

Gatewood

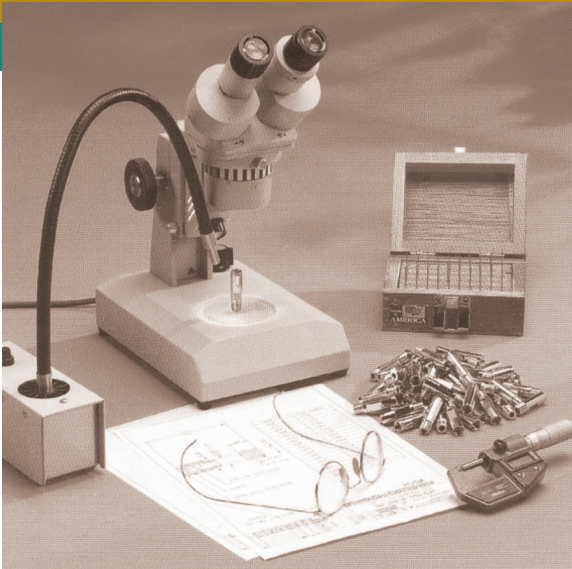
Leaders in Spray Nozzles for the Paper Industry



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Leaders in Spray Nozzles for the Paper Industry

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History

Located in Hillsboro, Oregon, M. L. Gatewood Company has been manufacturing Needle Jet trim nozzles since 1962, for use on paper machines around the world.

Based on our customer requirements, we have expanded our line to include edge-trimming machines and nozzles for other applications on the machine. Looking to continuously improve, we are always searching for ways to better serve our Customer.

Quality

We understand how important the quality of our nozzles are to successful paper machine operations. Our nozzles are

rigorously inspected and spray tested to ensure they meet specification. We guarantee that our nozzles work!

We are always striving to provide the best technology in our designs. Research and development is an on-going process at Gatewood.

Service

Gatewood provides attention to individual customer needs. We stand behind our products to the complete satisfaction of our customers. No strings, no questions, just a commitment to service.

- Large Inventory
- Practical Packaging and Labeling
- No Question Too Small
- Technical Assistance means you're only a phone call away from Gatewood's knowledgeable staff.
- Same Day Shipping on all In-Stock Parts to keep your machines running





Ruby trim Nozzles are available in Single, Double 10° and Parallel Stream. We have completed a comprehensive development program to perfect these nozzle designs and extensive testing has been done to ensure a very effective and high quality product for our customers. Our Ruby nozzles have Stainless Steel bodies and low friction precision ruby orifices and are provided with a rotating Teflon shield or integral Stainless Steel Shield to protect the stream from moisture or debris buildup. The shields are cut on an angle to direct drips to the waste side of the cut. Orifices are available in a large range of sizes. Our Double Stream nozzle can be requested with two different orifice sizes.

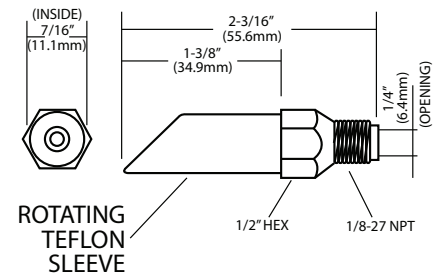
See Page 7 for Stream Details and Page 9 for special Gatewood Thread Adapters.

Ruby Tips - Single Stream

Single Ruby Tip in Stainless Steel Shell with Teflon® Drip Shield



Size	Part#
.010" (0.25mm)	R1045SS
.015" (0.38mm)	R1545SS
.020" (0.57mm)	R2045SS
.025" (0.64mm)	R2545SS
.030" (0.76mm)	R3045SS
.035" (0.89mm)	R3545SS
.040" (1.02mm)	R4045SS
.050" (1.27mm)	R5045SS

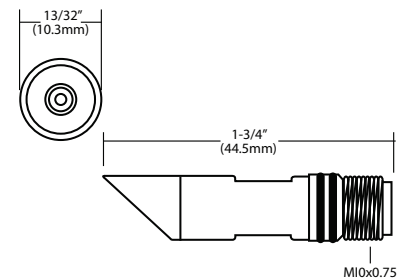


Single Ruby Tip in Stainless Steel with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010" (0.25mm)	RS109MSS	RS109SS
.015" (0.38mm)	RS159MSS	RS159SS
.020" (0.51mm)	RS209MSS	RS209SS
.025" (0.64mm)	RS259MSS	RS259SS
.030" (0.76mm)	RS309MSS	RS309SS
.035" (0.89mm)	RS359MSS	RS359SS
.040" (1.02mm)	RS409MSS	RS409SS
.045" (1.14mm)	RS459MSS	RS459SS

Note: Also available with anti-stick Teflon® Coating.
Add TEF to the Part # - i.e. RS109MSSTEF

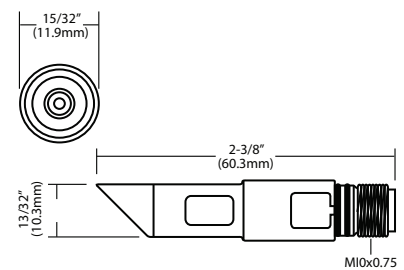


Single Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



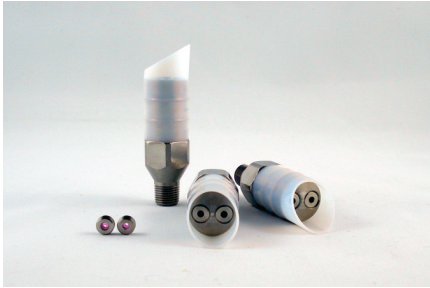
Size	Part# - 10mm	Part# - 1/8" NPT
.010" (0.25mm)	RA109MSS	RA109SS
.015" (0.38mm)	RA159MSS	RA159SS
.020" (0.51mm)	RA209MSS	RA209SS
.025" (0.64mm)	RA259MSS	RA259SS
.030" (0.76mm)	RA309MSS	RA309SS
.035" (0.89mm)	RA359MSS	RA359SS
.040" (1.02mm)	RA409MSS	RA409SS
.045" (1.14mm)	RA459MSS	RA459SS

Note: Also available with anti-stick Teflon® Coating.
Add TEF to the Part # - i.e. RA109MSSTEF



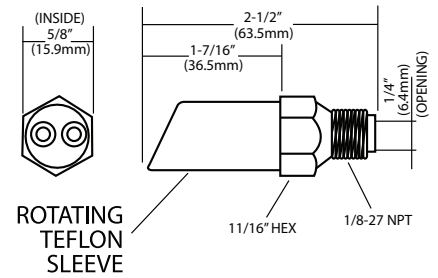
Ruby Tips - Double 10° Stream & Parallel Stream

Double 10 Stream Ruby Tip in Stainless Steel Shell with Teflon® Drip Shield



Size	Part#
.010" (0.25mm)	RD1046SS
.015" (0.38mm)	RD1546SS
.020" (0.51mm)	RD2046SS
.025" (0.64mm)	RD2546SS
.030" (0.76mm)	RD3046SS
.035" (0.89mm)	RD3546SS
.040" (1.02mm)	RD4046SS
.050" (1.27mm)	RD5046SS

Any combination of sizes are available.

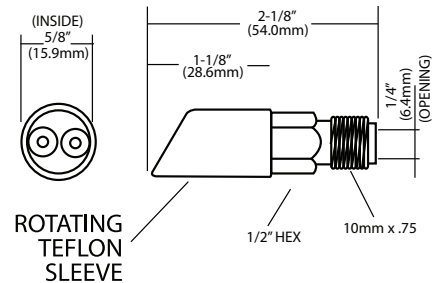


Double Parallel Stream Ruby Tip in Stainless Steel Shell with Teflon® Drip Shield



Size	Part#
.010" (0.25mm)	R-PRL1047SS
.015" (0.38mm)	R-PRL1547SS
.020" (0.51mm)	R-PRL2047SS
.025" (0.64mm)	R-PRL2547SS
.030" (0.76mm)	R-PRL3047SS
.035" (0.89mm)	R-PRL3547SS
.040" (1.02mm)	R-PRL4047SS
.050" (1.27mm)	R-PRL5047SS

Note: Nozzle has metric thread - 10mm x 0.75 Male with double O-ring connection. Any combination of sizes are available.

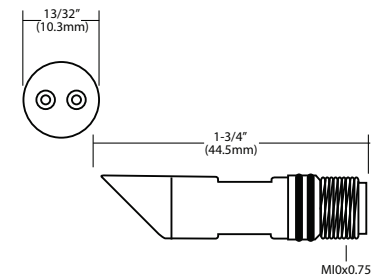


Double Parallel Stream Ruby Tip in Stainless Steel Shell with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010" (0.25mm)	RS-PRL109MSS	RS-PRL109SS
.015" (0.38mm)	RS-PRL159MSS	RS-PRL159SS
.020" (0.51mm)	RS-PRL209MSS	RS-PRL209SS
.025" (0.64mm)	RS-PRL259MSS	RS-PRL259SS
.030" (0.76mm)	RS-PRL309MSS	RS-PRL309SS

Note: Also available with anti-stick Teflon® Coating. Add TEF to the Part # - i.e. RS-PRL109MSSTEF

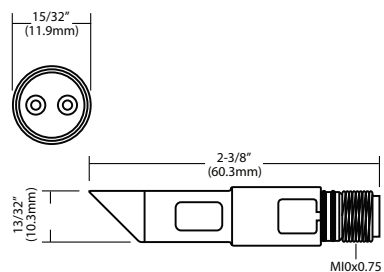


Double Parallel Stream Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010" (0.25mm)	RA-PRL109MSS	RA-PRL109SS
.015" (0.38mm)	RA-PRL159MSS	RA-PRL159SS
.020" (0.51mm)	RA-PRL209MSS	RA-PRL209SS
.025" (0.64mm)	RA-PRL259MSS	RA-PRL259SS
.030" (0.76mm)	RA-PRL309MSS	RA-PRL309SS

Note: Also available with anti-stick Teflon® Coating. Add TEF to the Part # - i.e. RA-PRL109MSSTEF



Stainless Steel Tips

Leaders in Spray Nozzles for the Paper Industry



Stainless Steel Tips are available in Single, Double 10°, and Parallel Streams. Single Stream tips produce a fine, tight stream that can be used in a great range of distances from the web. They come in regular or high-pressure shells. Orifice sizes range from .010" (0.25mm) through .080" (2.03mm) and threads are 1/8" NPT.

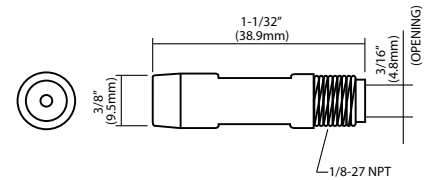
See Page 9 for special Gatewood Thread Adapters.

Stainless Steel Tips - Single Stream

Single Stainless Tip in Brass Long Shell



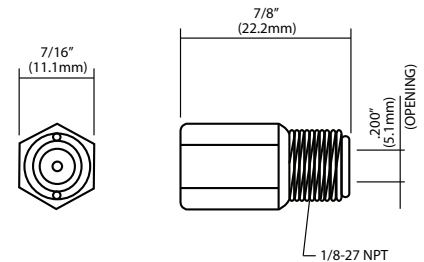
Size	Part#	Size	Part#
.010" (0.25mm)	S104	.035" (0.89mm)	S354
.012" (0.30mm)	S124	.037" (0.94mm)	S374
.015" (0.38mm)	S154	.040" (1.02mm)	S404
.018" (0.46mm)	S184	.042" (1.07mm)	S424
.020" (0.51mm)	S204	.045" (1.14mm)	S454
.023" (0.58mm)	S234	.050" (1.28mm)	S504
.025" (0.64mm)	S254	.060" (1.52mm)	S604
.038" (0.71mm)	S284	.070" (1.78mm)	S704
.030" (0.76mm)	S304	.080" (2.03mm)	S804
.032" (0.81mm)	S324		



Single Stainless Tip in Stainless Steel Short Hex High Pressure Shell



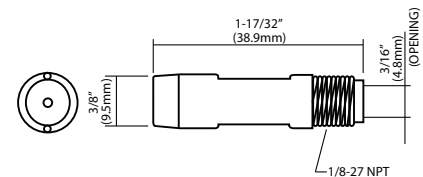
Size	Part#	Size	Part#
.010" (0.25mm)	S108SS	.035" (0.89mm)	S358SS
.012" (0.30mm)	S128SS	.037" (0.94mm)	S378SS
.015" (0.38mm)	S158SS	.040" (1.02mm)	S408SS
.018" (0.46mm)	S188SS	.042" (1.07mm)	S428SS
.020" (0.51mm)	S208SS	.045" (1.14mm)	S458SS
.023" (0.58mm)	S238SS	.050" (1.28mm)	S508SS
.025" (0.64mm)	S258SS	.060" (1.52mm)	S608SS
.038" (0.71mm)	S288SS	.070" (1.78mm)	S708SS
.030" (0.76mm)	S308SS	.080" (2.03mm)	S808SS
.032" (0.81mm)	S328SS		



Single Stainless Tip in Stainless Steel High Pressure Shell



Size	Part#	Size	Part#
.010" (0.25mm)	S1011SS	.035" (0.89mm)	S3511SS
.012" (0.30mm)	S1211SS	.037" (0.94mm)	S3711SS
.015" (0.38mm)	S1511SS	.040" (1.02mm)	S4011SS
.018" (0.46mm)	S1811SS	.042" (1.07mm)	S4211SS
.020" (0.51mm)	S2011SS	.045" (1.14mm)	S4511SS
.023" (0.58mm)	S2311SS	.050" (1.28mm)	S5011SS
.025" (0.64mm)	S2511SS	.060" (1.52mm)	S6011SS
.028" (0.71mm)	S2811SS	.070" (1.78mm)	S7011SS
.030" (0.76mm)	S3011SS	.080" (2.03mm)	S8011SS
.032" (0.81mm)	S3211SS		



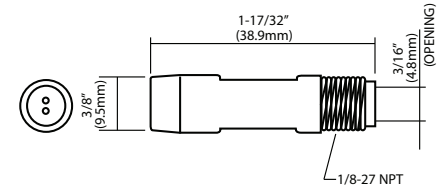
Stainless Steel Tips - Double 10° Stream & Parallel Stream

Double Stainless Tips in Brass Long Shell



Size	10° Stream	Parallel Stream
.010" x 2 (0.25mm)	D105	PRL105
.012" x 2 (0.30mm)	D125	PRL125
.015" x 2 (0.38mm)	D155	PRL155
.018" x 2 (0.46mm)	D185	PRL185
.020" x 2 (0.51mm)	D205	PRL205
.023" x 2 (0.58mm)	D235	PRL235
.025" x 2 (0.64mm)	D255	PRL255
.015" x .020" (0.38 x 0.51mm)	D15205	PRL15205

Any Combination of Sizes are Available

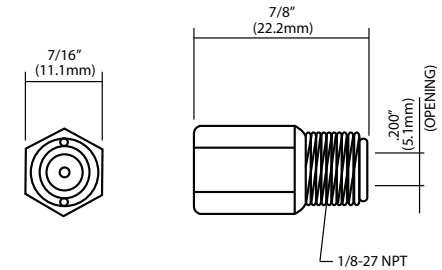


Double Stainless Tips in Stainless Steel Short High Pressure Hex Shell



Size	10° Stream	Parallel Stream
.010" x 2 (0.25mm)	D108SS	PRL108SS
.012" x 2 (0.30mm)	D128SS	PRL128SS
.015" x 2 (0.38mm)	D158SS	PRL158SS
.018" x 2 (0.46mm)	D188SS	PRL188SS
.020" x 2 (0.51mm)	D208SS	PRL208SS
.023" x 2 (0.58mm)	D238SS	PRL238SS
.025" x 2 (0.64mm)	D258SS	PRL258SS
.015" x .020" (0.38 x 0.51mm)	D15208SS	PRL15208SS

Any Combination of Sizes are Available

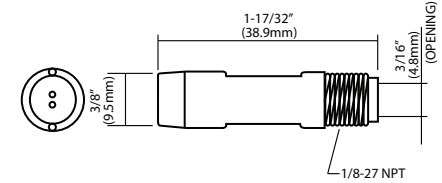


Double Stainless Tips in Stainless Steel Long High Pressure Shell

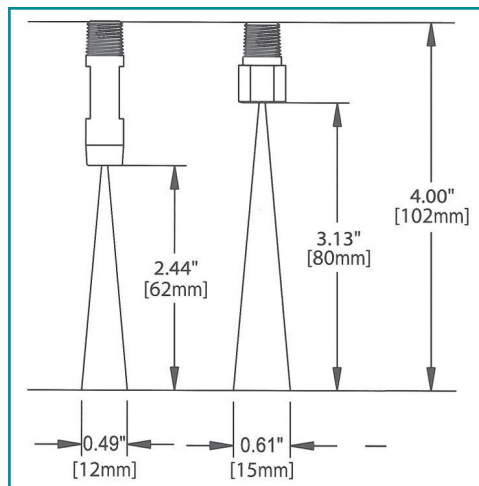


Size	10° Stream	Parallel Stream
.010" x 2 (0.25mm)	D1011SS	PRL1011SS
.012" x 2 (0.30mm)	D1211SS	PRL1211SS
.015" x 2 (0.38mm)	D1511SS	PRL1511SS
.018" x 2 (0.46mm)	D1811SS	PRL1811SS
.020" x 2 (0.51mm)	D2011SS	PRL2011SS
.023" x 2 (0.58mm)	D2311SS	PRL2311SS
.025" x 2 (0.64mm)	D2511SS	PRL2511SS
.015" x .020" (0.38 x 0.51mm)	D152011SS	PRL152011SS

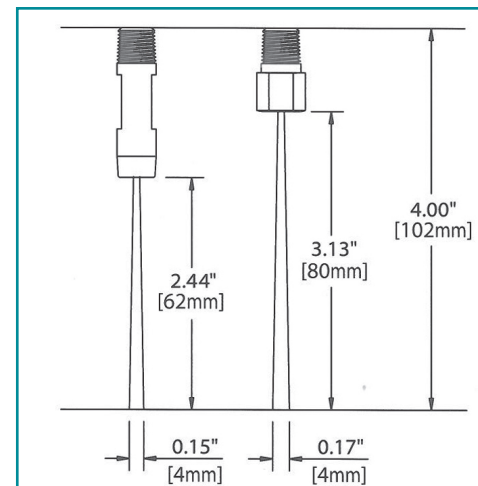
Any Combination of Sizes are Available



Double 10° Stream Tip Details



Parallel Stream Tip Details



NOTE: On stream detail drawings - all dimensions may vary slightly.

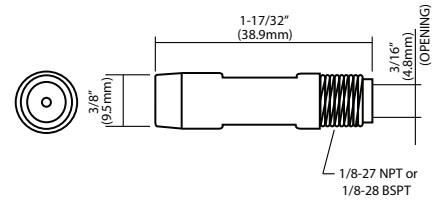
Pyrex Tips

Pyrex Tip in Brass Long Shell



Gatewood's most widely used nozzle comes equipped with a reliable Pyrex tip. This guarantees a smooth, consistent flow. Orifice sizes range from .010" (0.25mm) through .080" (2.05mm) NPT.

See Page 9 for Gatewood Thread Adapters



Size	Part#	Size	Part#	Size	Part#	Size	Part#
.010" (0.25mm)	P102	.020" (0.51mm)	P202	.030" (0.76mm)	P302	.050" (1.28mm)	P502
.012" (0.30mm)	P122	.023" (0.58mm)	P232	.035" (0.89mm)	P352	.060" (1.52mm)	P602
.015" (0.38mm)	P152	.025" (0.64mm)	P252	.040" (1.02mm)	P402	.070" (1.78mm)	P702
.018" (0.46mm)	P182	.028" (0.71mm)	P282	.045" (1.14mm)	P452	.080" (2.03mm)	P802

Ceramic Tips



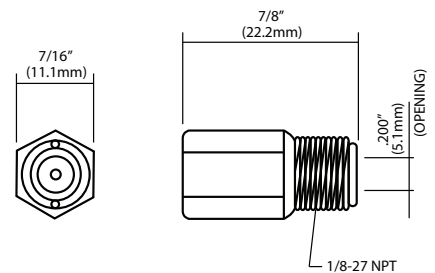
The Gatewood Ceratip is a long lasting, precision, high pressure nozzle with an extremely hard ceramic tip. This tough, high quality nozzle was specially designed by Gatewood at the request of several large paper mills in need of a nozzle to withstand high pressure while maintaining the highest quality stream over long periods of time.

Orifice sizes are .010" (0.25mm) through .050" (1.27mm) NPT.

Ceramic Tip in Stainless Steel Short Hex Shell



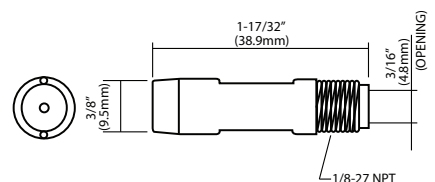
Size	Part#
.010" (0.25mm)	C108SSS
.015" (0.38mm)	C158SSS
.020" (0.51mm)	C208SSS
.025" (0.64mm)	C258SSS
.030" (0.76mm)	C308SSS
.035" (0.89mm)	C358SSS
.040" (1.02mm)	C408SSS
.050" (1.27mm)	C508SSS



Ceramic Tip in Stainless Steel Long High Pressure Shell



Size	Part#
.010" (0.25mm)	C1011SS
.015" (0.38mm)	C1511SS
.020" (0.51mm)	C2011SS
.025" (0.64mm)	C2511SS
.030" (0.76mm)	C3011SS
.035" (0.89mm)	C3511SS
.040" (1.02mm)	C4011SS
.050" (1.27mm)	C5011SS

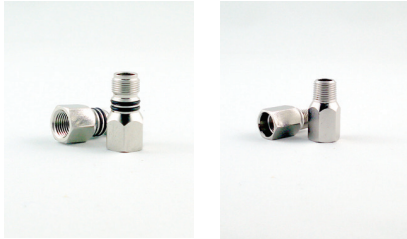


Thread Adapters, Filter Screens & Accessories

Leaders in Spray Nozzles for the Paper Industry

We are continuously striving to provide the best technology in our designs. Our research and development is an on-going process. In addition, we provide a wide range of accessories to compliment your nozzles. If your trim nozzle application requires special accessories - contact us.

