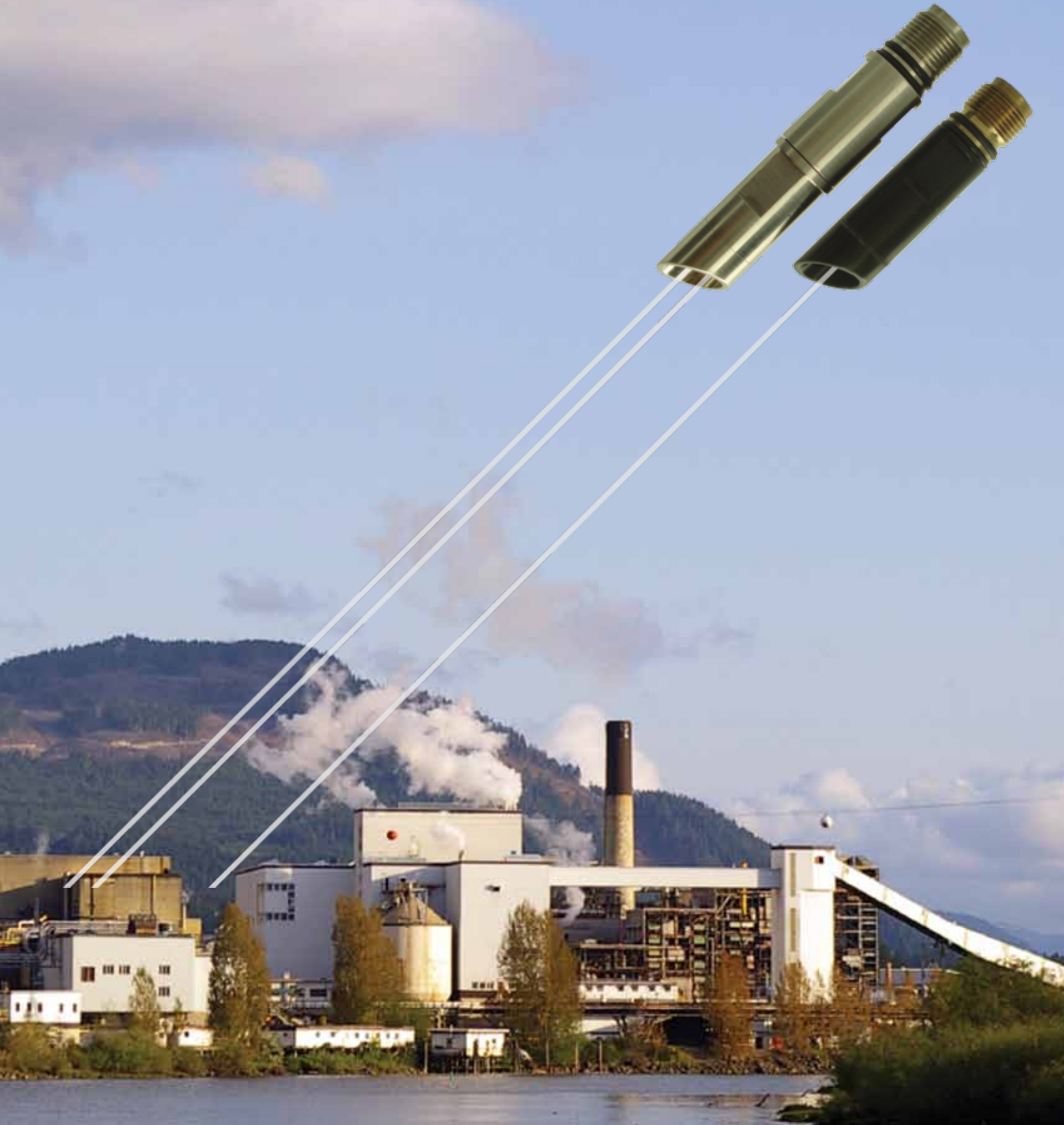


# *Gatewood*

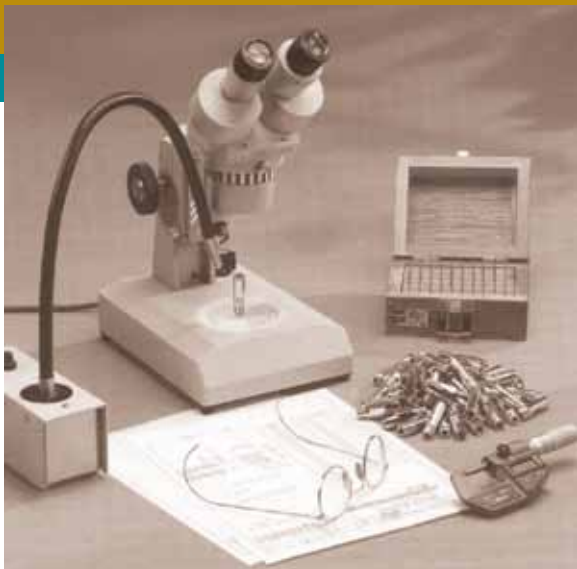
**Leaders in Spray Nozzles for the Paper Industry**



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### History

Located in Hillsboro, Oregon, M. L. Gatewood Company has been manufacturing Needle Jet trim nozzles since 1962, for use on paper machines around the world. Based on our customer requirements, we have expanded our line to include edge-trimming machines and nozzles for other applications on the machine. Looking to continuously improve, we are always searching for ways to better serve our Customer.

