer to the target while keeping the nozzle body and associated piping at a distance.

MOUNTING HARDWARE

In many XA installations the nozzle is supported by the rigid metal pipe that supplies air or liquid. There are several components which can provide support for the XA Bodies when it isn't appropriate to suspend the nozzle from piping; for example, when the nozzle will spray through the wall of a tank or duct, or when the air and liquid will be supplied through flexible tubing. All XA bodies except the XA03 can be used with any of the mounting hardware described here.

Thin Wall 02 Adapter

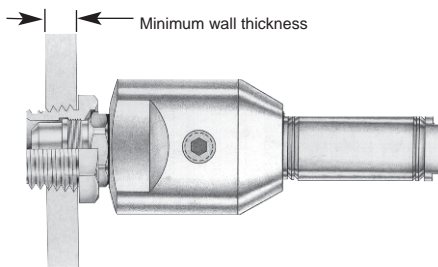
Three-piece adapter used to support an XA nozzle with the body located outside a tank or duct having a relatively thin (less than 3/8") wall and the spray directed into the interior. To use this adapter, a 1-1/16" diameter hole must be drilled through the wall. This adapter both secures the air cap and attaches the nozzle body to the tank wall.



XA02 with Thin Wall 02 Adapter

Thick Wall 01 Adapter

Similar in design and function to the Thin Wall Adapter, but intended for use with tanks or ducts with walls that are thick enough (3/8" or over) to be drilled and tapped for a 3/4" NPT thread.



XA02 with Thick Wall 01 Adapter

Mounting Bracket 03 Adapter

This bracket is used in combination with a Thin Wall Adapter to support an XA nozzle from a 1/2"-diameter metal rod. The bracket allows flexibility in aiming the spray.

MATERIALS

Bodies, Fluid Caps, Air Caps, Hardware Assemblies, Mounting Hardware

The standard materials for the XA series are nickel-plated brass and 303 and 316 stainless steels. Other metals and plastics can be supplied on request. See page 13 for a complete material list.

Air Cylinders

The air cylinders used for XA hardware assemblies E and F have rods and cylinders made of stainless steel and end caps made of anodized aluminum. All metal parts in contact with the spray liquid are 316 stainless steel.

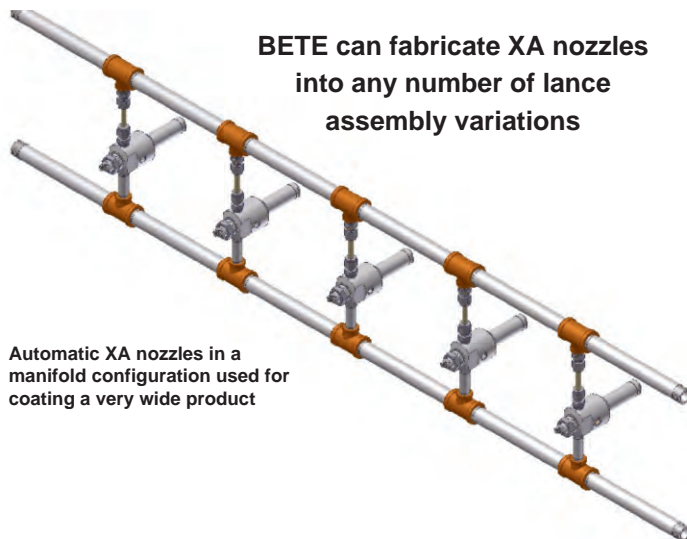
Seals

The standard material for XA gaskets is compressed fiber with a neoprene binder. For installations requiring FDA approval, SBR gaskets are available. Other elastomeric and metallic gasket materials can be supplied on request.

The standard material for O-rings in XA automatics is Viton®. Other materials available on request.

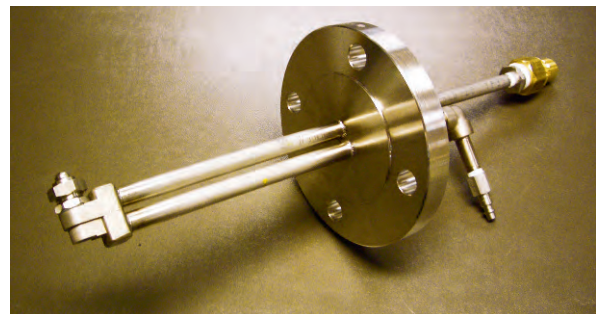


XA03 Mounting Bracket



BETE can fabricate XA nozzles into any number of lance assembly variations

Automatic XA nozzles in a manifold configuration used for coating a very wide product



Spray lance (see pages 18,19) with a right angle XA and quick-connect fittings

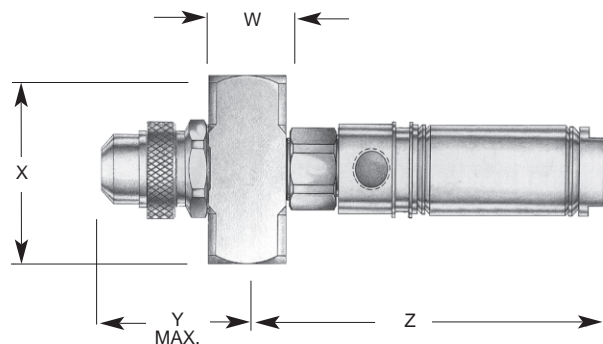
XA Components & Options

Dimensions are approximate. Check with BETE for critical dimension applications.

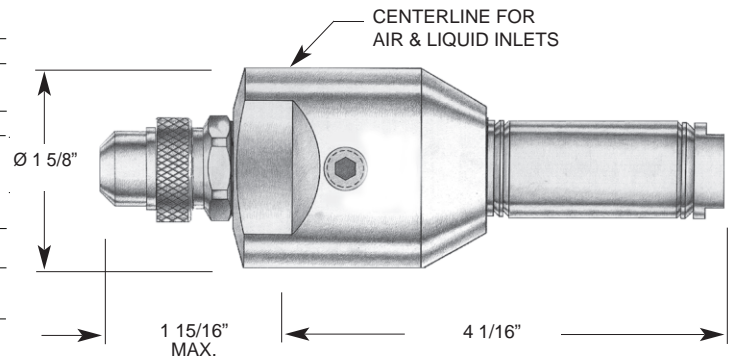
| Spray Set-up Numbers | | | | | |
|----------------------|------------------------------|------------|-----------|---------|--|
| SPRAY SET-UP | PIPE SIZE BSP or NPT | SET-UP NO. | FLUID CAP | AIR CAP | |
| EF | FLAT FAN (EXTERNAL MIX) | EF 050 | FC7 | AC1001 | |
| | | EF 100 | | AC1003 | |
| | | EF 150 | FC4 | AC1001 | |
| | | EF 200 | | AC1003 | |
| | | EF 250 | FC3 | AC1001 | |
| | | EF 300 | | AC1003 | |
| | | EF 350 | FC6 | AC1002 | |
| | | EF 400 | | AC1004 | |
| | | EF 450 | FC2 | AC1002 | |
| | | EF 500 | | AC1004 | |
| | | EF 550 | FC1 | AC1002 | |
| | | EF 600 | | AC1004 | |
| | | EF 650 | FC8 | AC1005 | |
| | | EF 700 | FC9 | AC1005 | |
| EF 750 | FC5 | AC1005 | | | |
| | 1/2 | EF 5050 | FC501 | AC5001 | |
| SF | SIPHON FLAT FAN | SF 050 | FC3 | AC1101 | |
| | | SF 100 | FC6 | AC1102 | |
| | | SF 150 | FC2 | AC1103 | |
| | 1/4 | SF 200 | FC2 | AC1104 | |
| SR | SIPHON ROUND | SR 050 | FC7 | AC1201 | |
| | | SR 150 | FC4 | AC1201 | |
| | | SR 200 | FC4 | AC1202 | |
| | | SR 250 | FC3 | AC1202 | |
| | | SR 400 | FC1 | AC1204 | |
| | | SR 450 | FC5 | AC1205 | |
| | 1/2 | SR 5050 | FC501 | AC5201 | |
| PF | PRESSURE FLAT FAN | PF 050 | FC4 | AC1301 | |
| | | PF 100 | FC3 | AC1303 | |
| | | PF 150 | FC3 | AC1301 | |
| | | PF 200 | FC3 | AC1302 | |
| | | PF 250 | FC2 | AC1304 | |
| | | PF 300 | FC1 | AC1304 | |
| | | PF 350 | FC1 | AC1305 | |
| PF 400 | FC5 | AC1306 | | | |
| XW | EXTRA WIDE-ANGLE ROUND | PF 5050 | FC501 | AC5301 | |
| | | PF 5100 | FC502 | AC5302 | |
| | | XW 050 | FC8 | AC1401 | |
| | 1/2 | XW 5050 | FC502 | AC5401 | |
| PR | PRESSURE ROUND | PR 050 | FC4 | AC1501 | |
| | | PR 100 | FC4 | AC1502 | |
| | | PR 150 | FC3 | AC1502 | |
| | | PR 200 | FC2 | AC1503 | |
| | | PR 250 | FC1 | AC1503 | |
| | | PR 300 | FC5 | AC1504 | |
| | | PR 5050 | FC501 | AC5501 | |
| PR 5100 | FC502 | AC5502 | | | |
| AD | WIDE ANGLE ROUND | AD 050 | FC4 | AC1601 | |
| | | AD 100 | FC2 | AC1603 | |
| | | AD 150 | FC2 | AC1602 | |
| | | AD 200 | FC1 | AC1603 | |
| | | AD 250 | FC1 | AC1604 | |
| | | AD 300 | FC5 | AC1605 | |
| | | AD 5050 | FC501 | AC5601 | |
| | | AD 5100 | FC501 | AC5602 | |
| | | AD 5150 | FC501 | AC5603 | |
| | | AD 5200 | FC502 | AC5604 | |
| FF | DEFLECTED FLAT FAN | FF 050 | FC10 | AC1701 | |
| ER | NARROW ANGLE ROUND | ER 050 | FC7 | AC1801 | |
| | | ER 150 | FC4 | AC1801 | |
| | | ER 250 | FC3 | AC1801 | |
| | | ER 350 | FC6 | AC1802 | |
| | | ER 450 | FC2 | AC1802 | |
| | | ER 550 | FC1 | AC1802 | |
| | | ER 650 | FC3 | AC1803 | |
| | | ER 750 | FC9 | AC1803 | |
| ER 850 | FC5 | AC1803 | | | |

Dimensions with Hardware Options for XA00 Body, BSP or NPT

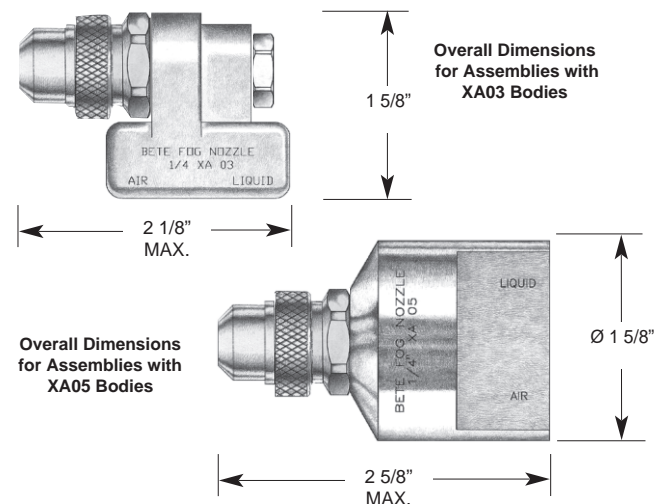
| Pipe Size | Hardware Option | Dimensions in inches | | | |
|------------------|-----------------|----------------------|---------|---------|----------|
| | | W | X | Y | Max. "Z" |
| 1/8 OR 1/4 | A | | | | 9/16 |
| | B | | | | 1 5/8 |
| | C | 7/8 | 1 11/16 | 1 15/16 | 2 5/8 |
| | D | | | | 3 3/16 |
| | E | | | | 4 1/16 |
| | F | | | | 4 1/16 |
| 1/2 | A | 1 1/4 | 2 1/2 | 2 11/16 | 1 |



Overall Dimensions of XA Assemblies with XA00 Body (Shown with E or F Hardware)



Overall Dimensions for Assemblies with XA01 or XA02 Bodies



Overall Dimensions for Assemblies with XA05 Bodies

AIR ATOMIZING

CALL 413-772-0846
Call for the name of your nearest BETE representative.

XA Components & Options

SYSTEM SET-UPS AND ACCESSORIES

BETE carries a complete line of controls and accessories required for setting up a system using the XA Series nozzles.

Contact your BETE representative for details.

Pressure System Set-up

In a pressure-fed system, the liquid is supplied under pressure to either internal or external mix BETE XA Series nozzles.

Air and liquid regulators control the fluid delivery pressure, while the air filter and liquid strainer ensure that the supplied fluids are free of particulate.

Operational control is maintained by manual or solenoid valves used in conjunction with the various hardware assemblies.

Siphon System Set-up

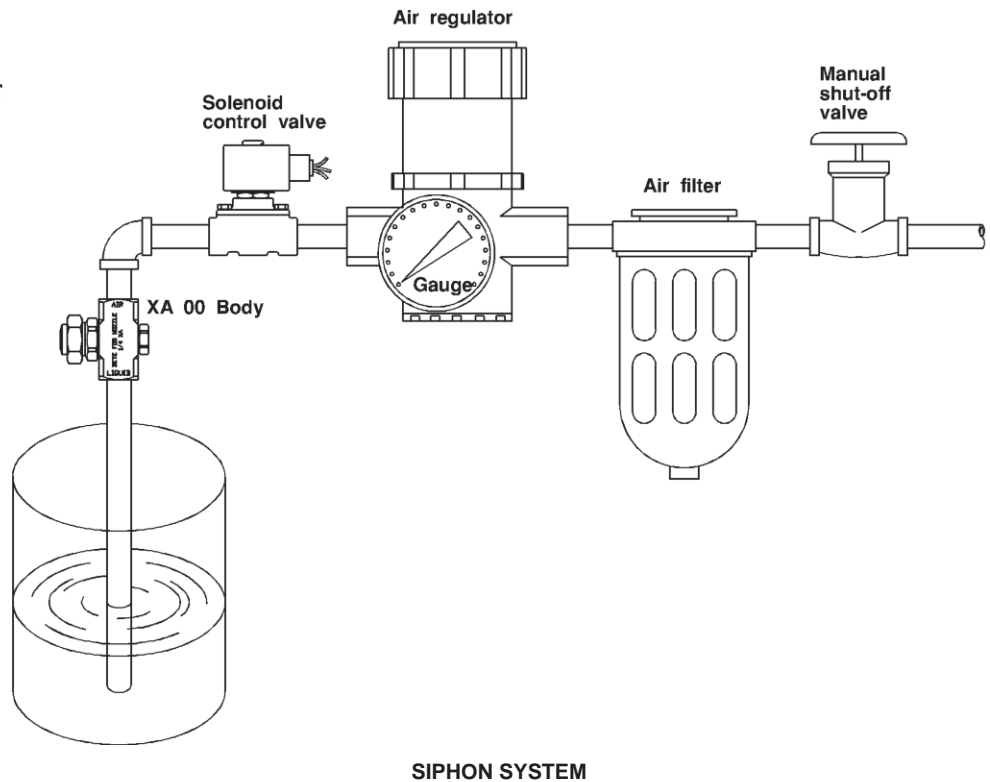
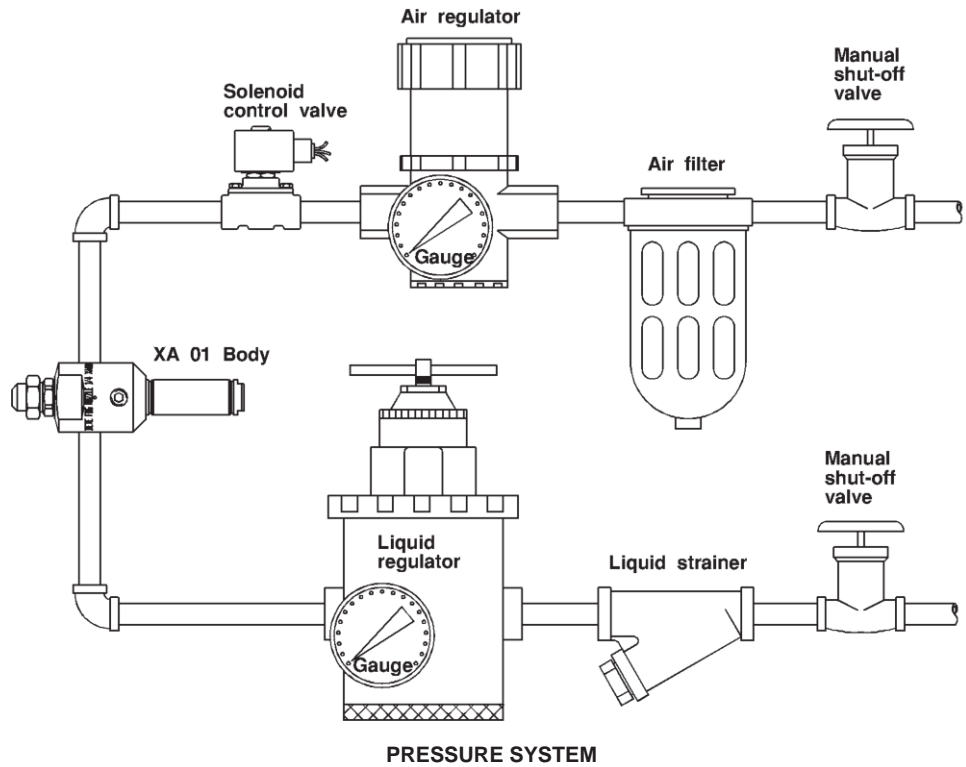
In a siphon-fed system, the liquid is supplied by either a siphon or gravity feed.

