

Gatewood

Leaders in Spray Nozzles for the Paper Industry

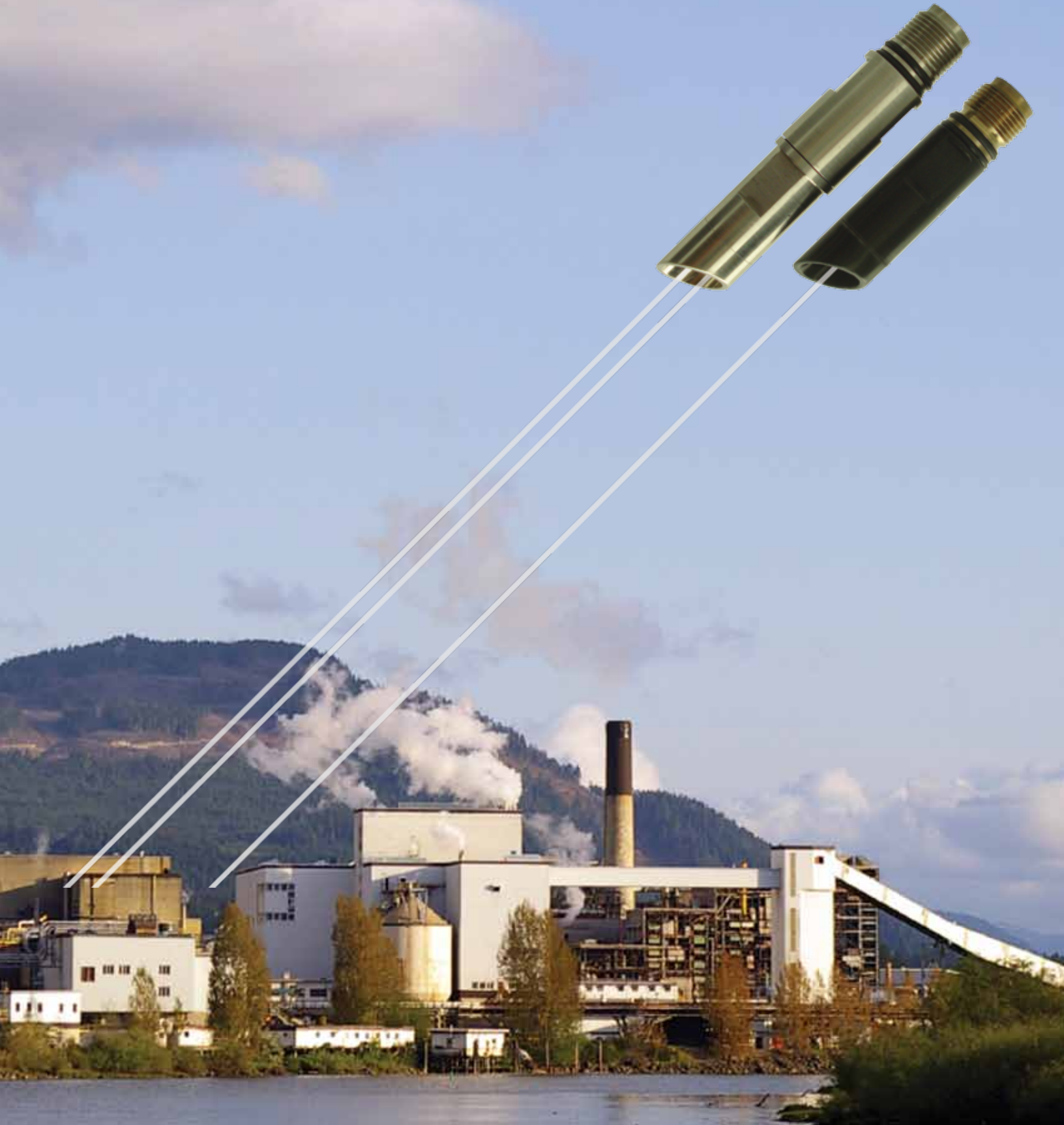
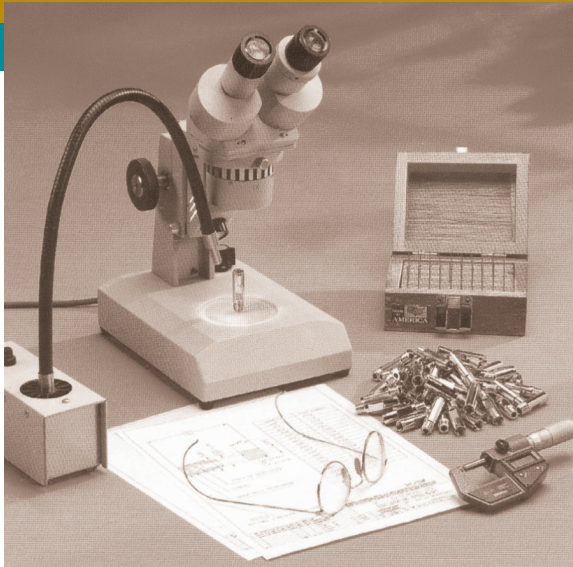


Table of Contents

Leaders in Spray Nozzles for the Paper Industry

About Us	3
Trim Nozzles.....	4 - 9
Ruby Orifice.....	4 - 5
Stainless Steel Orifice.....	6 - 7
Pyrex Orifice	8
Ceramic Orifice.....	8
Adapters & Filter Screens	9
Edge Trimming Machines.....	10
High Pressure Cleaning Nozzles.....	11 - 15
Specialty Shower Nozzles	16 - 20
Disc-Type Fan Nozzles	16
Flush Mounted Shower Nozzles	17 - 18
Self-Cleaning Nozzles.....	19 - 20
Flat Fan Spray Nozzles.....	21 - 40
Threaded Flat Spray Nozzles.....	21 - 29
Quick-Connect Flat Fan Nozzles	30 - 34
Flat Spray Tips	35
Low Impact Fan Nozzles	36 - 37
High Impact Fan Nozzles	38 - 39
Full Cone Spray Nozzles	40 - 41
Hollow Cone Spray Nozzles.....	42 - 43
Hydraulic Atomizing Nozzles.....	44
Air Atomizing Nozzles.....	45 - 56
Flexible Solutions.....	57
Trim Water Supply Systems	58



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.

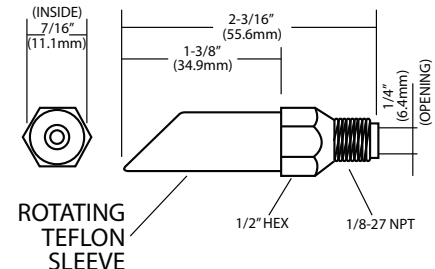
See Page 7 for Stream Details and Page 9 for special Gatewood Thread Adapters.

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

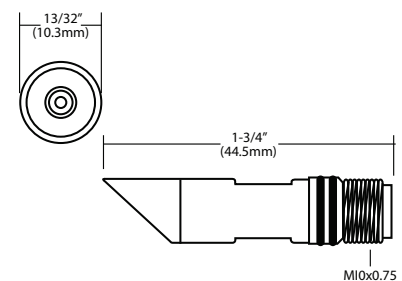


Single Ruby Tip in Stainless Steel with Stainless Steel Drip Shield



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

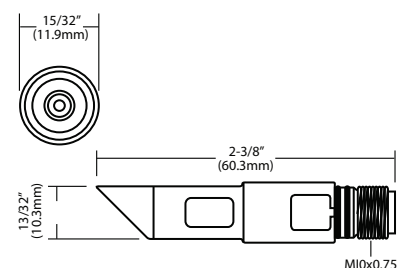


Single Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



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



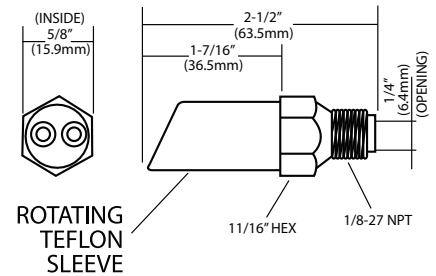
Ruby Tips - Double 10° Stream & Parallel Stream

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.