### Quality

We understand how important the quality of our nozzles are to successful paper machine operations. Our nozzles are rigorously inspected and spray tested to ensure they meet specification. We guarantee that our nozzles work!

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

### Service

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

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





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

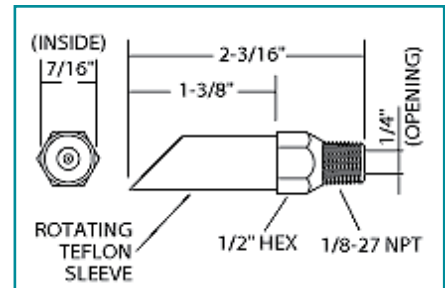
See Page 9 for special Gatewood Thread Adapters and Page 7 for Stream Details.

## Ruby Tips - Single Stream

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



Size	Part#
.010"	R1045SS
.015"	R1545SS
.020"	R2045SS
.025"	R2545SS
.030"	R3045SS
.035"	R3545SS
.040"	R4045SS
.050"	R5045SS

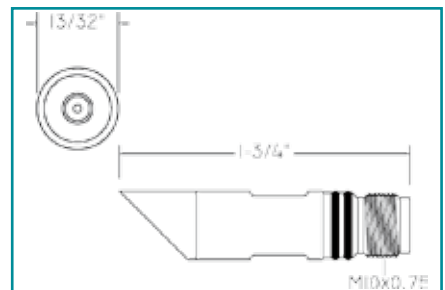


### Single Ruby Tip in Stainless Steel with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010"	RS109MSS	RS109SS
.015"	RS159MSS	RS159SS
.020"	RS209MSS	RS209SS
.025"	RS259MSS	RS259SS
.030"	RS309MSS	RS309SS
.035"	RS359MSS	RS359SS
.040"	RS409MSS	RS409SS
.045"	RS459MSS	RS459SS

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

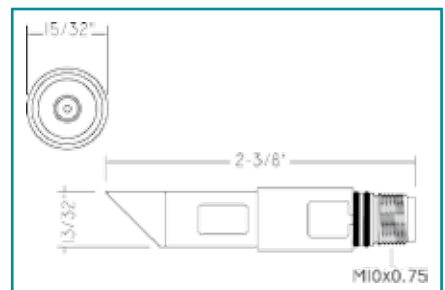


### Single Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010"	RA109MSS	RA109SS
.015"	RA159MSS	RA159SS
.020"	RA209MSS	RA209SS
.025"	RA259MSS	RA259SS
.030"	RA309MSS	RA309SS
.035"	RA359MSS	RA359SS
.040"	RA409MSS	RA409SS
.045"	RA459MSS	RA459SS

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



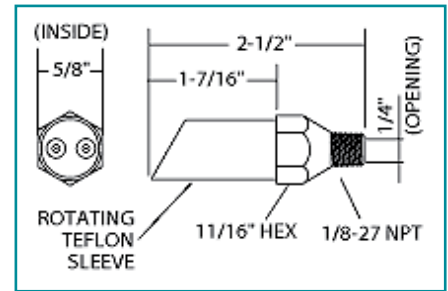
# Ruby Tips - Double 10° Stream & Parallel Stream

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



Size	Part#
.010"	RD1046SS
.015"	RD1546SS
.020"	RD2046SS
.025"	RD2546SS
.030"	RD3046SS
.035"	RD3546SS
.040"	RD4046SS
.050"	RD5046SS

Any combination of sizes are available.

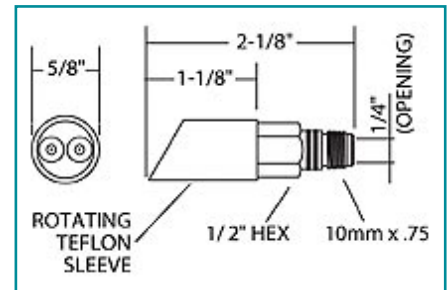


## Double Parallel Stream Ruby Tip in Stainless Steel Shell with Teflon® Drip Shield



Size	Part#
.010"	R-PRL1047SS
.015"	R-PRL1547SS
.020"	R-PRL2047SS
.025"	R-PRL2547SS
.030"	R-PRL3047SS
.035"	R-PRL3547SS
.040"	R-PRL4047SS
.050"	R-PRL5047SS

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

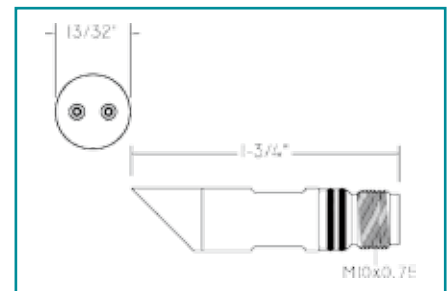


## Double Parallel Stream Ruby Tip in Stainless Steel Shell with Stainless Steel Drip Shield



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

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

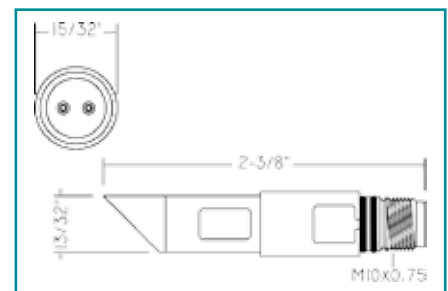


## Double Parallel Stream Ruby Tip in Adjustable Stainless Steel Shell with Stainless Steel Drip Shield



Size	Part# - 10mm	Part# - 1/8" NPT
.010"	RA-PRL109MSS	RA-PRL109SS
.015"	RA-PRL159MSS	RA-PRL159SS
.020"	RA-PRL209MSS	RA-PRL209SS
.025"	RA-PRL259MSS	RA-PRL259SS
.030"	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" through .080" and threads are 1/8" NPT.