Thread Adapters



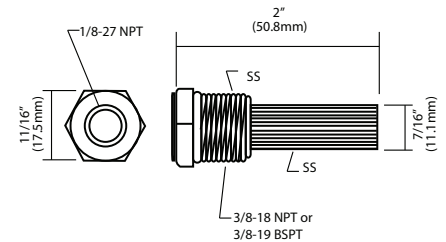
Part #	Description
M10FSS	10mm x 0.75 Female to 1/8 NPT Male Stainless Steel Note: Adapts Gatewood Double Parallel Stream Ruby Nozzle to 1/8 NPT Male
M10MSS	1/8 NPT Female to 10mm x .75 Male Stainless Steel Note: Adapts All Gatewood 1/8 NPT Nozzles to 10mm x 0.75 Female

Filter Screen with Stainless Bushing



Size	Part#
40 Mesh	SA64
50 Mesh	SA65
60 Mesh	SA66
100 Mesh	SA6100R
40 Mesh BSPT	SA74
50 Mesh BSPT	SA75
60 Mesh BSPT	SA76
100 Mesh BSPT	SA7100R

Shown with Standard Screen

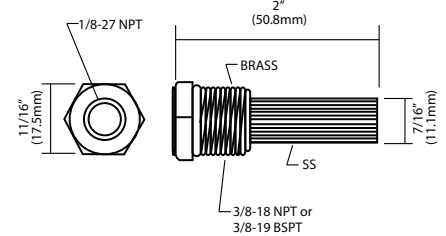


Filter Screen with Brass Bushing

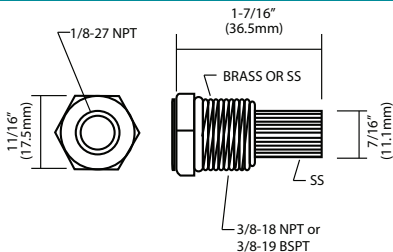


Size	Part#
40 Mesh	A64
50 Mesh	A65
60 Mesh	A66
100 Mesh	A6100R
40 Mesh BSPT	A74
50 Mesh BSPT	A75
60 Mesh BSPT	A76
100 Mesh BSPT	A7100R

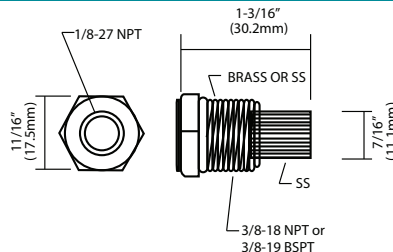
Shown with Standard Screen



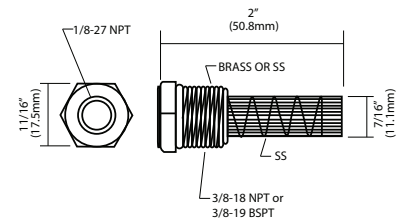
Other Screen Options



Short Screen		
Size	Brass	SS
50 Mesh	A65SHRT	SA65SHRT



Extra Short Screen		
Size	Brass	SS
50 Mesh	A65SHSH	SA65SHSH



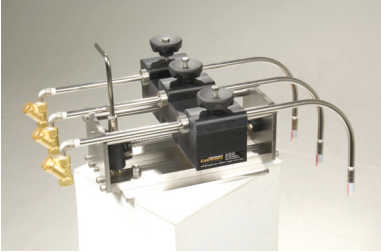
Reinforced Screen		
Size	Brass	SS
40 Mesh	A64R	SA64R
50 Mesh	A65R	SA65R
600 Mesh	A66R	SA66R
100 Mesh	A6100R	SA6100R
200 Mesh	A6200R	SA6200R

Edge Trimming Machines

Leaders in Spray Nozzles for the Paper Industry

The world's leading wet-end trim nozzle manufacturer can now provide you with a complete edge trimming system. Our unique machine allows the operator to make precision adjustments to the width of the sheet or safely change a nozzle during production.

Adjusta Trim Squirt

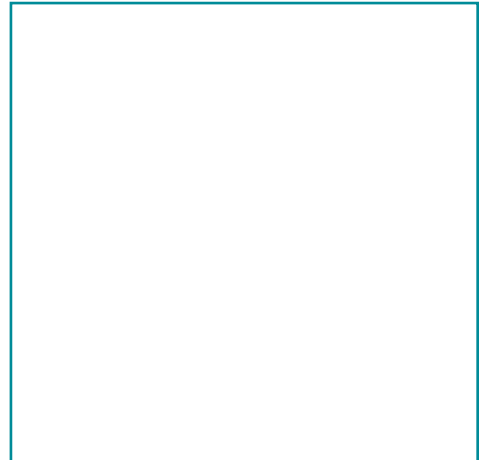


- Precise horizontal adjustment through and 8-1/4" (210mm) range.
- 1/2" diameter squirt pipes accept 1/8" NPT trim nozzles directly into the outlet end.
- Easy filter screening access at the inline end.
- Rugged machine
- Easy to install and operate
- Maximum adjustability within a compact size
- **SQUIRT PIPES FABRICATED TO YOUR SPECIFIC REQUIREMENTS**

Top View



End View



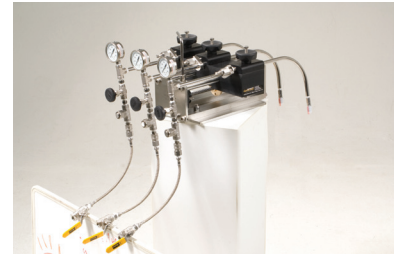
Side View



Adjusta Trim Squirt "PLUS"

Additional features of the "PLUS" machine include:

- Pressure gauges and needle valves allow fine tuning of water pressure at the trim nozzle.
- Micro-adjustment to precision align each nozzle cut
- Increased capacity filtering for longer protection of linear stream
- Flexible piping and on/off valves with quick disconnects
- Easy to install and operate



Operator Safety - Our Number One Motivation for the Design!

Adjust the trim and change nozzles from a SAFE location! All three squirts move at the same time with the easy turn of a handle. Simply loosen the clamping knob and remove the squirt tubes from the machine to make a nozzle change - then replace it to the exact same trimming location by utilizing the unique "double locking collar" system.

High Pressure Cleaning Nozzles

Threaded NDL Type



NDL



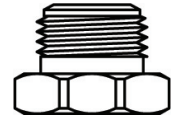
NDL "A"



NDL "B"

DIMENSIONAL DATA

Nozzle Type	Inlet Connection	Length	Internal Hex	External Hex
NDL	9/16" - 24 UNEF	.56" (14.2mm)	-	11/16"
NDL "A"	9/16" - 24 UNEF	.62" (15.7mm)	5/16"	-
NDL "B"	9/16" - 24 UNEF	.56" (14.2mm)	-	11/16"



Our NDL Style nozzles are typically used in high pressure oscillating cleaning showers. All models have a standard 316SS body and are available with a 316SS, Ceramic or Ruby Orifice. Body Styles include the standard external Hex without O-Ring, or an internal or external Hex with O-Ring.

How to Order

Example: **S-NDL40A**

S

Orifice Material
S=316 Stainless Steel
C=Ceramic
R=Ruby

-NDL

Nozzle Type
NDL=Needle

40

Capacity Size
See Specs in Table Below

A

Body Style
Blank = External HEX, without O-Ring
A=Internal HEX, with O-Ring
B=External HEX, with O-Ring

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE ORIFICE MATERIALS		
3	4	5	7	15	30	40	50	60			316SS	CERAMIC	RUBY
0	0	0	0	0	0	0	0	0	00	Blank	•		
0.42	0.48	0.54	0.63	0.93	1.3	1.5	1.7	1.9	28	0.71	•	•	•
0.62	0.73	0.81	0.95	1.4	2.0	2.4	2.7	2.9	33	0.84	•	•	•
0.71	0.84	0.93	1.1	1.7	2.3	2.7	3.1	3.3	35	0.89	•		•
0.89	1.0	1.1	1.4	2	2.8	3.2	3.6	3.9	40	1.02	•	•	•
1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0	55	1.40	•		
2.7	3.1	3.5	4.2	6.1	8.8	10.0	11.0	13.0	70	1.78	•		
4.5	5.2	5.9	7.0	10.0	15.0	18.0	20	22	94	2.39	•		
7.3	8.5	9.6	11.0	17.0	25	30	33	37	125	3.18	•		

High Pressure Cleaning Nozzles

Threaded NDL -EXT Type



NDL-EXT

Nozzle Type	Inlet Connection	Length	Hex
SNDL-EXT2	9/16" - 24 UNEF	2-3/16" (55.6mm)	11/16"
SNDL-EXT3	9/16" - 24 UNEF	3" (76.2mm)	11/16"
SNDL-EXT4	9/16" - 24 UNEF	4-1/2" (114.3mm)	11/16"

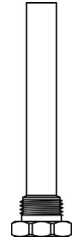
DIMENSIONAL DATA



SNDL-EXT2



SNDL-EXT3



SNDL-EXT4

Our Needle Style with Extension (NDL-EXT) Nozzle is designed to help prevent plugging in shower bars that are spraying down. The extension tube draws clean water from the top of the pipe. Available with a 316SS or Ceramic Orifice and the extension lengths shown.

How to Order - Needle Style with Extension

Example: **S-NDL40EXT2**

S



Orifice Material
S = 316 Stainless Steel
C = Ceramic

-NDL



Nozzle Type
-NDL= Needle

40



Capacity Size
See Specs in Table

EXT



Nozzle Type
EXT= with Extension

2



Length
2 = 2-3/16" (55.6mm)
3 = 3" (76.2mm)
4 = 4-1/2" (114.3mm)

Specifications

NDL-EXT

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE ORIFICE MATERIALS	
3	4	5	7	15	30	40	50	60			316SS	CERAMIC
0.42	0.48	0.54	0.63	0.93	1.3	1.5	1.7	1.9	28	0.71	•	•
0.62	0.73	0.81	0.95	1.4	2.0	2.4	2.7	2.9	33	0.84	•	•
0.89	1.0	1.1	1.4	2	2.8	3.2	3.6	3.9	40	1.02	•	•
1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0	55	1.40	•	
2.7	3.1	3.5	4.2	6.1	8.8	10.0	11.0	13.0	70	1.78	•	
4.5	5.2	5.9	7.0	10.0	15.0	18.0	20	22	94	2.39	•	
7.3	8.5	9.6	11.0	17.0	25	30	33	37	125	3.18	•	

High Pressure Cleaning Nozzles

Threaded BUL Type



BUL

Inlet Connection	Length	Hex
1/8"	(1-1/8") 28.6mm	7/16"

DIMENSIONAL DATA



The Bullet Style (BUL) Nozzle is designed with a smaller body and extension than the Needle Style with Extension and is available in 316SS only.

How to Order

Example: **S-BUL40**

S

Orifice Material
S = 316 Stainless Steel

-BUL

Nozzle Type
-BUL = Bullet Style

40

Capacity Size
See Specs in Table

Note: For BSPT Connections, please put a "B" in front of the Part Number. (eg:BS-BUL40)

Specifications

BUL

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE ORIFICE MATERIALS 316SS ONLY
3	4	5	7	15	30	40	50	60			
0.42	0.48	0.54	0.63	0.93	1.3	1.5	1.7	1.9	28	0.71	•
0.62	0.73	0.81	0.95	1.4	2.0	2.4	2.7	2.9	33	0.84	•
0.89	1.0	1.1	1.4	2.0	2.8	3.2	3.6	3.9	40	1.02	•
1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0	55	1.40	•
2.70	3.1	3.5	4.2	6.1	8.8	10.0	11.0	13.0	70	1.78	•

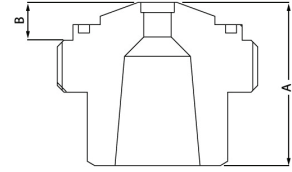
High Pressure Cleaning Nozzles

Disc-Type



M SERIES SHWR

Nozzle Type	Inlet Connection	A	B	Hex
M30	M30 (Fits 1-1/8" NPT)	0.95" (24.1mm)	0.275" (7mm)	0.75"
M30E	M30 (Fits 1-1/8" NPT)	0.95" (24.1mm)	0.345" (8.8mm)	0.75"
M32	M32	0.95" (24.1mm)	0.275" (7mm)	0.75"
M32E	M32	0.95" (24.1mm)	0.345" (8.8mm)	0.75"



DIMENSIONAL DATA

These solid stream nozzles are designed to replace the three-piece nozzle /gasket / retainer system in use on many brush-type shower pipes. The integral threads and o-ring significantly reduce change-out time and eliminate the possibility of poor seals or dropped components. Available with a Ruby Orifice in M30 or M32 threads.

How to Order

Example: **M30E-R-SHWR40A**

M30	E	R	-SHWR	40	A
Inlet Connection M30=M30 (Fits 1½") M32=M32	Insertion Length Blank=Standard E=Extended Insertion (Fits Spraying Systems Shower Pipes)	Orifice Material R=Ruby Only	Nozzle Type SHWR=Shower	Capacity Size See Specs in Table Below	Body Style A=Integral O-Ring

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)					CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE ORIFICE
1.5	3	7	20	55			RUBY
0.26	0.42	0.63	0.95	1.6	28	0.71	•
0.38	0.62	0.95	1.3	2.3	33	0.84	•
0.52	0.71	1.1	1.9	3.2	35	0.89	•
0.65	0.89	1.4	2.3	3.9	40	1.02	•

High Pressure Cleaning Nozzles

Disc-Type

Nozzle Type	A	B
SHWR	1" (25.4mm)	0.300" (7.6mm)
SHWR - "A"	1" (25.4mm)	0.275" (7mm)
SHWR - "G"	1" (25.4mm)	0.200" (5.1mm)

SHWR **SHWR - "A"** **SHWR - "G"** **DIMENSIONAL DATA**

Gatewood offers a variety of solid stream nozzles for use in brush-type showers. All of our Shower Nozzle Bodies are made from 316 Stainless Steel. We offer both a Gasket and O-Ring Disk Style Nozzle for use with a lock ring retainer. Available Orifice Materials include 316SS, Ceramic and Ruby.

How to Order

Example: **R-SHWR40G**

R

Orifice Material
S=316 Stainless Steel
R=Ruby
C=Ceramic

-SHWR

Nozzle Type
SHWR=Shower

40

Capacity Size
See Specs in Table Below

G

Body Style
Blank = Standard Body with Loose Gasket
A=O-Ring
G=Integral Gasket

All nozzles are supplied with Gaskets or O-Rings
For Replacement Gaskets - Order As: SHWR-GSKT
For Replacement O-Rings - Order As: SHWR-ORING

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)					CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE ORIFICE MATERIALS		
1.5	3	7	20	55			316SS	CERAMIC	RUBY
0	0	0	0	0	00	Blank	•		
0.26	0.42	0.63	0.95	1.6	28	0.71	•	•	•
0.38	0.62	0.95	1.3	2.3	33	0.84	•	•	•
0.52	0.71	1.1	1.9	3.2	35	0.89	•		•
0.65	0.89	1.4	2.3	3.9	40	1.02	•	•	•
0.95	1.6	2.4	3.2	5.7	55	1.40	•		
1.7	2.7	4.2	6.2	10.3	70	1.78	•		
3.5	4.5	7.0	12.6	21	94	2.39	•		
5.5	7.3	11.0	20	33	125	3.18	•		

Disc-Type Fan Nozzles

Disc-Type with Integral Threads



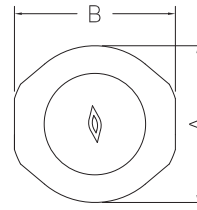
SHWR



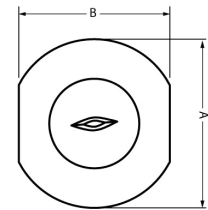
SHWRK

Nozzle Type	A	B
SHWR	1.02" (25.9mm)	1.05" (26.7mm)
SHWRK	1.18" (30mm)	1.05" (26.7mm)

DIMENSIONAL DATA



SHWR



SHWRK

Disc-Type Fan Nozzles are for use in brush-type showers where the internal brush is used to clean the nozzle orifice. Our standard shower nozzles will fit Spraying Systems and STAMM shower pipes while our "K" Type fits KADANT Showers designed for this style. Our shower series nozzles are made in 316SS material and are shipped with a sealing gasket.

How to Order

Example: **SHWRK4512SXM**

SHWR

Nozzle Style

K

Nozzle Type
Blank = SSCO/
Stamm
K = Kadant

45

Spray Angle
See Specs in
Table Below

12

Capacity Size
See Specs in
Table Below

SX

Material
SX=316SS Only

MX

Nozzle Type

Specifications

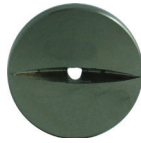
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)					CAPACITY SIZE	EQUIV. ORIFICE DIAMETER (MM)	Spray Angle @ 4BAR				
1.5	3	7	20	55			15	30	45	60	75
0.64	0.91	1.4	2.3	3.9	02	1.0	.	.	.	.	.
0.92	1.3	2.0	3.4	5.6	03	1.2	.	.	.	.	.
1.2	1.7	2.6	4.4	7.3	04	1.5	.	.	.	.	.
1.7	2.4	3.7	6.2	10.3	06	1.8	.	.	.	.	.
2.2	3.1	4.8	8.1	13.4	08	2.0	.	.	.	.	.
2.8	4.0	6.2	10.4	17.2	10	2.2	.	.	.	.	.
3.5	4.9	7.5	12.6	21	12	2.5	.	.	.	.	.
4.5	6.3	9.7	16.4	27	16	2.8	.	.	.	.	.
5.5	7.8	11.9	20	33	20	3.0	.	.	.	.	.
7.2	10.1	15.5	26	43	25	3.5	.	.	.	.	.
8.8	12.4	18.9	32	53	31	4.0	.	.	.	.	.
11.3	15.9	24	41	68	40	4.5	.	.	.	.	.
13.7	19.4	30	50	83	49	5.0	.	.	.	.	.
17	24.2	38.2	61	108	64	5.5	.	.	.	.	.
22	31	48	81	135	78	6.0	.	.	.	.	.
28	39	60	101	167	99	7.0	.	.	.	.	.
35	49	75	126	210	124	8.0	.	.	.	.	.

Flush Mounted Shower Nozzles

BT & BN



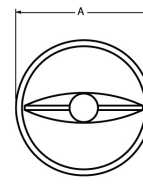
BT



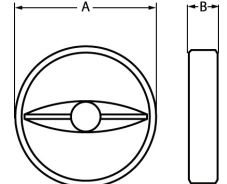
BN

Nozzle Type	Thread Size	Thickness
BT	5/8" UNF	1/8" (3.2mm)
BN (Threadless)	5/8" (15.9mm)	1/8" (3.2mm)

DIMENSIONAL DATA



BT



BN

Our BT and BN Style nozzles are used in shower pipes where low profile mounting is required. The BT Nozzle threads directly into the shower pipe for a flush mounting. The BN Style nozzle is held in place with a Retainer Cap.

How to Order

Example: **BTSX6513MX**

BT



Nozzle Style
BT=5/8-18 Thread
BN=Threadless

SX



Material
SX=316SS Only

65



Spray Angle
See Specs in
Table Below

13



Capacity Size
See Specs in
Table Below

MX



Nozzle Type

Specifications - Spray Angles 25° - 60°

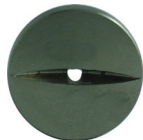
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	EQUIV. ORIFICE DIAMETER (MM)	NOZZLE TYPE		
1	2	3	4	5	6	7	10				BT	BN	
2.3	3.2	3.9	4.6	5.1	5.6	6.0	7.2	25	10		•		
1.9	2.7	3.3	3.8	4.3	4.7	5.1	6.1	35	084	1.9		•	
5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3		24	3.2			•
16.4	23	28	33	37	40	43	52		72	5.5			•
18.2	26	32	36	41	45	48	58	40	80		•		
9.1	12.9	15.8	18.2	20	22	24	29		40		•		
10.7	15.1	18.6	21	24	26	28	34		47	4.7	•		
15.3	22	26	31	34	37	40	48		67		•		
16.0	23	28	32	36	39	42	50		70	5.5	•		
19.4	27	34	39	43	47	51	61	43	85	6.4	•		
1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8		08	1.9	•		
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4	50	13	2.4	•	•	
0.75	1.10	1.30	1.50	1.70	1.80	2.00	2.40		033	1.2	•		
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4	58	13	2.4		•	
5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3		24	3.2	•	•	
7.5	10.6	13.0	15.0	16.8	18.4	19.9	24		33	4.0	•		
8.4	11.9	14.6	16.9	18.9	21	22	27		37		•		
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9	55	054	1.6	•	•	
1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8		08	1.9	•		
5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3	60	24	3.2	•		
7.5	10.6	13.0	15.0	16.8	18.4	19.9	24		33	4.0	•		
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9		054	1.6	•		

Flush Mounted Shower Nozzles

BT & BN



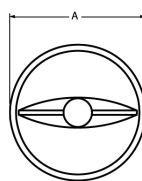
BT



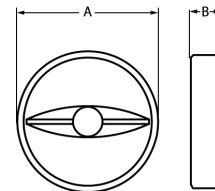
BN

Nozzle Type	Thread Size	Thickness
BT	5/8" UNF	1/8" (3.2mm)
BN (Threadless)	5/8" (15.9mm)	1/8" (3.2mm)

DIMENSIONAL DATA



BT



BN

How to Order

Example: **BTSX6513MX**

<p>BT</p> <p>Nozzle Style BT=5/8-18 Thread BN=Threadless</p>	<p>SX</p> <p>Material SX=316SS Only</p>	<p>65</p> <p>Spray Angle See Specs in Table Below</p>	<p>13</p> <p>Capacity Size See Specs in Table Below</p>	<p>MX</p> <p>Nozzle Type</p>
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Specifications - 65° - 90°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	EQUIV. ORIFICE DIAMETER (MM)	NOZZLE TYPE	
1	2	3	4	5	6	7	10				BT	BN
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9	65	054	1.6	•	
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4		13	2.4	•	•
4.3	6.1	7.5	8.7	9.7	10.6	11.5	13.7		19	2.8	•	
7.5	10.6	13.0	15.0	16.8	18.4	19.9	24		33	4.0	•	
11.4	16.1	19.7	23	25	28	30	36		50	4.7	•	
16.0	23	28	32	36	39	42	50		70	5.5	•	
5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3	68	24	3.2	•	•
9.1	12.9	15.8	18.2	20	22	24	29		40		•	
14.6	21	25	29	33	36	39	46		64		•	
16.0	23	28	32	36	39	42	50		70	5.5	•	
0.52	0.74	0.91	1.0	1.2	1.3	1.4	1.5	70	023	1.0	•	
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9		054	1.6		•
0.16	0.23	0.28	0.32	0.39	0.45	0.51	0.62	80	032	0.0	•	
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9		054	1.6	•	
1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8		08	1.9	•	
1.9	2.7	3.3	3.8	4.3	4.7	5.1	6.1		084	1.9	•	
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4		13	2.4	•	•
5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3		24	3.2	•	•
7.5	10.6	13.0	15.0	16.8	18.4	19.9	24		33	4.0	•	
9.1	12.9	15.8	18.2	20	22	24	29		40		•	
12.3	17.4	21	25	28	30	33	39		54	4.7		•
0.36	0.52	0.63	0.73	0.82	0.89	0.96	1.2		90	016	0.8	•
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9	054		1.6	•	•
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4	13		2.4	•	•

Self-Cleaning Nozzles

LD & PN



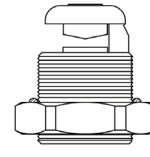
LD



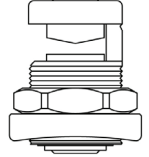
PN

Nozzle Type	Inlet Connection	Length	Hex
LD	1-1/8" - 20UN	1-13/32" (35.7mm)	1-1/2"
PN	3/4" - 20UNEF	1-5/8" (41.3mm)	1"

DIMENSIONAL DATA



LD



PN

Gatewood Self-Cleaning Nozzles are designed to be able to be cleaned while still in service. Lowering the pipe pressure causes the orifice to open allowing it to purge. Once the pipe pressure is increased, the orifice closes again to make the proper spray pattern. Two Styles are available, the LD version is designed for pipes with a machined flat. The PN version comes with a saddle for installation on pipes without a machined flat.