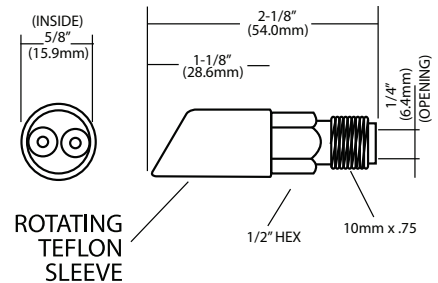


Double Parallel Stream Ruby Tip in Stainless Steel Shell with Teflon® Drip Shield



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.

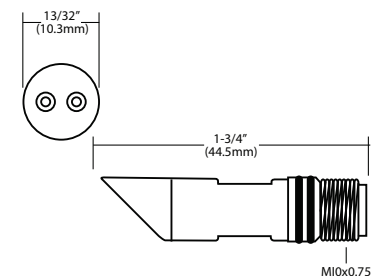


Double Parallel Stream Ruby Tip in Stainless Steel Shell with Stainless Steel Drip Shield



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

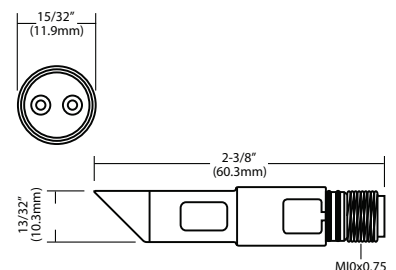


Double Parallel Stream Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



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.

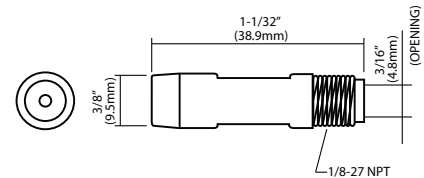
See Page 9 for special Gatewood Thread Adapters.

Stainless Steel Tips - Single Stream

Single Stainless Tip in Brass Long Shell



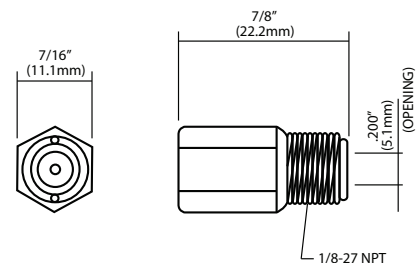
Size	Part#	Size	Part#
.010" (0.25mm)	S104	.035" (0.89mm)	S354
.012" (0.30mm)	S124	.037" (0.94mm)	S374
.015" (0.38mm)	S154	.040" (1.02mm)	S404
.018" (0.46mm)	S184	.042" (1.07mm)	S424
.020" (0.51mm)	S204	.045" (1.14mm)	S454
.023" (0.58mm)	S234	.050" (1.28mm)	S504
.025" (0.64mm)	S254	.060" (1.52mm)	S604
.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



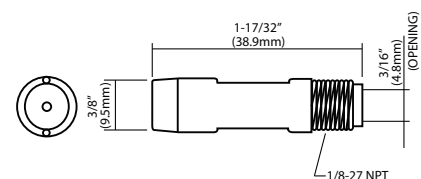
Size	Part#	Size	Part#
.010" (0.25mm)	S108SS	.035" (0.89mm)	S358SS
.012" (0.30mm)	S128SS	.037" (0.94mm)	S378SS
.015" (0.38mm)	S158SS	.040" (1.02mm)	S408SS
.018" (0.46mm)	S188SS	.042" (1.07mm)	S428SS
.020" (0.51mm)	S208SS	.045" (1.14mm)	S458SS
.023" (0.58mm)	S238SS	.050" (1.28mm)	S508SS
.025" (0.64mm)	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		



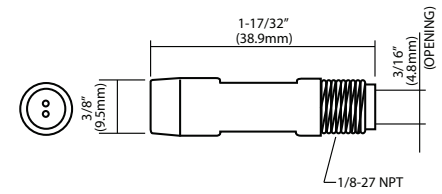
Stainless Steel Tips - Double 10° Stream & Parallel Stream

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

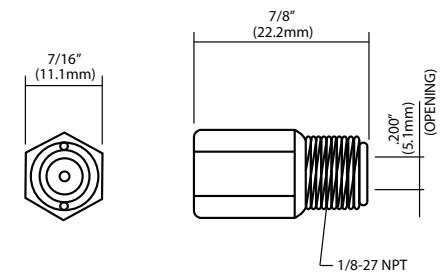


Double Stainless Tips in Stainless Steel Short High Pressure Hex Shell



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

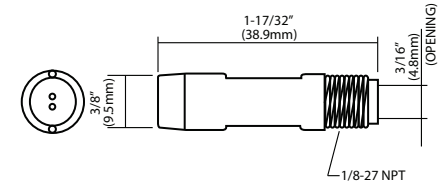


Double Stainless Tips in Stainless Steel Long High Pressure Shell

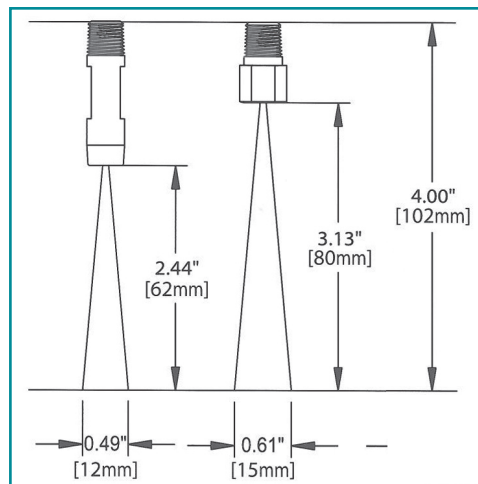


Size	10° Stream	Parallel Stream
.010" x 2 (0.25mm)	D1011SS	PRL1011SS
.012" x 2 (0.30mm)	D1211SS	PRL1211SS
.015" x 2 (0.38mm)	D1511SS	PRL1511SS
.018" x 2 (0.46mm)	D1811SS	PRL1811SS
.020" x 2 (0.51mm)	D2011SS	PRL2011SS
.023" x 2 (0.58mm)	D2311SS	PRL2311SS
.025" x 2 (0.64mm)	D2511SS	PRL2511SS
.015" x .020"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

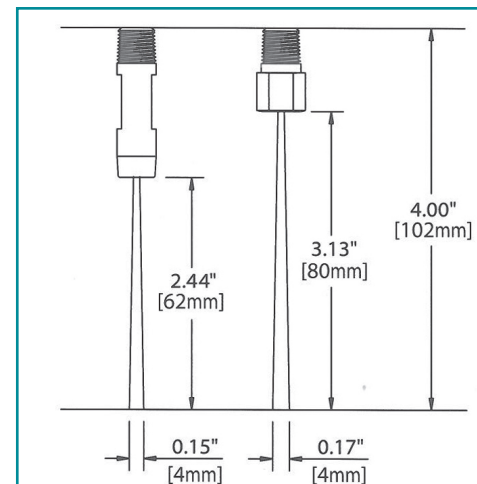
Any Combination of Sizes are Available



Double 10° Stream Tip Details



Parallel Stream Tip Details

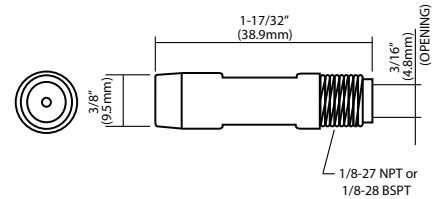


NOTE: On stream detail drawings - all dimensions may vary slightly.