An air regulator controls the air delivery pressure, while the air filter ensures that the compressed air is of high quality.

Operational control is maintained by manual or solenoid valves used in conjunction with the various hardware assemblies.

When used as a gravity feed set-up, a positive liquid shutoff capability should be provided.

Filters, regulators, and strainers matched to your XA application are available from stock.



AIR ATOMIZING

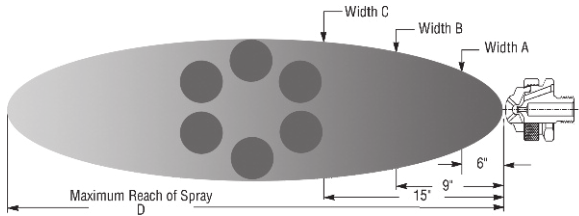
TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 74.

XAAD

Pressure-fed/Int. Mix/Wide Angle Round

DESIGN/SPRAY CHARACTERISTICS

- Internal mix
- 70° Hollow Cone spray pattern
- Finest atomization
- Moderate forward spray projection



Dimensions are approximate. Check with BETE for critical dimension applications.

XA AD Set-up Flow Rates and Dimensions

Pressure Fed, Internal Mix, Wide Angle Round Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 60 PSI Liquid | | | Spray Dimensions | | | | | | | | |
|------------------|---------------------|--------------------------------|--------------------------------|-----|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|------------------|------------|---------|---------|---------|----------|--|--|--|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | PSI liquid | "A" in. | "B" in. | "C" in. | "D" feet | | | |
| 1/8 or 1/4 | AD 050 | Fluid Cap FC4 & Air Cap AC1601 | 8 | 1.4 | 0.4 | 14 | 2.1 | 0.4 | 22 | 2.4 | 0.6 | 30 | 2.5 | 0.7 | 44 | 3.0 | 0.8 | | | | | | | | | |
| | | | 10 | 1.1 | 0.4 | 16 | 1.9 | 0.5 | 26 | 2.0 | 0.7 | 34 | 2.2 | 0.8 | 48 | 2.7 | 0.9 | 10 | 10 | 6 | 7 | 9 | 5'0" | | | |
| | | | 12 | 0.8 | 0.5 | 18 | 1.7 | 0.6 | 30 | 1.6 | 0.8 | 38 | 1.9 | 0.9 | 55 | 2.3 | 1.2 | 20 | 20 | 6 | 8 | 10 | 6'0" | | | |
| | | | 14 | 0.5 | 0.6 | 20 | 1.4 | 0.6 | 34 | 1.2 | 1.0 | 42 | 1.5 | 1.1 | 60 | 1.9 | 1.4 | 34 | 30 | 7 | 8 | 10 | 7'0" | | | |
| | | | | | | 22 | 1.2 | 0.7 | 36 | 0.9 | 1.1 | 46 | 1.1 | 1.3 | 65 | 1.5 | 1.6 | 42 | 40 | 7 | 8 | 11 | 9'0" | | | |
| | | | | | | 24 | 0.9 | 0.8 | 38 | 0.7 | 1.2 | 48 | 0.9 | 1.4 | 70 | 1.1 | 1.8 | 60 | 60 | 8 | 9 | 12 | 12'0" | | | |
| | | | | 26 | 0.6 | 0.9 | 40 | 0.4 | 1.3 | 50 | 0.7 | 1.5 | 75 | 0.7 | 2.1 | | | | | | | | | | | |
| | | AD 100 | Fluid Cap FC2 & Air Cap AC1603 | 12 | 1.9 | 1.8 | 22 | 3.3 | 2.3 | 30 | 5.1 | 2.5 | 38 | 6.4 | 2.8 | 54 | 8.8 | 3.4 | | | | | | | | |
| | 14 | | | 0.6 | 2.2 | 24 | 2.2 | 2.8 | 32 | 4.3 | 2.9 | 42 | 4.7 | 3.4 | 56 | 8.1 | 3.7 | 12 | 10 | 7 | 10 | 13 | 6'0" | | | |
| | | | | | | 26 | | 3.1 | 34 | 3.4 | 3.2 | 44 | 3.9 | 3.7 | 58 | 7.4 | 4.0 | 24 | 20 | 8 | 10 | 13 | 8'0" | | | |
| | | | | | | | | | 36 | 2.5 | 3.5 | 46 | 3.1 | 4.1 | 60 | 6.8 | 4.3 | 34 | 30 | 8 | 10 | 13 | 10'0" | | | |
| | | | | | | | | | 38 | 1.6 | 3.9 | 48 | 2.3 | 4.4 | 65 | 5.1 | 5.1 | 46 | 40 | 8 | 11 | 14 | 13'0" | | | |
| | | | | | | | | | 40 | 0.7 | 4.3 | 50 | 1.4 | 4.8 | 70 | 3.5 | 6.0 | 60 | 60 | 9 | 11 | 15 | 16'0" | | | |
| | | AD 150 | Fluid Cap FC2 & Air Cap AC1602 | 16 | 3.2 | 1.4 | 28 | 4.6 | 2.0 | 42 | 5.3 | 2.7 | 55 | 5.7 | 3.3 | 80 | 7.1 | 4.5 | | | | | | | | |
| | 18 | | | 2.6 | 1.6 | 32 | 3.4 | 2.3 | 46 | 4.0 | 3.0 | 60 | 4.2 | 3.7 | 85 | 5.8 | 4.9 | 22 | 10 | 6 | 8 | 9 | 9'0" | | | |
| | 20 | | | 2.1 | 1.8 | 36 | 2.5 | 2.6 | 48 | 3.5 | 3.1 | 65 | 3.2 | 4.1 | 90 | 4.7 | 5.3 | 40 | 20 | 7 | 8 | 10 | 15'0" | | | |
| | 22 | | | 1.6 | 1.9 | 40 | 1.8 | 2.9 | 50 | 3.0 | 3.3 | 70 | 2.3 | 4.4 | 95 | 3.8 | 5.7 | 50 | 30 | 7 | 8 | 10 | 18'0" | | | |
| | 24 | | | 1.3 | 2.1 | 42 | 1.5 | 3.0 | 55 | 2.1 | 3.6 | 75 | 1.7 | 4.8 | 100 | 3.0 | 6.0 | 70 | 40 | 7 | 9 | 10 | 22'0" | | | |
| | 26 | | | 1.0 | 2.2 | 44 | 1.2 | 3.1 | 60 | 1.5 | 4.0 | 80 | 1.3 | 5.2 | | | | 90 | 60 | 8 | 10 | 11 | 26'0" | | | |
| | | | | 28 | 0.8 | 2.4 | 46 | 1.0 | 3.3 | 65 | 1.0 | 4.4 | 85 | 1.1 | 5.6 | | | | | | | | | | | |
| | | AD 200 | Fluid Cap FC1 & Air Cap AC1603 | 10 | 6.3 | 1.1 | 20 | 9.0 | 1.6 | 30 | 11.2 | 2.0 | 40 | 12.4 | 2.5 | 56 | 16.2 | 2.8 | | | | | | | | |
| | 12 | | | 3.6 | 1.5 | 22 | 6.9 | 2.0 | 32 | 9.3 | 2.4 | 42 | 10.6 | 2.9 | 58 | 14.8 | 3.1 | 12 | 10 | 8 | 10 | 14 | 7'0" | | | |
| | 14 | | | 2.0 | 2.0 | 24 | 5.1 | 2.4 | 34 | 7.4 | 2.8 | 44 | 8.8 | 3.3 | 60 | 13.8 | 3.5 | 22 | 20 | 8 | 11 | 15 | 10'0" | | | |
| | | | | | | 26 | | 2.8 | 36 | 5.4 | 3.2 | 46 | 7.1 | 3.7 | 65 | 9.8 | 4.4 | 34 | 30 | 8 | 11 | 15 | 12'0" | | | |
| | | | | | | | | 38 | 3.6 | 3.6 | 48 | 5.4 | 4.1 | 70 | 6.5 | 5.4 | 46 | 40 | 8 | 11 | 15 | 15'0" | | | | |
| | | | | | | | | 40 | 2.3 | 4.0 | 50 | 3.6 | 4.5 | 75 | 4.0 | 6.3 | 65 | 60 | 8 | 11 | 16 | 19'0" | | | | |
| | AD 250 | Fluid Cap FC1 & Air Cap AC1604 | 18 | 9.4 | 3.0 | 30 | 13.4 | 4.2 | 44 | 15.3 | 5.5 | 60 | 15.6 | 7.1 | 80 | 21.4 | 8.6 | | | | | | | | | |
| 22 | | | 7.7 | 3.6 | 34 | 11.9 | 4.7 | 48 | 13.8 | 5.9 | 70 | 12.5 | 8.3 | 85 | 19.5 | 9.2 | 28 | 10 | 8 | 10 | 13 | 18'0" | | | | |
| 26 | | | 6.0 | 4.1 | 38 | 10.3 | 5.1 | 55 | 11.3 | 6.8 | 80 | 9.3 | 9.5 | 90 | 17.9 | 9.8 | 42 | 20 | 8 | 11 | 14 | 21'0" | | | | |
| 28 | | | 5.2 | 4.4 | 42 | 8.9 | 5.6 | 65 | 7.8 | 8.0 | 85 | 7.8 | 10.1 | 95 | 16.5 | 10.4 | 65 | 30 | 9 | 11 | 15 | 22'0" | | | | |
| 30 | | | 4.4 | 4.7 | 46 | 7.3 | 6.1 | 70 | 6.1 | 8.6 | 90 | 6.2 | 10.7 | 100 | 15.1 | 11.0 | 85 | 40 | 9 | 12 | 15 | 24'0" | | | | |
| 32 | | | 3.7 | 5.0 | 50 | 5.8 | 6.7 | 75 | 4.5 | 9.3 | 95 | 4.8 | 11.3 | | | | 90 | 60 | 10 | 13 | 16 | 28'0" | | | | |
| | | | 34 | 3.0 | 5.3 | 60 | 2.4 | 8.0 | 80 | 3.3 | 9.9 | 100 | 3.7 | 11.9 | | | | | | | | | | | | |
| | AD 300 | Fluid Cap FC5 & Air Cap AC1605 | 24 | 6.7 | 5.5 | 38 | 10.7 | 7.4 | 48 | 16.5 | 8.8 | 60 | 18.6 | 10.4 | 85 | 29.2 | 13.7 | | | | | | | | | |
| 26 | | | 5.2 | 5.9 | 42 | 7.6 | 8.3 | 52 | 12.5 | 9.6 | 65 | 13.7 | 11.4 | 90 | 24.6 | 14.7 | 28 | 10 | 10 | 13 | 18 | 18'0" | | | | |
| 28 | | | 4.0 | 6.3 | 44 | 6.2 | 8.7 | 56 | 9.2 | 10.4 | 70 | 10.0 | 12.4 | 95 | 20.7 | 15.8 | 46 | 20 | 10 | 14 | 19 | 20'0" | | | | |
| 30 | | | 3.0 | 6.8 | 46 | 5.0 | 9.1 | 60 | 6.6 | 11.3 | 75 | 7.4 | 13.5 | 100 | 17.5 | 16.9 | 60 | 30 | 11 | 15 | 20 | 24'0" | | | | |
| | | | | | 48 | 4.0 | 9.5 | 62 | 5.6 | 11.7 | 80 | 5.5 | 14.5 | | | | 75 | 40 | 12 | 15 | 21 | 26'0" | | | | |
| | | | | | 50 | 3.0 | 9.9 | 65 | 4.4 | 12.3 | 85 | 4.0 | 15.5 | | | | 90 | 60 | 13 | 17 | 23 | 28'0" | | | | |
| | | | 52 | 2.4 | 10.3 | 70 | 2.6 | 13.3 | 90 | 2.5 | 16.6 | | | | | | | | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

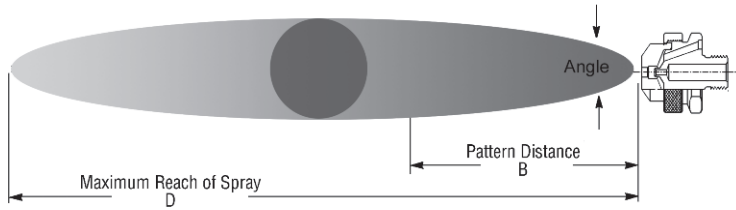
Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

XAPR

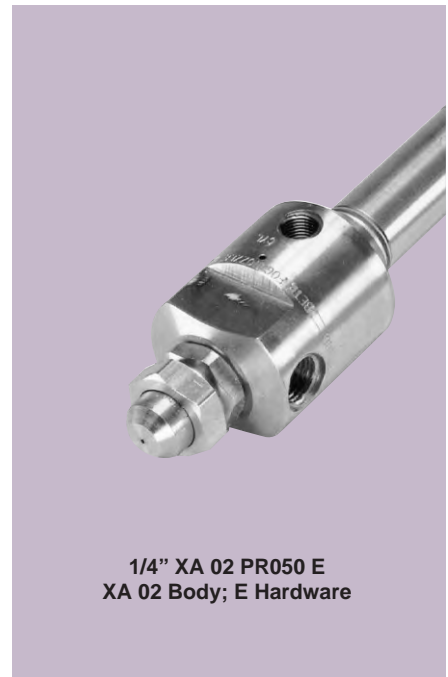
Pressure-fed/Int. Mix/Narrow Angle Round

DESIGN/SPRAY CHARACTERISTICS

- Internal mix
- Full cone pattern
- Finest atomization
- Large forward projection (up to 28 feet)
- Narrow spray angle (12° - 22°)



Dimensions are approximate. Check with BETE for critical dimension applications.