How to Order

Example: **LD0006SXXMX**

LD

Nozzle Style
LD = 1 1/8" NPT
PN = 3/4" NPT

00

Spray Angle
See Specs in
Table Below

06

Capacity Size
See Specs in
Table Below

SX

Material
SX=316SS Only

MX

Nozzle Type

Specifications - Spray Angles 0° - 40°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3BAR	CAPACITY SIZE	NOZZLE TYPE	
1.5	3	5	6	7	8	10	15			LD	PN
0.56	0.79	0.91	1.1	1.2	1.3	1.4	1.8	0	02	•	•
1.2	1.7	2.0	2.3	2.6	2.8	3.1	3.8		043	•	•
1.4	2.0	2.3	2.7	3.0	3.2	3.6	4.4		05	•	•
1.7	2.4	2.7	3.2	3.6	3.9	4.3	5.3		06	•	•
1.7	2.4	2.7	3.2	3.6	3.9	4.3	5.3		08	•	•
2.8	3.9	4.6	5.3	6.0	6.4	7.2	8.8		10	•	•
1.7	2.4	2.7	3.2	3.6	3.9	4.3	5.3	15	06	•	•
1.4	2.0	2.3	2.7	3.0	3.2	3.6	4.4	30	05	•	•
3.6	5.1	5.9	6.9	7.8	8.4	9.4	11.5		13	•	•
3.9	5.5	6.4	7.5	8.4	9.0	10.1	12.4		14	•	•
11.2	15.8	18.2	21	24	26	29	35	40	40	•	•
1.7	2.4	2.7	3.2	3.6	3.9	4.3	5.3		08	•	•
3.3	4.7	5.5	6.4	7.2	7.7	8.6	10.6		12	•	•
3.6	5.1	5.9	6.9	7.8	8.4	9.4	11.5		13	•	•
3.9	5.5	6.4	7.5	8.4	9.0	10.1	12.4		14	•	•
5.6	7.9	9.1	10.7	12.1	12.9	14.4	17.7		20	•	•
8.9	12.6	14.6	17.1	19.3	21	23	28	32	•	•	
12.6	17.8	21	24	27	29	32	40	45	•	•	

Self-Cleaning Nozzles

LD & PN



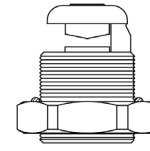
LD



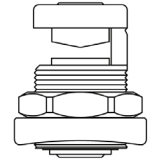
PN

Nozzle Type	Inlet Connection	Length	Hex
LD	1-1/8" - 20UN	1-13/32" (35.7mm)	1-1/2"
PN	3/4" - 20UNEF	1-5/8" (41.3mm)	1"

DIMENSIONAL DATA



LD



PN

Gateway Self-Cleaning Nozzles are designed to be able to be cleaned while still in service. Lowering the pipe pressure causes the orifice to open allowing it to purge. Once the pipe pressure is increased, the orifice closes again to make the proper spray pattern. Two Styles are available, the LD version is designed for pipes with a machined flat. The PN version comes with a saddle for installation on pipes without a machine flat.

How to Order

Example: **PN0006SXX**

PN

Nozzle Style
PN = 3/4 NPT
LD = 1 1/2 NPT

00

Spray Angle
See Specs in
Table Below

06

Capacity Size
See Specs in
Table Below

SX

Material
SX=316SS Only

MX

Nozzle Type

Specifications - Spray Angles 45° - 120°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3BAR	CAPACITY SIZE	NOZZLE TYPE	
1.5	3	5	6	7	8	10	15			LD	PN
4.5	6.3	7.3	8.6	9.6	10.3	11.5	14.1	45	16	•	•
7.0	9.9	11.4	13.4	15.1	16.1	18.0	22		25	•	•
11.7	16.6	19.1	22	25	27	30	37		42	•	•
1.4	2.0	2.3	2.7	3.0	3.2	3.6	4.4	60	05	•	•
3.3	4.7	5.5	6.4	7.2	7.7	8.6	10.6		12	•	•
3.9	5.5	6.4	7.5	8.4	9.0	10.1	12.4		14	•	•
4.5	6.3	7.3	8.6	9.6	10.3	11.5	14.1		16	•	•
5.6	7.9	9.1	10.7	12.1	12.9	14.4	17.7		20	•	•
7.0	9.9	11.4	13.4	15.1	16.1	18.0	22		25	•	•
8.7	12.2	14.1	16.6	18.7	20	22	27		31	•	•
10.6	15.0	17.3	20	23	24	27	34	38	•	•	
13.2	19.7	23	30	36	40	42	48	50	•	•	
1.4	2.0	2.3	2.7	3.0	3.2	3.6	4.4	80	05	•	•
3.1	4.3	5.0	5.9	6.6	7.1	7.9	9.7		11	•	•
5.3	7.5	8.7	10.2	11.5	12.2	13.7	16.8		19	•	•
8.4	11.8	13.7	16.0	18.1	19.3	22	26		30	•	•
10.0	14.2	16.4	19.2	22	23	26	32		36	•	•
12.8	18.2	21	25	28	30	33	41		46	•	•
2.2	3.2	3.6	4.3	4.8	5.2	5.8	7.1	120	08	•	•

Threaded Flat Spray Nozzles

Regular and Small Orifice Threaded Flan Fan Nozzles

Nozzle Type	Inlet Connection	Length	Hex
UJBMX	1/8"	7/8" (22.2mm)	1/2"
	1/4"	1" (25.4mm)	9/16"
	3/8"	1-1/4" (31.8mm)	11/16"
	1/2"	1-1/2" (38.1mm)	7/8"
	3/4"	2" (50.8mm)	1-1/16"
VVJBMX	1/8"	7/8" (22.2mm)	1/2"
	1/4"	29/32" (23.0mm)	9/16"
VVFJBMX	1/8"	1-13/32" (35.7mm)	1/2"
	1/4"	1-1/2" (38.1mm)	9/16"



UJBMX

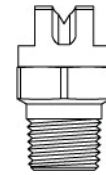


VVJBMX

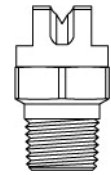


VVFJBMX

DIMENSIONAL DATA



UJBMX



VVJBMX



VVFJBMX

Our Threaded Flat Spray Nozzles can be used for many applications in the paper industry, including chemical and lube showers, debarking, groundwood stone washing, pulp bleaching, wall wash, cleaning dandy rolls and caked wires. The small orifice VVJBMX is available with a replaceable filter screen to help prevent plugging.

How to Order - UJBMX - Regular Orifice

Example: **1/4USXJB2570MX**

1/4



Inlet Connection

1/8 = 1/8" MNPT
1/4 = 1/4" MNPT
3/8 = 3/8" MNPT
1/2 = 1/2" MNPT
3/4 = 3/4" MNPT

U



Nozzle Type

SX



Material

Blank = Brass
S = 303SS
SX = 316SS

JB



Nozzle Type

25



Spray Angle

See Specs in Tables

70



Capacity Size

See Specs in Tables

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

How to Order - VVJBMX - Small Orifice

Example: **1/4VVFSJB6508MX**

1/4



Inlet Connection

1/8 = 1/8" MNPT
1/4 = 1/4" MNPT

VV



Nozzle Type

F



Optional Strainer

Blank = No Strainer
F = Strainer

S



Material

Blank = Brass
S = 303SS
SX = 316SS

JB



Nozzle Type

65



Spray Angle

See Specs in Tables

08



Capacity Size

See Specs in Tables

MX



Nozzle Type

Replacement FilterScreens Can Be Ordered As:

For 1/8VVFSJBMX:

1/8FIL-200S (Orifice Sizes up to 0.018" (0.46mm))
1/8FIL-100S (Orifice Sizes from 0.019" (0.48mm) to 0.031" (0.79mm))
1/8FIL-50S (Orifice Sizes 0.032" (0.81mm) and larger)

For 1/4VVFSJBMX

1/4FIL-200S (Orifice Sizes up to 0.018" (0.46mm))
1/4FIL-100S (Orifice Sizes from 0.019" (0.48mm) to 0.031" (0.79mm))
1/4FIL-50S (Orifice Sizes 0.032" (0.81mm) and larger)

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

Threaded Flat Spray Nozzles

How to Order

Example: **1/4USXJB2570MX**

1/4



Inlet Connection

- 1/8 = 1/8" MNPT
- 1/4 = 1/4" MNPT
- 3/8 = 3/8" MNPT
- 1/2 = 1/2" MNPT
- 3/4 = 3/4" MNPT

U



Nozzle Type

SX



Material

- Blank = Brass
- S = 303SS
- SX = 316SS

JB



Nozzle Type

25



Spray Angle
See Specs in Tables

70



Capacity Size
See Specs in Tables

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Specifications - Spray Angle 110°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)		AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	BRASS	303SS	316SS	
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX	.	.	.	.
0.22	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX	.	.	.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX	.	.	.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX	.	.	.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX	.	.	.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX	.	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX	.	.	.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX	.	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	.	.	.	.

Specifications - Spray Angle 95°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)					AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0.67	0050	0.46	VVJBMX				.	.	.	.
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX			.	.	.	.
0.22	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX			.	.	.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX			.	.	.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX			.	.	.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX			.	.	.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX			.	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX			.	.	.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX			.	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	VVJBMX	UJBMX		UJBMX	.	.	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX		UJBMX	.	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX		.	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX		UJBMX	.	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX		.	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4	UJBMX		UJBMX		.	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8	UJBMX		UJBMX		.	.	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2	UJBMX	UJBMX	UJBMX		.	.	.	.
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX		.	.	.	.
22	29	42	48	59	68	84	90	132	153	202	150	7.5			UJBMX		.	.	.	.
58	76	112	129	158	182	223	241	353	408	539	400	12				UJBMX	.	.	.	.

Threaded Flat Spray Nozzles

How to Order

Example: **1/4VVFSJB6508MX**

1/4

Inlet Connection
 1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT

VV

Nozzle Type

F

Optional Strainer
 Blank = No Strainer
 F = Strainer

S

Material
 Blank = Brass
 S = 303SS
 SX = 316SS

JB

Nozzle Type

65

Spray Angle
 See Specs in Tables

08

Capacity Size
 See Specs in Tables

MX

Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6058MX)

Specifications - Spray Angle 80°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)					AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0.67	0050	0.46	VVJBMX	VVJBMX							
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0.9	0067	0.53	VVJBMX	VVJBMX							
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX							
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX							
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX							
0.36	0.48	0.70	0.81	0.99	1.1	1.4	1.5	2.2	2.5	3.4	025	0.99	VVJBMX	VVJBMX							
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX							
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX							
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX							
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX							
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX							
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	UJBMX						
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX						
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX						
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX						
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX						
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4			UJBMX						
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8			UJBMX	UJBMX					
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2			UJBMX	UJBMX					
11.5	15.3	22	26	32	36	45	48	71	82	108	80	5.5			UJBMX	UJBMX					
13.0	17.2	25	29	36	41	50	54	79	92	121	90	5.8			UJBMX	UJBMX					
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX					
17.3	23	34	39	47	55	67	72	106	122	162	120	6.7			UJBMX	UJBMX					
22	29	42	48	59	68	84	90	132	153	202	150	7.5				UJBMX					
29	38	56	64	79	91	112	121	177	204	270	200	8.7				UJBMX					
43	57	84	97	118	137	168	181	265	306	405	300	10.4					UJBMX				
58	76	112	129	158	182	223	241	353	408	539	400	12.0						UJBMX			

Threaded Flat Spray Nozzles

How to Order

Example: **1/4USXJB2570MX**

1/4

Inlet Connection
 1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT
 3/8 = 3/8" MNPT
 1/2 = 1/2" MNPT
 3/4 = 3/4" MNPT

U

Nozzle Type

SX

Material
 Blank = Brass
 S = 303SS
 SX = 316SS

JB

Nozzle Type

25

Spray Angle
 See Specs in Tables

70

Capacity Size
 See Specs in Tables

MX

Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Specifications - Spray Angle 65°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)					AVAILABLE MATERIALS			OPTIONAL STRAINER	
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS		
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0.23	0017	0.28	VVJBMX				.	.	.	.
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0.45	0033	0.38	VVJBMX				.	.	.	.
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0.9	0067	0.53	VVJBMX	VVJBMX			.	.	.	.
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX			.	.	.	.
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX			.	.	.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX			.	.	.	.
0.36	0.48	0.70	0.81	0.99	1.1	1.4	1.5	2.2	2.5	3.4	025	0.99	VVJBMX	VVJBMX			.	.	.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX			.	.	.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX			.	.	.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX			.	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX			.	.	.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX			.	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	UJBMX		.	.	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX	UJBMX	.	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX	UJBMX	.	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX		.	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX		.	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4	UJBMX	UJBMX	UJBMX	UJBMX	.	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8		UJBMX	UJBMX	UJBMX	.	.	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2		UJBMX	UJBMX	UJBMX	.	.	.	.
11.5	15.3	22	26	32	36	45	48	71	82	108	80	5.5			UJBMX	UJBMX	.	.	.	.
13.0	17.2	25	29	36	41	50	54	79	92	121	90	5.8			UJBMX	UJBMX	.	.	.	.
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX	.	.	.	.
17.3	23	34	39	47	55	67	72	106	122	162	120	6.7			UJBMX	UJBMX	.	.	.	.
22	29	42	48	59	68	84	90	132	153	202	150	7.5				UJBMX	.	.	.	.
29	38	56	64	79	91	112	121	177	204	270	200	8.7				UJBMX	UJBMX	
43	57	84	97	118	137	168	181	265	306	405	300	10.4					UJBMX	
58	76	112	129	158	182	223	241	353	408	539	400	12.0						UJBMX

Threaded Flat Spray Nozzles

How to Order

Example: **1/4VVFSJB6508MX**

1/4

Inlet Connection
1/8 = 1/8" MNPT
1/4 = 1/4" MNPT

VV

Nozzle Type

F

Optional Strainer
Blank = No Strainer
F = Strainer

S

Material
Blank = Brass
S = 303SS
SX = 316SS

JB

Nozzle Type

65

Spray Angle
See Specs in Tables

08

Capacity Size
See Specs in Tables

MX

Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

Specifications - Spray Angle 50°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)					AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX							
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX							
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX							
0.36	0.48	0.70	0.81	0.99	1.1	1.4	1.5	2.2	2.5	3.4	025	0.99	VVJBMX	VVJBMX							
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX							
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX							
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX							
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX							
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX							
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	UJBMX						
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX						
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX						
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX						
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX						
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4			UJBMX						
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8			UJBMX	UJBMX					
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2			UJBMX	UJBMX					
11.5	15.3	22	26	32	36	45	48	71	82	108	80	5.5			UJBMX	UJBMX					
13.0	17.2	25	29	36	41	50	54	79	92	121	90	5.8			UJBMX	UJBMX					
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX					
17.3	23	34	39	47	55	67	72	106	122	162	120	6.7			UJBMX	UJBMX					
22	29	42	48	59	68	84	90	132	153	202	150	7.5				UJBMX					
29	38	56	64	79	91	112	121	177	204	270	200	8.7				UJBMX					
43	57	84	97	118	137	168	181	265	306	405	300	10.4					UJBMX				
58	76	112	129	158	182	223	241	353	408	539	400	12.0						UJBMX			

Threaded Flat Spray Nozzles

How to Order

Example: **1/4USXJB2570MX**

1/4	U	SX	JB	25	70	MX
Inlet Connection 1/8 = 1/8" MNPT 1/4 = 1/4" MNPT 3/8 = 3/8" MNPT 1/2 = 1/2" MNPT 3/4 = 3/4" MNPT	Nozzle Type	Material Blank = Brass S = 303SS SX = 316SS	Nozzle Type	Spray Angle See Specs in Tables	Capacity Size See Specs in Tables	Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Example: **1/4VVFSJB6508MX**

1/4	VV	F	S	JB	65	08	MX
Inlet Connection 1/8 = 1/8" MNPT 1/4 = 1/4" MNPT	Nozzle Type	Optional Strainer Blank = No Strainer F = Strainer	Material Blank = Brass S = 303SS SX = 316SS	Nozzle Type	Spray Angle See Specs in Tables	Capacity Size See Specs in Tables	Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

Specifications - Spray Angle 40°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)				AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	BRASS	303SS	316SS	
		0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX			.	.	.	.
		0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	VVJBMX	VVJBMX			.	.	.	.
	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX			.	.	.	.
	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX			.	.	.	.
	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX			.	.	.	.
	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX			.	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX			.	.	.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX			.	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	UJBMX		.	.	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX		.	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX		.	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX		.	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX		.	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4		UJBMX	UJBMX	UJBMX	.	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8		UJBMX	UJBMX	UJBMX	.	.	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2		UJBMX	UJBMX	UJBMX	.	.	.	.
11.5	15.3	22	26	32	36	45	48	71	82	108	80	5.5		UJBMX	UJBMX	UJBMX	.	.	.	.
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX	.	.	.	.
22	29	42	48	59	68	84	90	132	153	202	150	7.5			UJBMX	UJBMX	.	.	.	.
29	38	56	64	79	91	112	121	177	204	270	200	8.7				UJBMX	.	.	.	.

Threaded Flat Spray Nozzles

How to Order

Example: **1/4USXJB2570MX**

<p>1/4</p> <p>└───┘</p> <p>Inlet Connection 1/8 = 1/8" MNPT 1/4 = 1/4" MNPT 3/8 = 3/8" MNPT 1/2 = 1/2" MNPT 3/4 = 3/4" MNPT</p>	<p>U</p> <p>└───┘</p> <p>Nozzle Type</p>	<p>SX</p> <p>└───┘</p> <p>Material Blank = Brass S = 303SS SX = 316SS</p>	<p>JB</p> <p>└───┘</p> <p>Nozzle Type</p>	<p>25</p> <p>└───┘</p> <p>Spray Angle See Specs in Tables</p>	<p>70</p> <p>└───┘</p> <p>Capacity Size See Specs in Tables</p>	<p>MX</p> <p>└───┘</p> <p>Nozzle Type</p>
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Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Example: **1/4VVFSJB6508MX**

<p>1/4</p> <p>└───┘</p> <p>Inlet Connection 1/8 = 1/8" MNPT 1/4 = 1/4" MNPT</p>	<p>VV</p> <p>└───┘</p> <p>Nozzle Type</p>	<p>F</p> <p>└───┘</p> <p>Optional Strainer Blank = No Strainer F = Strainer</p>	<p>S</p> <p>└───┘</p> <p>Material Blank = Brass S = 303SS SX = 316SS</p>	<p>JB</p> <p>└───┘</p> <p>Nozzle Type</p>	<p>65</p> <p>└───┘</p> <p>Spray Angle See Specs in Tables</p>	<p>08</p> <p>└───┘</p> <p>Capacity Size See Specs in Tables</p>	<p>MX</p> <p>└───┘</p> <p>Nozzle Type</p>
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Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

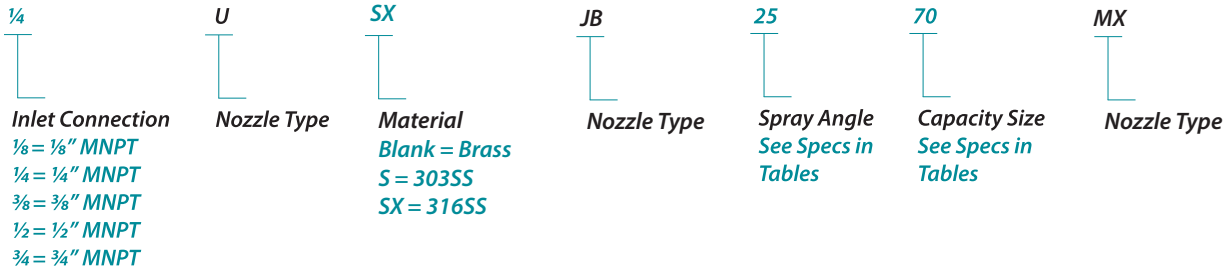
Specifications - Spray Angle 25°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)				AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	BRASS	303SS	316SS	
		0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX			.	.	.	.
		0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX			.	.	.	.
		0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX			.	.	.	.
	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX			.	.	.	.
	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX			.	.	.	.
	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX			.	.	.	.
	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX			.	.	.	.
	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX	UJBMX		.	.	.	.
	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX		.	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX		.	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX		.	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX		.	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4			UJBMX		.	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8			UJBMX	UJBMX	.	.	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2			UJBMX	UJBMX	.	.	.	.
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX	.	.	.	.
22	29	42	48	59	68	84	90	132	153	202	150	7.5			UJBMX		.	.	.	.
29	38	56	64	79	91	112	121	177	204	270	200	8.7			UJBMX		.	.	.	.
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	150	0.297			UJBMX	UJBMX	.	.	.	.
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	200	0.344			UJBMX		.	.	.	.