Gatewood's most widely used nozzle comes equipped with a reliable Pyrex tip. This guarantees a smooth, constant 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



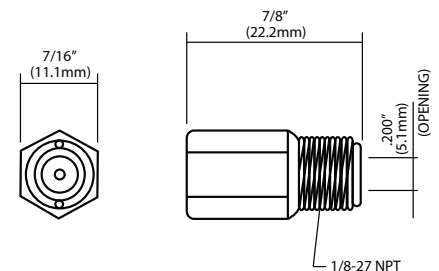
The Gatewood Ceratip is a long lasting, precision, high pressure nozzle with an extremely hard ceramic tip. This tough, high quality nozzle was specially designed by Gatewood at the request of several large paper mills in need of a nozzle to withstand high pressure while maintaining the highest quality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



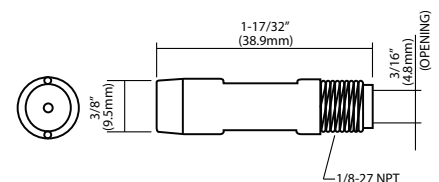
Size	Part#
.010" (0.25mm)	C108SSS
.015" (0.38mm)	C158SSS
.020" (0.51mm)	C208SSS
.025" (0.64mm)	C258SSS
.030" (0.76mm)	C308SSS
.035" (0.89mm)	C358SSS
.040" (1.02mm)	C408SSS
.050" (1.27mm)	C508SSS



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



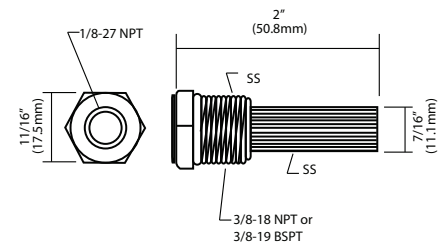
Part #	Description
M10FSS	10mm x 0.75 Female to 1/8 NPT Male Stainless Steel Note: Adapts Gatewood Double Parallel Stream Ruby Nozzle to 1/8 NPT Male
M10MSS	1/8 NPT Female to 10mm x .75 Male Stainless Steel Note: Adapts All Gatewood 1/8 NPT Nozzles to 10mm x 0.75 Female

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

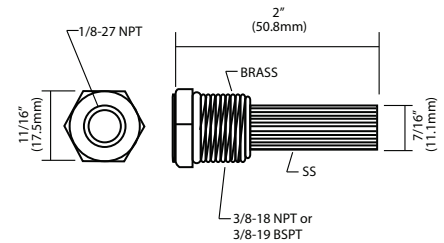


Filter Screen with Brass Bushing

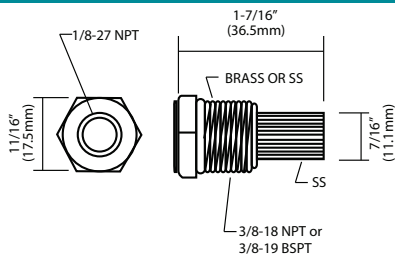


Size	Part#
40 Mesh	A64
50 Mesh	A65
60 Mesh	A66
100 Mesh	A6100R
40 Mesh BSPT	A74
50 Mesh BSPT	A75
60 Mesh BSPT	A76
100 Mesh BSPT	A7100R

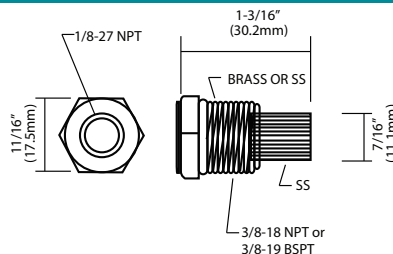
Shown with Standard Screen



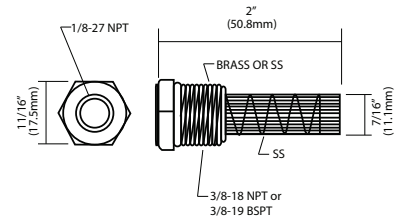
Other Screen Options



Short Screen		
Size	Brass	SS
50 Mesh	A65SHRT	SA65SHRT



Extra Short Screen		
Size	Brass	SS
50 Mesh	A65SHSH	SA65SHSH



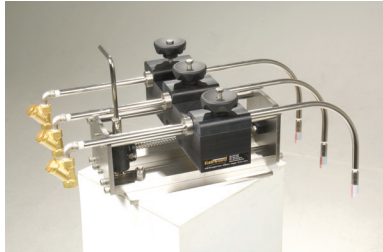
Reinforced Screen		
Size	Brass	SS
40 Mesh	A64R	SA64R
50 Mesh	A65R	SA65R
600 Mesh	A66R	SA66R
100 Mesh	A6100R	SA6100R
200 Mesh	A6200R	SA6200R

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

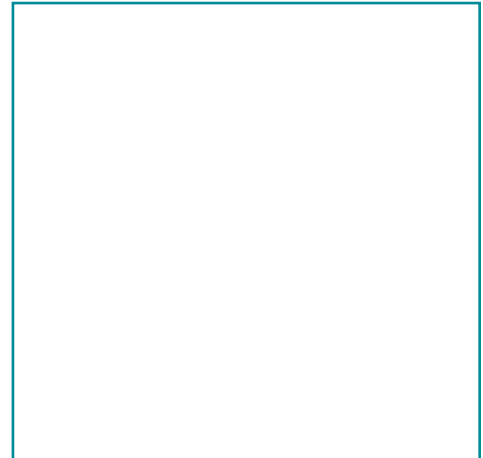


- Precise horizontal adjustment through and 8-1/4" (210mm) range.
- 1/2" diameter squirt pipes accept 1/8" NPT trim nozzles directly into the outlet end.
- Easy filter screening access at the inline end.
- Rugged machine
- Easy to install and operate
- Maximum adjustability within a compact size
- **SQUIRT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

Top View



End View



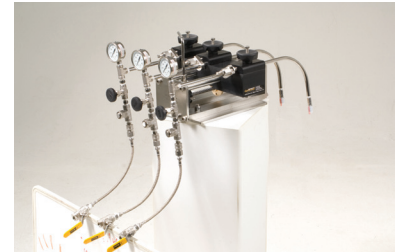
Side View



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



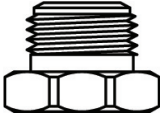
Operator Safety - Our Number One Motivation for the Design!

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

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"

NDL NDL "A" NDL "B"

DIMENSIONAL DATA

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"

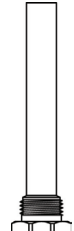
DIMENSIONAL DATA



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	•

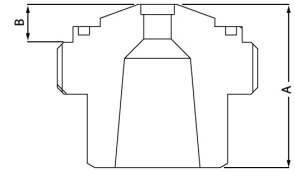
High Pressure Cleaning Nozzles

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

Inlet Connection
M30=M30 (Fits 1½")
M32=M32

E

Insertion Length
Blank=Standard
E=Extended Insertion
(Fits Spraying Systems
Shower Pipes)

R

Orifice Material
R=Ruby Only

-SHWR

Nozzle Type
SHWR=Shower

40

Capacity Size
See Specs in
Table Below

A

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

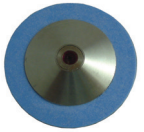
Disc-Type



SHWR

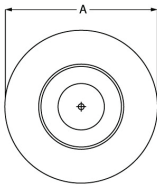


SHWR - "A"



SHWR - "G"

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)




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



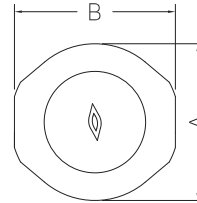
SHWR



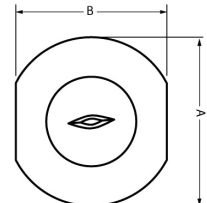
SHWRK

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

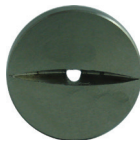
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)					CAPACITY SIZE	EQUIV. ORIFICE DIAMETER (MM)	Spray Angle @ 4BAR				
1.5	3	7	20	55			15	30	45	60	75
0.64	0.91	1.4	2.3	3.9	02	1.0	*	*	*	*	*
0.92	1.3	2.0	3.4	5.6	03	1.2	*	*	*	*	*
1.2	1.7	2.6	4.4	7.3	04	1.5	*	*	*	*	*
1.7	2.4	3.7	6.2	10.3	06	1.8	*	*	*	*	*
2.2	3.1	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