1/4" XA 02 PR050 E
XA 02 Body; E Hardware

AIR ATOMIZING

XA PR Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Round Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 60 PSI Liquid | | | Spray Dimensions | | | | | |
|-----------|--------------------------------|--------------------------------|---------------|------|------|---------------|------|------|---------------|-----|------|---------------|-----|------|---------------|------|------|------------------|--------|------------|---------|----------|--|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | liquid | Angle deg. | "B" in. | "D" feet | |
| 1/8 | PR 050 | Fluid Cap FC4 & Air Cap AC1501 | 10 | 0.7 | 0.6 | 14 | 1.5 | 0.4 | 24 | 1.7 | 0.6 | 32 | 1.9 | 0.7 | 50 | 2.3 | 1.0 | | | | | | |
| | | | 12 | 0.5 | 0.7 | 18 | 1.2 | 0.5 | 28 | 1.4 | 0.6 | 36 | 1.6 | 0.8 | 54 | 2.1 | 1.1 | 12 | 10 | 13 | 12 | 9'0" | |
| | | | 14 | 0.4 | 0.8 | 22 | 1.0 | 0.6 | 32 | 1.1 | 0.8 | 40 | 1.3 | 0.9 | 58 | 1.8 | 1.2 | 24 | 20 | 13 | 13 | 10'0" | |
| | | | 24 | 0.9 | 0.7 | 36 | 0.8 | 1.0 | 44 | 1.1 | 1.1 | 62 | 1.6 | 1.4 | 36 | 30 | 13 | 14 | 11'0" | | | | |
| | | | 26 | 0.7 | 0.8 | 38 | 0.7 | 1.0 | 48 | 0.9 | 1.2 | 66 | 1.3 | 1.5 | 44 | 40 | 14 | 16 | 12'0" | | | | |
| | | | 28 | 0.6 | 0.8 | 40 | 0.7 | 1.1 | 50 | 0.7 | 1.3 | 68 | 1.2 | 1.6 | 62 | 60 | 15 | 18 | 14'0" | | | | |
| | 30 | 0.5 | 0.9 | 42 | 0.5 | 1.2 | 52 | 0.7 | 1.4 | 70 | 1.1 | 1.7 | | | | | | | | | | | |
| | PR 100 | Fluid Cap FC4 & Air Cap AC1502 | 10 | 0.7 | 0.7 | 18 | 1.4 | 0.9 | 24 | 2.0 | 1.0 | 30 | 2.4 | 1.1 | 40 | 3.3 | 1.4 | | | | | | |
| | | | 12 | 0.5 | 0.8 | 20 | 1.3 | 1.0 | 28 | 1.7 | 1.2 | 34 | 2.2 | 1.3 | 46 | 2.9 | 1.5 | 12 | 10 | 12 | 17 | 12'0" | |
| | | | 14 | 0.4 | 0.9 | 22 | 1.2 | 1.1 | 32 | 1.4 | 1.4 | 38 | 1.9 | 1.5 | 52 | 2.6 | 1.8 | 20 | 20 | 13 | 18 | 13'0" | |
| | | | 24 | 1.1 | 1.2 | 34 | 1.3 | 1.5 | 42 | 1.6 | 1.7 | 58 | 2.3 | 2.1 | 34 | 30 | 13 | 19 | 14'0" | | | | |
| | | | 26 | 0.9 | 1.3 | 36 | 1.2 | 1.6 | 44 | 1.5 | 1.8 | 62 | 2.1 | 2.3 | 42 | 40 | 13 | 20 | 15'0" | | | | |
| 38 | | | 1.1 | 1.7 | 46 | 1.1 | 1.7 | 46 | 1.4 | 1.9 | 66 | 1.9 | 2.5 | 58 | 60 | 15 | 22 | 17'0" | | | | | |
| 1/4 | PR 150 | Fluid Cap FC3 & Air Cap AC1502 | 12 | 1.3 | 0.7 | 22 | 2.2 | 1.1 | 30 | 2.9 | 1.2 | 36 | 4.3 | 1.3 | 48 | 5.8 | 1.5 | | | | | | |
| | | | 16 | 1.1 | 0.9 | 26 | 1.7 | 1.3 | 34 | 2.5 | 1.4 | 40 | 3.9 | 1.4 | 52 | 5.3 | 1.7 | 22 | 10 | 12 | 19 | 13'0" | |
| | | | 20 | 0.9 | 1.2 | 30 | 1.4 | 1.5 | 38 | 2.1 | 1.7 | 44 | 3.6 | 1.6 | 56 | 4.9 | 1.7 | 34 | 20 | 13 | 20 | 14'0" | |
| | | | 22 | 0.8 | 1.3 | 34 | 1.3 | 1.7 | 42 | 1.7 | 1.9 | 48 | 2.8 | 1.8 | 60 | 4.6 | 1.9 | 42 | 30 | 13 | 21 | 15'0" | |
| | | | 24 | 0.8 | 1.4 | 38 | 1.1 | 1.9 | 46 | 1.5 | 2.0 | 52 | 2.5 | 2.0 | 64 | 4.1 | 2.1 | 48 | 40 | 14 | 22 | 16'0" | |
| | | | 26 | 0.8 | 1.4 | 40 | 1.0 | 2.0 | 50 | 1.2 | 2.3 | 56 | 2.2 | 2.2 | 68 | 3.7 | 2.3 | 60 | 60 | 15 | 24 | 17'0" | |
| | 28 | 0.8 | 1.6 | 42 | 0.9 | 2.0 | 52 | 1.2 | 2.4 | 60 | 1.8 | 2.4 | 70 | 3.6 | 2.3 | | | | | | | | |
| | PR 200 | Fluid Cap FC2 & Air Cap AC1503 | 16 | 3.4 | 2.7 | 28 | 5.0 | 3.7 | 40 | 6.1 | 4.7 | 48 | 7.8 | 5.3 | 65 | 10.7 | 6.7 | | | | | | |
| | | | 20 | 2.4 | 3.2 | 32 | 3.7 | 4.2 | 44 | 5.0 | 5.2 | 55 | 6.0 | 6.1 | 75 | 8.7 | 7.7 | 24 | 10 | 18 | 26 | 16'0" | |
| | | | 22 | 1.9 | 3.5 | 36 | 2.6 | 4.7 | 48 | 4.0 | 5.7 | 65 | 3.6 | 7.3 | 80 | 7.7 | 8.3 | 40 | 20 | 30 | 30 | 20'0" | |
| | | | 24 | 1.5 | 3.7 | 40 | 1.9 | 5.1 | 55 | 2.3 | 6.5 | 75 | 2.0 | 8.5 | 85 | 6.7 | 8.8 | 55 | 30 | 20 | 32 | 22'0" | |
| | | | 26 | 1.2 | 4.0 | 44 | 1.3 | 5.6 | 60 | 1.6 | 7.1 | 80 | 1.4 | 9.1 | 90 | 5.6 | 9.4 | 75 | 40 | 21 | 36 | 26'0" | |
| 28 | | | 1.0 | 4.2 | 48 | 0.9 | 6.1 | 65 | 1.1 | 7.8 | 85 | 1.0 | 9.7 | 95 | 4.6 | 10.0 | 85 | 60 | 21 | 38 | 28'0" | | |
| 30 | 0.7 | 4.5 | 50 | 0.8 | 6.4 | 70 | 0.7 | 8.4 | 90 | 0.7 | 10.3 | 100 | 3.6 | 10.6 | | | | | | | | | |
| PR 250 | Fluid Cap FC1 & Air Cap AC1503 | 12 | 8.1 | 2.0 | 20 | 13.6 | 2.6 | 30 | 16.3 | 3.3 | 38 | 19.5 | 3.7 | 54 | 25.7 | 4.7 | | | | | | | |
| | | 14 | 6.6 | 2.3 | 22 | 12.0 | 2.9 | 34 | 13.1 | 3.8 | 42 | 16.5 | 4.2 | 60 | 21.8 | 5.3 | 14 | 10 | 17 | 24 | 16'0" | | |
| | | 16 | 4.9 | 2.7 | 24 | 10.2 | 3.2 | 38 | 9.9 | 4.3 | 46 | 13.6 | 4.7 | 65 | 18.5 | 6.0 | 26 | 20 | 18 | 27 | 18'0" | | |
| | | 18 | 3.4 | 3.0 | 26 | 8.6 | 3.5 | 40 | 8.7 | 4.6 | 50 | 10.8 | 5.3 | 70 | 15.2 | 6.7 | 40 | 30 | 20 | 30 | 22'0" | | |
| | | 28 | 7.2 | 3.8 | 42 | 7.6 | 4.9 | 52 | 9.6 | 5.6 | 75 | 12.2 | 7.8 | 50 | 40 | 20 | 31 | 23'0" | | | | | |
| | | 30 | 5.9 | 4.1 | 44 | 6.6 | 5.2 | 44 | 6.6 | 5.2 | 54 | 8.6 | 5.9 | 80 | 10.0 | 8.1 | 70 | 60 | 21 | 36 | 25'0" | | |
| 32 | 4.6 | 4.4 | 46 | 5.6 | 5.5 | 46 | 5.6 | 5.5 | 56 | 7.6 | 6.1 | 85 | 8.0 | 8.9 | | | | | | | | | |
| PR 300 | Fluid Cap FC5 & Air Cap AC1504 | 14 | 11.7 | 3.1 | 20 | 27.5 | 3.0 | 28 | 36.6 | 3.6 | 32 | 49.4 | 3.3 | 42 | 70.6 | 3.2 | | | | | | | |
| | | 16 | 8.5 | 3.6 | 22 | 23.0 | 3.5 | 30 | 32.6 | 4.0 | 36 | 42.2 | 4.1 | 46 | 65.0 | 3.9 | 14 | 10 | 19 | 35 | 20'0" | | |
| | | 24 | 18.0 | 4.0 | 32 | 28.7 | 4.4 | 40 | 35.1 | 4.9 | 50 | 59.0 | 4.6 | 24 | 20 | 20 | 39 | 23'0" | | | | | |
| | | 26 | 14.4 | 4.4 | 34 | 24.8 | 4.8 | 44 | 28.0 | 5.7 | 54 | 53.2 | 5.4 | 34 | 30 | 21 | 41 | 25'0" | | | | | |
| | | 28 | 11.3 | 4.9 | 36 | 20.9 | 5.2 | 46 | 24.5 | 6.1 | 58 | 47.4 | 6.2 | 44 | 40 | 21 | 42 | 26'0" | | | | | |
| | | 38 | 17.5 | 5.6 | 48 | 17.5 | 5.6 | 48 | 21.0 | 6.5 | 65 | 37.8 | 7.5 | 54 | 60 | 22 | 46 | 28'0" | | | | | |
| 40 | 14.6 | 6.0 | 50 | 18.4 | 6.9 | 70 | 30.0 | 8.6 | | | | | | | | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

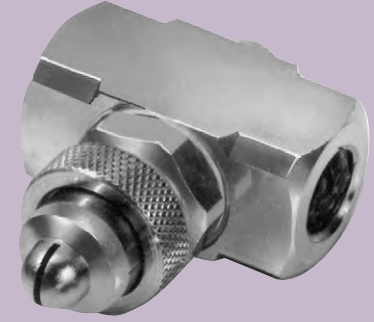
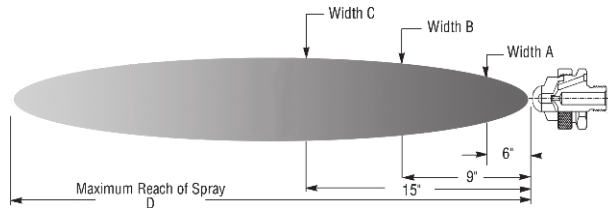
TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 74.

XAPF

Pressure-fed/Internal Mix/Flat Fan

DESIGN/SPRAY CHARACTERISTICS

- Internal mix
- Flat fan, wide angle spray patterns (between 80° and 90°)
- Finest atomization



1/4" XA PF300 A
XA 00 Body; A Hardware

Dimensions are approximate. Check with BETE for critical dimension applications.

XA PF Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Flat Spray Pattern, 1/8" and 1/4" Pipe Sizes, BSP or NPT