Threaded Flat Spray Nozzles

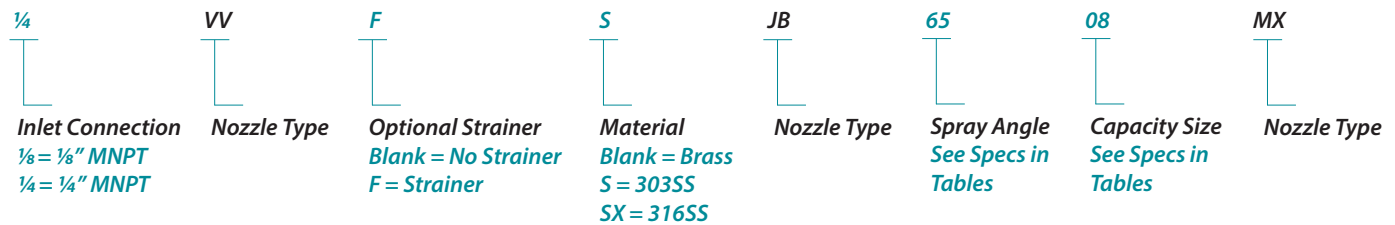
How to Order

Example: **1/4USXJB2570MX**



Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Example: **1/4VVFSJB6508MX**



Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

Specifications - Spray Angle 15°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)				AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	BRASS	303SS	316SS	
		0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	VVJBMX	VVJBMX			.	.	.	.
		0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	VVJBMX	VVJBMX			.	.	.	.
		0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	VVJBMX	VVJBMX			.	.	.	.
		1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	VVJBMX	VVJBMX			.	.	.	.
		1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	VVJBMX	VVJBMX			.	.	.	.
	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	VVJBMX	VVJBMX			.	.	.	.
	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	VVJBMX	VVJBMX			.	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	UJBMX	UJBMX			.	.	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.4	UJBMX	UJBMX	UJBMX		.	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.8	UJBMX	UJBMX	UJBMX		.	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.4	UJBMX	UJBMX	UJBMX		.	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.9	UJBMX	UJBMX	UJBMX		.	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.4			UJBMX	UJBMX	.	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.8			UJBMX	UJBMX	.	.	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.2			UJBMX	UJBMX	.	.	.	.
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.2			UJBMX	UJBMX	.	.	.	.
17.3	23	34	39	47	55	67	72	106	122	162	120	6.7			UJBMX	UJBMX	.	.	.	.
22	29	42	48	59	68	84	90	132	153	202	150	7.5			UJBMX	UJBMX	.	.	.	.
29	38	56	64	79	91	112	121	177	204	270	200	8.7			UJBMX	UJBMX	.	.	.	.

Threaded Flat Spray Nozzles

How to Order

Example: **1/4USXJB2570MX**

1/4



Inlet Connection

1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT
 3/8 = 3/8" MNPT
 1/2 = 1/2" MNPT
 3/4 = 3/4" MNPT

U



Nozzle Type

SX



Material

Blank = Brass
 S = 303SS
 SX = 316SS

JB



Nozzle Type

25



Spray Angle

See Specs in Tables

70



Capacity Size

See Specs in Tables

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4USXJB2570MX)

Example: **1/4VVFSJB6508MX**

1/4



Inlet Connection

1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT

VV



Nozzle Type

F



Optional Strainer

Blank = No Strainer
 F = Strainer

S



Material

Blank = Brass
 S = 303SS
 SX = 316SS

JB



Nozzle Type

65



Spray Angle

See Specs in Tables

08



Capacity Size

See Specs in Tables

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4VVFSJB6508MX)

Specifications - Spray Angle 0°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE (IN)					AVAILABLE MATERIALS			OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20	35			1/8	1/4	3/8	1/2	3/4	Brass	303SS	316SS	
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	UJBMX	UJBMX							
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	UJBMX	UJBMX							
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	UJBMX	UJBMX							
0.36	0.48	0.70	0.81	0.99	1.1	1.4	1.5	2.2	2.5	3.4	025	0.99	UJBMX	UJBMX							
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1	UJBMX	UJBMX							
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.2	UJBMX	UJBMX							
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.3	UJBMX	UJBMX							
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.5	UJBMX	UJBMX							
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.7	UJBMX	UJBMX							
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	1.9	UJBMX	UJBMX							
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	15	2.3	UJBMX	UJBMX							
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	20	2.7	UJBMX	UJBMX	UJBMX						
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	30	3.3	UJBMX	UJBMX							
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	40	3.8	UJBMX	UJBMX							
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	50	4.2									
8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	60	4.6									
10.1	13.3	19.5	23	28	32	39	42	62	71	94	70	5.0			UJBMX						
11.5	15.3	22	26	32	36	45	48	71	82	108	80	5.3			UJBMX						
14.4	19.1	28	32	39	46	56	60	88	102	135	100	6.0			UJBMX						
17.3	23	34	39	47	55	67	72	106	122	162	120	6.8			UJBMX						
22	29	42	48	59	68	84	90	132	153	202	150	7.3				UJBMX					
36	48	70	81	99	114	140	151	221	255	337	250	9.5				UJBMX	UJBMX				
50	67	98	113	138	160	195	211	309	357	472	350	11.1					UJBMX				
101	133	195	226	276	319	391	422	618	714	944	700	15.7					UJBMX				

Quick-Connect Flat Fan

QUJBMX & QVVJBMX



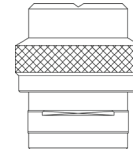
QUJBMX



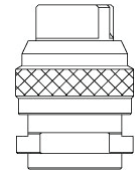
QVVJBMX

Nozzle Type	Length
QUJBMX	7/8" (22.2mm)
QVVJBMX	1-1/3" (26.2mm)

DIMENSIONAL DATA



QUJBMX

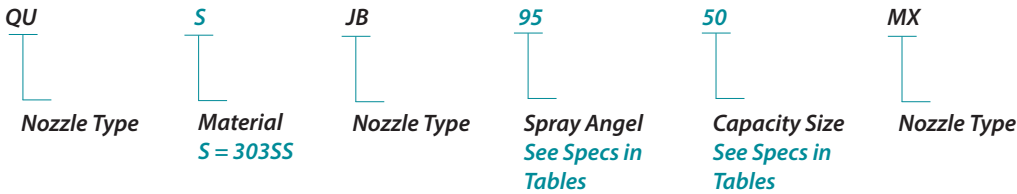


QVVJBMX

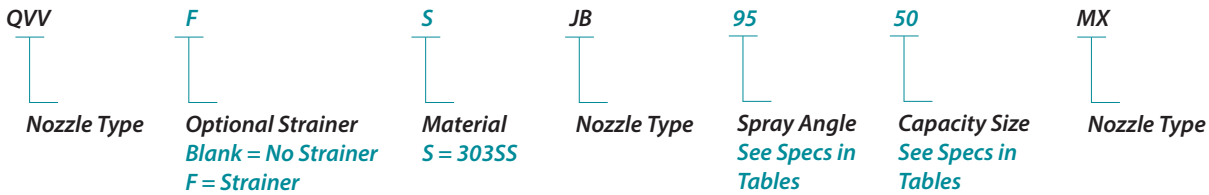
The QUJBMX and QVVJBMX Flat Fan Nozzles and Gaskets are designed for use with a Quick-Connect base to allow easy changeout for shower bars that require regular maintenance.

How to Order

Example: **QUSJB9550MX**



Example: **QVVF~~S~~JB11002MX**



Replacement Gaskets: **QVGSKT**

Standard Bases: **1/4QJSJBMX; 1/4QJJSJBMX** Note: Add a "B" in front of the Part Number for BSPT Threads (eg. B1/4QJSJBMX)

Replacement FilterScreens Can Be Ordered As: **1/8FIL-200S (Orifice Sizes up to 0.018" (0.46mm))**
1/8FIL-100S (Orifice Sizes from 0.019" (0.48mm) to 0.031" (0.79mm))
1/8FIL-50S (Orifice Sizes 0.032" (0.81mm) and larger)

Specifications - Spray Angle - 110°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJB			303SS
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		.	.
0.22	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0	QVVJBMX		.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4	QVVJBMX		.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8	QVVJBMX		.	.

Quick-Connect Flat Fan

Specifications - Spray Angle - 95°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX	.	.	
0.22	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX	.	.	
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX	.	.	
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX	.	.	
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX	.	.	
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX	.	.	
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX	.	.	
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX	.	.	
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	.	.
14.4	19.1	28	32	39	46	56	60	88	102	100	6.2		QUJBMX	.	.
22	29	42	48	59	68	84	90	132	153	150	7.5		QUJBMX	.	.

Specifications - Spray Angle - 80°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX	.	.	
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX	.	.	
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX	.	.	
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX	.	.	
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX	.	.	
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX	.	.	
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX	.	.	
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX	.	.	
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX	.	.	
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX	.	.	
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	.	.

Quick-Connect Flat Fan

Specifications - Spray Angle - 65°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0017	0.28	QVVJBMX		•	•
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0033	0.38	QVVJBMX		•	•
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX		•	•
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX		•	•
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		•	•
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		•	•
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		•	•
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		•	•
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		•	•
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		•	•
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		•	•
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		•	•
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	•	
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	•	
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	•	
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	•	
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	•	
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	•	
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	•	
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	•	

Specifications - Spray Angle - 50°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0017	0.28	QVVJBMX		•	•
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0033	0.38	QVVJBMX		•	•
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX		•	•
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX		•	•
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		•	•
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		•	•
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		•	•
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		•	•
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		•	•
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		•	•
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		•	•
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		•	•
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	•	
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	•	
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	•	
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	•	
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	•	
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	•	
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	•	
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	•	

Quick-Connect Flat Fan

Specifications - Spray Angle - 40°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0017	0.28	QVVJBMX		•	•
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0033	0.38	QVVJBMX		•	•
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX		•	•
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX		•	•
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		•	•
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		•	•
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		•	•
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		•	•
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		•	•
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		•	•
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		•	•
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		•	•
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	•	
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	•	
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	•	
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	•	
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	•	
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	•	
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	•	
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	•	

Specifications - Spray Angle - 25°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0017	0.28	QVVJBMX		•	•
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0033	0.38	QVVJBMX		•	•
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX		•	•
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX		•	•
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		•	•
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		•	•
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		•	•
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		•	•
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		•	•
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		•	•
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		•	•
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		•	•
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	•	
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	•	
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	•	
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	•	
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	•	
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	•	
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	•	
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	•	

Quick-Connect Flat Fan

Specifications - Spray Angle - 15°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
		0.047	0.055	0.067	0.078	0.095	0.10	0.15	0.17	0017	0.28	QVVJBMX		.	.
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0033	0.38	QVVJBMX		.	.
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0050	0.46	QVVJBMX		.	.
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0067	0.53	QVVJBMX		.	.
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		.	.
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	.	.

Specifications - Spray Angle - 0°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX			303SS
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		.	.
0.22	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	015	0.81	QVVJBMX		.	.
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	02	0.89	QVVJBMX		.	.
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	03	1.1	QVVJBMX		.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	04	1.3	QVVJBMX		.	.
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	05	1.4	QVVJBMX		.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	06	1.5	QVVJBMX		.	.
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	08	1.8	QVVJBMX		.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	10	2.0		QUJBMX	.	.
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	15	2.4		QUJBMX	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	20	2.8		QUJBMX	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	30	3.4		QUJBMX	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	40	3.9		QUJBMX	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	50	4.4		QUJBMX	.	.
8.6	11.4	16.8	19.3	24	27	34	36	53	61	60	4.8		QUJBMX	.	.
10.1	13.3	19.5	23	28	32	39	42	62	71	70	5.2		QUJBMX	.	.
11.5	15.3	22	26	32	36	45	48	71	82	80	5.3		QUJBMX	.	.

Spray Tips

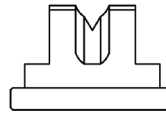
Flat Spray Tips



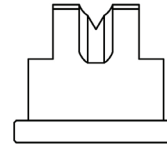
TPJBMX

TPJB MX for Capacities	Length
017 to 08	3/8" (9.5mm)
10 to 20	1/2" (12.7mm)
30 to 40	1" (25.4mm)
50 to 70	1-1/16" (27.0mm)

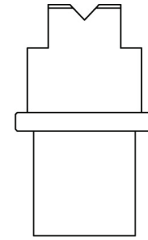
DIMENSIONAL DATA



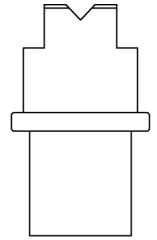
For Capacity
017 to 08



For Capacity
10 to 20



For Capacity
30 to 40



For Capacity
50 to 70

Gatewood offers small & large capacity flat spray tips for use with a retainer cap and body system. These solid stream or flat fan nozzles are designed for precise cleaning and coating applications.

How to Order

Example: **TPJB6510SMX**

TP



Nozzle Type

JB



Nozzle Type

65



Spray Angle
See Specs in
Table Below

10



Capacity Size
See Specs in
Table Below

S



Orifice Material
Blank=Brass
S=303 Stainless Steel
SX=316 Stainless Steel

MX



Nozzle Type

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)											CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	AVAILABLE SPRAY ANGLES @ 40 PSI								AVAILABLE MATERIALS		
0.4	0.7	1.5	2	3	4	6	7	15	20	35			0	15	25	40	50	65	80	95	110	BRASS	303SS	316SS
		0.047	0.055	0.067	0.078	0.095	0.1	0.15	0.17	0.23	0017	0.28		*	*	*	*	*	*	*	*	*	*
		0.070	0.081	0.099	0.11	0.14	0.15	0.22	0.25	0.34	0025	0.33		*	*	*	*	*	*	*	*	*	*
		0.092	0.11	0.13	0.15	0.18	0.20	0.29	0.34	0.45	0033	0.38	*	*	*	*	*	*	*	*	*	*	*
		0.14	0.16	0.20	0.23	0.28	0.30	0.44	0.51	0.67	0050	0.46	*	*	*	*	*	*	*	*	*	*	*
	0.13	0.19	0.22	0.26	0.31	0.37	0.40	0.59	0.68	0.90	0067	0.53	*	*	*	*	*	*	*	*	*	*	*
	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	1.3	01	0.66	*	*	*	*	*	*	*	*	*	*	*
	0.29	0.42	0.48	0.59	0.68	0.84	0.90	1.3	1.5	2.0	015	0.81	*	*	*	*	*	*	*	*	*	*	*
0.29	0.38	0.56	0.64	0.79	0.91	1.1	1.2	1.8	2.0	2.7	02	0.89	*	*	*	*	*	*	*	*	*	*	*
0.43	0.57	0.84	0.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	03	1.1	*	*	*	*	*	*	*	*	*	*	*
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	04	1.3	*	*	*	*	*	*	*	*	*	*	*
0.72	0.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	05	1.4	*	*	*	*	*	*	*	*	*	*	*
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	06	1.6	*	*	*	*	*	*	*	*	*	*	*
1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	08	1.8	*	*	*	*	*	*	*	*	*	*	*
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	2.0	*	*	*	*	*	*	*	*	*	*	*
1.7	2.3	3.4	3.9	4.7	5.5	6.7	7.2	10.6	12.2	16.2	12	2.2	*	*	*	*	*	*	*	*	*	*	*
2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20.0	15	2.5	*	*	*	*	*	*	*	*	*	*	*
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20.0	27.0	20	2.8	*	*	*	*	*	*	*	*	*	*	*
3.6	4.8	7.0	8.1	9.9	11.4	14.0	15.1	22.0	25.0	34.0	25	3.1			*	*	*	*	*	*	*	*	*
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26.0	31.0	40.0	30	3.4	*	*	*	*	*	*	*	*	*	*	*
5.8	7.6	11.2	12.9	15.8	18.2	22.0	24.0	35.0	41.0	54.0	40	3.8	*	*	*	*	*	*	*	*	*	*	*
7.2	9.5	14.0	16.1	19.7	23.0	28.0	30.0	44.0	51.0	67.0	50	4.4		*	*	*	*	*	*	*	*	*	*
8.6	11.4	16.8	19.3	24.0	27.0	34.0	36.0	53.0	61.0	81.0	60	4.8		*	*	*	*	*	*	*	*	*	*
10.1	13.3	19.5	23.0	28.0	32.0	39.0	42.0	62.0	71.0	94.0	70	5.2		*	*	*	*	*	*	*	*	*	*

Low Impact Nozzles

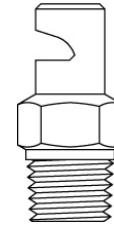
Threaded Deflected Flat Fan Nozzles



KJBMX

Inlet Connection	Length	Hex
1/8	1" (25.4mm)	7/16"
1/4	1-7/32" (31.0mm)	9/16"
3/8	1-3/4" (44.5mm)	11/16"
1/2	2" (50.8mm)	7/8"
3/4	2-9/16" (65.1mm)	1-1/2"

DIMENSIONAL DATA



KJBMX

Our KJBMX nozzle produces a wide angle, low impact, flat spray pattern, making it ideal for lube and foaming showers, wall wash, sludge removal from ponds and perimeter wire foam control.

How to Order

Example: **1/4KSJB7.5MX**

<p>1/4</p> <p>Inlet Connection</p> <p>1/8 = 1/8" MNPT 1/4 = 1/4" MNPT 3/8 = 3/8" MNPT 1/2 = 1/2" MNPT 3/4 = 3/4" MNPT</p>	<p>K</p> <p>Nozzle Type</p>	<p>S</p> <p>Material</p> <p>Blank = Brass S = 303SS SX = 316SS</p>	<p>JB</p> <p>Nozzle Type</p>	<p>7.5</p> <p>Capacity Size</p> <p>See Specs in Tables</p>	<p>MX</p> <p>Nozzle Type</p>
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Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4KSJB7.5MX)

Specifications - Capacities .25 to 27

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS		
0.2	0.4	0.5	0.7	1	1.5	2	3	4				1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
				0.110	0.140	0.160	0.200	0.230	100	.25	0.43	KJBMX					.	.	.
				0.230	0.280	0.32	0.39	0.46	105	.50	0.58	KJBMX					.	.	.
			0.290	0.34	0.42	0.48	0.59	0.68	115	.75	0.74	KJBMX					.	.	.
			0.38	0.46	0.56	0.64	0.79	0.91	115	1	0.84	KJBMX					.	.	.
		0.48	0.57	0.68	0.84	0.97	1.20	1.40	115	1.5	1.0	KJBMX					.	.	.
		0.64	0.76	0.91	1.10	1.30	1.60	1.80	121	2	1.2	KJBMX	KJBMX				.	.	.
	0.72	0.81	0.95	1.10	1.40	1.60	2.00	2.30	127	2.5	1.3	KJBMX	KJBMX				.	.	.
	0.86	0.97	1.10	1.40	1.70	1.90	2.40	2.70	124	3	1.4	KJBMX	KJBMX				.	.	.
	1.20	1.30	1.50	1.80	2.20	2.60	3.20	3.6	127	4	1.7	KJBMX					.	.	.
1.00	1.40	1.60	1.90	2.30	2.80	3.2	3.9	4.6	134	5	1.9	KJBMX	KJBMX				.	.	.
1.50	2.20	2.40	2.90	3.4	4.2	4.8	5.9	6.8	127	7.5	2.3	KJBMX	KJBMX				.	.	.
2.00	2.90	3.2	3.8	4.6	5.6	6.4	7.9	9.1	139	10	2.7	KJBMX	KJBMX				.	.	.
2.40	3.50	3.9	4.6	5.5	6.7	7.7	9.5	10.9	145	12	2.9	KJBMX	KJBMX				.	.	.
3.10	4.3	4.8	5.7	6.8	8.4	9.7	11.8	13.7	118	15	3.3	KJBMX	KJBMX				.	.	.
3.70	5.2	5.8	6.9	8.2	10.1	11.6	14.2	16.4	125	18	3.6	KJBMX	KJBMX				.	.	.
4.1	5.8	6.4	7.6	9.1	11.2	12.9	15.8	18.2	127	20	3.8	KJBMX	KJBMX				.	.	.
4.5	6.3	7.1	8.4	10.0	12.3	14.2	17.4	20.0	130	22	3.9		KJBMX				.	.	.
4.9	6.9	7.7	9.2	10.9	13.4	15.5	19.0	22.0	137	24	4.1		KJBMX				.	.	.
5.5	7.8	8.7	10.3	12.3	15.1	17.4	21.0	25.0	141	27	4.4		KJBMX				.	.	.

Low Impact Nozzles

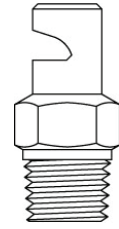
Threaded Deflected Flat Fan Nozzles



KJBMX

Inlet Connection	Length	Hex
1/8	1" (25.4mm)	7/16"
1/4	1-7/32" (31.2mm)	9/16"
3/8	1-3/4" (44.5mm)	11/16"
1/2	2" (50.8mm)	7/8"
3/4	2-9/16" (65.1mm)	1-1/2"

DIMENSIONAL DATA



KJBMX

Our KJBMX nozzle produces a wide angle, low impact, flat spray pattern, making it ideal for lube and foaming showers, wall wash, sludge removal from ponds and perimeter wire foam control.