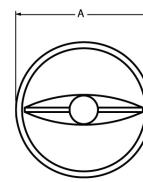
BT



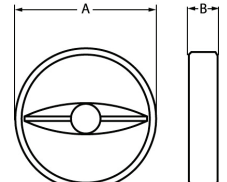
BN

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		80		•	
9.1	12.9	15.8	18.2	20	22	24	29	40	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		85	6.4	•	
1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8	43	08	1.9	•	
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4		13	2.4	•	•
0.75	1.10	1.30	1.50	1.70	1.80	2.00	2.40	50	033	1.2	•	
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	•	
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	58	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	60	054	1.6	•	

Flush Mounted Shower Nozzles

BT & BN



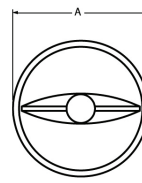
BT



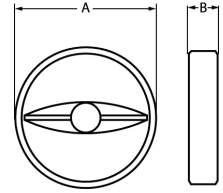
BN

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**

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 - 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		016	0.8	•	
1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9	90	054	1.6	•	•
3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4		13	2.4	•	•



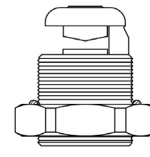
LD



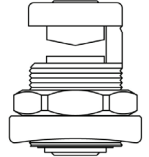
PN

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

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	•	•
1.7	2.4	2.7	3.2	3.6	3.9	4.3	5.3	40	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



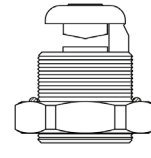
LD



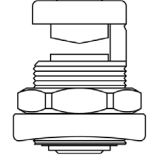
PN

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

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 machine flat.

How to Order

Example: **PN0006SXXMX**

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

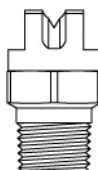
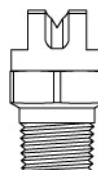
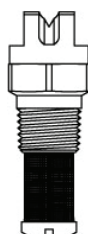
Nozzle Type

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	80	50	•	•
1.4	2.0	2.3	2.7	3.0	3.2	3.6	4.4		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	U	SX	JB	25	70	MX
Inlet Connection	Nozzle Type	Material	Nozzle Type	Spray Angle	Capacity Size	Nozzle Type
1/8 = 1/8" MNPT		Blank = Brass		See Specs in	See Specs in	
1/4 = 1/4" MNPT		S = 303SS		Tables	Tables	
3/8 = 3/8" MNPT		SX = 316SS				
1/2 = 1/2" MNPT						
3/4 = 3/4" MNPT						

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

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**



Inlet Connection
 $\frac{1}{8}$ = $\frac{1}{8}$ " MNPT
 $\frac{1}{4}$ = $\frac{1}{4}$ " 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. B1/4VVFSJB6058MX)

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**

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 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**

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 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	•	•	•	
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**



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**



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 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



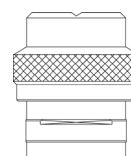
QUJBMX



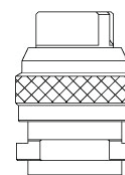
QVVJBMX

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**

QU	S	JB	95	50	MX
Nozzle Type	Material S = 303SS	Nozzle Type	Spray Angel See Specs in Tables	Capacity Size See Specs in Tables	Nozzle Type

Example: **QVVF^SJB11002MX**

QVV	F	S	JB	95	50	MX
Nozzle Type	Optional Strainer Blank = No Strainer F = Strainer	Material S = 303SS	Nozzle Type	Spray Angle See Specs in Tables	Capacity Size See Specs in Tables	Nozzle Type

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		
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°

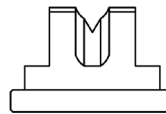
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
0.4	0.7	1.5	2	3	4	6	7	15	20			QVVJBMX	QUJBMX	303SS	
0.14	0.19	0.28	0.32	0.39	0.46	0.56	0.60	0.88	1.0	01	0.66	QVVJBMX		•	•
0.22	0.29	0.42	0.48	0.59	0.68	0.84	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	•	



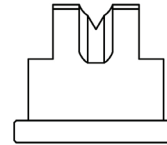
TPJBMX

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)

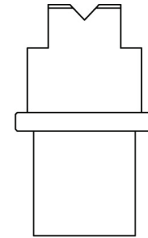
DIMENSIONAL DATA



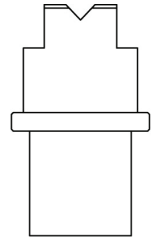
For Capacity
017 to 08



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		*	*	*	*	*	*		*	*		
		0.018	0.022	0.025	0.031	0.035	0.040	0.06	0.07	0.09	0025	0.33		*	*	*	*	*	*		*	*		
		0.023	0.029	0.033	0.040	0.047	0.052	0.07	0.09	0.12	0033	0.38	*	*	*	*	*	*	*	*	*	*		
		0.035	0.043	0.050	0.06	0.07	0.08	0.11	0.14	0.18	0050	0.46	*	*	*	*	*	*	*	*	*	*		
	0.033	0.050	0.060	0.067	0.08	0.09	0.11	0.15	0.18	0.24	0067	0.53	*	*	*	*	*	*	*	*	*	*	*	
	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.22	0.27	0.35	01	0.66	*	*	*	*	*	*	*	*	*	*	*	
	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.53	015	0.81	*	*	*	*	*	*	*	*	*	*	*	
0.07	0.10	0.14	0.17	0.20	0.25	0.28	0.32	0.45	0.55	0.71	02	0.89	*	*	*	*	*	*	*	*	*	*	*	
0.11	0.15	0.21	0.26	0.30	0.37	0.42	0.47	0.67	0.82	1.1	03	1.1	*	*	*	*	*	*	*	*	*	*	*	
0.14	0.20	0.28	0.35	0.40	0.49	0.57	0.63	0.89	1.1	1.4	04	1.3	*	*	*	*	*	*	*	*	*	*	*	
0.18	0.25	0.35	0.43	0.50	0.61	0.71	0.79	1.1	1.4	1.8	05	1.4	*	*	*	*	*	*	*	*	*	*	*	
0.21	0.30	0.42	0.52	0.60	0.74	0.85	0.95	1.3	1.6	2.1	06	1.6	*	*	*	*	*	*	*	*	*	*	*	
0.28	0.40	0.57	0.69	0.80	0.98	1.1	1.3	1.8	2.2	2.8	08	1.8	*	*	*	*	*	*	*	*	*	*	*	
0.35	0.50	0.71	0.87	1.0	1.2	1.4	1.6	2.2	2.7	3.5	10	2.0	*	*	*	*	*	*	*	*	*	*	*	
0.42	0.60	0.85	1.0	1.2	1.5	1.7	1.9	2.7	3.3	4.2	12	2.2	*	*	*	*	*	*	*	*	*	*	*	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	5.3	15	2.5	*	*	*	*	*	*	*	*	*	*	*	
0.71	1.0	1.4	1.7	2.0	2.4	2.8	3.2	4.5	5.5	7.1	20	2.8	*	*	*	*	*	*	*	*	*	*	*	
0.88	1.3	1.8	2.2	2.5	3.1	3.5	4.0	5.6	6.8	8.8	25	3.1			*		*			*	*	*	*	
1.1	1.5	2.1	2.6	3.0	3.7	4.2	4.7	6.7	8.2	10.6	30	3.4	*	*	*	*	*	*	*	*	*	*	*	
1.4	2.0	2.8	3.5	4.0	4.9	5.7	6.3	8.9	11.0	14.1	40	3.8	*	*	*	*	*	*	*	*	*	*	*	
1.8	2.5	3.5	4.3	5.0	6.1	7.1	7.9	11.2	13.7	17.7	50	4.4		*	*	*	*	*	*	*	*	*	*	
2.1	3.0	4.2	5.2	6.0	7.3	8.5	9.5	13.4	16.4	21.0	60	4.8		*	*	*	*	*	*	*	*	*	*	
2.5	3.5	4.9	6.1	7.0	8.6	9.9	11.1	15.7	19.2	25.0	70	5.2		*	*	*	*	*	*	*	*	*	*	