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 60 PSI Liquid | | | Spray Dimensions | | | | | | | | | | | |
|------------------|--------------------------------|--------------------------------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|------|------|------------------|--------|---------|---------|---------|----------|----|----|----|----|----|---|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | air | liquid | A (in.) | B (in.) | C (in.) | D (feet) | | | | | | |
| 1/8 OR 1/4 | PF 050 | Fluid Cap FC4 & Air Cap AC1301 | 10 | 1.4 | 0.8 | 18 | 2.2 | 1.5 | 28 | 2.5 | 1.5 | 38 | 2.8 | 1.8 | 55 | 3.4 | 2.4 | 16 | 10 | 10 | 14 | 18 | 8 | | | | | | |
| | | | 12 | 1.3 | 1.0 | 22 | 1.8 | 1.6 | 32 | 2.2 | 1.6 | 42 | 2.5 | 2.0 | 65 | 2.8 | 2.9 | | | | | | | | | | | | |
| | | | 14 | 1.1 | 1.1 | 26 | 1.5 | 1.8 | 36 | 1.9 | 1.8 | 46 | 2.2 | 2.2 | 75 | 2.3 | 3.3 | | | | | | | | | | | | |
| | | | 16 | 0.9 | 1.2 | 30 | 1.2 | 2.0 | 40 | 1.6 | 2.0 | 50 | 1.9 | 2.4 | 85 | 1.7 | 3.7 | | | | | | | | | | | | |
| | | | 18 | 0.8 | 1.3 | 34 | 0.9 | 2.2 | 44 | 1.3 | 2.2 | 60 | 1.3 | 2.8 | 90 | 1.4 | 3.9 | | | | | | | | | | | | |
| | | | 20 | 0.7 | 1.4 | 38 | 0.7 | 2.4 | 48 | 1.0 | 2.4 | 65 | 0.9 | 3.0 | 95 | 1.1 | 4.1 | | | | | | | | | | | | |
| | PF 100 | Fluid Cap FC3 & Air Cap AC1303 | 20 | 0.8 | 1.2 | 34 | 1.1 | 1.6 | 44 | 1.8 | 1.9 | 60 | 1.6 | 2.4 | 80 | 2.7 | 2.9 | 22 | 10 | 10 | 14 | 18 | 6 | | | | | | |
| | | | 22 | 0.6 | 1.3 | 36 | 0.9 | 1.7 | 46 | 1.6 | 1.9 | 65 | 1.2 | 2.6 | 85 | 2.2 | 3.1 | | | | | | | | | | | | |
| | | | 24 | 0.5 | 1.4 | 38 | 0.7 | 1.8 | 48 | 1.4 | 2.0 | 70 | 0.8 | 2.9 | 90 | 1.8 | 3.4 | | | | | | | | | | | | |
| | | | 26 | 0.4 | 1.5 | 40 | 0.6 | 1.9 | 50 | 1.1 | 2.1 | 38 | 20 | 14 | 20 | 28 | 6 | | | | | | | | | | | | |
| | 28 | 0.3 | 1.6 | 42 | 0.5 | 2.0 | 55 | 0.7 | 2.4 | | | | | | | | | | | | | | | | | | | | |
| | PF 150 | Fluid Cap FC3 & Air Cap AC1301 | 12 | 2.2 | 0.7 | 20 | 3.4 | 1.0 | 30 | 4.0 | 1.3 | | | | | | | 38 | 4.7 | 1.5 | 65 | 4.8 | 2.4 | 16 | 10 | 14 | 18 | 28 | 7 |
| | | | 14 | 1.8 | 0.8 | 24 | 2.7 | 1.1 | 34 | 3.4 | 1.5 | | | | | | | 42 | 4.1 | 1.7 | 70 | 4.2 | 2.6 | | | | | | |
| | | | 16 | 1.5 | 1.0 | 28 | 2.1 | 1.3 | 38 | 2.9 | 1.6 | 46 | 3.6 | 1.9 | 75 | 3.6 | 2.9 | | | | | | | | | | | | |
| | | | 18 | 1.1 | 1.1 | 30 | 1.8 | 1.5 | 42 | 2.3 | 1.9 | 50 | 3.1 | 2.1 | 80 | 3.1 | 3.1 | | | | | | | | | | | | |
| | | | 20 | 0.8 | 1.2 | 32 | 1.4 | 1.6 | 46 | 1.7 | 2.1 | 60 | 1.8 | 2.6 | 85 | 2.5 | 3.4 | | | | | | | | | | | | |
| | | | 34 | 1.2 | 1.7 | 48 | 1.4 | 2.2 | 65 | 1.2 | 2.8 | 90 | 2.0 | 3.6 | 80 | 6.0 | 2.3 | | | | | | | | | | | | |
| | PF 200 | Fluid Cap FC3 & Air Cap AC1302 | 14 | 2.4 | 0.9 | 22 | 3.2 | 1.1 | 34 | 3.4 | 1.6 | 40 | 4.4 | 1.8 | 60 | 5.0 | 2.5 | 20 | 10 | 4 | 5 | 7 | 10 | | | | | | |
| | | | 16 | 2.1 | 1.1 | 26 | 2.8 | 1.4 | 38 | 2.9 | 1.9 | 44 | 3.8 | 2.0 | 65 | 4.4 | 2.7 | | | | | | | | | | | | |
| | | | 18 | 1.7 | 1.1 | 30 | 2.1 | 1.6 | 42 | 2.3 | 2.1 | 48 | 3.3 | 2.2 | 70 | 3.9 | 3.0 | | | | | | | | | | | | |
| | | | 20 | 1.4 | 1.3 | 34 | 1.5 | 1.9 | 46 | 1.8 | 2.4 | 54 | 2.6 | 2.6 | 75 | 3.4 | 3.3 | | | | | | | | | | | | |
| | | | 24 | 0.8 | 1.5 | 38 | 1.2 | 2.1 | 50 | 1.4 | 2.6 | 60 | 1.9 | 3.0 | 80 | 3.0 | 3.6 | | | | | | | | | | | | |
| | | | 28 | 0.5 | 1.8 | 42 | 0.7 | 2.4 | 60 | 0.6 | 3.2 | 70 | 1.1 | 3.5 | 90 | 2.3 | 4.1 | | | | | | | | | | | | |
| | PF 250 | Fluid Cap FC2 & Air Cap AC1304 | 16 | 3.0 | 1.9 | 28 | 4.5 | 2.7 | 38 | 5.9 | 3.2 | 46 | 7.5 | 3.7 | 65 | 9.7 | 4.8 | 20 | 10 | 6 | 7 | 8 | 9 | | | | | | |
| 18 | | | 2.3 | 2.1 | 30 | 3.9 | 2.8 | 40 | 5.4 | 3.4 | 50 | 6.5 | 4.0 | 70 | 8.6 | 5.2 | | | | | | | | | | | | | |
| 20 | | | 1.7 | 2.3 | 32 | 3.3 | 3.0 | 42 | 4.9 | 3.6 | 52 | 5.9 | 4.2 | 72 | 8.0 | 5.6 | | | | | | | | | | | | | |
| 24 | | | 1.3 | 2.5 | 34 | 2.8 | 3.2 | 44 | 4.3 | 3.7 | 54 | 5.4 | 4.3 | 80 | 6.4 | 6.0 | | | | | | | | | | | | | |
| 34 | | | 1.0 | 2.7 | 36 | 2.3 | 3.4 | 46 | 3.8 | 3.9 | 56 | 4.9 | 4.5 | 85 | 5.3 | 6.5 | | | | | | | | | | | | | |
| 48 | | | 3.3 | 4.1 | 48 | 3.3 | 4.1 | 58 | 4.3 | 4.7 | 70 | 3.8 | 4.9 | 90 | 4.3 | 7.0 | | | | | | | | | | | | | |
| PF 300 | Fluid Cap FC1 & Air Cap AC1304 | 12 | 7.0 | 1.2 | 22 | 11.5 | 1.7 | 34 | 12.4 | 2.2 | 46 | 13.7 | 2.8 | 65 | 18.3 | 3.6 | 16 | 10 | 7 | 9 | 12 | 10 | | | | | | | |
| | | 14 | 5.4 | 1.4 | 26 | 8.3 | 2.0 | 38 | 9.8 | 2.6 | 50 | 10.9 | 3.1 | 75 | 12.6 | 4.5 | | | | | | | | | | | | | |
| | | 16 | 4.2 | 1.6 | 30 | 6.0 | 2.4 | 42 | 7.8 | 3.0 | 54 | 8.7 | 3.5 | 80 | 10.6 | 5.0 | | | | | | | | | | | | | |
| | | 18 | 3.3 | 1.7 | 32 | 5.1 | 2.6 | 46 | 5.9 | 3.3 | 56 | 7.8 | 3.7 | 85 | 8.7 | 5.4 | | | | | | | | | | | | | |
| | | 20 | 2.7 | 2.0 | 34 | 4.3 | 2.8 | 48 | 5.0 | 3.5 | 60 | 6.4 | 4.1 | 90 | 6.9 | 5.9 | | | | | | | | | | | | | |
| | | 22 | 2.0 | 2.2 | 36 | 3.6 | 3.0 | 50 | 4.3 | 3.7 | 65 | 4.6 | 4.5 | 95 | 5.5 | 6.3 | | | | | | | | | | | | | |
| PF 350 | Fluid Cap FC1 & Air Cap AC1305 | 14 | 4.5 | 0.8 | 24 | 7.5 | 1.2 | 34 | 9.5 | 1.7 | 44 | 11.1 | 2.2 | 56 | 19.8 | 2.6 | 16 | 10 | 4 | 5 | 6 | 8 | | | | | | | |
| | | 16 | 2.9 | 1.0 | 26 | 6.0 | 1.4 | 36 | 7.8 | 2.0 | 46 | 9.7 | 2.5 | 60 | 16.7 | 3.0 | | | | | | | | | | | | | |
| | | 18 | 2.0 | 1.2 | 28 | 4.5 | 1.7 | 38 | 6.5 | 2.2 | 48 | 8.4 | 2.7 | 65 | 13.5 | 3.5 | | | | | | | | | | | | | |
| | | 20 | 0.8 | 1.4 | 30 | 3.4 | 1.8 | 40 | 5.2 | 2.5 | 52 | 5.7 | 3.3 | 70 | 9.7 | 4.3 | | | | | | | | | | | | | |
| | | 32 | 2.4 | 2.1 | 42 | 4.1 | 2.7 | 56 | 3.9 | 3.8 | 80 | 4.8 | 5.7 | 52 | 4.0 | 6 | | | | | | | | | | | | | |
| | | 34 | 1.3 | 2.3 | 46 | 2.6 | 3.3 | 60 | 2.4 | 4.4 | 90 | 1.8 | 7.4 | 70 | 6.0 | 8 | | | | | | | | | | | | | |
| PF 400 | Fluid Cap FC5 & Air Cap AC1306 | 14 | 7.7 | 3.2 | 26 | 10.5 | 4.6 | 34 | 20.8 | 4.8 | 42 | 29.4 | 5.2 | 58 | 44.7 | 6.1 | 14 | 10 | 7 | 8 | 10 | 11 | | | | | | | |
| | | 16 | 5.0 | 3.8 | 28 | 7.0 | 5.2 | 36 | 16.6 | 5.3 | 44 | 25.1 | 5.6 | 60 | 41.0 | 6.4 | | | | | | | | | | | | | |
| | | 38 | 12.8 | 5.8 | 46 | 20.8 | 6.1 | 65 | 20.8 | 6.1 | 90 | 10.1 | 7.8 | 80 | 15.0 | 11.5 | | | | | | | | | | | | | |
| | | 40 | 9.5 | 6.4 | 48 | 16.7 | 6.6 | 70 | 13.1 | 7.2 | 75 | 7.5 | 8.3 | 38 | 30 | 10 | | | | | | | 12 | 18 | 14 | | | | |
| | | 42 | 6.7 | 6.9 | 50 | 11.1 | 7.8 | 80 | 10.1 | 7.8 | 80 | 8.7 | | | | | | | | | | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

www.BETE.com

AIR ATOMIZING

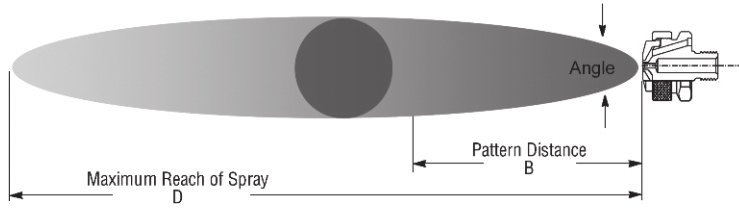
CALL 413-772-0846
Call for the name of your nearest BETE representative.

XASR

Siphon-fed Round

DESIGN FEATURES

- Lowest flow available
- Very fine atomization
- Narrow spray angle (12°- 22°)
- Full cone pattern
- Short to moderate forward spray projection



1/4" XASR 200 B
XA 00 Body; B Hardware

Dimensions are approximate. Check with BETE for critical dimension applications.

XA SR Set-up Flow Rates and Dimensions

Siphon-fed, External Mix, Round Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | ATOMIZING AIR | | Liquid Capacity in GPH (Gallons Per Hour) | | | | | | | | Spray Dimensions at 8" Siphon Height | | | |
|------------------|--------------------------------|--------------------------------|---------------|-------------------|---|------|-----|---------------|-----|-----|-----|-----|--------------------------------------|------------|-------|--------|
| | | | PSI air | Air Capacity SCFM | Gravity Head | | | Siphon Height | | | | | PSI air | Angle deg. | B in. | D feet |
| | | | | | 18" | 12" | 6" | 4" | 8" | 12" | 24" | 36" | | | | |
| 1/8 or 1/4 | SR 050 | Fluid Cap FC7 & Air Cap AC1201 | 10 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 0.2 | 0.1 | | | 10 | 18 | 11 | 6 |
| | | | 20 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.1 | | 20 | 18 | 11 | 6 |
| | | | 40 | 1.0 | 0.5 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 40 | 18 | 12 | 7 |
| | | | 60 | 1.3 | 0.6 | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | 0.2 | 60 | 18 | 14 | 8 |
| | SR 150 | Fluid Cap FC4 & Air Cap AC1201 | 10 | 0.5 | 0.6 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | | | 10 | 18 | 12 | 7 |
| | | | 20 | 0.7 | 0.7 | 0.7 | 0.6 | 0.5 | 0.5 | 0.4 | 0.2 | 0.1 | 20 | 18 | 13 | 8 |
| | | | 40 | 1.1 | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | 0.4 | 0.3 | 40 | 18 | 15 | 9 |
| | | | 60 | 1.5 | 1.0 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 0.6 | 0.4 | 60 | 19 | 17 | 10 |
| | SR 200 | Fluid Cap FC4 & Air Cap AC1202 | 10 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | | | 10 | 18 | 12 | 8 |
| | | | 20 | 1.2 | 0.8 | 0.7 | 0.6 | 0.6 | 0.5 | 0.4 | 0.2 | | 20 | 18 | 13 | 9 |
| | | | 40 | 1.9 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 | 0.5 | 0.3 | 40 | 19 | 15 | 11 |
| | | | 60 | 2.7 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 | 0.8 | 0.7 | 0.6 | 60 | 20 | 17 | 12 |
| SR 250 | Fluid Cap FC3 & Air Cap AC1202 | 10 | 0.7 | 1.2 | 1.1 | 0.9 | 0.6 | 0.5 | 0.4 | | | 10 | 21 | 15 | 10 | |
| | | 20 | 1.0 | 1.4 | 1.3 | 1.1 | 0.9 | 0.8 | 0.7 | 0.5 | | 20 | 21 | 16 | 11 | |
| | | 40 | 1.7 | 1.6 | 1.5 | 1.3 | 1.2 | 1.1 | 0.9 | 0.6 | 0.3 | 40 | 21 | 18 | 12 | |
| | | 60 | 2.4 | 1.5 | 1.4 | 1.3 | 1.1 | 1.0 | 0.9 | 0.7 | 0.5 | 60 | 22 | 20 | 14 | |
| SR 400 | Fluid Cap FC1 & Air Cap AC1204 | 20 | 1.9 | 5.8 | 5.2 | 4.2 | 3.1 | 2.7 | 1.9 | 0.6 | | 20 | 17 | 18 | 12 | |
| | | 40 | 3.0 | 6.5 | 6.0 | 5.1 | 4.3 | 3.7 | 3.0 | 1.7 | 0.7 | 40 | 18 | 20 | 13 | |
| | | 60 | 4.1 | 6.8 | 6.4 | 5.6 | 4.9 | 4.2 | 3.5 | 2.2 | 1.3 | 60 | 18 | 21 | 15 | |
| | | 80 | 5.2 | 6.8 | 6.4 | 5.8 | 5.2 | 4.5 | 3.9 | 2.6 | 1.6 | 80 | 19 | 23 | 16 | |
| SR 450 | Fluid Cap FC5 & Air Cap AC1205 | 30 | 5.3 | | | | 7.2 | 6.0 | 4.6 | | | 30 | 20 | 20 | 22 | |
| | | 40 | 6.5 | | | | 7.8 | 6.8 | 5.3 | | | 40 | 20 | 21 | 23 | |
| | | 60 | 8.8 | 11.6 | 11.4 | 10.6 | 8.3 | 7.4 | 6.2 | 3.2 | | 60 | 21 | 23 | 25 | |
| | | 80 | 11.1 | | 11.0 | 10.3 | 8.3 | 7.5 | 6.4 | 3.6 | 2.2 | 80 | 22 | 25 | 27 | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

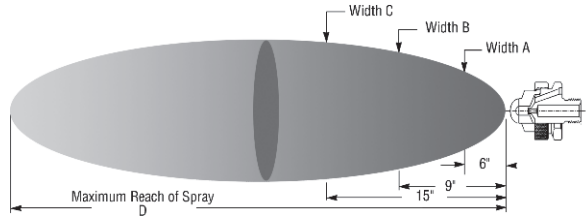
Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

XASF

Siphon-fed Flat Fan

DESIGN/SPRAY CHARACTERISTICS

- Lowest flow available
- Very fine atomization
- Flat fan spray pattern
- Moderate spray angle (60° - 85°)
- Moderate forward projection
- Siphon-fed



Dimensions are approximate. Check with BETE for critical dimension applications.

XA SF Set-up Flow Rates and Dimensions

Siphon-fed, Internal Mix, Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | ATOMIZING AIR | | Liquid Capacity in GPH (Gallons Per Hour) | | | | | | | | Spray Dimensions at 8" Siphon Height | | | | | |
|------------------|---------------------|--------------------------------|---------------|-------------------|---|-----|-----|-----|---------------|-----|-----|-----|--------------------------------------|--------|---------|--------|----------|-------|
| | | | PSI air | Air Capacity SCFM | Gravity Head | | | | Siphon Height | | | | PSI air | "A" in | "B" in. | "C" in | "D" feet | |
| | | | | | 18" | 12" | 6" | 4" | 8" | 12" | 24" | 36" | | | | | | |
| 1/8 or 1/4 | SF 050 | Fluid Cap FC3 & Air Cap AC1101 | 10 | 1.0 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 10 | 8 | 11 | 15 | 7'0" |
| | | | 20 | 1.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | 0.2 | 0.2 | 20 | 9 | 12 | 15 | 7'0" | |
| | | | 30 | 1.8 | 0.2 | 0.2 | 0.2 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 30 | 9 | 12 | 15 | 6'0" | |
| | SF 100 | Fluid Cap FC6 & Air Cap AC1102 | 20 | 1.9 | 1.0 | 1.0 | 0.9 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 0.6 | 20 | 9 | 13 | 15 | 8'0" |
| | | | 30 | 2.4 | 0.9 | 0.8 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | 0.6 | 30 | 10 | 14 | 17 | 9'0" | |
| | | | 40 | 3.0 | 0.8 | 0.7 | 0.7 | 0.7 | 0.6 | 0.6 | 0.5 | 0.5 | 40 | 11 | 15 | 18 | 10'0" | |
| | SF 150 | Fluid Cap FC2 & Air Cap AC1103 | 20 | 2.3 | 1.4 | 1.3 | 1.2 | 1.0 | 1.0 | 0.9 | 0.8 | 0.6 | 0.6 | 20 | 8 | 9 | 11 | 10'0" |
| | | | 30 | 2.9 | 1.3 | 1.2 | 1.1 | 0.9 | 0.9 | 0.8 | 0.7 | 0.6 | 30 | 8 | 10 | 11 | 11'0" | |
| | | | 40 | 3.5 | 1.0 | 0.9 | 0.9 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 40 | 9 | 11 | 12 | 10'0" | |
| | SF 200 | Fluid Cap FC2 & Air Cap AC1104 | 20 | 2.1 | 2.0 | 1.9 | 1.7 | 1.5 | 1.4 | 1.3 | 1.2 | 0.9 | 0.9 | 20 | 7 | 9 | 11 | 10'0" |
| | | | 30 | 2.7 | 2.0 | 1.9 | 1.8 | 1.6 | 1.5 | 1.5 | 1.3 | 1.0 | 30 | 7 | 9 | 12 | 11'0" | |
| | | | 40 | 3.3 | 1.8 | 1.7 | 1.6 | 1.4 | 1.3 | 1.2 | 1.0 | 1.0 | 40 | 8 | 11 | 13 | 11'0" | |
| 50 | 3.9 | 1.1 | 1.0 | 0.9 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.