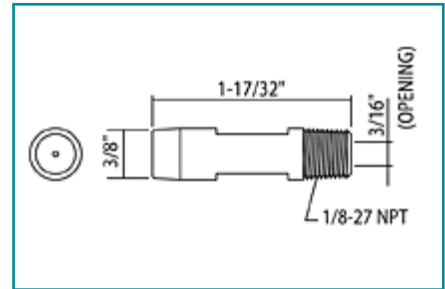
See Page 9 for special Gatewood Thread Adapters.

## Stainless Steel Tips - Single Stream

### Single Stainless Tip in Brass Long Shell



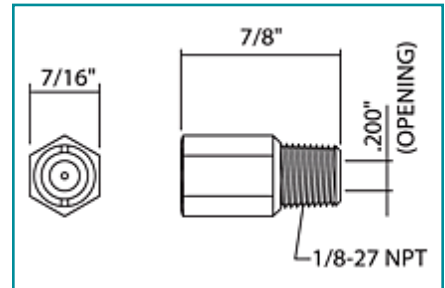
Size	Part #	Size	Part #
.010"	S104	.035"	S354
.012"	S124	.037"	S374
.015"	S154	.040"	S404
.018"	S184	.042"	S424
.020"	S204	.045"	S454
.023"	S234	.050"	S504
.025"	S254	.060"	S604
.028"	S284	.070"	S704
.030"	S304	.080"	S804
.032"	S324		



### Single Stainless Tip in Stainless Steel Short Hex High Pressure Shell



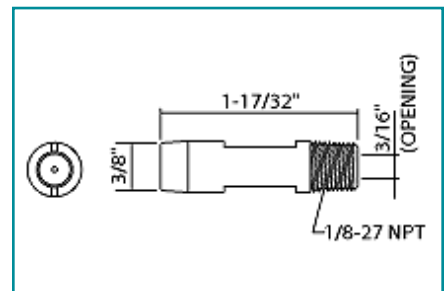
Size	Part #	Size	Part #
.010"	S108SS	.035"	S358SS
.012"	S128SS	.037"	S378SS
.015"	S158SS	.040"	S408SS
.018"	S188SS	.042"	S428SS
.020"	S208SS	.045"	S458SS
.023"	S238SS	.050"	S508SS
.025"	S258SS	.060"	S608SS
.028"	S288SS	.070"	S708SS
.030"	S308SS	.080"	S808SS
.032"	S328SS		



### Single Stainless Tip in Stainless Steel High Pressure Shell



Size	Part #	Size	Part #
.010"	S1011SS	.035"	S3511SS
.012"	S1211SS	.037"	S3711SS
.015"	S1511SS	.040"	S4011SS
.018"	S1811SS	.042"	S4211SS
.020"	S2011SS	.045"	S4511SS
.023"	S2311SS	.050"	S5011SS
.025"	S2511SS	.060"	S6011SS
.028"	S2811SS	.070"	S7011SS
.030"	S3011SS	.080"	S8011SS
.032"	S3211SS		



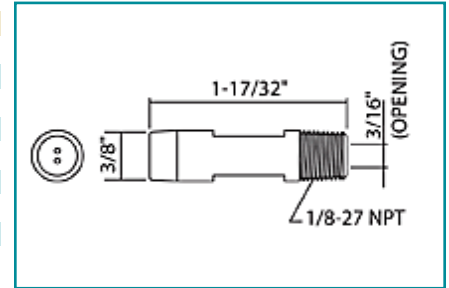
# Stainless Steel Tips - Double 10° Stream & Parallel Stream

## Double Stainless Tips in Brass Long Shell



Size	10° Stream	Parallel Stream
.010" x 2	D105	PRL105
.012" x 2	D125	PRL125
.015" x 2	D155	PRL155
.018" x 2	D185	PRL185
.020" x 2	D205	PRL205
.023" x 2	D235	PRL235
.025" x 2	D255	PRL255
.015" x .020"	D15205	PRL15205

Any Combination of Sizes are Available

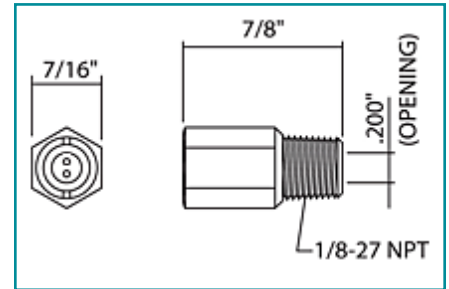


## Double Stainless Tips in Stainless Steel Short High Pressure Hex Shell



Size	10° Stream	Parallel Stream
.010" x 2	D108SS	PRL108SS
.012" x 2	D128SS	PRL128SS
.015" x 2	D158SS	PRL158SS
.018" x 2	D188SS	PRL188SS
.020" x 2	D208SS	PRL208SS
.023" x 2	D238SS	PRL238SS
.025" x 2	D258SS	PRL258SS
.015" x .020"	D15208SS	PRL15208SS