Low Impact Nozzles

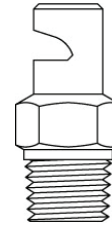
Threaded Deflected Flat Fan Nozzles



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**

1/4	K	S	JB	7.5	MX
Inlet Connection	Nozzle Type	Material	Nozzle Type	Capacity Size	Nozzle Type
1/8 = 1/8" MNPT		Blank = Brass		See Specs in	
1/4 = 1/4" MNPT		S = 303SS		Tables	
3/8 = 3/8" MNPT		SX = 316SS			
1/2 = 1/2" MNPT					
3/4 = 3/4" MNPT					

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

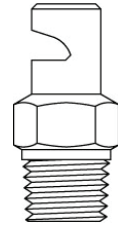
Threaded Deflected Flat Fan Nozzles



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

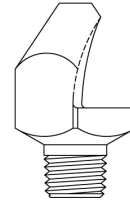
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)									SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS		
0.2	0.4	0.5	0.7	1	1.5	2	3	4				1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
6.1	8.6	9.7	11.4	13.7	16.8	19.3	24.0	27.0	115	30	4.6			KJBMX			•	•	•
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**

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		Blank = Brass		See Specs in Tables	See Specs in Tables	
1/4 = 1/4" MNPT		S = 303SS				
3/8 = 3/8" MNPT		SX = 316SS				
1/2 = 1/2" MNPT						
3/4 = 3/4" MNPT						

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

Specifications - Spray Angles 15° to 35°

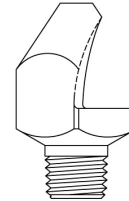
LITERS PER MINUTE @ PRESSURE SHOWN (BAR)								SPRAY ANGLE AT 3 BAR	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (MM)	NOZZLE LENGTH A (MM)	ANGLE OF DEFLECTION	NOZZLE TYPE PIPE SIZE NPT (M)					AVAILABLE MATERIALS		
1.0	1.5	2	3	4	6	7	10						1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
2.8	3.2	3.9	4.6	5.6	6.0	7.2		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**



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. B1/4PSJB3520MX)

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													
11.4	14.0	16.1	19.7	23	28	30	36	40	40	3.8	60.5	35			PJBMX			•	•	•
13.7	16.8	19.3	24	27	34	36	43		50	4.2	63.5	33			PJBMX			•	•	•
16.0	19.5	23	28	32	39	42	50		60	4.6	72	33			PJBMX			•	•	•
18.2	22	26	32	36	45	48	58		70	5.0	75.5	29			PJBMX			•	•	•
21	25	29	36	41	50	54	65		80	5.3	77	26			PJBMX			•	•	•
23	28	32	39	46	56	60	72		90	5.6	77	28			PJBMX			•	•	•
28	35	40	49	57	70	75	90		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"

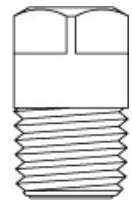
GGJBMX - DIMENSIONAL DATA



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"

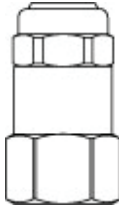
HHJBMX - DIMENSIONAL DATA



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**



Inlet Connection

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



Nozzle Style

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



Material

Blank = Brass
S=303SS
SX = 316SS



Nozzle Type



Capacity Size
See Specs
in Table



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**



Inlet Connection

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



Nozzle Style

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



Material

Blank = Brass
S=303SS
SX = 316SS



Nozzle Type



Capacity Size
See Specs
in Table



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



GJBMX

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	GJBMX	GGJBMX	HHJBMX	•	•	•
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	GJBMX	GGJBMX	HHJBMX	•	•	•
0.76	1.1	1.2	1.5	1.7	2.0	2.2	2.6	43	50	46		2	1.2	1.0	GJBMX	GGJBMX	HHJBMX	•	•	•
1.1	1.6	1.9	2.2	2.5	3.1	3.3	3.9	52	65	59		3	1.5	1.0	GJBMX	GGJBMX	HHJBMX	•	•	•
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	GJBMX	GGJBMX	HHJBMX	•	•	•
1.9	2.7	3.1	3.7	4.2	5.1	5.5	6.5	52	65	59		5	2.0	1.3	GJBMX	GGJBMX	HHJBMX	•	•	•
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	GJBMX	GGJBMX	HHJBMX	•	•	•
3.8	5.4	6.2	7.4	8.5	10.2	11.0	13.0	58	67	61		10	3.2	1.6	GJBMX	GGJBMX	HHJBMX	•	•	•
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	GJBMX	GGJBMX	HHJBMX	•	•	•
5.7	8.1	9.3	11.2	12.7	15.4	16.5	19.4	64	67	61		15	3.6	2.4	GJBMX	GGJBMX	HHJBMX	•	•	•
8.4	11.9	13.6	16.4	18.7	23	24	28	87	90	82		22	4.5	2.8	GJBMX	GGJBMX	HHJBMX	•	•	•
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	GJBMX	GGJBMX		•	•	•
9.5	13.5	15.4	18.6	21	26	27	32	64	67	61		25	4.6	3.2	GJBMX	GGJBMX	HHJBMX	•	•	•
12.2	17.3	19.8	24	27	33	35	41	72	75	68		32	5.2	3.6	GJBMX	GGJBMX		•	•	•
15.2	22	25	30	34	41	44	52	88	91	83		40	6.2	3.6	GJBMX	GGJBMX	HHJBMX	•	•	•

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	GJBMX	GGJBMX		•	•	•
1.1	1.3	1.5	1.7	2.1	2.4	2.9		120	102		2.8W	1.6	1.0	GJBMX	GGJBMX	HHJBMX	•	•	•
1.6	1.9	2.3	2.7	3.2	3.7	4.4		120	102		4.3W	2.0	1.0	GJBMX	GGJBMX	HHJBMX	•	•	•
2.1	2.5	3.0	3.5	4.2	4.8	5.7		120	102		5.6W	2.4	1.0	GJBMX	GGJBMX		•	•	•
3.0	3.6	4.3	4.9	6.0	6.8	8.2		120	102		8W	2.4	1.3	GJBMX	GGJBMX	HHJBMX	•	•	•
3.8	4.5	5.4	6.2	7.4	8.5	10.2	112	120	103	1/4	10W	2.8	1.3	GJBMX	GGJBMX		•	•	•
4.6	5.4	6.5	7.4	8.9	10.2	12.3	114	120	103		12W	3.2	1.3	GJBMX	GGJBMX		•	•	•
5.3	6.3	7.6	8.6	10.4	11.9	14.3	114	120	103		14W	3.6	1.6	GJBMX	GGJBMX	HHJBMX	•	•	•
6.5	7.6	9.2	10.5	12.7	14.4	17.4	114	120	103	3/8	17W	4.0	1.6	GJBMX	GGJBMX	HHJBMX	•	•	•
7.6	9.0	10.8	12.4	14.9	17.0	20	114	120	104		20W	4.4	2.4	GJBMX	GGJBMX	HHJBMX	•	•	•
9.1	10.8	13.0	14.8	17.9	20	25	114	120	104		24W	4.8	2.4	GJBMX	GGJBMX	HHJBMX	•	•	•
10.3	12.1	14.6	16.7	20	23	28	114	120	106		27W	5.2	2.8	GJBMX	GGJBMX	HHJBMX	•	•	•
11.4	13.5	16.2	18.5	22	25	31	114	120	108	1/2	30W	5.6	2.8	GJBMX	GGJBMX	HHJBMX	•	•	•
13.3	15.7	18.9	22	26	30	36	114	120	108		35W	6.0	3.2	GJBMX	GGJBMX	HHJBMX	•	•	•
15.2	18.0	22	25	30	34	41	114	120	108		40W	6.4	3.2	GJBMX	GGJBMX	HHJBMX	•	•	•
17.2	20	24	28	34	38	46	114	120	110		45W	6.4	4.0	GJBMX	GGJBMX	HHJBMX	•	•	•
19.1	22	27	31	37	42	51	114	120	112		50W	6.7	4.0	GJBMX	GGJBMX	HHJBMX	•	•	•