1/4" XA02 SF 050 F
XA 02 Body; F Hardware

AIR ATOMIZING

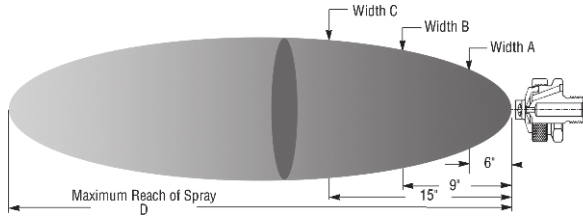
CALL 413-772-0846
Call for the name of your nearest BETE representative.

XAEF

Pressure-fed/External Mix/Flat Fan

DESIGN FEATURES

- External mix: allows spraying of viscous materials
- Variable atomization
- Moderate spray angle (60° - 90°)
- Precise metering of the liquid flow rate



Dimensions are approximate. Check with BETE for critical dimension applications.



AIR ATOMIZING

XA EF Set-up Flow Rates and Dimensions

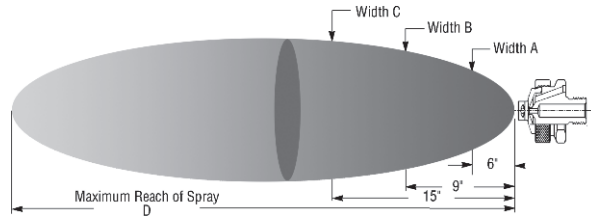
Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 3 PSI Liquid | | | 5 PSI Liquid | | | 10 PSI Liquid | | | 20 PSI Liquid | | | 40 PSI Liquid | | | Spray Dimensions | | | | | |
|------------------|--------------------------------|--------------------------------|--------------|-----|------|--------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|------------------|--------|---------|---------|---------|----------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | liquid | "A" in. | "B" in. | "C" in. | "D" feet |
| 1/8 or 1/4 | EF 050 | Fluid Cap FC7 & Air Cap AC1001 | 5 | 0.8 | 0.8 | 5 | 1.0 | 0.8 | 6 | 1.4 | 0.9 | 8 | 2.0 | 1.0 | 10 | 2.8 | 1.2 | 6 | 5 | 8 | 11 | 13 | 4'0" |
| | | | 6 | | 6 | 6 | | 8 | 8 | | 10 | 10 | | 15 | 8 | | 10 | 9 | 12 | 16 | 6'0" | | |
| | | | 7 | | 8 | 8 | | 10 | 10 | | 12 | 15 | | 20 | 11 | | 14 | 18 | 6'0" | | | | |
| | | | 8 | | 10 | 10 | | 12 | 15 | | 20 | 20 | | 10 | 12 | | 16 | 8'0" | | | | | |
| | EF 100 | Fluid Cap FC7 & Air Cap AC1003 | 3 | 0.8 | 0.9 | 5 | 1.0 | 0.9 | 10 | 1.4 | 1.1 | 20 | 2.0 | 1.6 | 40 | 2.8 | 2.6 | 3 | 3 | 4 | 6 | 9 | 3'0" |
| | | | 5 | | 5 | 5 | | 10 | 10 | | 15 | 15 | | 20 | 11 | | 14 | 18 | 4'0" | | | | |
| | | | 10 | | 15 | 15 | | 20 | 20 | | 25 | 25 | | 30 | 11 | | 14 | 18 | 4'0" | | | | |
| | | | 15 | | 20 | 20 | | 25 | 25 | | 30 | 30 | | 40 | 11 | | 14 | 18 | 4'0" | | | | |
| | EF 150 | Fluid Cap FC4 & Air Cap AC1001 | 5 | 1.2 | 0.8 | 5 | 1.6 | 0.8 | 8 | 2.2 | 1.0 | 10 | 3.1 | 1.2 | 15 | 4.4 | 1.6 | 10 | 5 | 11 | 13 | 16 | 5'0" |
| | | | 8 | | 8 | 8 | | 10 | 10 | | 15 | 15 | | 20 | 11 | | 14 | 18 | 6'0" | | | | |
| | | | 10 | | 15 | 15 | | 20 | 20 | | 25 | 25 | | 30 | 11 | | 14 | 18 | 6'0" | | | | |
| | | | 15 | | 20 | 20 | | 25 | 25 | | 30 | 30 | | 40 | 11 | | 14 | 18 | 6'0" | | | | |
| EF 200 | Fluid Cap FC4 & Air Cap AC1003 | 5 | 1.2 | 0.9 | 10 | 1.6 | 1.1 | 15 | 2.2 | 1.4 | 20 | 3.1 | 1.9 | 45 | 4.4 | 2.9 | 5 | 3 | 3 | 6 | 9 | 4'0" | |
| | | 10 | | 10 | 10 | | 15 | 15 | | 20 | 20 | | 25 | 11 | | 14 | 18 | 5'0" | | | | | |
| | | 15 | | 20 | 20 | | 25 | 25 | | 30 | 30 | | 40 | 11 | | 14 | 18 | 5'0" | | | | | |
| | | 20 | | 25 | 25 | | 30 | 30 | | 40 | 40 | | 50 | 11 | | 14 | 18 | 5'0" | | | | | |
| EF 250 | Fluid Cap FC3 & Air Cap AC1001 | 6 | 2.3 | 0.9 | 6 | 3.0 | 0.9 | 6 | 4.2 | 0.9 | 10 | 5.9 | 1.2 | 20 | 8.4 | 1.9 | 8 | 5 | 14 | 19 | 24 | 5'0" | |
| | | 7 | | 7 | 7 | | 10 | 10 | | 12 | 12 | | 15 | 15 | | 19 | 19 | 25 | 6'0" | | | | |
| | | 8 | | 10 | 10 | | 12 | 12 | | 15 | 15 | | 20 | 11 | | 14 | 18 | 6'0" | | | | | |
| | | 10 | | 15 | 15 | | 20 | 20 | | 25 | 25 | | 30 | 11 | | 14 | 18 | 6'0" | | | | | |
| EF 300 | Fluid Cap FC3 & Air Cap AC1003 | 10 | 2.3 | 1.1 | 15 | 3.0 | 1.4 | 20 | 4.2 | 1.6 | 35 | 5.9 | 2.4 | 50 | 8.4 | 3.0 | 10 | 3 | 5 | 7 | 10 | 4'0" | |
| | | 15 | | 15 | 15 | | 20 | 20 | | 25 | 25 | | 30 | 11 | | 14 | 18 | 5'0" | | | | | |
| | | 20 | | 25 | 25 | | 30 | 30 | | 40 | 40 | | 50 | 11 | | 14 | 18 | 5'0" | | | | | |
| | | 25 | | 30 | 30 | | 40 | 40 | | 50 | 50 | | 60 | 11 | | 14 | 18 | 5'0" | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

TO ORDER: specify pipe size, body style, spray set-up #, hardware and mounting assemblies, and material. See page 74.



Dimensions are approximate. Check with BETE for critical dimension applications.

XA EF Set-up Flow Rates and Dimensions Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 3 PSI Liquid | | | 5 PSI Liquid | | | 10 PSI Liquid | | | 20 PSI Liquid | | | 40 PSI Liquid | | | Spray Dimensions | | | | | | |
|--------------------|---------------------|--------------------------------|--------------------------------|------------|------|--------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|------------------|--------|---------|---------|---------|----------|-------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | liquid | "A" in. | "B" in. | "C" in. | "D" feet | |
| 1/8" or 1/4" | EF 350 | Fluid Cap FC6 & Air Cap AC1002 | 8 | | 3.2 | 10 | | 3.6 | 20 | | 5.5 | 30 | | 7 | 45 | | 10 | 20 | 5 | 13 | 15 | 19 | 10'0" | |
| | | | 10 | | 3.6 | 15 | | 4.6 | 30 | | 7.4 | 40 | | 9 | 60 | | 13 | 30 | 10 | 13 | 16 | 22 | 12'0" | |
| | | | 15 | 3.6 | 4.6 | 25 | | 6.5 | 35 | | 8.3 | 50 | | 11 | 75 | | 15 | 60 | 20 | 14 | 18 | 23 | 13'0" | |
| | | | | 20 | | 5.5 | 30 | | 7.4 | 40 | | 9.1 | 60 | | 13 | 80 | | 16 | 45 | 20 | 15 | 19 | 26 | 14'0" |
| | | | | 25 | | 6.9 | 40 | | 8.0 | 50 | | 13 | 80 | | 19 | 90 | | 20 | 60 | 20 | 15 | 19 | 25 | 15'0" |
| | | | | 30 | | 8.0 | 60 | | 9.4 | 60 | | 15 | 90 | | 15 | 90 | | 20 | 55 | 30 | 16 | 20 | 27 | 15'0" |
| | | | | 40 | | 8.0 | 60 | | 8.0 | 50 | | 13 | 80 | | 19 | 90 | | 20 | 60 | 20 | 15 | 19 | 25 | 15'0" |
| | | | | 50 | | 8.0 | 60 | | 9.4 | 60 | | 15 | 90 | | 15 | 90 | | 20 | 60 | 20 | 15 | 19 | 27 | 15'0" |
| | | EF 400 | Fluid Cap FC6 & Air Cap AC1004 | 10 | | 3.0 | 15 | | 3.6 | 20 | | 4.1 | 25 | | 6 | 45 | | 8 | 10 | 3 | 5 | 8 | 10 | 6'0" |
| | 15 | | | | 3.6 | 20 | | 4.1 | 25 | | 4.9 | 30 | | 8 | 55 | | 9 | 50 | 8 | 5 | 6 | 8 | 10 | 8'0" |
| | 20 | | | 3.6 | 4.1 | 25 | | 5.5 | 35 | | 6.3 | 60 | | 9 | 60 | | 10 | 60 | 10 | 35 | 10 | 6 | 9 | 11 |
| | | | | 25 | | 4.9 | 30 | | 5.5 | 35 | | 6.3 | 60 | | 9 | 60 | | 10 | 35 | 10 | 6 | 9 | 11 | 11'0" |
| | | | | 30 | | 5.5 | 40 | | 6.9 | 40 | | 8.0 | 50 | | 11 | 70 | | 11 | 35 | 20 | 7 | 9 | 14 | 12'0" |
| | | | | 40 | | 6.9 | 50 | | 8.0 | 50 | | 8.0 | 80 | | 13 | 80 | | 13 | 60 | 20 | 7 | 9 | 15 | 13'0" |
| | | | 50 | | 8.0 | 60 | | 9.4 | 60 | | 11.0 | 90 | | 15 | 90 | | 15 | 70 | 40 | 7 | 9 | 15 | 13'0" | |
| | | | 50 | | 8.0 | 60 | | 9.4 | 60 | | 11.0 | 90 | | 15 | 90 | | 15 | 70 | 40 | 7 | 9 | 15 | 13'0" | |
| | EF 450 | Fluid Cap FC2 & Air Cap AC1002 | 8 | | 3.2 | 10 | | 3.6 | 15 | | 4.6 | 35 | | 8 | 50 | | 11 | 15 | 3 | 13 | 15 | 20 | 11'0" | |
| 15 | | | | 4.6 | 20 | | 5.5 | 25 | | 6.5 | 45 | | 10 | 65 | | 14 | 25 | 10 | 14 | 19 | 25 | 10'0" | | |
| 20 | | | 4.8 | 5.5 | 25 | | 6.5 | 35 | | 8.3 | 55 | | 12 | 85 | | 17 | 60 | 20 | 12 | 15 | 18 | 25 | 12'0" | |
| | | | 25 | | 6.5 | 30 | | 7.4 | 40 | | 9.1 | 60 | | 13 | 95 | | 19 | 45 | 20 | 13 | 17 | 24 | 14'0" | |
| | | | 25 | | 6.5 | 30 | | 7.4 | 40 | | 9.1 | 60 | | 13 | 95 | | 19 | 60 | 20 | 12 | 17 | 23 | 16'0" | |
| | | | 25 | | 6.5 | 30 | | 7.4 | 40 | | 9.1 | 60 | | 13 | 95 | | 19 | 60 | 30 | 13 | 17 | 24 | 16'0" | |
| | | | 25 | | 6.5 | 30 | | 7.4 | 40 | | 9.1 | 60 | | 13 | 95 | | 19 | 70 | 40 | 13 | 17 | 24 | 14'0" | |
| | EF 500 | Fluid Cap FC2 & Air Cap AC1004 | 10 | | 3.0 | 20 | | 4.1 | 25 | | 4.9 | 40 | | 7 | 50 | | 8 | 10 | 3 | 6 | 8 | 11 | 7'0" | |
| 15 | | | | 3.6 | 25 | | 4.9 | 30 | | 5.5 | 45 | | 8 | 60 | | 10 | 25 | 3 | 6 | 8 | 11 | 10'0" | | |
| 20 | | | | 4.1 | 30 | | 5.5 | 35 | | 6.3 | 50 | | 8 | 70 | | 11 | 35 | 5 | 6 | 9 | 13 | 11'0" | | |
| 25 | | | 4.8 | 4.9 | 35 | | 6.3 | 40 | | 6.9 | 60 | | 9 | 75 | | 12 | 40 | 10 | 6 | 9 | 14 | 12'0" | | |
| 30 | | | | 5.5 | 40 | | 6.9 | 50 | | 8.0 | 70 | | 11 | 80 | | 13 | 40 | 20 | 7 | 10 | 15 | 15'0" | | |
| | | | 40 | | 6.9 | 50 | | 8.0 | 60 | | 9.4 | 80 | | 13 | 90 | | 15 | 60 | 20 | 7 | 10 | 15 | 14'0" | |
| | | | 50 | | 8.0 | 60 | | 9.4 | 70 | | 11.0 | 90 | | 15 | 95 | | 15 | 60 | 20 | 7 | 10 | 15 | 14'0" | |
| | | | 50 | | 8.0 | 60 | | 9.4 | 70 | | 11.0 | 90 | | 15 | 95 | | 15 | 75 | 40 | 7 | 9 | 14 | 17'0" | |
| | EF 550 | Fluid Cap FC1 & Air Cap AC1002 | 10 | | 3.6 | 15 | | 4.6 | 25 | | 6.5 | 45 | | 10 | 75 | | 15 | 30 | 5 | 16 | 22 | 30 | 11'0" | |
| 15 | | | | 4.6 | 20 | | 5.5 | 30 | | 7.4 | 50 | | 11 | 85 | | 17 | 40 | 10 | 18 | 23 | 32 | 13'0" | | |
| 20 | | | 9.9 | 5.5 | 30 | | 7.4 | 40 | | 9.1 | 70 | | 14 | 95 | | 19 | 65 | 20 | 17 | 21 | 30 | 31 | 14'0" | |
| | | | 25 | | 6.5 | 35 | | 8.3 | 45 | | 10.0 | 80 | | 16 | 100 | | 19 | 80 | 20 | 15 | 20 | 26 | 19'0" | |
| | | | 25 | | 6.5 | 35 | | 8.3 | 45 | | 10.0 | 80 | | 16 | 100 | | 19 | 55 | 30 | 19 | 25 | 33 | 14'0" | |
| | | | 25 | | 6.5 | 35 | | 8.3 | 45 | | 10.0 | 80 | | 16 | 100 | | 19 | 90 | 40 | 16 | 22 | 31 | 18'0" | |
| | EF 600 | Fluid Cap FC1 & Air Cap AC1004 | 15 | | 3.6 | 25 | | 4.9 | 35 | | 6 | 45 | | 8 | 55 | | 9 | 15 | 3 | 6 | 8 | 10 | 8'0" | |
| 20 | | | | 4.1 | 30 | | 5.5 | 40 | | 7 | 50 | | 8 | 60 | | 10 | 30 | 3 | 6 | 9 | 12 | 10'0" | | |
| 25 | | | | 4.9 | 35 | | 6.3 | 45 | | 8 | 55 | | 9 | 65 | | 11 | 40 | 5 | 7 | 10 | 14 | 11'0" | | |
| 30 | | | 9.9 | 5.5 | 40 | | 6.9 | 50 | | 8 | 60 | | 9 | 70 | | 11 | 45 | 20 | 8 | 11 | 16 | 12'0" | | |
| 35 | | | | 6.3 | 45 | | 7.5 | 60 | | 9 | 70 | | 11 | 80 | | 13 | 50 | 10 | 8 | 11 | 15 | 13'0" | | |
| | | | 40 | | 6.9 | 50 | | 8.0 | 70 | | 11 | 80 | | 13 | 90 | | 15 | 60 | 20 | 8 | 11 | 16 | 14'0" | |
| | | | 50 | | 8.0 | 60 | | 9.4 | 80 | | 13 | 90 | | 15 | 100 | | 16 | 80 | 40 | 7 | 10 | 15 | 14'0" | |
| | EF 650 | Fluid Cap FC8 & Air Cap AC1005 | 25 | | 8 | 25 | | 8 | 35 | | 11 | 55 | | 15 | 75 | | 15 | 25 | 3 | 6 | 8 | 12 | 10'0" | |
| 30 | | | | 9 | 30 | | 9 | 40 | | 12 | 60 | | 16 | 80 | | 16 | 40 | 3 | 6 | 8 | 12 | 11'0" | | |
| 35 | | | | 11 | 35 | | 11 | 45 | | 13 | 65 | | 17 | 85 | | 17 | 40 | 5 | 6 | 8 | 12 | 13'0" | | |
| 40 | | | 10.0 | 12 | 40 | | 12 | 50 | | 13 | 70 | | 18 | 90 | | 18 | 50 | 10 | 7 | 9 | 13 | 14'0" | | |
| 45 | | | | 13 | 45 | | 13 | 55 | | 15 | 75 | | 20 | 100 | | 20 | 55 | 20 | 7 | 9 | 14 | 15'0" | | |
| | | | 50 | | 13 | 50 | | 13 | 60 | | 16 | 80 | | 21 | 60 | 15 | 7 | 9 | 13 | 15'0" | | | | |
| | | | 60 | | 16 | 60 | | 16 | 70 | | 18 | 90 | | 24 | 70 | 20 | 7 | 9 | 14 | 18'0" | | | | |
| | EF 700 | Fluid Cap FC9 & Air Cap AC1005 | 30 | | 9 | 40 | | 12 | 55 | | 15 | 70 | | 18 | 90 | | 18 | 30 | 3 | 7 | 10 | 14 | 11'0" | |
| 35 | | | | 11 | 45 | | 13 | 60 | | 16 | 75 | | 20 | 100 | | 20 | 45 | 3 | 7 | 10 | 14 | 13'0" | | |
| 40 | | | | 12 | 50 | | 13 | 65 | | 17 | 80 | | 21 | 110 | | 21 | 55 | 5 | 7 | 10 | 14 | 14'0" | | |
| 45 | | | 17.4 | 13 | 55 | | 15 | 70 | | 18 | 85 | | 23 | 120 | | 23 | 70 | 10 | 7 | 10 | 14 | 17'0" | | |
| 50 | | | | 13 | 60 | | 16 | 75 | | 20 | 90 | | 24 | 130 | | 24 | 70 | 20 | 8 | 10 | 15 | 18'0" | | |
| | | | 60 | | 16 | 70 | | 18 | 80 | | 21 | 110 | | 23 | 75 | 15 | 7 | 10 | 15 | 18'0" | | | | |
| | | | 70 | | 18 | 80 | | 21 | 90 | | 24 | 120 | | 24 | 80 | 20 | 8 | 10 | 15 | 19'0" | | | | |
| | EF 750 | Fluid Cap FC5 & Air Cap AC1005 | 40 | | 12 | 50 | | 13 | 65 | | 17 | 80 | | 21 | 100 | | 21 | 40 | 3 | 8 | 10 | 14 | 14'0" | |
| 45 | | | | 13 | 55 | | 15 | 70 | | 18 | 85 | | 23 | 110 | | 23 | 55 | 3 | 8 | 10 | 15 | 15'0" | | |
| 50 | | | | 13 | 60 | | 16 | 75 | | 20 | 90 | | 24 | 120 | | 24 | 65 | 5 | 8 | 10 | 15 | 17'0" | | |
| 55 | | | 27.9 | 15 | 65 | | 17 | 80 | | 21 | 90 | | 24 | 120 | | 24 | 75 | 10 | 9 | 11 | 15 | 18'0" | | |
| 60 | | | | 16 | 70 | | 18 | 85 | | 23 | 100 | | 26 | 130 | | 26 | 80 | 15 | 9 | 11 | 16 | 18'0" | | |
| 65 | | | | 17 | 75 | | 20 | 90 | | 24 | 110 | | 27 | 140 | | 27 | 80 | 20 | 9 | 11 | 16 | 19'0" | | |
| 70 | | | | 18 | 80 | | 21 | 90 | | 24 | 120 | | 28 | 150 | | 28 | 85 | 20 | 9 | 11 | 16 | 19'0" | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