Any Combination of Sizes are Available

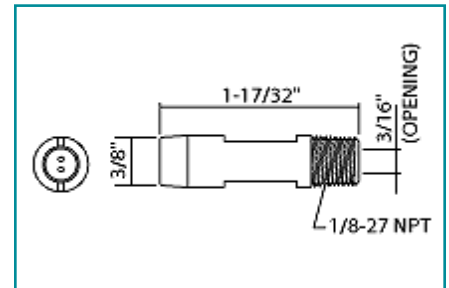


## Double Stainless Tips in Stainless Steel Long High Pressure Shell

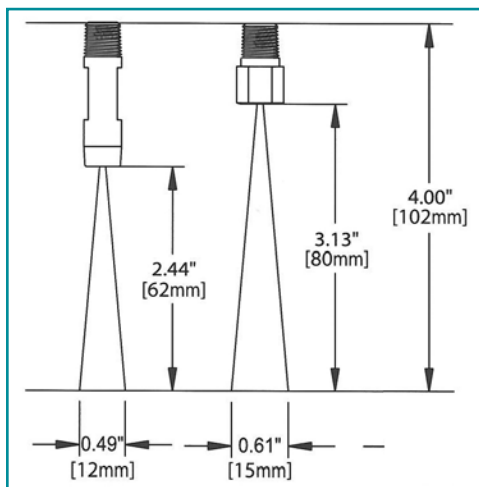


Size	10° Stream	Parallel Stream
.010" x 2	D1011SS	PRL1011SS
.012" x 2	D1211SS	PRL1211SS
.015" x 2	D1511SS	PRL1511SS
.018" x 2	D1811SS	PRL1811SS
.020" x 2	D2011SS	PRL2011SS
.023" x 2	D2311SS	PRL2311SS
.025" x 2	D2511SS	PRL2511SS
.015" x .020"	D152011SS	PRL152011SS

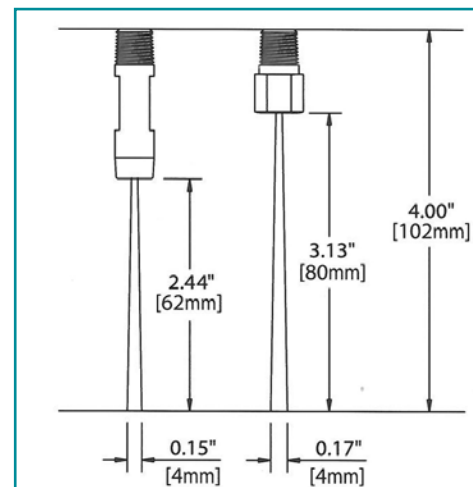
Any Combination of Sizes are Available



### Double 10° Stream Tip Details



### Parallel Stream Tip Details

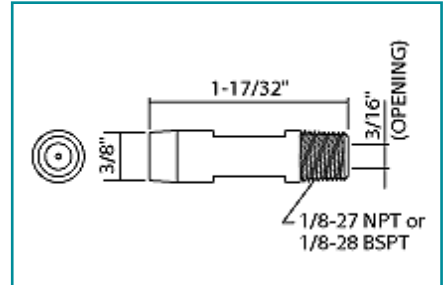


**NOTE:** On stream detail drawings - all dimensions may vary slightly.

## Pyrex Tip in Brass Long Shell



Gatewood's most widely used nozzle comes equipped with a reliable Pyrex tip. This guarantees a smooth, consistent flow. Orifice sizes range from .010 through .080 and threads are 1/8" NPT. See Page 9 for Gatewood Thread Adapters



Size	Part #	Size	Part #	Size	Part #	Size	Part #
.010"	P102	.020"	P202	.030"	P302	.050"	P502
.012"	P122	.023"	P232	.035"	P352	.060"	P602
.015"	P152	.025"	P252	.040"	P402	.070"	P702
.018"	P182	.028"	P282	.045"	P452	.080"	P802

## Ceramic Tips

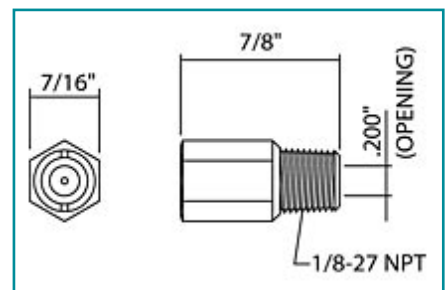


The Gatewood Ceratip is a long lasting, precision, high pressure nozzle with an extremely hard ceramic tip. This tough, high quality nozzle was specially designed by Gatewood at the request of several large paper mills in need of a nozzle to withstand high pressure while maintaining the highest quality stream over long periods of time. Orifice sizes are .010", .015", .020", .025", .030", .035", .040" and .050" and threads are 1/8" NPT.