Hollow Cone Nozzles

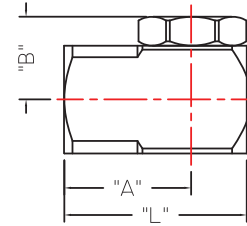
Standard Angle



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**

1/4	A	SX	JB	5	MX
Inlet Connection 1/8" = 1/8" NPT 1/4" = 1/4" NPT 3/8" = 3/8" NPT 1/2" = 1/2" NPT	Nozzle Style A=FNPT B=MNPT	Material Blank = Brass S=303SS SX = 316SS	Nozzle Type	Capacity Size See Specs in Table	Nozzle Type

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

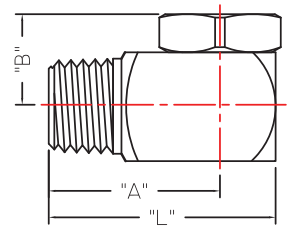
Standard Angle



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)

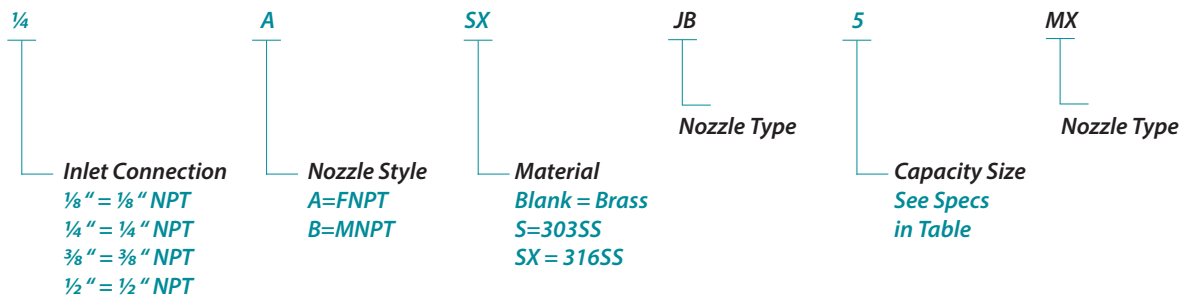
BJBMX - DIMENSIONAL DATA



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**



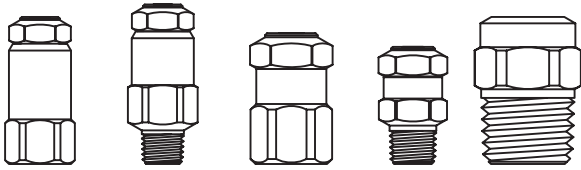
Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4ASXJB5MX)

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	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	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	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	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	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	7.5	AJBMX	BJBMX	•	•	•
8.6	11.4	16.8	19.3	24	27	34	36	63	70	74		30	8.3	7.9	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	6.4	AJBMX	BJBMX	•	•	•
8.6	11.4	16.8	19.3	24	27	34	36	67	71	75		30	9.5	7.5	7.5	AJBMX	BJBMX	•	•	•
11.5	15.3	22	26	32	36	45	48	72	76	78		40	9.5	9.1	9.1	AJBMX	BJBMX	•	•	•
14.4	19.1	28	32	39	46	56	60	74	79	82		50	9.5	11.1	11.1	AJBMX	BJBMX	•	•	•
17.3	23	34	39	47	55	67	72	77	82	86		60	9.5	13.1	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**

1/4	M	S	JB	26	MX
Inlet Connection 1/4" = 1/4" NPT (ONLY)	Nozzle Style LN=FNPT, Integral Strainer, Removable Tip & Core LNN=MNPT, Integral Strainer, Removable Tip & Core N=FNPT, Removable Tip & Core NN=MNPT, Removable Tip & Core M=MNPT, One-Piece	Material Blank = Brass S=303SS SX= 316SS	Nozzle Type	Capacity Size See Specs in Table	Nozzle Type

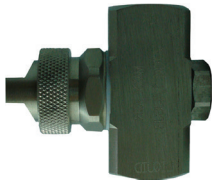
Note: For BSPT connections, please put a "B" in front of the Part Number (eg. B1/4MSJB26MX)

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	.30	0.15	0.41	LNJBMX	LNNJBMX		•	•	•
				4.1	5.4	6.1	8.2			58	.40	0.20	0.41	LNJBMX	LNNJBMX		•	•	•
			4.4	5.1	6.7	7.6	10.2			63	.50	0.23	0.41	LNJBMX			•	•	•
		3.60	5.3	6.1	8.1	9.2	12.2		35	65	.60	0.15	0.41	LNJBMX	LNNJBMX	NJBMX	•	•	•
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	•	•	•
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	•	•	•
7.9	9.1	12.1	17.7	20	27	31	41	70	75	77	2	0.41	0.71	LNJBMX	LNNJBMX	NJBMX	•	•	•
11.8	13.7	18.1	26	31	40	46	61	65	70	73	3	0.51	0.71	LNJBMX	LNNJBMX	NJBMX	•	•	•
15.8	18.2	24	35	41	54	61	82	72	81	84	4	0.51	1.1	LNJBMX	LNNJBMX	NJBMX	•	•	•
24	27	36	53	61	81	92	122	73	79	81	6	0.64	1.1	LNJBMX	LNNJBMX	NJBMX	•	•	•
32	36	48	71	82	108	122	163	85	89	91	8	0.64	1.5	LNJBMX	LNNJBMX	NJBMX	•	•	•
39	46	60	88	102	135	153	204	82	84	86	10	0.51	1.6	LNJBMX	LNNJBMX	NJBMX	•	•	•
47	55	72	106	122	162	183	245	78	82	85	12	0.51	1.9	LNJBMX	LNNJBMX	NJBMX	•	•	•
55	64	84	124	143	189	214	285	85	88	90	14	0.53	1.9	LNJBMX	LNNJBMX	NJBMX	•	•	•
63	73	96	141	163	216	245	326	83	86	88	16	0.53	2.2			NJBMX	•	•	•
71	82	109	159	183	243	275	367	81	84	86	18	0.56	1.9	LNJBMX	LNNJBMX	NJBMX	•	•	•
79	91	121	177	204	270	306	408	75	78	80	20	0.56	2.1	LNJBMX			•	•	•
87	100	133	194	224	297	336	449	70	72	75	22	0.64	1.9	LNJBMX	LNNJBMX	NJBMX	•	•	•
103	119	157	230	265	351	398	530	73	74	77	26	0.64	2.2	LNJBMX	LNNJBMX	NJBMX	•	•	•

Air Atomizing Nozzles

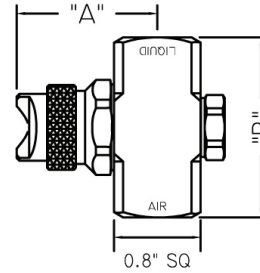
Pressure & Siphon Feed



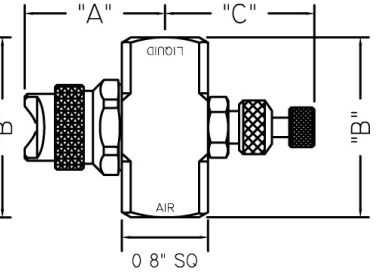
EXTERNAL MIX

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"			