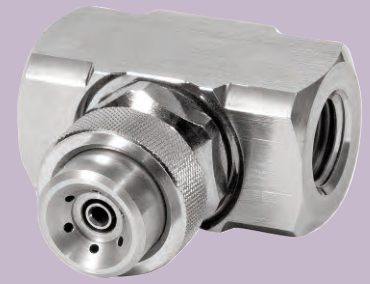
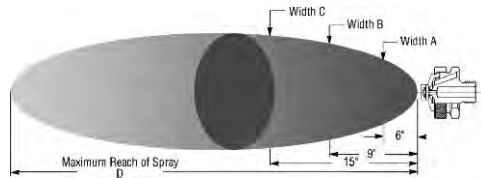
Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

XAER

Pressure-fed/Ext. Mix/Narrow Angle Round

DESIGN/SPRAY CHARACTERISTICS

- External mix: allows spraying of viscous liquids
- Variable atomization
- Narrow spray angle (10°- 30°)
- Precise metering of liquid flow rate



1/4" XAER850A
XA 00 Body; A Hardware

Dimensions are approximate. Check with BETE for critical dimension applications.

XA ER Set-up Flow Rates and Spray Dimensions

Pressure-fed, External Mix, Narrow Round Spray Pattern, 1/8" and 1/4" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 3 PSI Liquid | | | 5 PSI Liquid | | | 10 PSI Liquid | | | 20 PSI Liquid | | | 40 PSI Liquid | | | Spray Dimensions | | | | | | | | | | | | | |
|-----------|---------------------|--------------------------------|--------------|-----|------|--------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|------------------|------|------|------|------|------|----|----|----|----|----|----|--|--|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI Liquid | Air | A in | B in | C in | D ft | | | | | | | | |
| 1/8" | ER 050 | Fluid Cap FC7 & Air Cap AC1801 | 5 | 0.7 | 0.8 | 5 | 0.8 | 10 | 1.2 | 10 | 1.2 | 20 | 1.7 | 1.2 | 2.4 | 20 | 1.8 | 3 | 10 | 2 | 3 | 4 | 5 | 8 | | | | | | | |
| | | | 10 | | 1.2 | 10 | | 1.2 | | 20 | | 1.8 | | 30 | | 2.3 | 40 | 2.9 | 5 | 40 | 2 | 3 | 4 | 5 | 12 | | | | | | |
| | | | 20 | | 1.8 | 20 | | 1.8 | | 30 | | 2.3 | | 40 | | 2.9 | 50 | 3.5 | 10 | 40 | 2 | 3 | 5 | 16 | | | | | | | |
| | | | 30 | | 2.3 | 30 | | 2.3 | | 40 | | 2.9 | | 50 | | 3.5 | 60 | 4.0 | 20 | 20 | 3 | 2 | 3 | 14 | | | | | | | |
| | | | 40 | | 2.9 | 40 | | 2.9 | | 50 | | 3.5 | | 60 | | 4.0 | 70 | 4.7 | 20 | 40 | 2 | 3 | 4 | 18 | | | | | | | |
| | | | 50 | | 3.5 | 50 | | 3.5 | | 60 | | 4.0 | | 70 | | 4.7 | 80 | 5.3 | 30 | 60 | 3 | 3 | 4 | 20 | | | | | | | |
| | | | 60 | | 4.0 | 60 | | 4.0 | | 70 | | 4.7 | | 80 | | 5.3 | 90 | 5.9 | 40 | 60 | 3 | 3 | 4 | 20 | | | | | | | |
| | | | 70 | | 4.7 | 70 | | 4.7 | | 80 | | 5.3 | | 90 | | 5.9 | 90 | 6.7 | 50 | 70 | 3 | 3 | 4 | 20 | | | | | | | |
| 1/4" | ER 150 | Fluid Cap FC4 & Air Cap AC1801 | 5 | 1.0 | 0.8 | 5 | 1.3 | 10 | 1.2 | 10 | 2.0 | 1.2 | 2.7 | 20 | 1.8 | 3 | 10 | 2 | 3 | 3 | 3 | 3 | 10 | | | | | | | | |
| | | | 10 | | 1.2 | 10 | | 1.2 | | 20 | | 1.8 | | 30 | 2.3 | 40 | 2.9 | 5 | 20 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 20 | | 1.8 | 20 | | 1.8 | | 30 | | 2.3 | | 40 | 2.9 | 50 | 3.5 | 10 | 40 | 3 | 3 | 5 | 16 | | | | | | | | |
| | | | 30 | | 2.3 | 30 | | 2.3 | | 40 | | 2.9 | | 50 | 3.5 | 60 | 4.0 | 20 | 20 | 3 | 3 | 5 | 16 | | | | | | | | |
| | | | 40 | | 2.9 | 40 | | 2.9 | | 50 | | 3.5 | | 60 | 4.0 | 70 | 4.7 | 20 | 40 | 3 | 3 | 5 | 16 | | | | | | | | |
| | | | 50 | | 3.5 | 50 | | 3.5 | | 60 | | 4.0 | | 70 | 4.7 | 80 | 5.3 | 30 | 60 | 3 | 3 | 5 | 16 | | | | | | | | |
| | | | 60 | | 4.0 | 60 | | 4.0 | | 70 | | 4.7 | | 80 | 5.3 | 90 | 5.9 | 40 | 60 | 3 | 3 | 5 | 16 | | | | | | | | |
| | | | 70 | | 4.7 | 70 | | 4.7 | | 80 | | 5.3 | | 90 | 5.9 | 90 | 6.7 | 50 | 70 | 3 | 3 | 5 | 16 | | | | | | | | |
| or | ER 250 | Fluid Cap FC3 & Air Cap AC1801 | 6 | 2.0 | 0.9 | 10 | 1.2 | 10 | 1.2 | 10 | 4.0 | 1.2 | 4.5 | 20 | 1.8 | 3 | 10 | 2 | 3 | 3 | 3 | 3 | 10 | | | | | | | | |
| | | | 10 | | 1.2 | 10 | | 1.2 | | 20 | | 1.8 | | 30 | 2.3 | 40 | 2.9 | 5 | 20 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 20 | | 1.8 | 20 | | 1.8 | | 30 | | 2.3 | | 40 | 2.9 | 50 | 3.5 | 10 | 40 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 30 | | 2.3 | 30 | | 2.3 | | 40 | | 2.9 | | 50 | 3.5 | 60 | 4.0 | 20 | 40 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 40 | | 2.9 | 40 | | 2.9 | | 50 | | 3.5 | | 60 | 4.0 | 70 | 4.7 | 20 | 40 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 50 | | 3.5 | 50 | | 3.5 | | 60 | | 4.0 | | 70 | 4.7 | 80 | 5.3 | 30 | 60 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 60 | | 4.0 | 60 | | 4.0 | | 70 | | 4.7 | | 80 | 5.3 | 90 | 5.9 | 40 | 60 | 3 | 3 | 5 | 14 | | | | | | | | |
| | | | 70 | | 4.7 | 70 | | 4.7 | | 80 | | 5.3 | | 90 | 5.9 | 90 | 6.7 | 50 | 70 | 3 | 3 | 5 | 14 | | | | | | | | |
| 1/4" | ER 350 | Fluid Cap FC6 & Air Cap AC1802 | 10 | 3.3 | 3.4 | 10 | 4.1 | 10 | 3.4 | 20 | 5.7 | 3.4 | 8.3 | 30 | 4.5 | 3 | 10 | 3 | 5 | 6 | 6 | 9 | 14 | | | | | | | | |
| | | | 15 | | 4.5 | 20 | | 5.5 | | 30 | | 7.2 | | 40 | 8.9 | 50 | 10.6 | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 20 | 30 | 3 | 4 | 6 | 16 | | |
| | | | 20 | | 5.5 | 30 | | 7.2 | | 40 | | 8.9 | | 50 | 10.6 | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 90 | 16.7 | 30 | 3 | 4 | 6 | 16 | | | |
| | | | 30 | | 7.2 | 40 | | 8.9 | | 50 | | 10.6 | | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 90 | 16.7 | 20 | 60 | 3 | 4 | 6 | 16 | | | | |
| | | | 40 | | 8.9 | 50 | | 10.6 | | 60 | | 12.2 | | 70 | 13.9 | 80 | 15.6 | 90 | 16.7 | 20 | 60 | 3 | 4 | 6 | 16 | | | | | | |
| | | | 50 | | 10.6 | 60 | | 12.2 | | 70 | | 13.9 | | 80 | 15.6 | 90 | 16.7 | 20 | 60 | 3 | 4 | 6 | 16 | | | | | | | | |
| | | | 60 | | 12.2 | 70 | | 13.9 | | 80 | | 15.6 | | 90 | 16.7 | 20 | 60 | 3 | 4 | 6 | 16 | | | | | | | | | | |
| | | | 70 | | 13.9 | 80 | | 15.6 | | 90 | | 16.7 | | 20 | 60 | 3 | 4 | 6 | 16 | | | | | | | | | | | | |
| 1/4" | ER 450 | Fluid Cap FC2 & Air Cap AC1802 | 10 | 5.0 | 3.4 | 10 | 6.4 | 10 | 4.5 | 15 | 8.8 | 4.5 | 13 | 30 | 7.2 | 3 | 10 | 4 | 6 | 9 | 14 | 14 | 18 | | | | | | | | |
| | | | 15 | | 4.5 | 15 | | 5.5 | | 20 | | 7.2 | | 40 | 8.9 | 50 | 10.6 | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 20 | 30 | 3 | 4 | 6 | 18 | | |
| | | | 20 | | 5.5 | 20 | | 7.2 | | 30 | | 8.9 | | 50 | 10.6 | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 40 | 4 | 5 | 6 | 21 | | | | | |
| | | | 30 | | 7.2 | 40 | | 8.9 | | 50 | | 10.6 | | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 40 | 4 | 5 | 6 | 21 | | | | | | | |
| | | | 40 | | 8.9 | 50 | | 10.6 | | 60 | | 12.2 | | 70 | 13.9 | 80 | 15.6 | 40 | 4 | 5 | 6 | 21 | | | | | | | | | |
| | | | 50 | | 10.6 | 60 | | 12.2 | | 70 | | 13.9 | | 80 | 15.6 | 40 | 4 | 5 | 6 | 21 | | | | | | | | | | | |
| | | | 60 | | 12.2 | 70 | | 13.9 | | 80 | | 15.6 | | 40 | 4 | 5 | 6 | 21 | | | | | | | | | | | | | |
| | | | 70 | | 13.9 | 80 | | 15.6 | | 40 | | 4 | | 5 | 6 | 21 | | | | | | | | | | | | | | | |
| 1/4" | ER 550 | Fluid Cap FC1 & Air Cap AC1802 | 15 | 10 | 4.5 | 20 | 13 | 20 | 5.5 | 30 | 18 | 5.5 | 25 | 40 | 8.9 | 3 | 10 | 4 | 6 | 9 | 16 | 16 | 22 | | | | | | | | |
| | | | 20 | | 5.5 | 30 | | 7.2 | | 40 | | 8.9 | | 50 | 10.6 | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 20 | 40 | 5 | 6 | 9 | 15 | | | | |
| | | | 30 | | 7.2 | 40 | | 8.9 | | 50 | | 10.6 | | 60 | 12.2 | 70 | 13.9 | 80 | 15.6 | 20 | 40 | 5 | 6 | 9 | 15 | | | | | | |
| | | | 40 | | 8.9 | 50 | | 10.6 | | 60 | | 12.2 | | 70 | 13.9 | 80 | 15.6 | 20 | 40 | 5 | 6 | 9 | 15 | | | | | | | | |
| | | | 50 | | 10.6 | 60 | | 12.2 | | 70 | | 13.9 | | 80 | 15.6 | 20 | 40 | 5 | 6 | 9 | 15 | | | | | | | | | | |
| | | | 60 | | 12.2 | 70 | | 13.9 | | 80 | | 15.6 | | 20 | 40 | 5 | 6 | 9 | 15 | | | | | | | | | | | | |
| | | | 70 | | 13.9 | 80 | | 15.6 | | 20 | | 40 | | 5 | 6 | 9 | 15 | | | | | | | | | | | | | | |
| | | | 80 | | 15.6 | 40 | | 5 | | 6 | | 9 | | 15 | | | | | | | | | | | | | | | | | |
| 1/4" | ER 650 | Fluid Cap FC8 & Air Cap AC1803 | 15 | 10 | 7.2 | 20 | 13 | 20 | 8.8 | 30 | 18 | 11.7 | 25 | 50 | 17.2 | 3 | 10 | 4 | 6 | 9 | 17 | 17 | 22 | | | | | | | | |
| | | | 20 | | 8.8 | 25 | | 10.3 | | 30 | | 11.7 | | 40 | 14.5 | 50 | 17.2 | 60 | 21.1 | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 22 | | |
| | | | 25 | | 10.3 | 30 | | 11.7 | | 40 | | 14.5 | | 50 | 17.2 | 60 | 21.1 | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 22 | | | | |
| | | | 30 | | 11.7 | 40 | | 14.5 | | 50 | | 17.2 | | 60 | 21.1 | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 22 | | | | | | |
| | | | 40 | | 14.5 | 50 | | 17.2 | | 60 | | 21.1 | | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 22 | | | | | | | | |
| | | | 50 | | 17.2 | 60 | | 21.1 | | 70 | | 22.5 | | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 22 | | | | | | | | | | |
| | | | 60 | | 21.1 | 70 | | 22.5 | | 80 | | 25.2 | | 20 | 30 | 4 | 5 | 6 | 22 | | | | | | | | | | | | |
| | | | 70 | | 22.5 | 80 | | 25.2 | | 20 | | 30 | | 4 | 5 | 6 | 22 | | | | | | | | | | | | | | |
| 1/4" | ER 750 | Fluid Cap FC9 & Air Cap AC1803 | 20 | 17 | 8.8 | 30 | 20 | 30 | 11.7 | 40 | 29 | 14.5 | 42 | 50 | 17.2 | 3 | 10 | 4 | 6 | 9 | 19 | 19 | 22 | | | | | | | | |
| | | | 30 | | 11.7 | 40 | | 14.5 | | 50 | | 17.2 | | 60 | 21.1 | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 8 | 21 | | | | | |
| | | | 40 | | 14.5 | 50 | | 17.2 | | 60 | | 21.1 | | 70 | 22.5 | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 8 | 21 | | | | | | | |
| | | | 50 | | 17.2 | 60 | | 21.1 | | 70 | | 22.5 | | 80 | 25.2 | 20 | 30 | 4 | 5 | 6 | 8 | 21 | | | | | | | | | |
| | | | 60 | | 21.1 | 70 | | 22.5 | | 80 | | 25.2 | | 20 | 30 | 4 | 5 | 6 | 8 | 21 | | | | | | | | | | | |
| | | | 70 | | 22.5 | 80 | | 25.2 | | 20 | | 30 | | 4 | 5 | 6 | 8 | 21 | | | | | | | | | | | | | |
| | | | 80 | | 25.2 | 20 | | 30 | | 4 | | 5 | | 6 | 8 | 21 | | | | | | | | | | | | | | | |
| | | | 90 | | 27.9 | 20 | | 30 | | 4 | | 5 | | 6 | 8 | 21 | | | | | | | | | | | | | | | |
| 1/4" | ER 850 | Fluid Cap FC5 & Air Cap AC1803 | 40 | 25 | 14.5 | 55 | 29 | 55 | 17.2 | 65 | 42 | 21.1 | 61 | 80 | 25.2 | 3 | 10 | 4 | 5 | 7 | 22 | 22 | 28 | | | | | | | | |
| | | | 50 | | 17.2 | 60 | | 19.8 | | 70 | | 21.1 | | 80 | 25.2 | 20 | 30 | 4 | 5 | 7 | 22 | | | | | | | | | | |
| | | | 55 | | 18.5 | 65 | | 21.1 | | 80 | | 25.2 | | 20 | 30 | 4 | 5 | 7 | 22 | | | | | | | | | | | | |
| | | | 60 | | 19.8 | 70 | | 22.5 | | 80 | | 25.2 | | 20 | 30 | 4 | 5 | 7 | 22 | | | | | | | | | | | | |
| | | | 65 | | 21.1 | 80 | | 25.2 | | 20 | | 30 | | 4 | 5 | 7 | 22 | | | | | | | | | | | | | | |
| | | | 70 | | 22.5 | 80 | | 25.2 | | 20 | | 30 | | 4 | 5 | 7 | 22 | | | | | | | | | | | | | | |
| | | | 80 | | 25.2 | 20 | | 30 | | 4 | | 5 | | 7 | 22 | | | | | | | | | | | | | | | | |
| | | | 90 | | 27.9 | 20 | | 30 | | 4 | | 5 | | 7 | 22 | | | | | | | | | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel, and 316 Stainless Steel.