### Ceramic Tip in Stainless Steel Short Hex Shell



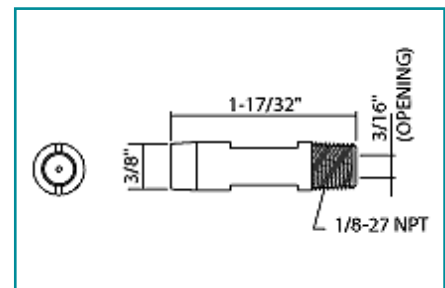
Size	Part #
.010"	C108SSS
.015"	C158SSS
.020"	C208SSS
.025"	C258SSS
.030"	C308SSS
.035"	C358SSS
.040"	C408SSS
.050"	C508SSS



### Ceramic Tip in Stainless Steel Long High Pressure Shell



Size	Part #
.010"	C1011SS
.015"	C1511SS
.020"	C2011SS
.025"	C2511SS
.030"	C3011SS
.035"	C3511SS
.040"	C4011SS
.050"	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



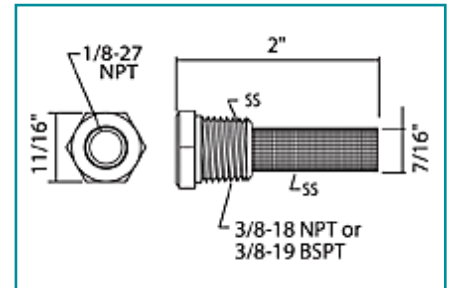
Part #	Description
M10FSS	10mm x 0.75 Female to 1/8 NPT Male Stainless Steel <b>Note:</b> Adapts Gatewood Double Parallel Stream Ruby Nozzle to 1/8 NPT Male
M10MSS	1/8 NPT Female to 10mm x .75 Male Stainless Steel <b>Note:</b> Adapts All Gatewood 1/8 NPT Nozzles to 10mm x 0.75 Female

## 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

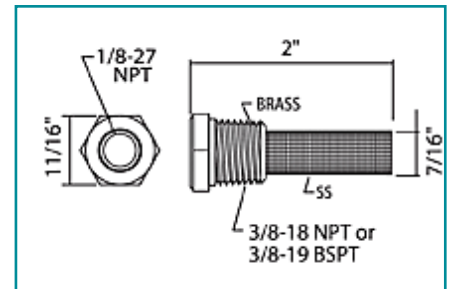


## Filter Screen with Brass Bushing

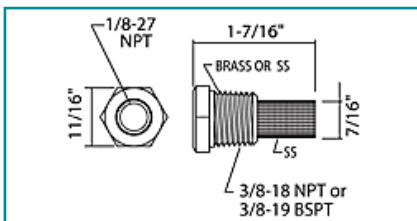


Size	Part #
40 Mesh	A64
50 Mesh	A65
60 Mesh	A66
100 Mesh	A6100R
40 Mesh BSPT	A74
50 Mesh BSPT	A75
60 Mesh BSPT	A76
100 Mesh BSPT	A7100R

Shown with Standard Screen

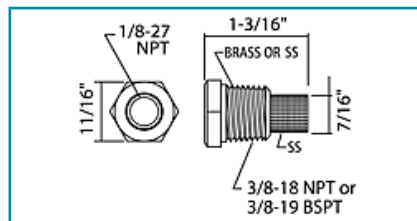


## Other Screen Options



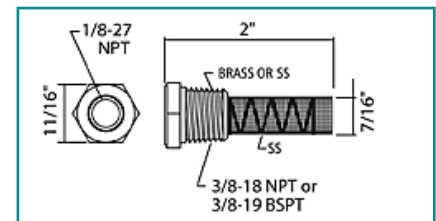
Short Screen

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
60 Mesh	A66R	SA66R
100 Mesh	A6100R	SA6100R
200 Mesh	A6200R	SA6200R

# Edge Trimming Machines

Leaders in Spray Nozzles for the Paper Industry

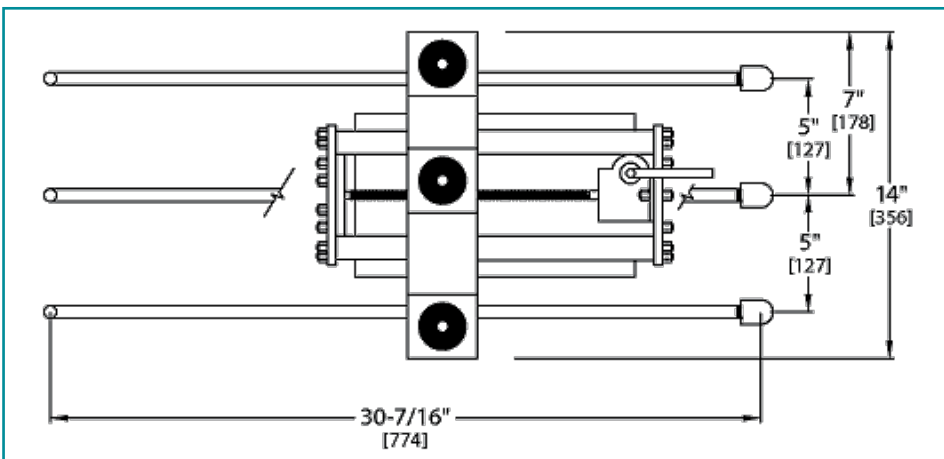
The world's leading wet-end trim nozzle manufacturer can now provide you with a complete edge trimming system. Our unique machine allows the operator to make precision adjustments to the width of the sheet or safely change a nozzle during production.