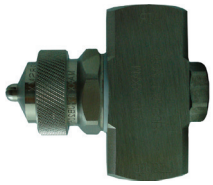
DIMENSIONAL DATA



JJBMX



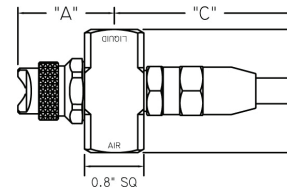
JXJBMX



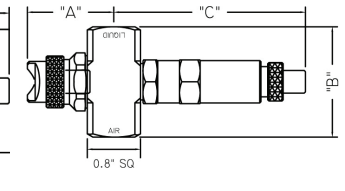
INTERNAL MIX

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**



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



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



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



Nozzle Style



Spray Set-Up
See Specs
in Tables



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

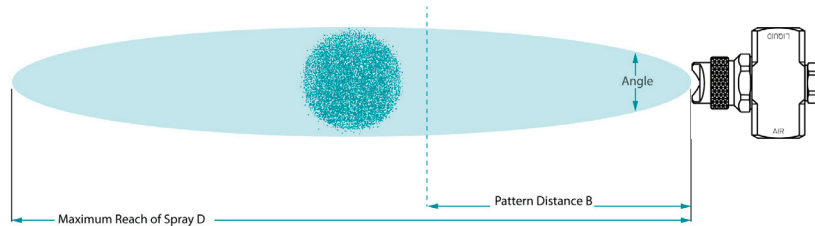
XW - EXTRA WIDE ANGLE ROUND			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	H1	PFJB60150MX	PAJB189662160HCMX

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)

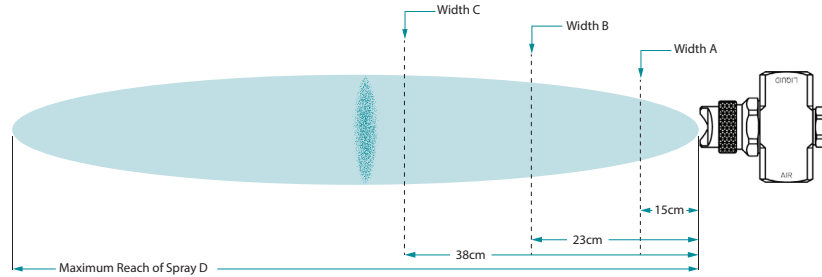


SPRAY DIMENSIONS

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
					2.2	2.0	27	2.7	2.3	31.0	3.7	3.0	38	4.8	3.7	47					
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
								2.7	3.6	48	3.4	5.5	55	4.5	6.8	68					
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
		2.0	2.8	44	3.1	3.6	59	3.5	4.1	65	4.2	7.9	65	4.9	11.8	68					
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
		2.1	2.7	127							6.3	3.6	290	7.0	11.0	305					
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
					2.2	25	119				3.9	35	170	6.0	23	260					
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
								2.8	42	178	3.5	84	187	4.9	93	255					

Air Atomizing Nozzles

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

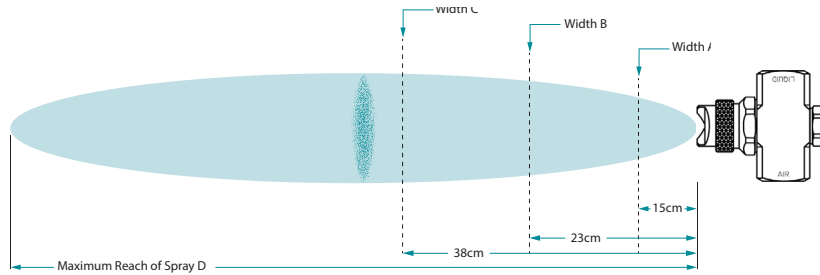


SPRAY DIMENSIONS

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)

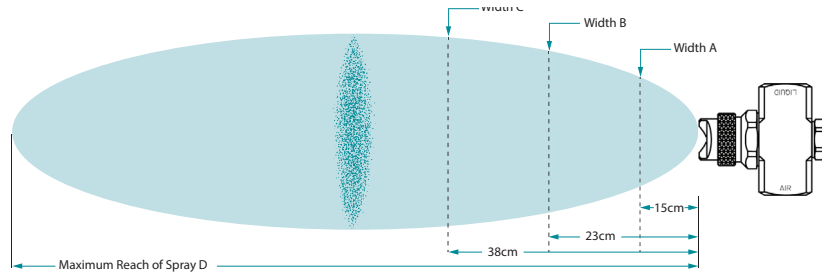


SPRAY DIMENSIONS

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
											4.2	17.0	137	6.3	12.4	200	5.3	4.0	33	41	48	4.0
		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						
		1.0	17.0	23	2.0	24	44	2.4	28	51	3.4	38	72	3.9	65	75						
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						
		1.0	29	90	1.8	56	117	2.1	100	119	3.0	126	140	4.1	140	181						
F12	Fluid Cap PFJB100150MX Air Cap PAJB189351MX	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)



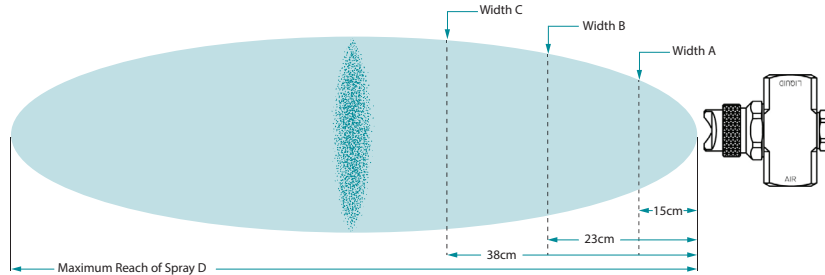
SPRAY DIMENSIONS

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 PFJB1650MX Air Cap PAJB6224060MX		2.8		0.35	3.5		5.3		7.8		11.0		28	0.70			0.40	0.30	20	28	33	1.2				
		0.35					22				22		0.40				25	0.60		34	34	0.70	23	30	40	1.8	
		0.40					25				25		0.60				28	0.70		34	45	1.5	28	35	46	1.8	
		0.50					27.5		0.60		28		0.70			34	1.1	45	1.8	62	62	1.5	28	33	43	2.4	
		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
																							1.4	3.0	30	38	51
E2	Fluid Cap PFJB1650MX Air Cap PAJB6722845MX	0.20	2.8	25	3.5	3.5	26	0.70	5.3	31	1.4	7.8	45	2.8	11.0	74	0.20	0.20	9	15	23	0.90					
		0.35		26	0.70		31	1.1		40	1.8		54	3.5		85	85	0.20	9	15	23	1.2					
		0.70		31	1.1		40	1.4		45	2.1		60	4.2		102	102	0.35	10	15	23	1.2					
		1.1		40	1.4		45	1.8		54	2.8		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 PFJB2050MX Air Cap PAJB6224060MX		4.5		5.5	5.5		8.3		12.2		16.6		34	1.1			0.70	0.30	28	33	40	1.5				
		0.35		22			0.35		22		0.60		28			0.70	34	1.1	45	45	0.70	30	38	48	2.1		
		0.60		28			0.70		34		0.70		34			1.4	54	1.4	54	54	1.5	38	46	58	1.8		
		0.70		34			1.1		45		1.4		54			2.1	71	2.1	71	71	1.5	35	43	56	2.4		
		1.1		45			1.4		54		2.1		71			2.5	79	2.5	79	79	1.5	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 PFJB2050MX Air Cap PAJB6722845MX	0.35	4.5	26	0.70	5.5	31	1.1	8.3	40	1.8	12.2	54	3.2	16.6	82	0.35	0.20	7.5	14	22	1.0					
		0.70		31	1.1		40	1.4		45	2.1		60	3.5		85	85	0.20	9	15	22	1.7					
		1.1		40	1.4		45	1.8		54	2.8		74	4.2		102	102	0.35	10	16.5	23	1.8					
		1.4		45	1.8		54	2.1		59	3.5		85	4.9		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 PFJB2050MX Air Cap PAJB6224060MX		8.5		10.4	10.4		15.9		23		33		34	1.4			0.60	0.30	35	48	61	1.8				
		0.40		25			0.40		25		0.40		25			0.70	34	1.4	54	54	0.70	35	48	63	1.5		
		0.50		27.5			0.60		28		0.60		28			0.85	40	1.8	62	62	1.5	38	48	63	1.8		
		0.60		28			0.65		31		0.70		34			1.1	45	2.1	71	71	1.5	41	51	66	2.1		
		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