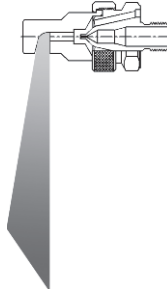
Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

XAFF

Pressure-fed/Int. Mix/Deflected Flat Fan

DESIGN/SPRAY CHARACTERISTICS

- Internal mix
- Deflected flat fan spray pattern



1/4"XA 01 FF050 F
XA01 Body; F Hardware

XA FF Set-up Flow Rates

Pressure-fed, Internal Mix, Deflected Flat Fan Spray Pattern, 1/8" and 1/4" Pipe Sizes

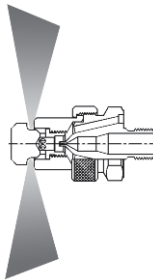
| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 60 PSI Liquid | | |
|------------------|---------------------|---------------------------------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM |
| 1/8 or 1/4 | FF 050 | Fluid Cap FC10 & Air Cap AC1701 | 6 | 2.9 | 1.6 | 14 | 3.9 | 2.6 | 22 | 4.7 | 3.3 | 26 | 5.8 | 3.6 | 38 | 7.4 | 4.6 |
| | | | 8 | 2.5 | 1.9 | 16 | 3.5 | 2.8 | 24 | 4.3 | 3.6 | 32 | 4.8 | 4.4 | 46 | 6.4 | 5.5 |
| | | | 10 | 2.0 | 2.3 | 18 | 3.1 | 3.1 | 26 | 4.0 | 3.8 | 38 | 3.8 | 5.3 | 54 | 5.3 | 6.6 |
| | | | 12 | 1.5 | 2.7 | 20 | 2.8 | 3.5 | 30 | 3.3 | 4.5 | 44 | 2.8 | 6.2 | 62 | 4.2 | 7.8 |
| | | | 22 | 2.3 | 3.8 | 34 | 2.3 | 5.2 | 46 | 2.3 | 6.6 | 70 | 2.8 | 9.4 | | | |

XAxw

Pressure-fed/Int. Mix/Extra-wide Angle

DESIGN/SPRAY CHARACTERISTICS

- Internal mix
- 180° Extra-wide hollow cone



1/4"XA 03 XW050 A
XA 03 Body; A Hardware

XA XW Set-up Flow Rates

Pressure-fed, Internal Mix, Extra-Wide Spray pattern, 1/8" and 1/4" Pipe Sizes

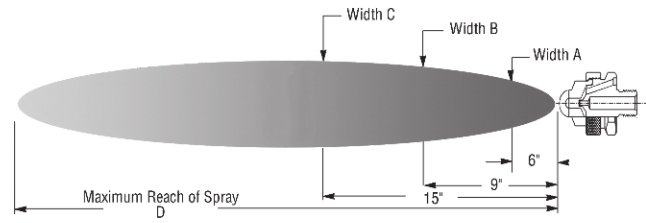
| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 60 PSI Liquid | | |
|------------------|---------------------|--------------------------------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|------|------|---------------|------|------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM |
| 1/8 or 1/4 | XW 050 | Fluid Cap FC8 & Air Cap AC1401 | 20 | 4.0 | 2.5 | 34 | 6.6 | 4.1 | 50 | 7.1 | 6.4 | 60 | 11.0 | 7.6 | 85 | 14.4 | 11.8 |
| | | | 22 | 2.8 | 2.7 | 38 | 4.4 | 4.8 | 52 | 6.2 | 6.8 | 65 | 8.3 | 8.6 | 90 | 12.0 | 13.0 |
| | | | 24 | 2.0 | 3.0 | 42 | 2.8 | 5.5 | 56 | 4.4 | 7.6 | 70 | 6.1 | 9.8 | 95 | 9.8 | 14.1 |
| | | | 26 | 1.5 | 3.3 | 46 | 1.7 | 6.3 | 60 | 3.2 | 8.4 | 80 | 3.1 | 12.4 | 100 | 7.8 | 15.4 |
| | | | 28 | 1.1 | 3.6 | 48 | 1.3 | 6.9 | 70 | 1.3 | 11.8 | 90 | 1.4 | 15.4 | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

AIR ATOMIZING

CALL 413-772-0846
Call for the name of your nearest BETE representative.

1/2 XA



Air Atomizing

Dimensions are approximate. Check with BETE for critical dimension applications.

AD 1/2" XA AD Set-up Flow Rates and Dimensions Pressure-fed, Internal Mix, Narrow Angle Round Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 5 PSI Liquid | | | 15 PSI Liquid | | | 25 PSI Liquid | | | 35 PSI Liquid | | | 55 PSI Liquid | | | Spray Dimensions | | | | | | |
|-----------|------------------------------------|------------------------------------|--------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|------------------|--------|---------|---------|---------|----------|----|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | liquid | A (in.) | B (in.) | C (in.) | D (feet) | |
| 1/2 | AD 5050 | Fluid Cap FC 501 & Air Cap AC 5601 | | | | | | | 28 | 33.0 | 8.40 | 40 | 28.8 | 11.3 | 58 | 66.0 | 12.2 | 30 | 25 | 13.5 | 19.0 | 26.5 | 22 | |
| | | | | | | | | | | 30 | 19.8 | 10.8 | 42 | 15.6 | 13.9 | 60 | 42.0 | 15.0 | 40 | 35 | 13.5 | 19.0 | 26.5 | 24 |
| | | | | | | | | | | | | | | | | 62 | 25.5 | 18.2 | 60 | 55 | 14.0 | 19.5 | 27.0 | 28 |
| | AD 5100 | Fluid Cap FC 501 & Air Cap AC 5602 | 8 | 27.0 | 6.50 | 18 | 42.0 | 7.00 | 32 | 47.0 | 11.0 | 46 | 42.6 | 18.1 | 70 | 81.0 | 30.0 | 10 | 5.0 | 13.0 | 18.5 | 25.5 | 20 | |
| | | | 10 | 15.0 | 8.20 | 20 | 29.4 | 8.80 | 34 | 36.0 | 12.8 | 48 | 32.4 | 20.2 | 75 | 45.0 | 35.0 | 20 | 15 | 13.5 | 19.0 | 25.5 | 26 | |
| | | | 12 | 8.4 | 9.80 | 22 | 20.2 | 10.5 | 36 | 25.2 | 14.7 | 50 | 25.8 | 22.2 | 80 | 22.2 | 39.6 | 36 | 25 | 13.0 | 18.5 | 26.5 | 21 | |
| | | | | | | 24 | 14.4 | 12.2 | 38 | 18.6 | 16.6 | 52 | 19.8 | 24.0 | | | | 50 | 35 | 13.5 | 19.0 | 26.5 | 24 | |
| | AD 5150 | Fluid Cap FC 501 & Air Cap AC 5603 | 10 | 34.2 | 11.4 | 26 | 46.2 | 20.2 | 40 | 62.6 | 27.5 | 54 | 75.6 | 32.6 | 75 | 127 | 39.0 | 12 | 5.0 | 14.0 | 19.5 | 27.0 | 26 | |
| | | | 12 | 21.6 | 13.0 | 28 | 37.2 | 22.0 | 42 | 52.8 | 29.6 | 56 | 57.0 | 34.3 | 80 | 108 | 42.0 | 30 | 15 | 13.5 | 19.0 | 26.5 | 24 | |
| | | | 14 | 12.0 | 14.7 | 30 | 28.4 | 23.7 | 44 | 42.0 | 31.6 | 58 | 46.8 | 35.8 | 85 | 98 | 46.0 | 46 | 25 | 13.0 | 18.5 | 26.0 | 23 | |
| | | | | | | 32 | 21.6 | 25.3 | 46 | 33.6 | 33.6 | 60 | 39.0 | 37.3 | | | | 60 | 35 | 14.0 | 19.5 | 27.0 | 28 | |
| | | | | | | 34 | 16.2 | 27.0 | 48 | 25.2 | 35.6 | 62 | 33.0 | 38.8 | | | | 80 | 55 | 14.0 | 19.5 | 28.0 | 30 | |
| AD 5200 | Fluid Cap FC 502 & Air Cap AC 5604 | 10 | 35.4 | 11.1 | 18 | 103 | 15.4 | 26 | 155 | 17.7 | 36 | 180 | 23.0 | 54 | 222 | 29.1 | 10 | 5.0 | 13.0 | 25.0 | 36.0 | 11 | | |
| | | 12 | 26.4 | 13.4 | 20 | 81.6 | 17.6 | 28 | 135 | 20.0 | 38 | 162 | 25.4 | 56 | 204 | 31.2 | 20 | 15 | 11.0 | 26.0 | 36.0 | 16 | | |
| | | | | | 22 | 63.6 | 19.8 | 30 | 115 | 22.5 | 40 | 147 | 27.8 | 58 | 192 | 34.0 | 32 | 25 | 11.0 | 22.0 | 32.0 | 20 | | |
| | | | | | 24 | 49.3 | 22.6 | 32 | 100 | 25.1 | 42 | 131 | 30.2 | 60 | 180 | 36.3 | 44 | 35 | 11.0 | 21.0 | 29.0 | 22 | | |
| | | | | | 34 | | | 34 | 84.0 | 27.5 | 44 | 116 | 32.6 | 62 | 166 | 38.9 | 64 | 55 | 11.0 | 22.0 | 31.0 | 25 | | |
| | | | | | 36 | | | 36 | 69.5 | 30.0 | 46 | 101 | 35.1 | 64 | 154 | 41.6 | | | | | | | | |
| | | | | | 38 | | | 38 | 56.4 | 32.6 | 48 | 85.0 | 37.6 | 66 | 142 | 44.1 | | | | | | | | |
| | | | | | 40 | | | 40 | 45.7 | 35.3 | 50 | 75.0 | 40.2 | 68 | 130 | 46.6 | | | | | | | | |
| | | | | | | | | | | | 52 | 62.4 | 42.7 | 70 | 119 | 49.3 | | | | | | | | |
| | | | | | | | | | | | | | | 72 | 108 | 51.6 | | | | | | | | |
| | | | | | | | | | | | | | | 74 | 97.4 | 54.2 | | | | | | | | |
| | | | | | | | | | | | | | | 76 | 87.5 | 57.1 | | | | | | | | |