## Adjusta Trim Squirt

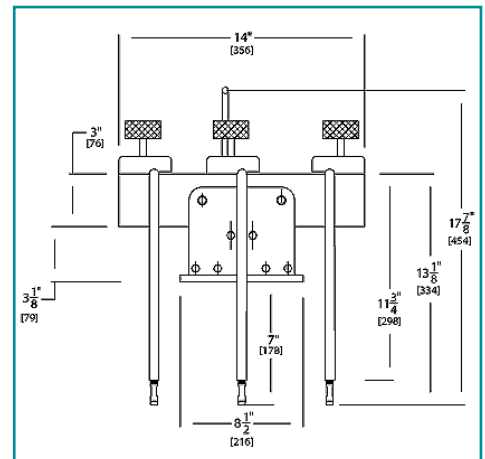


- Precise horizontal adjustment through an 8-1/4" range.
- 1/2" diameter squirt pipes accept 1/8" NPT trim nozzles directly into the outlet end.
- Easy filter screening access at the inline end.
- Rugged machine
- Easy to install and operate
- Maximum adjustability within a compact size
- **SQUIRT PIPES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

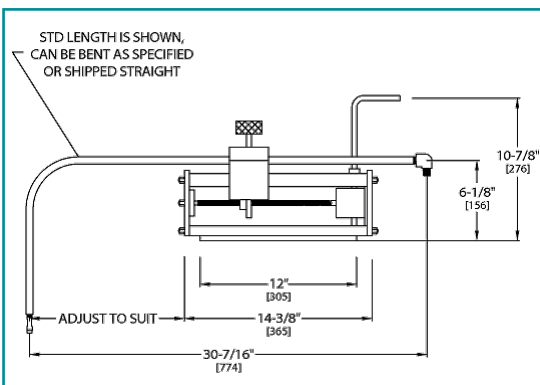
Top View



End View



Side View



## Adjusta Trim Squirt "PLUS"

Additional features of the "PLUS" machine include:

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



## Operator Safety - Our Number One Motivation for the Design!

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

# High Pressure Cleaning Nozzles

## Threaded NDL Type



NDL

NDL "A"

NDL "B"

DIMENSIONAL DATA

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



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

## How to Order

Example: **S-NDL40A**

S

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

-NDL

**Nozzle Type**  
NDL=Needle

40

**Capacity Size**  
See Specs in Table Below

A

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

## Specifications

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	AVAILABLE ORIFICE MATERIALS		
40	60	80	100	200	400	600	800	1000			316SS	CERAMIC	RUBY
0	0	0	0	0	0	0	0	0	00	Blank	.	.	.
0.11	0.13	0.15	0.17	0.24	0.33	0.43	0.48	0.50	28	0.028	.	.	.
0.16	0.20	0.22	0.25	0.36	0.52	0.63	0.75	0.82	33	0.033	.	.	.
0.18	0.22	0.25	0.28	0.41	0.57	0.70	0.82	0.95	35	0.035	.	.	.
0.23	0.28	0.32	0.36	0.5	0.68	0.88	1.0	1.2	40	0.040	.	.	.
0.40	0.48	0.58	0.67	0.91	1.3	1.5	1.75	2.0	55	0.055	.	.	.
0.67	0.84	0.98	1.1	1.6	2.3	2.8	3.1	3.5	70	0.070	.	.	.
1.2	1.45	1.6	1.8	2.5	4.0	4.6	5.5	6.5	94	0.094	.	.	.
1.95	2.45	2.7	2.8	4.4	6.0	7.5	10.0	11.0	125	0.125	.	.	.

# 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"	11/16"
SNDL-EXT3	9/16" - 24 UNEF	3"	11/16"
SNDL-EXT4	9/16" - 24 UNEF	4-1/2"	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"  
3 = 3"  
4 = 4-1/2"

## Specifications

-NDL-EXT

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES) "	AVAILABLE ORIFICE MATERIALS	
40	60	80	100	200	400	600	800	1000			316SS	CERAMIC
0.11	0.13	0.15	0.17	0.24	0.33	0.43	0.48	0.5	28	0.028	•	•
0.16	0.20	0.22	0.25	0.36	0.52	0.63	0.75	0.82	33	0.033	•	•
0.23	0.28	0.32	0.36	0.5	0.68	0.88	1.0	1.2	40	0.040	•	•
0.40	0.48	0.58	0.67	0.91	1.3	1.5	1.75	2.0	55	0.055	•	
0.67	0.84	0.98	1.1	1.6	2.3	2.8	3.1	3.5	70	0.070	•	
1.2	1.45	1.6	1.8	2.5	4.0	4.6	5.5	6.5	94	0.094	•	
1.95	2.45	2.7	2.8	4.4	6.0	7.5	10.0	11.0	125	0.125	•	

# High Pressure Cleaning Nozzles

## Threaded BUL Type



BUL

Inlet Connection	Length	Hex
1/8"	1-1/8"	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