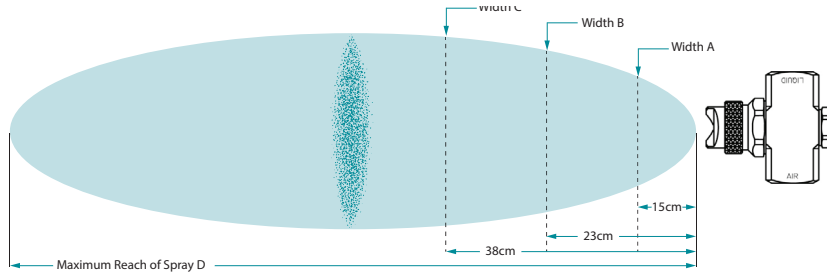


PIPE SIZES 1/8" or 1/4"																						
SPRAY SET-UP NO.	FLUID & AIR CAP NO.5	0.2 BAR LIQUID			0.3 BAR LIQUID			0.7 BAR LIQUID			1.5 BAR LIQUID			3 BAR LIQUID			SPRAY DIMENSIONS					
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"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		13.4			16.4			25			37			52		1.4	0.30	33	38	48	3.8
		0.60		91	0.70		102	1.4		156	2.1		210	3.2		285	285	0.70	33	40	56	4.3
		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
																	3.9	2.0	41	51	69	4.6
																	4.2	3.0	38	51	71	4.9
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	2.5		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		17.6			22			33			48			68		1.1	0.20	33	38	51	3.5
		0.60		91	0.70		102	1.1		130	2.5		235	3.5		310	310	0.70	35	48	64	3.0
		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
																	4.2	2.0	33	43	61	5.2
																	4.9	3.0	33	43	61	4.0
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)

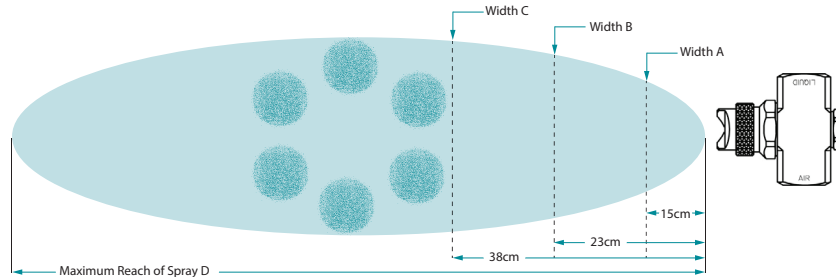
SPRAY DIMENSIONS



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	BAR		"A" (CM)	"B" (CM)	"C" (CM)	"D" (M)		
																	AIR	LIQUID						
E11	Fluid Cap PFJB60100MX Air Cap PAJB12228160MX		36		45		68		100		141		2.1	0.30	40	56	76	3.0						
		0.7		102		1.1		130		1.8		184	3.2	285	5.3	430	2.8	0.70	46	58	81	4.0		
		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		
		1.8		184		2.5		235		3.2		285	5.9	455	7.0	550	5.6	1.5	38	51	66	5.8		
																3.9	2.0	48	64	84	4.3			
																			6.3	3.0	41	56	79	5.8
E12	Fluid Cap PFJB60100MX Air Cap PAJB1342545MX	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		
		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 Air Cap PAJB20027845MX	1.8	36	235	1.8	45	235	2.5	68	300	3.9	100	410			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			
		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 Air Cap PAJB20027845MX	2.1	64	260	2.8	22.5	330	3.9	119	410	4.9	175	520			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			
		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 Air Cap PAJB20027845MX	2.8	102	330	3.5	36.0	380	4.6	192	480	5.6	280	600			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			
		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 PFJB2050MX 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 PFJB40100MX 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 PFJB40100MX Air Cap PAJB12063560MX										3.7	6.1	142	4.9	6.8	183						
		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
W4	Fluid Cap PFJB60100MX Air Cap PAJB14063770MX	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
		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
W5	Fluid Cap PFJB60100MX Air Cap PAJB14065270MX										3.4	26	110	4.6	27	138	3.2	3.0	20	28	38	5.0
											3.5	19.5	122	4.9	15.9	166	3.9	4.0	20	28	39	6.8
											3.7	13.2	133									
		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
W6	Fluid Cap PFJB100150MX Air Cap PAJB18966270MX	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
		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
W6	Fluid Cap PFJB100150MX Air Cap PAJB18966270MX	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"

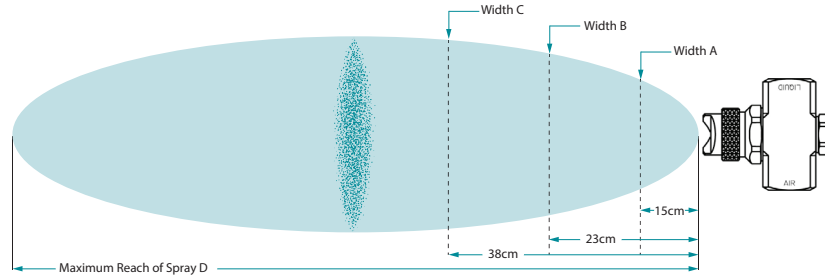
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	0.7 BAR LIQUID			1.5 BAR LIQUID			2 BAR LIQUID			3 BAR LIQUID			4 BAR LIQUID		
		AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM	AIR	LPH	AIR LPM
K1	Fluid Cap PFJB28150MX Air Cap PAJB18911075MX	0.4	11.0	45	1.1	14.5	79	1.5	15.7	96	2.1	20	114	2.7	26	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)

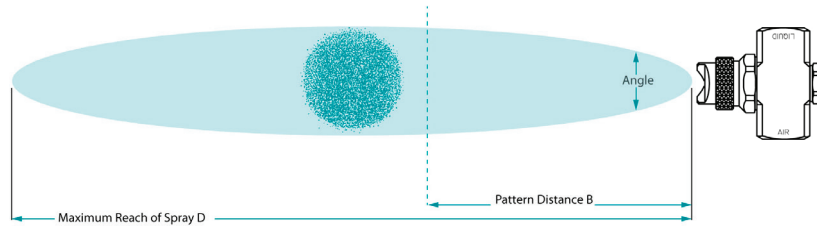


SPRAY DIMENSIONS

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	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
	Air Cap PAJB120432MX	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	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
	Air Cap PAJB122435MX	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	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
	Air Cap PAJB122440MX	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									

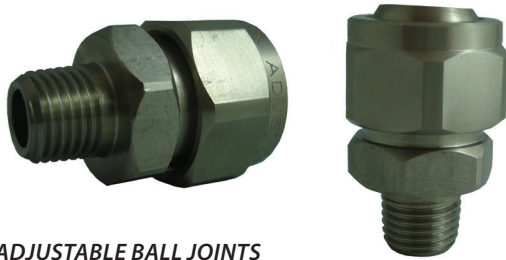
Air Atomizing Nozzles

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 Air Cap PAJB64MX	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
		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 Air Cap PAJB64MX	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
		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 Air Cap PAJB70MX	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
		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 Air Cap PAJB70MX	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
		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 Air Cap PAJB120MX	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
		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 Air Cap PAJB180MX	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
		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

**6100 N.E. Campus Court
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Phone: 503-648-8389
Fax: 503-648-8974
Email: info@trimnozzle.com
www.trimnozzle.com**

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Call for more information.***



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