How to Order

Example: **1/4KSJB7.5MX**

1/4



Inlet Connection

1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT
 3/8 = 3/8" MNPT
 1/2 = 1/2" MNPT
 3/4 = 3/4" MNPT

K



Nozzle Type

S



Material

Blank = Brass
 S = 303SS
 SX = 316SS

JB



Nozzle Type

7.5



Capacity Size
 See Specs in
 Tables

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4KSJB7.5MX)

Specifications - Capacities 30 - 210

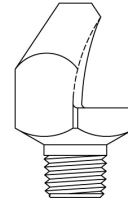
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS		
0.2	0.4	0.5	0.7	1	1.5	2	3	4				1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
6.1	8.6	9.7	11.4	13.7	16.8	19.3	24.0	27.0	115	30	4.6			KJBMX			.	.	.
7.1	10.1	11.3	13.3	16.0	19.5	23.0	28.0	32.0	123	35	5.0			KJBMX			.	.	.
8.2	11.5	12.9	15.3	18.2	22.0	26.0	32.0	36.0	131	40	5.3			KJBMX	KJBMX		.	.	.
9.2	13.0	14.5	17.2	21.0	25.0	29.0	36.0	41.0	135	45	5.6			KJBMX			.	.	.
10.2	14.4	16.1	19.1	23.0	28.0	32.0	39.0	46.0	135	50	5.9				KJBMX		.	.	.
12.2	17.3	19.3	23.0	27.0	34.0	39.0	47.0	55.0	138	60	6.5				KJBMX		.	.	.
14.3	20.0	23.0	27.0	32.0	39.0	45.0	55.0	64.0	141	70	7.0				KJBMX		.	.	.
16.3	23.0	26.0	31.0	36.0	45.0	52.0	63.0	73.0	144	80	7.5				KJBMX		.	.	.
18.3	26.0	29.0	34.0	41.0	50.0	58.0	71.0	82.0	137	90	8.1				KJBMX		.	.	.
20.0	29.0	32.0	38.0	46.0	56.0	64.0	79.0	91.0	140	100	8.5				KJBMX		.	.	.
22.0	32.0	35.0	42.0	50.0	61.0	71.0	87.0	100.0	143	110	8.9				KJBMX		.	.	.
24.0	35.0	39.0	46.0	55.0	67.0	77.0	95.0	109.0	145	120	9.3				KJBMX		.	.	.
29.0	40.0	45.0	53.0	64.0	78.0	90.0	111.0	128.0	131	140	10.0				KJBMX		.	.	.
33.0	46.0	52.0	61.0	73.0	89.0	103.0	126.0	146.0	134	160	10.7				KJBMX		.	.	.
37.0	52.0	58.0	69.0	82.0	101.0	116.0	142.0	164.0	136	180	11.4				KJBMX		.	.	.
43.0	61.0	68.0	80.0	96.0	117.0	135.0	166.0	191.0	142	210	12.3				KJBMX		.	.	.



PJBMX

Inlet Connection	Hex
1/8"	7/16"
1/4"	9/16"
3/8"	11/16"
1/2"	7/8"
3/4"	1-1/2"

DIMENSIONAL DATA - Based on the largest version.



PJBMX

Our PJBMX nozzle produces a high impact, flat spray pattern, making it ideal for deckle sprays and knock-off showers in save-alls and difficult locations.

How to Order

Example: **1/4PSJB3520MX**

$\frac{1}{4}$	P	S	JB	35	20	MX
Inlet Connection	Nozzle Type	Material	Nozzle Type	Spray Angle	Capacity Size	Nozzle Type
1/8 = 1/8" MNPT 1/4 = 1/4" MNPT 3/8 = 3/8" MNPT 1/2 = 1/2" MNPT 3/4 = 3/4" MNPT		Blank = Brass S = 303SS SX = 316SS		See Specs in Tables	See Specs in Tables	

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4PSJB3520MX)

Specifications - Spray Angles 15° to 35°

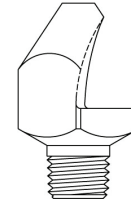
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE LENGTH A (MM)	ANGLE OF DEFLECTION	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS		
1.0	1.5	2	3	4	6	7	10						1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
	2.8	3.2	3.9	4.6	5.6	6.0	7.2	15	10	1.9	47.5	22		PJBMX				.	.	.
	5.6	6.4	7.9	9.1	11.2	12.1	14.4		20	2.7	54	19		PJBMX				.	.	.
6.8	8.4	9.7	11.8	13.7	16.8	18.1	22		30	3.3	72	25			PJBMX			.	.	.
9.1	11.2	12.9	15.8	18.2	22	24	29		40	3.8	92	18			PJBMX			.	.	.
11.4	14.0	16.1	19.7	23	28	30	36		50	4.2	90.5	15			PJBMX			.	.	.
13.7	16.8	19.3	24	27	34	36	43		60	4.6	125	14				PJBMX		.	.	.
18.2	22	26	32	36	45	48	58		80	5.3	130	14				PJBMX		.	.	.
23	28	32	39	46	56	60	72		100	5.9	137	14				PJBMX		.	.	.
46	56	64	79	91	112	121	144		200	8.4	191	14					PJBMX	.	.	.
9.1	11.2	12.9	15.8	18.2	22	24	29		25	40	3.8	65	25		PJBMX				.	.
0.91	1.1	1.3	1.6	1.8	2.2	2.4	2.9	04		1.2	23	40		PJBMX				.	.	.
2.3	2.8	3.2	3.9	4.6	5.6	6.0	7.2	10		1.9	36.5	36		PJBMX				.	.	.
4.6	5.6	6.4	7.9	9.1	11.2	12.1	14.4	20		2.7	42	30		PJBMX	PJBMX			.	.	.
5.7	7.0	8.1	9.9	11.4	14.0	15.1	18.0	25		3.0	49	28			PJBMX			.	.	.
6.8	8.4	9.7	11.8	13.7	16.8	18.1	22	30		3.3	52.5	28			PJBMX			.	.	.
9.1	11.2	12.9	15.8	18.2	22	24	29	35	40	3.8	58	26			PJBMX			.	.	.



PJBMX

Inlet Connection	Hex
1/8"	7/16"
1/4"	9/16"
3/8"	11/16"
1/2"	7/8"
3/4"	1-1/2"

DIMENSIONAL DATA - Based on the largest version.



PJBMX

Our PJBMX nozzle produces a high impact, flat spray pattern, making it ideal for deckle sprays and knock-off showers in save-alls and difficult locations.

How to Order

Example: **1/4PSJB3520MX**

1/4

Inlet Connection
 1/8 = 1/8" MNPT
 1/4 = 1/4" MNPT
 3/8 = 3/8" MNPT
 1/2 = 1/2" MNPT
 3/4 = 3/4" MNPT

P

Nozzle Type

S

Material
 Blank = Brass
 S = 303SS
 SX = 316SS

JB

Nozzle Type

35

Spray Angle
 See Specs in Tables

20

Capacity Size
 See Specs in Tables

MX

Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4PSJB3520MX)

Specifications - Spray Angles 35° to 50°

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE LENGTH A (MM)	ANGLE OF DEFLECTION	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS			
1.0	1.5	2	3	4	6	7	10						1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
11.4	14.0	16.1	19.7	23	28	30	36	35	50	4.2	63.5	23			PJBMX						
13.7	16.8	19.3	24	27	34	36	43		60	4.6	73	27				PJBMX					
18.2	22	26	32	36	45	48	58		80	5.3	81	24				PJBMX					
23	28	32	39	46	56	60	72		100	5.9	89	19				PJBMX					
36	45	52	63	73	89	96	115		160	7.5	114	23					PJBMX				
46	56	64	79	91	112	121	144		200	8.4	122	22					PJBMX				
9.1	11.2	12.9	15.8	18.2	22	24	29		40	40	3.8	60.5	35			PJBMX					
11.4	14.0	16.1	19.7	23	28	30	36	50		4.2	63.5	33			PJBMX						
13.7	16.8	19.3	24	27	34	36	43	60		4.6	72	33			PJBMX						
16.0	19.5	23	28	32	39	42	50	70		5.0	75.5	29			PJBMX						
18.2	22	26	32	36	45	48	58	80		5.3	77	26			PJBMX						
21	25	29	36	41	50	54	65	90		5.6	77	28			PJBMX						
23	28	32	39	46	56	60	72	100		5.9	86.5	28			PJBMX						
1.1	1.4	1.6	2.0	2.3	2.8	3.0	3.6	50	05	1.3	31	60			PJBMX						
2.3	2.8	3.2	3.9	4.6	5.6	6.0	7.2		10	1.9	31	60			PJBMX						
5.7	7.0	8.1	9.9	11.4	14.0	15.1	18.0		25	3.0	41.5	42			PJBMX	PJBMX					
9.1	11.2	12.9	15.8	18.2	22	24	29		40	3.8	47	45			PJBMX	PJBMX					
13.7	16.8	19.3	24	27	34	36	43		60	4.6	55	37			PJBMX						
23	28	32	39	46	56	60	72		100	5.9	72	40			PJBMX						
28	35	40	49	57	70	75	90		125	6.6	72	38			PJBMX						
36	45	52	63	73	89	96	115		160	7.5	72	37			PJBMX						
46	56	64	79	91	112	121	144		200	8.4	72	32			PJBMX						

Full Cone Nozzles

Standard & Wide Angle



GGJBMX

Inlet Connection	Length	Hex
1/8"	1-9/32" (32.5mm)	9/16"
1/4"	1-9/16" (39.7mm)	11/16"
3/8"	1-27/32" (46.8mm)	13/16"
1/2"	2-7/32" (56.4mm)	1"

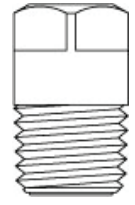
GGJBMX - DIMENSIONAL DATA



HHJBMX

Inlet Connection	Length	Hex
1/8"	1-9/32" (32.5mm)	9/16"
1/4"	1-9/16" (39.7mm)	11/16"
3/8"	1-27/32" (46.8mm)	13/16"
1/2"	2-7/32" (56.4mm)	1"

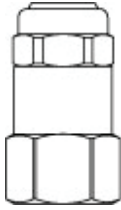
HHJBMX - DIMENSIONAL DATA



GJBMX

Inlet Connection	Length	Hex
1/8"	1-7/32" (31.0mm)	9/16"
1/4"	1-15/32" (37.3mm)	11/16"
3/8"	1-13/16" (46.0mm)	13/16"
1/2"	2-1/4" (57.2mm)	1"

GJBMX - DIMENSIONAL DATA



Full Cone Nozzles are extremely versatile and can be used in many applications. The GJBMX nozzles are a three-piece nozzle with a removable cap and vane. The HHJBMX is a one-piece nozzle with a press fit vane that is not easily removable.

How to Order - Standard Angle

Example: **1/4GGSXJB10MX**

1/4



Inlet Connection

1/8" = 1/8" NPT
1/4" = 1/4" NPT
3/8" = 3/8" NPT
1/2" = 1/2" NPT

GG



Nozzle Style

G=Removable Cap & Vane FNPT
GG=Removable Cap & Vane MNPT
HH=One Piece MNPT

SX



Material

Blank = Brass
S=303SS
SX = 316SS

JB



Nozzle Type

10



Capacity Size

See Specs
in Table

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4GGSXJB10MX)

How to Order - Wide Angle

Example: **1/8HHSJB2.8WMX**

1/8



Inlet Connection

1/8" = 1/8" NPT
1/4" = 1/4" NPT
3/8" = 3/8" NPT
1/2" = 1/2" NPT

HH



Nozzle Style

G=Removable Cap & Vane FNPT
GG=Removable Cap & Vane MNPT
HH=One Piece MNPT

S



Material

Blank = Brass
S=303SS
SX = 316SS

JB



Nozzle Type

2.8W



Capacity Size

See Specs
in Table

MX



Nozzle Type

Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4HHSJB2.8WMX)

Full Cone Nozzles

Standard & Wide Angle



GGJB MX



HHJB MX



GJB MX

Specifications - Standard Angle

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE @ PRESSURE SHOWN (BAR)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE DIAMETER (MM)	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE			AVAILABLE MATERIALS		
0.7	1.5	2	3	4	6	7	10	0.5	1.5	6					REMOVABLE CAP & VANE	ONE-PIECE	BRASS	303SS	316SS	
0.38	0.54	0.62	0.74	0.85	1.0	1.1	1.3		58	53	1/8	1	0.79	0.64	GJB MX	GGJB MX	HHJB MX	•	•	•
0.57	0.81	0.93	1.1	1.3	1.5	1.6	1.9	52	65	59		1.5	1.2	0.64	GJB MX	GGJB MX	HHJB MX	•	•	•
0.76	1.1	1.2	1.5	1.7	2.0	2.2	2.6	43	50	46		2	1.2	1.0	GJB MX	GGJB MX	HHJB MX	•	•	•
1.1	1.6	1.9	2.2	2.5	3.1	3.3	3.9	52	65	59		3	1.5	1.0	GJB MX	GGJB MX	HHJB MX	•	•	•
1.3	1.9	2.2	2.6	3.0	3.6	3.8	4.5	43	50	46		3.5	1.6	1.3	GJB MX	GGJB MX	HHJB MX	•	•	•
1.9	2.7	3.1	3.7	4.2	5.1	5.5	6.5	52	65	59		5	2.0	1.3	GJB MX	GGJB MX	HHJB MX	•	•	•
2.5	3.5	4.0	4.8	5.5	6.7	7.1	8.4	45	50	46	1/4	6.5	2.4	1.6	GJB MX	GGJB MX	HHJB MX	•	•	•
3.8	5.4	6.2	7.4	8.5	10.2	11.0	13.0	58	67	61		10	3.2	1.6	GJB MX	GGJB MX	HHJB MX	•	•	•
3.6	5.1	5.9	7.1	8.1	9.7	10.4	12.3	45	50	46	3/8	9.5	2.6	2.4	GJB MX	GGJB MX	HHJB MX	•	•	•
5.7	8.1	9.3	11.2	12.7	15.4	16.5	19.4	64	67	61		15	3.6	2.4	GJB MX	GGJB MX	HHJB MX	•	•	•
8.4	11.9	13.6	16.4	18.7	23	24	28	87	90	82		22	4.5	2.8	GJB MX	GGJB MX	HHJB MX	•	•	•
6.1	8.7	9.9	11.9	13.6	16.4	17.6	21	48	50	46	1/2	16	3.5	3.2	GJB MX	GGJB MX		•	•	•
9.5	13.5	15.4	18.6	21	26	27	32	64	67	61		25	4.6	3.2	GJB MX	GGJB MX	HHJB MX	•	•	•
12.2	17.3	19.8	24	27	33	35	41	72	75	68		32	5.2	3.6	GJB MX	GGJB MX		•	•	•
15.2	22	25	30	34	41	44	52	88	91	83		40	6.2	3.6	GJB MX	GGJB MX	HHJB MX	•	•	•

Specifications - Wide Angle

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)							SPRAY ANGLE @ PRESSURE SHOWN (BAR)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE DIAMETER (MM)	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS			
0.7	1	1.5	2	3	4	6	0.4	0.7	6					REMOVABLE CAP & VANE	ONE-PIECE	BRASS	303SS	316SS	
0.57	0.67	0.81	0.93	1.1	1.3	1.5		120	86	1/8	1.5W	1.2	0.64	GJB MX	GGJB MX		•	•	•
1.1	1.3	1.5	1.7	2.1	2.4	2.9		120	102		2.8W	1.6	1.0	GJB MX	GGJB MX	HHJB MX	•	•	•
1.6	1.9	2.3	2.7	3.2	3.7	4.4		120	102		4.3W	2.0	1.0	GJB MX	GGJB MX	HHJB MX	•	•	•
2.1	2.5	3.0	3.5	4.2	4.8	5.7		120	102		5.6W	2.4	1.0	GJB MX	GGJB MX		•	•	•
3.0	3.6	4.3	4.9	6.0	6.8	8.2		120	102		8W	2.4	1.3	GJB MX	GGJB MX	HHJB MX	•	•	•
3.8	4.5	5.4	6.2	7.4	8.5	10.2	112	120	103	1/4	10W	2.8	1.3	GJB MX	GGJB MX		•	•	•
4.6	5.4	6.5	7.4	8.9	10.2	12.3	114	120	103		12W	3.2	1.3	GJB MX	GGJB MX		•	•	•
5.3	6.3	7.6	8.6	10.4	11.9	14.3	114	120	103		14W	3.6	1.6	GJB MX	GGJB MX	HHJB MX	•	•	•
6.5	7.6	9.2	10.5	12.7	14.4	17.4	114	120	103	3/8	17W	4.0	1.6	GJB MX	GGJB MX	HHJB MX	•	•	•
7.6	9.0	10.8	12.4	14.9	17.0	20	114	120	104		20W	4.4	2.4	GJB MX	GGJB MX	HHJB MX	•	•	•
9.1	10.8	13.0	14.8	17.9	20	25	114	120	104		24W	4.8	2.4	GJB MX	GGJB MX	HHJB MX	•	•	•
10.3	12.1	14.6	16.7	20	23	28	114	120	106		27W	5.2	2.8	GJB MX	GGJB MX	HHJB MX	•	•	•
11.4	13.5	16.2	18.5	22	25	31	114	120	108	1/2	30W	5.6	2.8	GJB MX	GGJB MX	HHJB MX	•	•	•
13.3	15.7	18.9	22	26	30	36	114	120	108		35W	6.0	3.2	GJB MX	GGJB MX	HHJB MX	•	•	•
15.2	18.0	22	25	30	34	41	114	120	108		40W	6.4	3.2	GJB MX	GGJB MX	HHJB MX	•	•	•
17.2	20	24	28	34	38	46	114	120	110		45W	6.4	4.0	GJB MX	GGJB MX	HHJB MX	•	•	•
19.1	22	27	31	37	42	51	114	120	112	50W	6.7	4.0	GJB MX	GGJB MX	HHJB MX	•	•	•	

Hollow Cone Nozzles

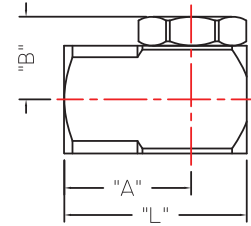
Standard Angle



AJBMX

Inlet Connection	A	B	L
1/8"	5/8" (15.9mm)	3/8" (9.5mm)	7/8" (22.2mm)
1/4"	13/16" (20.6mm)	17/32" (13.5mm)	1-1/8" (28.6mm)
3/8"	1" (25.4mm)	11/16" (17.5mm)	1-15/32" (37.3mm)
1/2"	1-5/16" (33.5mm)	3/4" (19.1mm)	1-13/16" (46.0mm)

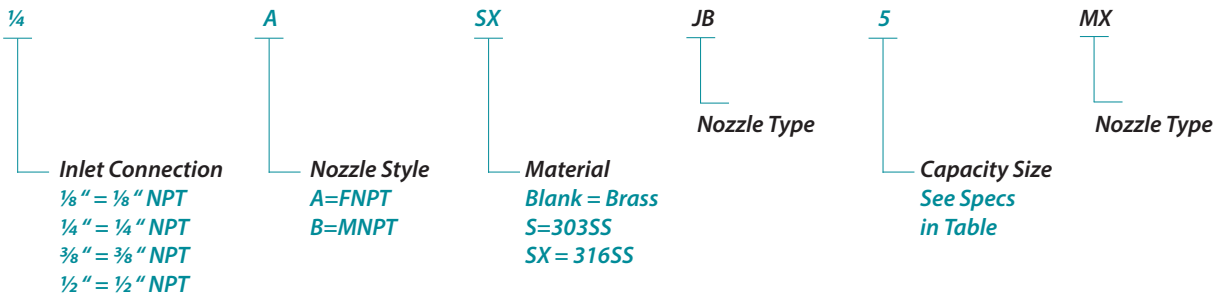
AJBMX - DIMENSIONAL DATA



Hollow Cone nozzles use centrifugal force internally to create a high quality, small droplet size with a low impact pattern. These nozzles are ideal for cooling or gentle cleaning & coating applications.

How to Order

Example: **1/4ASXJB5MX**



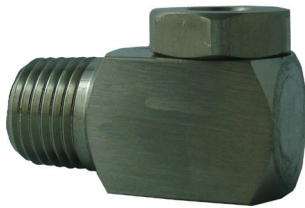
Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4ASXJB5MX)

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE @ PRESSURE SHOWN (BAR)			PIPE SIZE (NPT)	CAPACITY SIZE	INLET DIAMETER (MM)	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS		
0.4	0.7	1.5	2	3	4	6	7	0.7	1.5	6					FEMALE	MALE	BRASS	303SS	316SS
	0.19	0.28	0.32	0.39	0.46	0.56	0.60		58	69	1/8	.5	0.79	1.2	AJBMX	BJBMX	.	.	.
	0.38	0.56	0.64	0.79	0.91	1.1	1.2		64	76		1	1.6	1.6	AJBMX	BJBMX	.	.	.
0.58	0.76	1.1	1.3	1.6	1.8	2.2	2.4	52	61	69		2	2.0	2.0	AJBMX	BJBMX	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	52	64	77		3	2.4	2.4	AJBMX	BJBMX	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	56	67	76		5	3.2	3.2	AJBMX	BJBMX	.	.	.
2.3	3.1	4.5	5.2	6.3	7.3	8.9	9.6	56	65	70		8	4.0	4.0	AJBMX	BJBMX	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	55	65	72		10	4.4	4.4	AJBMX	BJBMX	.	.	.
	0.38	0.56	0.64	0.79	0.91	1.1	1.2		53	67		1/4	1	1.6	1.6	AJBMX	BJBMX	.	.
	0.76	1.1	1.3	1.6	1.8	2.2	2.4		62	71	2		2.0	2.0	AJBMX	BJBMX	.	.	.
0.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	51	65	78	3		2.4	2.4	AJBMX	BJBMX	.	.	.
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	63	73	79	5		3.6	3.6	AJBMX	BJBMX	.	.	.
2.3	3.1	4.5	5.2	6.3	7.3	8.9	9.6	61	69	73	8		4.0	4.0	AJBMX	BJBMX	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	63	70	74	10		4.8	4.4	AJBMX	BJBMX	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	63	71	72	15		5.9	5.2	AJBMX	BJBMX	.	.	.