PR 1/2" XA PR Set-up Flow Rates and Dimensions Pressure-fed, Internal Mix, Narrow Angle Round Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 5 PSI Liquid | | | 15 PSI Liquid | | | 25 PSI Liquid | | | 35 PSI Liquid | | | 55 PSI Liquid | | | Spray Dimensions | | | | | |
|-----------|---------------------|------------------------------------|--------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|------------------|--------|---------|---------|---------|----------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | liquid | A (in.) | B (in.) | C (in.) | D (feet) |
| 1/2 | PR 5050 | Fluid Cap FC 501 & Air Cap AC 5501 | 18 | 9.00 | 12.4 | 28 | 31.7 | 14.9 | 38 | 58.0 | 17.3 | 48 | 80.0 | 19.3 | | | | 20 | 5.0 | | | | 22 |
| | | | 20 | 6.70 | 13.7 | 32 | 22.5 | 17.0 | 44 | 37.7 | 20.8 | 54 | 55.2 | 23.6 | | | | 36 | 15 | | | | 24 |
| | | | 22 | 5.40 | 14.7 | 38 | 15.9 | 19.3 | 50 | 24.7 | 24.8 | 60 | 40.0 | 27.5 | | | | 50 | 25 | 3.5 | 6.5 | 10 | 27 |
| | | | 24 | 4.10 | 15.7 | 36 | 13.2 | 20.4 | 54 | 19.5 | 27.5 | 66 | 30.0 | 32.1 | | | | 60 | 35 | | | | 30 |
| | | | | | | 40 | 11.1 | 21.5 | 58 | 16.0 | 30.2 | 72 | 23.3 | 37.0 | | | | | | | | | |
| | | | | 42 | 9.20 | 22.6 | 60 | 14.5 | 31.8 | 78 | 18.3 | 42.2 | | | | | | | | | | | |
| | PR 5100 | Fluid Cap FC 502 & Air Cap AC 5502 | 10 | 35.4 | 11.1 | 18 | 103 | 15.4 | 26 | 155 | 17.7 | 36 | 180 | 23.0 | 54 | 222 | 29.1 | 10 | 5.0 | 4.0 | 7.0 | 9.0 | 23 |
| | | | 12 | 26.4 | 13.4 | 20 | 81.6 | 17.6 | 28 | 135 | 20.0 | 36 | 162 | 25.4 | 56 | 205 | 31.2 | 20 | 15 | 6.0 | 10 | 13 | 21 |
| | | | | | | 22 | 63.6 | 19.8 | 30 | 115 | 22.5 | 40 | 147 | 27.8 | 58 | 190 | 34.0 | 32 | 25 | 5.0 | 8.0 | 10 | 37 |
| | | | | | | 24 | 49.3 | 22.6 | 32 | 100 | 25.1 | 42 | 131 | 30.2 | 60 | 178 | 36.3 | 44 | 35 | 4.0 | 7.0 | 10 | 41 |
| | | | | | | 34 | | | 34 | 84.0 | 27.5 | 44 | 116 | 32.6 | 62 | 166 | 38.9 | 64 | 55 | 4.0 | 7.0 | 10 | 47 |
| | | | | | | 36 | | | 36 | 69.5 | 30.0 | 48 | 101 | 35.1 | 64 | 154 | 41.6 | | | | | | |
| | | | | | 38 | | | 38 | 56.4 | 32.6 | 48 | 85.0 | 37.6 | 66 | 142 | 44.1 | | | | | | | |
| | | | 40 | | | 40 | 45.7 | 35.3 | 50 | 73.0 | 40.2 | 68 | 130 | 46.6 | | | | | | | | | |
| | | | | | | | | | 52 | 62.4 | 42.7 | 70 | 119 | 49.3 | | | | | | | | | |
| | | | | | | | | | | | | 72 | 108 | 51.6 | | | | | | | | | |
| | | | | | | | | | | | | 74 | 97.4 | 54.2 | | | | | | | | | |
| | | | | | | | | | | | | 76 | 87.5 | 57.1 | | | | | | | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel, and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.

Dimensions are approximate. Check with BETE for critical dimension applications.

EF

1/2" XA EF Set-up Flow Rates and Dimensions

Pressure-fed, External Mix, Flat Fan Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 3 PSI Liquid | | | 5 PSI Liquid | | | 7 PSI Liquid | | | 10 PSI Liquid | | | 15 PSI Liquid | | | Spray Dimensions | | | | | | |
|-----------|---------------------|----------------------------------|--------------|-----|------|--------------|-----|------|--------------|-----|------|---------------|-----|------|---------------|-----|------|------------------|------------|---------|---------|---------|----------|------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | PSI liquid | A (in.) | B (in.) | C (in.) | D (feet) | |
| 1/2 | EF 5050 | Fluid Cap FC501 & Air Cap AC5001 | 30 | 138 | 31.0 | 40 | 180 | 38.0 | 45 | 210 | 41.5 | 55 | 252 | 48.0 | 80 | 306 | 65 | 35 | 3 | 8.5 | 14.5 | 20.5 | 19 | |
| | | | 35 | | 34.0 | 45 | | 41.5 | 50 | | 45.0 | 60 | | 51.5 | 85 | | 69 | 50 | 5 | 9.0 | 16.5 | 21.5 | 22 | |
| | | | 40 | | 38.0 | 50 | | 45.0 | 55 | | 48.0 | 60 | | 51.5 | 75 | | 62.0 | 95 | 75 | 7 | 9.5 | 17.5 | 23.0 | 23 |
| | | | 45 | | 41.5 | 55 | | 48.0 | 60 | | 51.5 | 65 | | 55.0 | 80 | | 65.0 | 100 | 78 | 10 | 9.5 | 18.5 | 24.0 | 25 |
| | | | | | | 60 | | 51.5 | 65 | | 55.0 | 70 | | 58.0 | 85 | | 69.0 | | | 90 | 15 | 10 | 19.5 | 26.0 |

PF

1/2" XA PF Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, Flat Fan Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 5 PSI Liquid | | | 15 PSI Liquid | | | 25 PSI Liquid | | | 35 PSI Liquid | | | 55 PSI Liquid | | | Spray Dimensions | | | | | | | | | | | | | | | | | |
|-----------|---------------------|----------------------------------|--------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|---------------|------|------|------------------|------------|---------|---------|---------|----------|------|------|----|-----|------|----|----|----|----|----|----|--|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | PSI liquid | A (in.) | B (in.) | C (in.) | D (feet) | | | | | | | | | | | | |
| 1/2 | PF5050 | Fluid Cap FC501 & Air Cap AC5301 | | | | 28 | 39.0 | 22.4 | 44 | 44.1 | 31.5 | 58 | 53.0 | 40.0 | 222 | 29.1 | 20 | 10 | 17 | 28 | 35 | 18 | | | | | | | | | | | | | |
| | | | 30 | 31.8 | 24.0 | 46 | | 37.2 | 33.5 | | 60 | 45.6 | | 42.0 | | 30 | 15 | 18 | 29 | 36 | 19 | | | | | | | | | | | | | | |
| | | | 32 | 24.6 | 25.9 | 48 | | 31.2 | 35.1 | | 62 | 38.0 | | 44.0 | | 40 | 20 | 19 | 30 | 37 | 21 | | | | | | | | | | | | | | |
| | | | 34 | 19.8 | 27.5 | 50 | | 26.0 | 36.9 | | 65 | 31.0 | | 47.0 | | 50 | 25 | 20 | 31 | 38 | 23 | | | | | | | | | | | | | | |
| | | | 36 | 15.0 | 29.1 | 60 | | 20.6 | 38.7 | | 70 | 21.0 | | 52.5 | | 60 | 35 | 24 | 36 | 43 | 27 | | | | | | | | | | | | | | |
| | PF 5100 | Fluid Cap FC502 & Air Cap AC5302 | 10 | 35.4 | 11.1 | 18 | 103 | 15.4 | 26 | 155 | 17.7 | 36 | 180 | 23.0 | 54 | 222 | 29.1 | 10 | 5.0 | 20 | 34 | 47 | 13 | | | | | | | | | | | | |
| | | | 12 | | | 26.4 | | | 13.4 | | | 20 | | | | | | 81.6 | 17.6 | 28 | 135 | 20.1 | 36 | 162 | 25.4 | 56 | 205 | 31.2 | 20 | 15 | 34 | 62 | 83 | 15 | |
| | | | | | | | | | | | | 22 | | | | | | 63.6 | 19.8 | 30 | 115 | 22.5 | 40 | 147 | 27.8 | 58 | 190 | 34.0 | 20 | 15 | 34 | 62 | 83 | 15 | |
| | | | | | | | | | | | | 24 | | | | | | 49.3 | 22.6 | 32 | 100 | 25.1 | 42 | 131 | 30.2 | 60 | 178 | 36.3 | 32 | 25 | 34 | 62 | 82 | 17 | |
| | | | | | | | | | | | | 34 | | | | | | 84.0 | 27.5 | 34 | 84.0 | 27.5 | 44 | 116 | 32.6 | 62 | 166 | 38.9 | 44 | 35 | 36 | 66 | 85 | 19 | |
| | | | | | | | | | | | | 36 | | | | | | 69.5 | 30.0 | 36 | 69.5 | 30.0 | 46 | 101 | 35.1 | 64 | 154 | 41.6 | 64 | 55 | 36 | 67 | 89 | 21 | |
| | | | | | | | | | | | | 38 | | | | | | 56.4 | 32.6 | 38 | 56.4 | 32.6 | 48 | 85.0 | 37.6 | 66 | 142 | 44.1 | | | | | | | |
| | | | | | | | | | | | | 40 | | | | | | 45.7 | 35.3 | 40 | 45.7 | 35.3 | 50 | 73.0 | 40.2 | 68 | 130 | 46.6 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 52 | 62.4 | 42.7 | 70 | 119 | 49.3 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 72 | 108 | 51.6 | | | | | | | |
| | | | | | | | | | | | | 74 | 97.4 | 54.2 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | 76 | 87.5 | 57.1 | | | | | | | | | | | | | | | | | | | | | |

SR

1/2" XA SR Set-up Flow Rates and Dimensions

Siphon-fed, External Mix, Narrow Angle Round Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | ATOMIZING AIR | | Liquid Capacity in GPH (Gallons Per Hour) | | | | | | | | Spray Dimensions at 8" Siphon Ht. | | | | |
|-----------|---------------------|----------------------------------|---------------|-------------------|---|------|------|---------------|----|------|------|------|-----------------------------------|---------|----------|---|----|
| | | | PSI air | Air Capacity SCFM | Gravity Head | | | Siphon Height | | | | | PSI air | B (in.) | D (feet) | | |
| | | | | | 18" | 12" | 6" | 4" | 8" | 12" | 24" | | | | | | |
| 1/2 | SR 5050 | Fluid Cap FC501 & Air Cap AC5201 | 10 | 12.7 | | | | | | 10.7 | | | | | 20 | | 20 |
| | | | 20 | 18.5 | | | | | | 22.8 | | | | | 30 | | 22 |
| | | | 30 | 24.0 | | | | | | 32.4 | 13.9 | | | | 40 | | 24 |
| | | | 43 | 29.2 | | | 67.6 | 58.8 | | 38.8 | 31.2 | 22.7 | | | 50 | 6 | 26 |
| | | | 50 | 34.8 | | 79.8 | 70.5 | 62.8 | | 43.0 | 35.2 | 27.6 | | | 60 | | 29 |
| | | | 60 | 40.1 | | 81.9 | 72.1 | 63.5 | | 45.4 | 38.3 | 30.5 | 9.50 | | 70 | | 32 |
| | | | 70 | 46.1 | | 83.2 | 74.5 | 66.0 | | 48.0 | 41.4 | 33.9 | 13.8 | | 80 | | 35 |
| | | | 80 | 51.0 | | 84.6 | 76.2 | 67.6 | | 49.8 | 43.2 | 36.0 | 16.5 | | | | |

XW

1/2" XA XW Set-up Flow Rates and Dimensions

Pressure-fed, Internal Mix, 180° Extra-Wide Angle, Hollow Cone Spray Pattern, 1/2" Pipe Sizes

| Pipe Size | Spray Set-up Number | Fluid and Air Cap Numbers | 10 PSI Liquid | | | 20 PSI Liquid | | | 30 PSI Liquid | | | 40 PSI Liquid | | | 40 PSI Liquid | | | | | | | | | | | | |
|-----------|---------------------|----------------------------------|---------------|------|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|---------------|-----|------|------|----|------|------|----|------|------|----|------|------|
| | | | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | PSI air | GPH | SCFM | | | | | | | | | | |
| 1/2 | XW 5050 | Fluid Cap FC502 & Air Cap AC5401 | 14 | 56.4 | 12.2 | 24 | 104 | 16.0 | 36 | 116 | 22.4 | 48 | 122 | 27.8 | 72 | 128 | 40.2 | | | | | | | | | | |
| | | | 16 | | | 38.4 | | | 14.8 | | | 26 | | | 85.8 | | | 18.6 | 38 | 98.4 | 24.8 | 50 | 110 | 29.8 | 74 | 116 | 42.3 |
| | | | 18 | | | 25.8 | | | 16.8 | | | 28 | | | 70.0 | | | 20.3 | 40 | 85.2 | 26.5 | 52 | 98.4 | 31.5 | 76 | 108 | 44.3 |
| | | | 20 | | | 15.6 | | | 19.0 | | | 30 | | | 54.6 | | | 22.7 | 42 | 73.2 | 28.9 | 54 | 85.8 | 33.8 | 78 | 96.6 | 46.3 |
| | | | | | | | | | | | | 32 | | | 42.0 | | | 24.8 | 44 | 61.0 | 30.9 | 56 | 74.4 | 36.0 | 80 | 85.8 | 48.3 |
| | | | | | | | | | | | | 34 | | | 30.6 | | | 26.8 | 46 | 49.8 | 35.0 | 58 | 66.0 | 38.3 | 82 | 78.6 | 50.5 |
| | | | | | | | | | | | | 36 | | | 20.0 | | | 29.3 | 48 | 38.4 | 35.0 | 60 | 55.2 | 40.1 | 84 | 67.8 | 52.5 |
| | | | | | | | | | | | | 38 | | | 7.20 | | | 31.8 | 50 | 30.0 | 37.8 | 62 | 44.4 | 42.0 | 86 | 60.0 | 54.8 |
| | | | | | | | | | | | | | | | | | | | | | | 64 | 37.2 | 44.5 | 90 | 48.0 | 59.0 |
| | | | | | | | | | | | | | | | | | | | | | | 66 | 20.4 | 45.8 | | | |

Standard Materials: Nickel Plated Brass, 303 Stainless Steel and 316 Stainless Steel.

Spray angle performance varies with pressure. Contact BETE for specific data on critical applications.