## Specifications

BUL

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)									CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES) "	AVAILABLE ORIFICE MATERIALS 316SS ONLY
40	60	80	100	200	400	600	800	1000			
0.11	0.13	0.15	0.17	0.24	0.33	0.43	0.48	0.50	28	0.028	•
0.16	0.20	0.22	0.25	0.36	0.52	0.63	0.75	0.82	33	0.033	•
0.23	0.28	0.32	0.36	0.5	0.68	0.88	1.0	1.2	40	0.040	•
0.40	0.48	0.58	0.67	0.91	1.3	1.5	1.75	2.0	55	0.055	•
0.67	0.84	0.98	1.1	1.6	2.3	2.8	3.1	3.5	70	0.070	•

# High Pressure Cleaning Nozzles

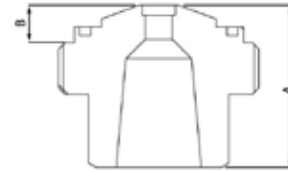
## Disc-Type with Integral Threads



M SERIES SHWR

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

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)					CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	AVAILABLE ORIFICE
20	40	100	250	800			RUBY
0.07	0.10	0.15	0.25	0.42	28	0.28	.
0.10	0.13	0.22	0.35	0.60	33	0.33	.
0.11	0.15	0.24	0.38	0.67	35	0.35	.
0.15	0.22	0.34	0.54	0.95	40	0.40	.

# High Pressure Cleaning Nozzles

Disc-Type with Integral Threads



SHWR



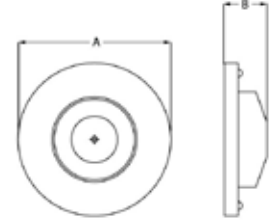
SHWR - "A"



SHWR - "G"

Nozzle Type	A	B
SHWR	1"	.300"
SHWR - "A"	1"	.275"
SHWR - "G"	1"	.200"

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

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)					CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	AVAILABLE ORIFICE MATERIALS		
20	40	100	250	800			316SS	CERAMIC	RUBY
0	0	0	0	0	00	0.00	.		
0.07	0.10	0.15	0.25	0.42	28	0.28	.	.	.
0.10	0.13	0.22	0.35	0.60	33	0.33	.	.	.
0.11	0.15	0.24	0.38	0.67	35	0.35	.		.
0.15	0.22	0.34	0.54	0.95	40	0.40	.	.	.
0.25	0.35	0.55	0.85	1.5	55	0.55	.		
0.43	0.61	0.97	1.5	2.7	70	0.70	.		
0.88	1.2	2.0	3.1	5.6	94	0.94	.		
1.4	2.0	3.1	5.0	8.9	125	0.125	.		

# Disc-Type Fan Nozzles

## Disc-Type with Integral Threads



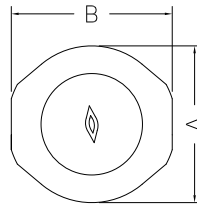
SHWR



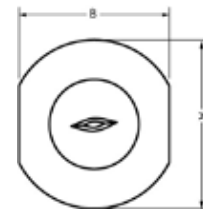
SHWRK

Nozzle Type	A	B
SHWR	1.02"	1.05"
SHWRK	1.18"	1.05"