Hollow Cone Nozzles

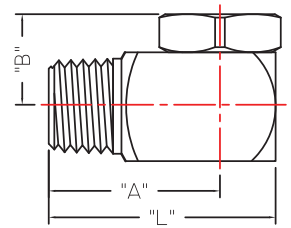
Standard Angle



BJBMX

Inlet Connection	A	B	L
1/8"	3/4" (19.1mm)	7/16" (11.1mm)	1-1/32" (26.2mm)
1/4"	1" (25.4mm)	31/64" (12.3mm)	1-5/16" (33.3mm)
3/8"	1-1/8" (28.6mm)	9/16" (14.3mm)	1-9/16" (39.7mm)
1/2"	1-3/8" (34.9mm)	3/4" (19.1mm)	1-7/8" (47.6mm)

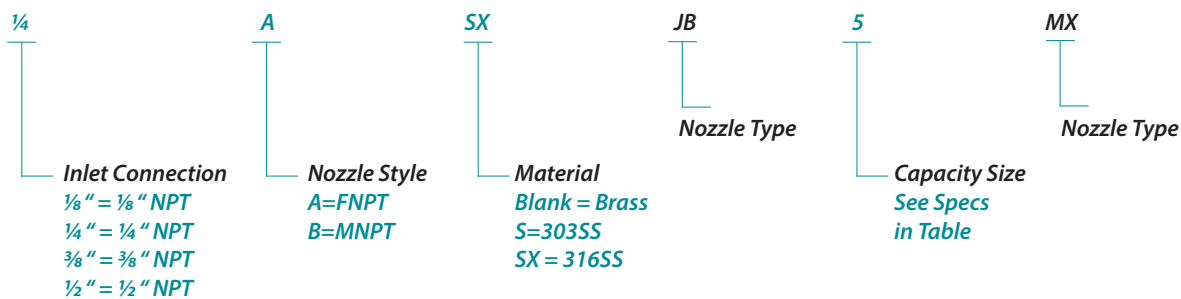
BJBMX - DIMENSIONAL DATA



Hollow Cone nozzles use centrifugal force internally to create a high quality, small droplet size with a low impact pattern. These nozzles are ideal for cooling or gentle cleaning & coating applications.

How to Order

Example: **1/4ASXJB5MX**



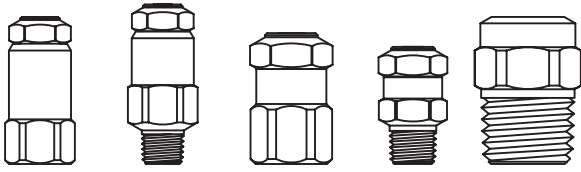
Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4ASXJB5MX)

Specifications

LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE @ PRESSURE SHOWN (BAR)			PIPE SIZE (NPT)	CAPACITY SIZE	INLET DIAMETER (MM)	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS		
0.4	0.7	1.5	2	3	4	6	7	0.7	1.5	6					FEMALE	MALE	BRASS	303SS	316SS
1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	64	73	79	3/8	5	3.6	3.2	AJBMX	BJBMX	.	.	.
2.3	3.1	4.5	5.2	6.3	7.3	8.9	9.6	62	70	74		8	4.4	4.0	AJBMX	BJBMX	.	.	.
2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	64	72	75		10	5.2	4.4	AJBMX	BJBMX	.	.	.
4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	64	72	74		15	5.9	5.6	AJBMX	BJBMX	.	.	.
5.8	7.6	11.2	12.9	15.8	18.2	22	24	63	70	74		20	7.1	6.4	AJBMX	BJBMX	.	.	.
7.2	9.5	14.0	16.1	19.7	23	28	30	63	70	74		25	7.5	7.5	AJBMX	BJBMX	.	.	.
8.6	11.4	16.8	19.3	24	27	34	36	63	70	74		30	8.3	7.9	AJBMX	BJBMX	.	.	.
7.2	9.5	14.0	16.1	20	23	28	30	63	66	71		1/2	25	9.5	6.4	AJBMX	BJBMX	.	.
8.6	11.4	16.8	19.3	24	27	34	36	67	71	75	30		9.5	7.5	AJBMX	BJBMX	.	.	.
11.5	15.3	22	26	32	36	45	48	72	76	78	40		9.5	9.1	AJBMX	BJBMX	.	.	.
14.4	19.1	28	32	39	46	56	60	74	79	82	50		9.5	11.1	AJBMX	BJBMX	.	.	.
17.3	23	34	39	47	55	67	72	77	82	86	60		9.5	13.1	AJBMX	BJBMX	.	.	.

Hydraulic Atomizing Nozzles

LNJBMX, LNNJBMX, NJBMX, NNJBMX



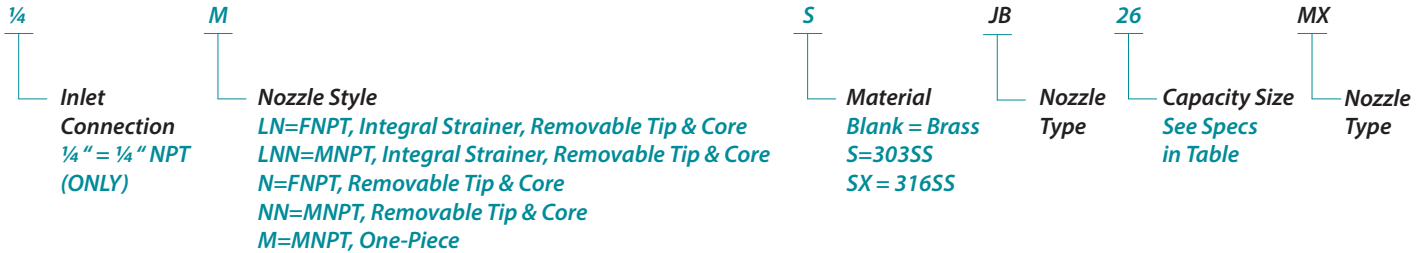
Nozzle Type	Inlet Connection	Length	Body Hex	Cap Hex
LNJBMX	1/4"	1-15/16" (49.2mm)	13/16"	11/16"
LNNJBMX	1/4"	2-1/8" (54.0mm)	13/16"	11/16"
NJBMX	1/4"	1-5/8" (41.3mm)	11/16"	11/16"
NNJBMX	1/4"	1-13/32" (35.7mm)	11/16"	11/16"
MJBMX	1/4"	27/32" (21.4mm)	9/16"	-

LNJBMX LNNJBMX NJBMX NNJBMX MJBMX DIMENSIONAL DATA

Hydraulic atomizing nozzles use a core and orifice design to produce a hollow cone of very fine droplets using liquid pressure alone. The fine droplets are great for cooling, humidification or spraying on trim nozzles to prevent pulp build-up. The MJBMX features a one-piece design with fitted core. The LNJBMX, LNNJBMX, NJBMX and NNJBMX have a removable orifice tip and core for easy cleaning. Additionally, the LNJBMX and LNNJBMX feature an integral strainer screen.

How to Order

Example: **1/4MSJB26MX**



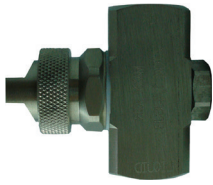
Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4MSJB26MX)

Specifications

LITERS PER HOUR @ PRESSURE SHOWN (BAR)								SPRAY ANGLE @ PRESSURE SHOWN (BAR)			CAPACITY SIZE	APPROX FREE PASSAGE DIAMETER (MM)	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE					AVAILABLE MATERIALS		
3	4	7	15	20	35	45	80	3	6	20				INTEGRAL STRAINER	REMOVABLE CAP		ONE-PIECE	BRASS	303SS	316SS	
				3.1	4.0	4.6	6.1			51											
				4.1	5.4	6.1	8.2			58											
			4.4	5.1	6.7	7.6	10.2			63											
		3.60	5.3	6.1	8.1	9.2	12.2		35	65											
3.9	4.6	6.0	8.8	10.2	13.5	15.3	20	45	62	72	1	0.25	0.51	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
5.9	6.8	9.0	13.2	15.3	20	23	31	65	70	72	1.5	0.41	0.51	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
7.9	9.1	12.1	17.7	20	27	31	41	70	75	77	2	0.41	0.71	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
11.8	13.7	18.1	26	31	40	46	61	65	70	73	3	0.51	0.71	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
15.8	18.2	24	35	41	54	61	82	72	81	84	4	0.51	1.1	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
24	27	36	53	61	81	92	122	73	79	81	6	0.64	1.1	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
32	36	48	71	82	108	122	163	85	89	91	8	0.64	1.5	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
39	46	60	88	102	135	153	204	82	84	86	10	0.51	1.6	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
47	55	72	106	122	162	183	245	78	82	85	12	0.51	1.9	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
55	64	84	124	143	189	214	285	85	88	90	14	0.53	1.9	LNJBMX	LNNJBMX	NJBMX	NNJBMX				
63	73	96	141	163	216	245	326	83	86	88	16	0.53	2.2			NJBMX	NNJBMX	MJBMX			
71	82	109	159	183	243	275	367	81	84	86	18	0.56	1.9	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
79	91	121	177	204	270	306	408	75	78	80	20	0.56	2.1	LNJBMX				MJBMX			
87	100	133	194	224	297	336	449	70	72	75	22	0.64	1.9	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			
103	119	157	230	265	351	398	530	73	74	77	26	0.64	2.2	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX			

Air Atomizing Nozzles

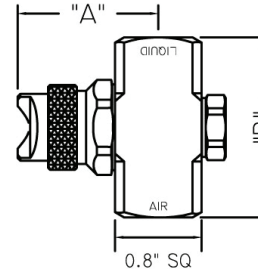
Pressure & Siphon Feed



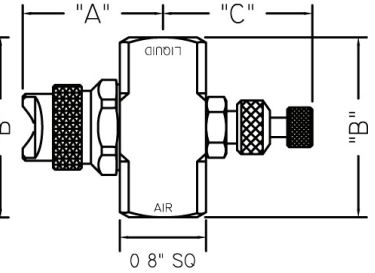
EXTERNAL MIX

Nozzle Type	Inlet Connection	A	B	C
JJBMX	1/8"	2" (50.8mm)	1.69" (42.9mm)	-
	1/4"			
JXJBMX	1/8"	2" (50.8mm)	1.69" (42.9mm)	1.6" (40.6mm)
	1/4"			

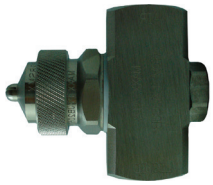
DIMENSIONAL DATA



JJBMX



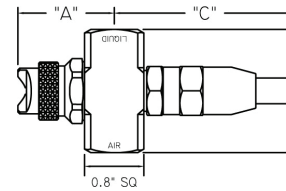
JXJBMX



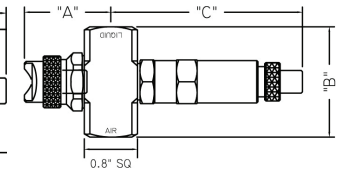
INTERNAL MIX

Nozzle Type	Inlet Connection	A	B	C
JYJBMX	1/8"	2" (50.8mm)	1.69" (42.9mm)	2.5" (63.5mm)
	1/4"			
JZJBMX	1/8"	2" (50.8mm)	1.69" (42.9mm)	3.2" (81.3mm)
	1/4"			

DIMENSIONAL DATA



JYJBMX



JZJBMX

Air Atomizing Nozzles use a combination of compressed air and liquid to produce a highly atomized spray pattern at low flow rates. Comprised of a body and associated spray set up (air cap & fluid cap) - a wide range of spray patterns and flows can be accommodated. Internal mix set ups combine air and liquid inside the air cap. In this arrangement, the streams are not independent, meaning changing your air flow will affect your liquid flow. Internal mix set ups can produce the finest atomization but are not suited for viscous fluids. External mix set ups combine the air and liquid outside for the air cap allowing air and liquid flow rates to be controlled independently. In most cases external set ups do not atomize as finely but can be used with more viscous fluids.

How to Order - Spray Set-Ups

Example: **1/4JSJBMX+F10S**

1/4

Inlet Connection
1/8" = 1/8" FNPT
1/4" = 1/4" FNPT

J

Nozzle Style
J=Basic Body
JX=Shut-Off Needle
JY=Clean-Out Needle
JZ=Shut-Off Needle with Clean-Out

S

Body Material
Blank = Nickel Plated Brass
S=303SS
SX=316SS

JBMX

+

F10

Nozzle Style
Spray Set-Up
See Specs in Tables

S

Set-Up Material
Blank = Nickel Plated Brass
S=303SS
SX=316SS

Note: For BSPT inlet connections, please put a "B" in front of the Part Number (eg. B1/4JSJBMX+F10S)

How to Order - Replacement Components

AIR CAPS

Example: **PAJB73328SMX**

Material
Blank = Brass
S=303SS
SX=316SS

FLUID CAPS

Example: **PFJB2050SMX**

Material
Blank = Brass
S=303SS
SX=316SS

Air Atomizing Nozzles

Specifications for Spray Set-Ups

EF - FLAT FAN EXTERNAL MIX			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	E1	PFJB1650MX	PAJB6224060MX
	E2	PFJB1650MX	PAJB6722845MX
	E3	PFJB2050MX	PAJB6224060MX
	E4	PFJB2050MX	PAJB6722845MX
	E5	PFJB2850MX	PAJB6224060MX
	E6	PFJB2850MX	PAJB6722845MX
	E7	PFJB35100MX	PAJB12228160MX
	E8	PFJB35100MX	PAJB13425545MX
	E9	PFJB40100MX	PAJB12228160MX
	E10	PFJB40100MX	PAJB13425545MX
	E11	PFJB60100MX	PAJB12228160MX
	E12	PFJB60100MX	PAJB13425545MX
	E13	PFJB60150MX	PAJB20027845MX
	E14	PFJB80150MX	PAJB20027845MX
1/2	E15	PFJB100150MX	PAJB20027845MX

SF - SIPHON FLAT FAN			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	F1	PFJB2850MX	PAJB73420MX
	F3	PFJB35100MX	PAJB120432MX
	F5	PFJB40100MX	PAJB122435MX
	F7	PFJB40100MX	PAJB122440MX

SR - SIPHON FLAT FAN			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	R1	PFJB1650MX	PAJB64MX
	R4	PFJB2050MX	PAJB64MX
	R6	PFJB2050MX	PAJB70MX
	R8	PFJB2850MX	PAJB70MX
	R11	PFJB60100MX	PAJB120MX
1/2	R12	PFJB100150MX	PAJB180MX

PF - PRESSURE FLAT FAN			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	F2	PFJB2050MX	PAJB73328MX
	F4	PFJB2850MX	PAJB73320MX
	F6	PFJB2850MX	PAJB73328MX
	F8	PFJB2850MX	PAJB73335MX
	F9	PFJB40100MX	PAJB125328MX
	F10	PFJB60100MX	PAJB125328MX
	F11	PFJB60100MX	PAJB125340MX
	F12	PFJB100150MX	PAJB189351MX

AD - WIDE ANGLE ROUND			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	W1	PFJB2050MX	PAJB6762070MX
	W2	PFJB40100MX	PAJB14063770MX
	W3	PFJB40100MX	PAJB12063560MX
	W4	PFJB60100MX	PAJB14063770MX
	W5	PFJB60100MX	PAJB14065270MX
	W6	PFJB100150MX	PAJB18966270MX

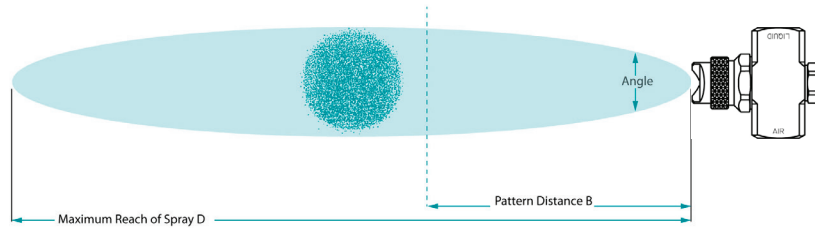
XW - EXTRA WIDE ANGLE ROUND			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	H1	PFJB60150MX	PAJB189662160HCMX

FF - DEFLECTED FLAT FAN			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	K1	PFJB28150MX	PAJB18911075MX

PR - PRESSURE ROUND			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	R2	PFJB2050MX	PAJB67147MX
	R3	PFJB2050MX	PAJB73160MX
	R5	PFJB2850MX	PAJB73160MX
	R7	PFJB40100MX	PAJB1401110MX
	R9	PFJB60100MX	PAJB1401110MX
	R10	PFJB100150MX	PAJB1891125MX

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Round Spray Internal Mix)

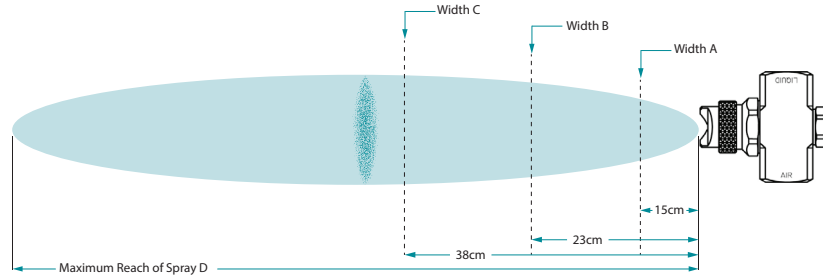


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																					
"SPRAY SET-UP NUMBER"	"FLUID & AIR CAP NUMBERS"	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID			SPRAY DIMENSIONS				
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		ANGLE °	"B" (CM)	"D" (M)
																	AIR	LIQUID			
R2	Fluid Cap PFJB2050MX	0.70	2.5	15.6	1.1	6.4	11.9	1.4	6.4	13.9	2.7	6.2	23	3.5	7.8	28					
		0.85	1.8	19.0	1.4	5.0	15.0	1.7	5.5	16.7	2.8	5.7	25	3.7	7.3	29	0.85	0.70	13	30	2.7
		1.0	1.4	22	1.7	4.1	18.7	2.0	4.5	19.8	3.0	5.2	27	3.9	6.4	33	1.7	1.5	13	33	3.0
	Air Cap PAJB67147MX				1.8	3.4	20	2.2	3.4	24.0	3.1	4.7	29	4.2	5.5	38	2.5	2.0	13	36	3.4
					2.0	3.0	23	2.4	3.0	26.0	3.2	4.3	31	4.5	4.5	43	3.1	3.0	14	39	3.8
					2.1	2.6	25	2.5	2.5	28.0	3.4	3.9	33	4.6	4.1	45	4.5	4.0	15	44	4.4
R3	Fluid Cap PFJB2050MX	0.70	2.5	19	1.4	5.7	27	1.7	6.7	29	2.2	9.2	34	2.8	11.9	39					
		0.85	2.0	22	1.5	5.2	29	1.8	6.4	31	2.5	8.2	39	3.1	11.0	43	0.85	0.70	12	43	3.7
		1.0	1.6	26	1.7	4.8	32	2.0	5.9	34	2.8	7.2	44	3.4	10.1	47	1.5	1.5	13	46	4.0
	Air Cap PAJB73160MX				1.8	4.3	35	2.1	5.2	37	3.0	6.7	47	3.7	9.2	52	2.4	2.0	13	48	4.3
					2.0	3.9	37	2.2	4.8	40	3.1	6.3	49	3.9	8.4	58	3.0	3.0	13	51	4.6
					2.1	3.4	40	2.4	4.3	43	3.2	5.9	52	4.2	7.6	62	3.9	4.0	15	56	5.2
R5	Fluid Cap PFJB2050MX	0.85	4.8	21	1.7	8.4	31	2.0	10.7	33	2.7	16.5	37	3.4	20.0	43					
		1.1	4.1	27	1.8	7.5	35	2.1	9.8	37	2.8	15.4	38	3.7	18.4	47	1.5	0.70	12	48	4.0
		1.4	3.4	33	2.0	7.0	37	2.4	8.2	42	3.1	13.6	43	3.9	16.8	50	2.5	1.5	13	51	4.3
	Air Cap PAJB73160MX	1.5	3.1	35	2.2	5.7	44	2.7	6.8	48	3.4	11.8	49	4.2	15.2	55	3.0	2.0	13	53	4.6
		1.7	3.0	39	2.5	4.8	49	3.0	5.9	55	3.7	10.4	55	4.5	13.8	60	3.4	3.0	14	56	4.9
		1.8	2.9	41	2.8	4.1	54	3.2	5.0	59	3.9	9.1	61	4.8	12.4	65	4.2	4.0	15	60	5.3
R7	Fluid Cap PFJB40100MX	1.1	13.0	76	2.2	17.8	116	2.8	20	136	3.4	32	149	4.6	37	193					
		1.4	8.9	91	2.5	13.1	130	3.1	16.3	149	3.9	25	170	5.3	29	220	1.7	0.70	18	66	4.9
		1.5	7.2	98	2.8	9.5	143	3.4	11.9	163	4.6	15.9	205	5.6	25	235	2.8	1.5	20	76	6.1
	Air Cap PAJB-1401110MX	1.7	5.8	105	3.1	7.0	157	3.9	7.0	187	5.3	9.1	240	6.0	21	250	3.9	2.0	20	81	6.7
		1.8	4.7	112	3.4	4.9	171	4.2	4.7	205	5.6	6.8	255	6.3	17.4	270	5.3	3.0	21	91	7.9
		2.0	3.6	119	3.5	4.2	178	4.6	3.0	220	6.0	5.0	275	6.7	14.0	290	6.0	4.0	21	97	9.1
R9	Fluid Cap PFJB60100MX	0.85	31	57	1.4	61	69	2.1	53	96	2.7	80	103	3.8	88	135					
		1.0	25	66	1.5	54	76	2.4	41	112	3.0	69	117	4.2	73	156	1.0	0.70	17	61	4.9
		1.1	19	75	1.7	48	85	2.7	31	127	3.2	59	130	4.6	61	176	1.8	1.5	18	69	5.8
	Air Cap PAJB-1401110MX	1.3	13	85	1.8	41	93	2.8	26	136	3.5	49	146	4.9	48	196	2.8	2.0	20	76	6.7
					2.0	35	102	3.0	22	144	3.7	44	154	5.3	39	215	3.5	3.0	20	79	7.0
					2.1	30	110				3.8	37	161	5.6	31	240	4.9	4.0	21	91	8.5
R10	Fluid Cap PFJB100150MX	1.0	44	86	1.4	125	79	2.0	123	108	2.2	199	88	3.0	250	99					
		1.1	32	102	1.5	106	91	2.1	108	119	2.5	174	110	3.2	225	120	1.0	0.70	19	89	6.1
					1.7	87	105	2.2	95	130	2.8	146	133	3.5	205	141	1.7	1.5	20	99	7.0
	Air Cap PAJB-1891125MX				1.8	70	118	2.4	79	143	3.1	121	154	3.8	182	163	2.4	2.0	21	104	7.6
					2.0	55	130	2.5	64	155	3.2	108	166	4.1	159	184	3.1	3.0	21	107	7.9
								2.7	52	166	3.4	95	176	4.6	121	225	3.8	4.0	22	117	9.1

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Flat Spray Internal Mix)

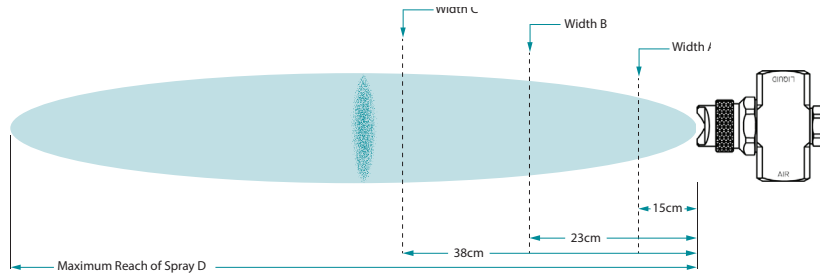


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																						
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID			SPRAY DIMENSIONS					
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)
																	AIR	LIQUID				
F2	Fluid Cap PFJB2050MX Air Cap PAJB73328MX	0.70	5.5	24	1.3	9.1	31	2.0	8.6	42	2.7	11.2	52	3.9	12.0	69						
		0.85	4.7	27	1.5	7.7	36	2.2	7.5	47	3.0	10.1	56	4.6	9.7	81	1.1	0.70	25	36	46	2.6
		1.0	4.1	31	1.8	6.5	42	2.5	6.2	52	3.2	9.1	62	5.3	7.5	93	2.1	1.50	36	48	66	3.0
		1.1	3.5	34	2.1	5.4	47	2.8	5.2	57	3.5	8.1	66	6.0	5.3	104	2.8	2.00	38	53	76	3.2
		1.3	3.0	37	2.4	4.3	52	3.1	4.2	63	4.2	5.4	79	6.3	4.3	110	3.5	3.00	47	61	86	3.4
		1.4	2.5	40	2.7	3.3	57	3.2	3.7	65	4.6	4.2	85	6.7	3.3	116	6.0	4.00	56	74	94	4.0
		1.5	2.0	44	2.8	2.8	60	3.4	3.2	68	4.9	3.1	91	7.0	2.4	122						
F4	Fluid Cap PFJB2050MX Air Cap PAJB73220MX	1.3	3.9	30	2.1	7.4	40	3.0	6.1	52	3.9	9.4	60	5.3	10.2	78						
		1.4	3.0	33	2.4	5.3	45	3.1	5.3	54	4.2	7.2	67	5.6	8.3	84	1.5	0.70	25	33	46	1.8
		1.5	2.3	35	2.5	4.4	47	3.2	4.5	57	4.6	5.3	73	6.0	6.6	89	2.7	1.5	36	51	69	2.0
		1.7	1.8	38	2.7	3.7	50	3.4	3.8	59	4.9	3.8	80	6.3	5.1	98	3.2	2.0	58	74	91	2.0
		1.8	1.3	41	2.8	3.1	52	3.5	3.2	62							4.2	3.0	61	74	94	2.1
		2.0	1.0	44	3.0	2.6	55	3.9	1.8	68							5.6	4.0	64	76	97	2.3
					3.1	2.1	57															
F6	Fluid Cap PFJB2850MX Air Cap PAJB73328MX	0.85	8.2	20	1.4	14.4	27	2.1	13.5	36	2.7	19.1	42	4.6	16.1	69						
		1.0	6.8	23	1.7	11.9	32	2.4	11.4	42	3.0	17.1	46	4.9	13.8	76	1.1	0.70	36	46	71	2.1
		1.1	5.5	27	2.0	9.5	37	2.7	9.2	47	3.2	15.1	52	5.3	11.5	83	2.1	1.5	43	61	81	2.4
		1.3	4.1	30	2.1	8.3	40	3.0	7.1	53	3.5	13.1	57	5.6	9.3	90	3.0	2.0	51	66	89	2.6
		1.4	2.9	34	2.2	7.1	43	3.2	5.0	59	4.2	8.1	72	6.0	7.3	97	3.5	3.0	58	76	97	2.7
					2.4	6.1	46	3.4	4.0	63	4.6	5.9	79	6.3	5.6	104	5.6	4.0	58	76	97	3.2
					2.5	5.1	49	3.5	3.3	66	4.9	4.0	86	6.7	4.3	112						
F8	Fluid Cap PFJB2850MX Air Cap PAJB73335MX	1.0	9.0	25	2.0	10.4	41	2.4	11.6	48	3.1	15.6	56	4.2	17.1	73						
		1.1	7.8	30	2.1	9.3	45	2.5	10.4	51	3.2	14.6	59	4.6	15.0	80	1.4	0.70	10	13	17	3.0
		1.3	6.6	32	2.2	8.2	48	2.7	9.4	54	3.4	13.7	62	4.9	12.8	87	2.5	1.5	13	15	20	3.7
		1.4	5.2	36	2.5	6.1	55	3.0	7.3	61	3.8	10.8	71	5.3	11.0	94	3.2	2.0	13	17	22	4.0
		1.7	3.1	44	2.8	4.3	62	3.2	5.5	68	4.2	8.5	82	5.6	9.4	103	3.8	3.0	15	22	28	4.2
		2.0	2.0	50	3.1	3.0	69	3.5	4.1	75	4.9	5.2	98	6.3	7.2	119	5.3	4.0	20	25	33	4.8
		2.2	1.1	56	3.4	2.0	75	3.8	2.9	81	6.0	2.3	120	7.0	6.1	134						

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Flat Spray Internal Mix - continued)

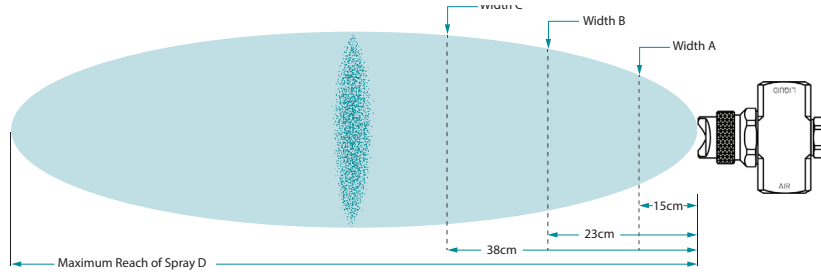


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																							
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID			SPRAY DIMENSIONS						
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)	
																	AIR	LIQUID					
F9	Fluid Cap PFJB40100MX Air Cap PAJB125328MX	1.1	11.2	54	2.1	18.0	79	2.7	19.6	93	3.5	27	112	4.6	33	137							
		1.3	8.5	60	2.2	15.8	84	2.8	17.3	98	3.7	25	116	4.9	28	149	1.4	0.70	15	18	20	3.0	
		1.4	6.5	65	2.4	13.6	89	3.0	15.2	103	3.8	23	121	5.3	24	161	2.4	1.5	23	28	33	3.2	
		1.5	5.0	71	2.5	11.6	95	3.1	13.2	109	3.9	21	126	5.6	19.7	174	3.0	2.0	25	33	46	3.4	
		1.7	3.8	77					3.2	11.4	114	4.1	18.9	132	6.0	15.7	187	3.7	3.0	30	38	46	3.5
		0.85	27	33	1.8	38	55	2.4	39	67	3.2	58	76	4.6	59	106							
F10	Fluid Cap PFJB60100MX Air Cap PAJB125328MX	1.0	20	38	2.1	28	66	2.7	30	77	3.5	47	87	5.3	40	132	1.1	0.70	18	23	30	3.4	
		1.1	15.9	45	2.2	24	71	3.0	24	87	3.8	38	97	5.6	32	145	2.4	1.5	23	30	41	3.5	
		1.3	12.5	48	2.4	21	76	3.2	17.8	98	3.9	34	103	6.0	26	158	3.2	2.0	25	33	43	3.7	
		1.4	10.2	56	2.5	17.8	82	3.4	15.1	103	4.2	27	113	6.3	20	172	3.9	3.0	30	38	48	3.8	
		1.5	7.6	62	2.7	15.1	87	3.5	12.9	109	4.6	20	126	6.7	15.9	185	6.0	4.0	33	41	51	4.4	
									3.7	10.6	114	4.9	14.8	140	7.0	12.7	198						
F11	Fluid Cap PFJB60100MX Air Cap PAJB125340MX	1.1	11.0	27	2.1	18.9	50	2.5	23	59	3.5	33	80	4.2	53	89	1.1	0.70	10	13	15	2.4	
		1.3	7.6	33	2.2	14.4	56	2.7	18.9	66	3.7	28	89	4.6	40	108	2.1	1.5	10	13	17	3.0	
		1.4	3.2	40	2.4	10.6	63	2.8	15.1	74	3.8	23	97	4.9	30	127	2.8	2.0	13	17	22	3.4	
					2.5	7.2	71	3.0	11.7	79	3.9	19.7	105	5.3	21	149	3.7	3.0	15	20	28	3.6	
											4.2	13.1	120	5.6	13.8	173	4.9	4.0	20	25	35	4.0	
											4.6	7.2	138	6.3	3.2	225							
F12	Fluid Cap PFJB100150MX Air Cap PAJB189351MX	1.0	29	90	1.8	56	117	2.1	100	119	3.0	126	140	4.1	140	181							
		1.1	18.9	108	2.0	40	133	2.2	79	133	3.1	110	151	4.2	125	193	1.0	0.70	18	20	25	3.4	
								2.4	62	147	3.2	95	163	4.6	89	225	1.8	1.5	25	30	43	3.8	
								2.5	48	162	3.4	78	184	4.9	58	265	2.4	2.0	25	30	46	4.3	
								2.7	36	177	3.5	62	193	5.3	34	305	3.4	3.0	33	41	53	4.6	
											3.7	48	210	5.6	16.7	340	4.9	4.0	36	43	58	5.2	
									3.8	37	225												
									54	7.3	8.3												

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Flat Spray External Mix)

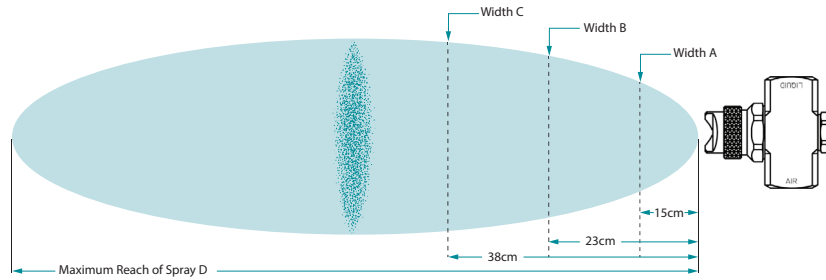


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																										
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.2 BAR LIQUID		0.3 BAR LIQUID		0.7 BAR LIQUID		1.5 BAR LIQUID		3 BAR LIQUID		SPRAY DIMENSIONS														
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	SCFM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)				
																	AIR	LIQUID								
E1	Fluid Cap PFB1650MX	0.35	2.8	22	3.5	22	5.3	25	7.8	28	11.0	28	0.70	34	1.1	45	1.5	20	28	33	1.2					
		0.40		25		25		28		34		45		23		30		40				1.8				
		0.50		27.5		28		34		40		45		28		33		43				2.4				
	Air Cap PAJB6224060MX	0.60	28	0.70	34	0.85	40	1.4	54	2.5	79	79	1.5	25	30	41	2.7	1.1	2.0	28	35	48	2.6			
																		30	38	51	2.7					
																		1.4	3.0	30	38	51	2.7			
E2	Fluid Cap PFB1650MX	0.20	2.8	25	3.5	26	5.3	31	7.8	45	11.0	45	2.8	74	2.8	102	3.5	0.20	0.20	9	15	23	0.90			
		0.35		26		31		40		54		85		85		0.20		9						15	23	1.2
		0.70		31		40		45		60		102		102		0.35		10						15	23	1.2
	Air Cap PAJB6722845MX	1.1	40	1.4	45	1.8	54	2.8	54	2.8	74	4.9	74	4.9	119	119	1.4	11.5	18	25	1.5					
		1.4	45	1.8	54	2.1	59	3.5	85	5.3	127.5	127.5	0.70	11.5	15	24	1.5									
		1.8	54	2.1	59	2.8	74	4.2	102	5.6	139	139	1.4	13	18	28	1.8									
	2.1	59	2.8	74	3.5	85	5.6	139	6.3	159	159	2.6	15	18	24	2.4										
E3	Fluid Cap PFB2050MX	0.35	4.5	22	5.5	22	8.3	28	12.2	34	16.6	34	1.1	45	1.5	54	2.1	0.70	0.30	28	33	40	1.5			
		0.60		28		34		34		54		54		1.5		38		46						58	1.8	
		0.70		34		45		54		71		71		1.5		35		43						56	2.4	
	Air Cap PAJB6224060MX	1.1	45	1.4	54	2.1	71	2.5	79	2.5	79	2.5	79	2.5	79	2.5	79	2.5	33	40	51	3.0				
																		1.8	2.0	38	46	58	2.7			
																		1.8	3.0	41	48	66	2.9			
E4	Fluid Cap PFB2050MX	0.35	4.5	26	5.5	31	8.3	40	12.2	54	16.6	54	3.2	82	3.5	102	4.2	0.35	0.20	7.5	14	22	1.0			
		0.70		31		40		45		60		85		85		0.20		9						15	22	1.7
		1.1		40		45		54		74		102		102		0.35		10						16.5	23	1.8
	Air Cap PAJB6722845MX	1.4	45	1.8	54	2.1	59	3.5	85	4.9	85	4.9	102	5.3	119	119	1.4	13	19	29	2.1					
		1.8	54	2.1	59	2.8	74	4.2	102	5.3	127	127	0.70	13	18	25	1.8									
		2.1	59	2.8	74	3.5	85	4.9	119	6.3	159	159	1.4	13	22	30	2.4									
	2.8	74	3.5	85	4.2	102	6.3	159	6.7	164	164	2.8	15	19	25	3.0										
E5	Fluid Cap PFB2050MX	0.40	8.5	25	10.4	25	15.9	25	23	34	33	34	1.4	54	1.8	62	2.1	0.60	0.30	35	48	61	1.8			
		0.50		27.5		28		28		40		54		54		0.70		35						48	63	1.5
		0.60		28		0.65		31		0.70		34		1.1		45		2.1						71	71	1.5	41	51	66	2.1
	Air Cap PAJB6224060MX	0.70	34	0.70	34	0.85	40	1.4	54	2.5	79	79	1.5	43	53	66	2.4									
																		1.8	2.0	41	51	69	2.7			
																		2.1	3.0	41	51	69	2.9			

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Flat Spray External Mix - continued)

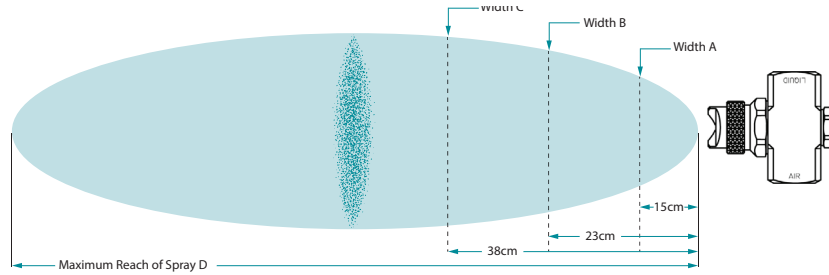


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																													
SPRAY SET-UP NO.	FLUID & AIR CAP NO.5	0.2 BAR LIQUID			0.3 BAR LIQUID			0.7 BAR LIQUID			1.5 BAR LIQUID			3 BAR LIQUID			SPRAY DIMENSIONS												
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)							
																	AIR	LIQUID											
E6	Fluid Cap PFJB2850MX Air Cap PAJB6722845MX	0.7	8.5	31	1.1	10.4	40	1.4	15.9	45	2.5	23	68	3.5	33	85	0.70	0.20	13	16.5	25	1.2							
		1.05		40	1.4		45	1.8		54	2.8		74	4.2		102	102	0.20	13	16.5	25	1.8							
		1.4		45	1.8		54	2.1		60	3.5		85	4.9		119	119	0.35	13	18	24	1.8							
		1.75		54	2.1		60	2.8		74	4.2		102	5.3		127	127	1.4	14	20	32	1.8							
		2.1		60	2.8		74	3.5		85	4.9		119	5.6		139	139	0.70	14	19	30	2.3							
		2.8		74	3.5		85	4.2		102	5.6		139	6.3		159	159	1.4	14	20	36	3.0							
		3.5		85	4.2		102	4.9		119	6.3		159	7.0		176	176	2.8	16.5	20	30	4.0							
E7	Fluid Cap PFJB35100MX Air Cap PAJB12228160MX	0.60	13.4	91	0.70	16.4	102	1.4	25	156	2.1	37	210	3.2	52	285	1.4	0.30	33	38	48	3.8							
		0.70		102	1.1		130	2.1		210	2.8		260	4.2		360	360	1.5	35	46	58	4.0							
		1.1		130	1.8		184	2.5		235	3.5		310	5.3		430	430	1.5	38	48	66	4.6							
		1.4		156	2.1		210	2.8		260	4.2		360	5.6		455	455	1.5	38	48	64	5.2							
E8	Fluid Cap PFJB35100MX Air Cap PAJB13425545MX	0.70	13.4	85	1.0	16.4	102	1.4	25	116	2.5	37	178	3.2	52	212	0.70	0.20	13	19	25	1.7							
		1.0		102	1.4		116	1.8		139	2.8		195	3.5		232	232	0.20	13	19	25	2.7							
		1.4		116	1.8		139	2.1		156	3.5		227	3.9		255	255	0.35	15	19	28	3.0							
		1.8		139	2.1		156	2.8		178	4.2		266	4.2		275	275	0.70	15	22	28	3.5							
		2.1		156	2.8		195	2.8		195	4.9		312	4.9		314	314	1.4	16.5	23	36	3.7							
		2.8		195	3.5		227	3.5		227	5.6		360	5.6		360	360	1.4	16.5	23	37	4.3							
		3.5		227	4.2		266	4.2		266	6.3		411	6.3		411	411	2.8	16.5	22	32	4.9							
E9	Fluid Cap PFJB40100MX Air Cap PAJB12228160MX	0.60	17.6	91	0.70	22	102	1.1	33	130	2.5	48	235	3.5	68	310	1.1	0.20	33	38	51	3.5							
		1.1		130	1.4		156	1.8		184	3.2		285	4.6		380	380	1.5	38	46	64	3.8							
		1.4		156	1.8		184	2.5		235	3.9		330	6.0		475	475	1.5	33	43	61	4.3							
		1.8		184	2.1		210	2.8		260	4.2		360	6.7		525	525	1.5	30	43	58	4.9							
E10	Fluid Cap PFJB40100MX Air Cap PAJB13425545MX	0.70	17.6	85	1.4	22	116	1.8	33	139	2.8	48	195	3.5	68	232	0.70	0.35	15	19	27	2.1							
		1.0		102	1.8		139	2.1		156	3.2		212	4.2		275	275	0.70	15	19	27	3.0							
		1.4		116	2.1		156	2.5		178	3.5		227	4.9		314	314	1.4	15	22	33	3.4							
		1.8		139	2.5		178	2.8		195	4.2		266	5.3		340	340	1.4	15	22	36	3.8							
		2.1		156	2.8		195	3.5		227	4.9		312	5.6		360	360	1.4	17	25	37	4.0							
		2.8		195	3.5		227	4.2		266	5.6		360	6.3		411	411	2.1	17	25	37	4.9							
		3.5		227	4.2		266	4.9		312	6.3		411	6.6		428	428	2.8	18	23	36	5.8							

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Flat Spray External Mix - continued)

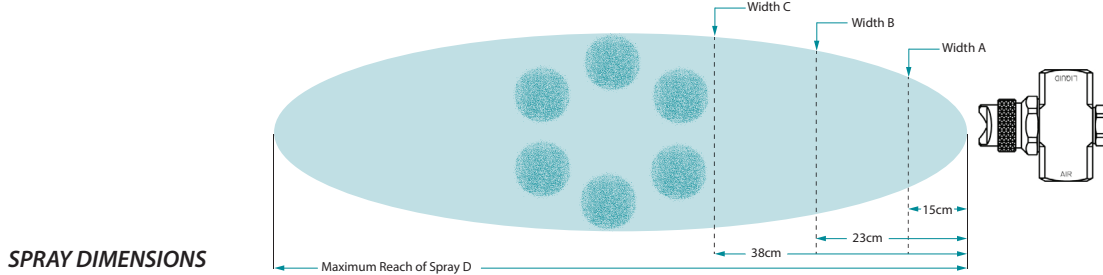


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																													
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.2 BAR LIQUID			0.3 BAR LIQUID			0.7 BAR LIQUID			1.5 BAR LIQUID			3 BAR LIQUID			SPRAY DIMENSIONS												
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)				
																				AIR	LIQUID								
E11	Fluid Cap PFJB60100MX	0.7	36	102	1.1	45	130	1.8	68	184	3.2	100	285	5.3	141	430	2.8	0.70	40	56	76	3.0							
		1.1		130	1.4		156	2.1		210	3.5		310	6.0		475	3.2	1.5	48	58	79	4.3							
		1.4		156	2.1		210	2.8		260	4.9		405	6.7		525	4.6	1.5	43	53	76	4.9							
	Air Cap PAJB12228160MX	1.8		184	2.5		235	3.2		285	5.9		455	7.0		550	5.6	1.5	38	51	66	5.8							
E12	Fluid Cap PFJB60100MX	1.0	36	102	1.8	45	139	2.5	68	178	3.2	100	212	3.9	141	255	1.0	0.20	15	20	25	2.7							
		1.4		116	2.1		156	2.8		195	3.5		227	4.2		275	2.1	0.20	15	22	29	3.0							
		1.8		139	2.5		178	3.2		212	3.9		246	4.6		297	2.8	0.35	18	24	36	3.5							
	Air Cap PAJB13425545MX	2.1		156	2.8		195	3.5		227	4.2		266	4.9		314	3.2	1.4	20	28	39	3.7							
		2.5		178	3.2		212	4.2		266	4.9		312	5.6		360	3.5	0.70	19	27	38	4.0							
		2.8		195	3.5		227	4.9		312	5.6		360	6.3		411	4.2	1.4	20	28	39	4.3							
	3.5	227	4.2	266	5.6	360	6.3	411	7.0	453	5.6	2.8	18	24	38	5.9													
E13	Fluid Cap PFJB60150MX	1.8	36	235	1.8	45	235	2.5	68	300	3.9	100	410		141	1.8	0.20	15	20	29	3.0								
		2.1		260	2.1		260	2.8		330	4.2		445			2.8	0.20	15	20	30	3.4								
		2.5		300	2.5		300	3.2		355	4.6		480			2.8	0.30	15	20	30	4.0								
	Air Cap PAJB20027845MX	2.8		330	2.8		330	3.5		380	4.9		529			3.5	0.70	17	22	32	4.3								
		3.2		355	3.2		355	3.9		410	5.3		565			3.9	1.5	17	22	34	4.6								
		3.5		380	3.5		380	4.2		445	5.6		600			4.2	1.0	17	23	33	4.7								
	4.2	445	4.2	445	4.9	520	6.3	685		4.9	1.5	17	23	34	5.5														
E14	Fluid Cap PFJB80150MX	2.1	64	260	2.8	22.5	330	3.9	119	410	4.9	175	520		141	2.1	0.20	17	24	34	3.5								
		2.5		300	3.2		355	4.2		445	5.3		565			3.2	0.20	18	24	36	4.3								
		2.8		330	3.5		380	4.6		480	5.6		600			3.9	0.30	18	25	36	4.9								
	Air Cap PAJB20027845MX	3.2		355	3.9		410	4.9		520	6.0		640			4.9	0.70	18	25	36	5.5								
		3.5		380	4.2		445	5.3		565	6.3		685			4.9	1.5	20	25	38	5.5								
		4.2		445	4.9		520	5.6		600						5.3	1.0	18	25	38	5.8								
	4.9	520	5.6	600	6.3	685				5.6	1.5	20	25	38	6.1														
E15	Fluid Cap PFJB100150MX	2.8	102	330	3.5	36.0	380	4.6	192	480	5.6	280	600		141	2.8	0.20	19	25	36	4.6								
		3.2		355	3.9		410	4.9		520	6.0		640			3.9	0.20	20	25	37	4.9								
		3.5		380	4.2		445	5.3		565	6.3		685			4.6	0.30	20	25	37	5.2								
	Air Cap PAJB20027845MX	3.9		410	4.6		480	5.6		600						5.3	0.70	22	27	38	5.5								
		4.2		445	4.9		520	6.0		640						5.6	1.0	22	27	41	5.5								
		4.6		480	5.3		565	6.3		685						5.6	1.5	22	27	41	5.8								
	4.9	520	5.6	600						6.0	1.5	22	27	41	6.1														

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Pressure Feed (Wide Angle Round Spray Internal Mix)



SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																								
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID			SPRAY DIMENSIONS							
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)		
																	AIR	LIQUID						
W1	Fluid Cap PFB2050MX Air Cap PAJB6762070MX	0.60	5.3	10.2	1.1	8.1	13.3	1.5	8.1	16.4	2.4	8.9	22	3.1	10.5	24								
		0.70	4.3	12.2	1.3	7.0	15.0	1.8	6.6	21	2.7	8.1	26	3.4	9.7	28	0.70	0.70	14	18	23	1.5		
		0.85	3.0	14.2	1.4	6.4	17.0	2.1	4.9	25	3.0	6.4	30	3.9	7.8	36	1.4	1.5	15	19	24	1.8		
		1.0	1.7	17.0	1.5	5.5	19.0	2.4	3.2	29	3.2	4.9	34	4.2	6.1	42	1.8	2.0	16	20	25	2.1		
					1.7	4.5	22				3.4	4.2	37	4.6	4.4	47	3.0	3.0	16	20	26	2.7		
					1.8	3.5	24				3.5	3.4	40	4.9	2.8	54	3.9	4.0	19	23	30	4.0		
W2	Fluid Cap PFB40100MX Air Cap PAJB14063770MX	0.85	7.0	50	1.7	13.2	68	2.0	18.5	68	2.8	25	84	3.7	31	96								
		1.00	2.1	62	1.8	9.8	79	2.1	15.1	76	3.0	22	92	3.8	28	105	0.85	0.70	18	24	31	1.8		
								2.2	11.7	85	3.1	18.5	101	3.9	26	113	1.7	1.5	19	25	33	2.4		
											3.2	15.1	109	4.1	23	122	2.1	2.0	19	25	33	3.2		
											3.4	12.1	119	4.2	20	130	3.2	3.0	20	26	34	4.1		
											3.5	9.1	130	4.6	13.6	153	4.1	4.0	21	28	37	5.9		
W3	Fluid Cap PFB40100MX Air Cap PAJB12063560MX	1.1	12.3	40	2.2	16.3	62	2.7	21	69	4.2	19.3	100	5.6	22	130								
		1.3	9.9	45	2.5	12.1	71	3.0	16.3	78	4.6	14.6	113	6.0	17.6	142	1.5	0.70	15	19	23	2.7		
		1.4	7.9	50	2.8	8.9	79	3.2	12.3	86	4.9	10.8	124	6.3	14.0	152	3.0	1.5	16	20	24	4.6		
		1.5	6.1	54	3.0	7.6	83	3.4	10.7	91	5.3	8.1	135	6.7	11.4	163	3.4	2.0	16	20	24	5.5		
		1.7	4.9	58	3.1	6.4	87	3.5	9.3	94	5.6	6.2	146	7.0	9.1	174	5.3	3.0	18	22	25	7.3		
		1.8	3.9	62	3.2	5.5	91	3.9	6.4	105	6.0	4.9	157				6.3	4.0	19	24	30	9.4		
W4	Fluid Cap PFB60100MX Air Cap PAJB14063770MX	2.0	3.1	67	3.4	4.7	95	4.2	4.7	115	6.3	4.0	167											
		0.70	24	32	1.4	43	37	2.1	33	66	2.8	52	65	3.7	63	68								
		0.85	13.6	44	1.5	35	49	2.2	26	78	3.0	46	76	3.8	58	79	0.85	0.70	19	25	36	2.1		
		1.0	7.6	57	1.7	28	61	2.4	18.9	89	3.1	39	87	3.9	52	101	1.5	1.5	20	27	37	3.2		
					1.8	21	71	2.5	11.7	100	3.2	33	99	4.2	41	111	2.4	2.0	20	27	37	4.1		
											3.4	26	110	4.6	27	138	3.2	3.0	20	28	38	5.0		
W5	Fluid Cap PFB60100MX Air Cap PAJB14065270MX																							
W6	Fluid Cap PFB100150MX Air Cap PAJB18966270MX	1.3	36	85	2.1	57	116	3.1	53	156	4.2	64	197	5.6	74	245								
		1.5	29	102	2.4	51	130	3.2	50	163	4.9	51	230	6.0	68	260	2.0	0.70	20	25	33	5.5		
		1.8	23	117	2.7	45	143	3.4	47	170	5.6	40	265	6.3	62	280	3.0	1.5	20	27	34	6.4		
		2.0	19.7	125	3.0	39	157	3.5	45	177	6.0	34	285	6.7	56	295	3.9	2.0	22	28	37	8.2		
		2.1	16.7	133	3.2	33	170	3.9	38	194	6.3	28	300	7.0	51	315	6.0	3.0	23	29	38	9.1		
		2.3	14.0	142	3.5	28	185	4.6	25	230	6.7	22	320				6.3	4.0	24	32	41	10.4		
W6	Fluid Cap PFB100150MX Air Cap PAJB18966270MX	2.4	11.4	149	4.2	13.6	220	4.9	18.5	245	7.0	17.8	335											
		1.7	25	156	3.0	39	230	3.4	50	250	4.6	62	320	6.0	93	395								
		1.8	19.7	167	3.1	33	240	3.5	43	260	4.9	47	345	6.3	77	425	2.0	0.70	24	33	46	5.5		
		2.0	15.1	178	3.2	27	255	3.7	41	275	5.3	36	375	6.7	62	460	3.2	1.50	25	34	47	6.4		
		2.1	11.4	193	3.4	23	265	3.9	27	300	5.6	26	405	7.0	52	495	3.9	2.00	28	37	51	7.3		
		2.3	7.6	205	3.5	18.5	280	4.1	23	310	6.0	18.9	435				5.3	3.00	29	38	53	7.9		
						3.7	14.8	290	4.2	18.9	320	6.3	13.6	460		6.3	4.00	33	42	58	9.8			
									4.4	15.9	335													
						52	2.4	10.0	70	2.6	13.3	90	2.5	16.6										

Air Atomizing Nozzles

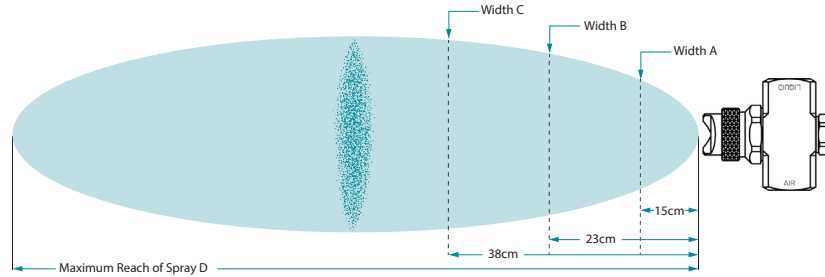
1/4" Spray Set-Ups - Pressure Feed (Deflected Flat Fan & Extra Wide Hollow Cone)

DEFLECTED FLAT FAN - PIPE SIZES NPT (F) 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID		
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM
K1	Fluid Cap PFJB28150MX Air Cap PAJB18911075MX	0.4	11.0	45	1.1	14.5	79	1.5	15.7	96	2.1	20	114	2.7	26	133
		0.6	9.5	54	1.3	13.2	86	1.7	14.3	104	2.2	19.2	121	3.2	22	160
		0.7	7.6	65	1.4	11.8	95	1.8	12.9	112	2.7	15.8	146	3.8	17.7	186
		0.8	5.7	77	1.5	10.0	103	2.1	9.8	130	3.1	11.8	172	4.4	13.1	230
					1.7	8.7	113	2.2	8.3	142	3.2	10.3	183	4.6	10.2	250

EXTRA WIDE HOLLOW CONE - PIPE SIZES NPT (F) 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID		
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM
H1	Fluid Cap PFJB60150MX Air Cap PAJB189662160HCMX	1.4	15.1	69	2.8	19.5	142	3.5	21	185	4.2	48	210	6.0	45	340
		1.5	10.6	77	3.0	16.1	153	3.7	17.6	196	4.6	37	240	6.3	37	375
		1.7	7.6	84	3.1	13.2	165	3.8	14.8	210	4.9	28	275	6.7	30	405
		1.8	5.7	93	3.2	10.6	177	3.9	12.5	220	5.6	15.5	340	7.0	24	440
		2.0	4.2	103	3.4	8.3	188	4.2	8.1	245	6.3	7.8	425			

Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Siphon Feed (Flat Spray Internal Mix)

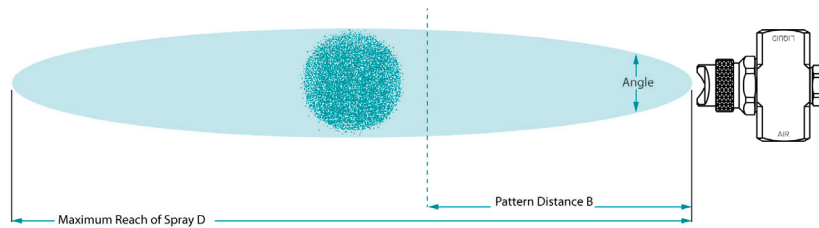


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	ATOMIZING AIR		LITERS PER HOUR AT								SPRAY DIMENSIONS AT				
				GRAVITY HEAD			SIPHON HEIGHT					20 CM SIPHON HEIGHT				
		AIR (BAR)	LPM	45 (CM)	30 (CM)	15 (CM)	10 (CM)	20 (CM)	30 (CM)	60 (CM)	90 (CM)	AIR (BAR)	"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)
F1	Fluid Cap PFJB2850MX	0.70	28	1.3	1.2	1.1	1.0	0.95	0.83	0.64	0.49	0.70	20	26	38	2.1
	Air Cap PAJB73420MX	1.5	43	1.2	1.1	1.0	0.90	0.86	0.78	0.66	0.54	1.5	21	29	38	2.1
		2.0	50	0.82	0.76	0.68	0.57	0.50				2.0	23	30	38	1.8
F3	Fluid Cap PFJB35100MX Air Cap PAJB120432MX	1.5	56	3.7	3.5	3.3	2.9	2.8	2.5	2.3	2.1	1.5	23	32	38	2.7
		2.0	65	3.4	3.3	3.1	2.8	2.7	2.6	2.4	2.2	2.0	24	34	42	2.7
		3.0	87	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7	3.0	27	37	46	3.0
		4.0	110	1.9	1.8	1.6	1.5	1.3	1.2			4.0	28	39	48	2.7
F5	Fluid Cap PFJB40100MX Air Cap PAJB122435MX	1.5	68	5.1	4.8	4.5	3.8	3.7	3.5	3.0	2.4	1.5	19	23	27	3.4
		2.0	78	4.9	4.7	4.4	3.6	3.4	3.2	2.9	2.3	2.0	20	25	28	3.4
		3.0	103	3.4	3.2	3.0	2.2	2.0	1.7			3.0	22	27	30	3.0
		3.5	117	2.2	2.0	1.7										
F7	Fluid Cap PFJB40100MX Air Cap PAJB122440MX	1.5	63	7.6	7.2	6.6	5.7	5.4	5.1	4.6	3.7	1.5	17	22	27	3.4
		2.0	73	7.6	7.3	6.8	5.9	5.7	5.5	5.0	4.2	2.0	18	23	29	3.4
		3.0	96	6.4	6.1	5.7	5.0	4.5	4.1	3.3		3.0	20	27	33	3.4
		3.5	110	4.2	3.7	3.2	2.6									

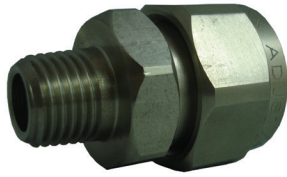
Air Atomizing Nozzles

Specifications - 1/4" Spray Set-Ups - Siphon Feed (Round Spray External Mix)



SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"															
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	ATOMIZING AIR		LITERS PER HOUR AT								SPRAY DIMENSIONS AT			
				GRAVITY HEAD				SIPHON HEIGHT				20 CM SIPHON HEIGHT			
		AIR (BAR)	LPM	45 (CM)	30 (CM)	15 (CM)	10 (CM)	20 (CM)	30 (CM)	60 (CM)	90 (CM)	AIR (BAR)	ANGLE °	"B" (CM)	"D" (M)
R1	Fluid Cap PFJB1650MX	0.70	11.3	1.5	1.3	1.1	0.87	0.68	0.53			0.70	18	28	1.8
		1.5	17.0	1.8	1.7	1.5	1.3	1.2	1.1	0.62		1.5	18	28	1.9
	Air Cap PAJB64MX	3.0	28	2.1	1.9	1.7	1.5	1.4	1.3	1.1	0.76	3.0	18	30	2.3
		4.0	36	2.2	2.0	1.8	1.6	1.5	1.4	1.2	0.87	4.0	18	36	2.6
R4	Fluid Cap PFJB2050MX	0.70	13.3	2.4	2.1	1.7	1.5	1.2	0.79			0.70	18	30	2.1
		1.5	20	2.8	2.6	2.4	2.1	1.9	1.6	0.91		1.5	18	33	2.3
	Air Cap PAJB64MX	3.0	32	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	3.0	18	38	2.6
		4.0	41	3.7	3.4	3.3	3.1	2.9	2.7	2.1	1.5	4.0	19	43	3.0
R6	Fluid Cap PFJB2050MX	0.70	23	2.5	2.3	2.0	1.6	1.4	1.1			0.70	18	30	2.4
		1.5	36	2.9	2.8	2.5	2.2	2.0	1.7	0.89		1.5	18	33	2.7
	Air Cap PAJB70MX	3.0	58	3.4	3.3	3.2	2.9	2.8	2.5	1.9	1.2	3.0	19	38	3.4
		4.0	74	3.7	3.6	3.5	3.4	3.3	3.0	2.5	2.0	4.0	20	43	4.0
R8	Fluid Cap PFJB2850MX	0.70	19	4.5	4.0	3.4	2.1	1.8	1.4			0.70	21	38	3.0
		1.5	31	5.3	4.9	4.4	3.5	2.9	2.7	1.8		1.5	21	41	3.4
	Air Cap PAJB70MX	3.0	50	6.0	5.6	5.0	4.4	4.0	3.4	2.4	1.2	3.0	21	46	4.0
		4.0	65	5.7	5.4	5.0	4.2	3.9	3.5	2.8	1.9	4.0	22	51	4.6
R11	Fluid Cap PFJB60100MX	1.5	58	22	19.9	16.3	12.3	10.5	8.3	2.8		1.5	17	46	3.7
		3.0	88	25	23	19.5	16.7	14.2	11.5	6.4	2.8	3.0	18	51	4.3
	Air Cap PAJB120MX	4.0	111	26	24	21	18.4	15.7	12.9	7.9	4.5	4.0	18	53	4.9
		5.6	147	26	24	22	19.7	17.0	14.6	9.8	6.1	5.6	19	58	5.5
R12	Fluid Cap PFJB100150MX	2.0	144				27	22	16.8			2.0	20	51	6.7
		3.0	190				30	26	21			3.0	20	53	7.0
	Air Cap PAJB180MX	4.0	240		43	40	31	28	23	11.0		4.0	21	58	7.6
		5.6	315	44	42	39	31	28	24	16.7	8.3	5.6	22	63	8.2



ADJUSTABLE BALL JOINTS



FLEXIBLE HOSE

Adjustable Ball Joints

Adjustable Ball Joints allow for precision positioning of a spray nozzle without the hassle of installing additional piping. They are available in Brass, 303SS and 316SS.

INLET SIZE (NPT)	OUTLET SIZE (NPT)	AVAILABLE MATERIALS		
		BRASS	303SS	316SS
1/8"	1/8"	ADJ1/8X1/8	ADJS1/8X1/8	ADJSX1/8X1/8
1/4"	1/8"	ADJ1/4X1/8	ADJS1/4X1/8	ADJSX1/4X1/8
	1/4"	ADJ1/4X1/4	ADJS1/4X1/4	ADJSX1/4X1/4
3/8"	1/4"	ADJ3/8X1/4	ADJS3/8X1/4	ADJSX3/8X1/4
	3/8"	ADJ3/8X3/8	ADJS3/8X3/8	ADJSX3/8X3/8
1/2"	1/4"	ADJ1/2X1/4	ADJS1/2X1/4	ADJSX1/2X1/4
	3/8"	ADJ1/2X3/8	ADJS1/2X3/8	ADJSX1/2X3/8
	1/2"	ADJ1/2X1/2	ADJS1/2X1/2	ADJSX1/2X1/2
3/4"	3/4"	ADJ3/4X3/4	ADJS3/4X3/4	ADJSX3/4X3/4

Note: : For BSPT connections, please put a 'B' in front of each connection. (eg. ADJB1/8XB1/8)

Stainless Steel Flexible Hose

Stainless Steel Flexible Hoses are available in 6", 12" or 18" lengths. Our Stainless Steel Flexible Hoses are great for positioning nozzles. The perfect solution for adding a misting nozzle to your trim system to prevent pulp build-up. 1/4" MNPT x 1/4" FNPT connections.

6" = 025X06PWSS15

12" = 025X12PWSS15

18" = 025X18PWSS15

Inches	Millimeters	Inches	Millimeters
0.010	0.25	0.030	0.76
0.012	0.30	0.035	0.89
0.015	0.38	0.040	1.02
0.018	0.46	0.045	1.14
0.020	0.51	0.050	1.27
0.023	0.58	0.060	1.52
0.025	0.64	0.070	1.78
0.028	0.71	0.080	2.03

Tips and Pointers

1. The most common reason for trim nozzle failure is poor water quality. Proper water filtering is critical for optimum nozzle performance.
2. The most effective trim nozzle set-up is realized by aiming the stream slightly toward the outside of the wire and slightly toward the dry end of the machine.
3. To minimize sweating on the pipe, consider using trim water at stock temperature.
4. Extreme care must be taken with application of teflon tape when changing a nozzle. To avoid plugging the small orifice with teflon tape, do not apply tape over the end of the last thread.

Contact Us for Flow Information.

Trim Water Supply Systems



Over the years, many customers have come to us with problems of inconsistent water supply to their trim nozzles.

Common complaints are poorly filtered water, or unstable pressure due to their trim water being tied into the same water source used to supply other parts of the machine.

Our Trim Water Supply Systems provide a clean, reliable water supply for your trim nozzles.

Available in single or duplex versions (for redundancy) we offer a number of options around filtration, storage tanks and deaeration, all from the name that's been synonymous with edge trimming for over 50 years.

Please contact us for more information.

Gatewood

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Phone: 503-648-8389
Fax: 503-648-8974
Email: info@trimnozzle.com
www.trimnozzle.com**

*We have a wide variety of Pulp & Paper Spray Nozzles
Call for more information.*



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