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: **SHWRK4512SXX**

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

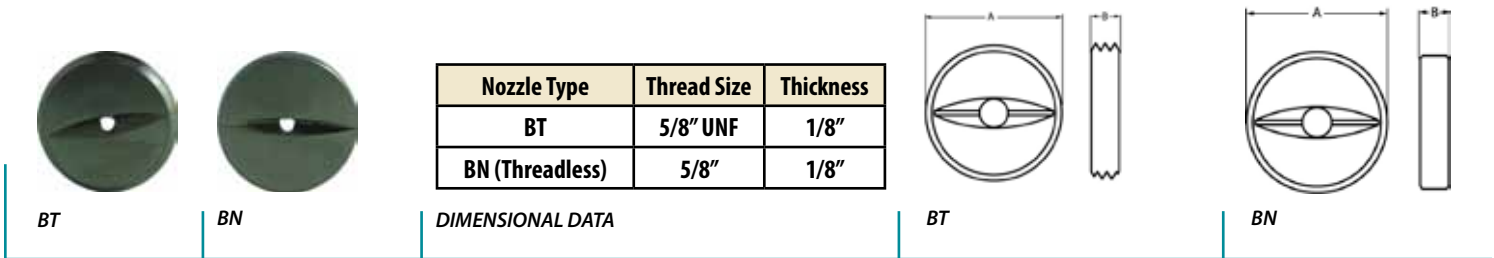
## Specifications

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)					CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	SPRAY ANGLE @ 40PSI				
20	40	100	250	800			15	30	45	60	75
0.16	0.23	0.36	0.58	1.0	02	0.039	.	.	.	.	.
0.23	0.33	0.52	0.83	1.5	03	0.047	.	.	.	.	.
0.30	0.43	0.68	1.1	1.9	04	0.590	.	.	.	.	.
0.43	0.61	0.97	1.5	2.7	06	0.071	.	.	.	.	.
0.56	0.79	1.3	2.0	3.5	08	0.079	.	.	.	.	.
0.72	1.0	1.6	2.6	4.6	10	0.089	.	.	.	.	.
0.88	1.2	2.0	3.1	5.6	12	0.990	.	.	.	.	.
1.1	1.6	2.5	4.0	7.2	16	0.110	.	.	.	.	.
1.4	2.0	3.1	5.0	8.9	20	0.118	.	.	.	.	.
1.8	2.6	4.1	6.4	11.5	25	0.138	.	.	.	.	.
2.2	3.1	5.0	7.9	14.0	31	0.157	.	.	.	.	.
2.9	4.0	6.4	10.1	18.0	40	0.177	.	.	.	.	.
3.5	4.9	7.7	12.2	22	49	0.197	.	.	.	.	.
4.5	6.4	10.1	16.0	29	64	0.217	.	.	.	.	.
5.6	7.9	12.5	19.8	35	78	0.236	.	.	.	.	.
7.0	9.9	15.7	25	44	99	0.276	.	.	.	.	.
8.8	12.4	19.6	31	55	124	0.315	.	.	.	.	.



# Flush Mounted Shower Nozzles

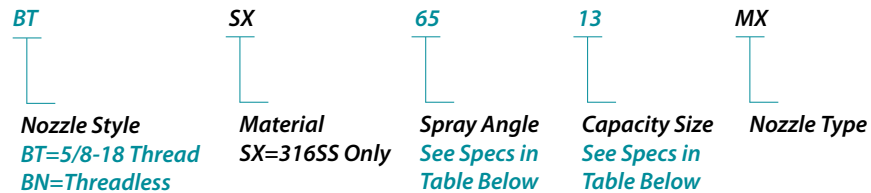
BT & BN



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**



## Specifications - Spray Angles 25° - 60°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE @ 40 PSI	CAPACITY SIZE	EQUIVALENT ORIFICE DIAMETER (INCHES)*	NOZZLE STYLE	
10	20	30	40	60	80	100	150				BT	BN
0.50	0.71	0.86	1.0	1.2	1.4	1.6	1.9	25	10		.	
0.42	0.59	0.73	0.84	1.0	1.2	1.3	1.6	35	084	0.076		.
1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6		24	0.125		.
3.5	5.0	6.2	7.2	8.8	10.1	11.3	14.0		72	0.218		.
4.0	5.6	6.9	8.0	9.8	11.3	12.6	15.5		80	0.040	.	
2.0	2.8	3.5	4.0	4.9	5.7	6.3	7.7	40	40		.	
2.4	3.3	4.1	4.7	5.8	6.6	7.4	9.1		47	0.187	.	
3.4	4.7	5.8	6.7	8.2	9.5	10.6	13.0		67		.	
3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6		70	0.218	.	
4.3	6.0	7.4	8.5	10.4	12.2	13.4	16.5		85	0.250	.	
0.40	0.57	0.69	0.80	0.98	1.1	1.2	1.5	43	08	0.076	.	
0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5		13	0.093	.	.
0.17	0.23	0.29	0.33	0.40	0.47	0.52	0.64	50	033		.	
0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5		13	0.093		.
1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6		24	0.125	.	.
1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4		33	0.156	.	
1.9	2.6	3.2	3.7	4.5	5.2	5.9	7.2		37		.	
0.27	0.38	0.47	0.54	0.66	0.76	0.84	1.0		55	054	0.062	.
0.40	0.57	0.69	0.80	0.98	1.1	1.2	1.5	08		0.076	.	
1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6	58	24	0.125	.	
1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4		33	0.156	.	
0.27	0.38	0.47	0.54	0.66	0.76	0.85	1.0	60	054	0.062	.	

# Flush Mounted Shower Nozzles

BT & BN

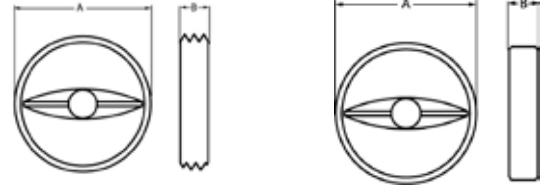


BT

BN

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

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°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE @ 40 PSI	CAPACITY SIZE	EQUIVALENT ORIFICE DIAMETER (INCHES)*	NOZZLE STYLE	
10	20	30	40	60	80	100	150				BT	BN
0.27	0.38	0.47	0.54	0.66	0.76	0.85	1.0	65	054	0.062	.	
0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5		13	0.093	.	.
0.95	1.3	1.6	1.9	2.3	2.7	3.0	3.7		19	0.111	.	
1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4		33	0.156	.	
2.5	3.5	4.3	5.0	6.1	7.1	7.9	9.7		50	0.187	.	
3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6		70	0.218	.	
1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6	68	24	0.125	.	.
2.0	2.8	3.5	4.0	4.9	5.7	6.3	7.7		40		.	
3.2	4.5	5.5	6.4	7.8	9.1	10.1	12.4		64		.	
3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6		70	0.218	.	
0.12	0.16	0.20	0.23	0.28	0.33	0.36	0.45	70	023	0.040	.	
0.27	0.38	0.47	0.54	0.66	0.76	0.85	1.0		054	0.062		.
0.16	0.23	0.28	0.32	0.39	0.45	0.51	0.62	80	032	0.046	.	
0.27	0.38	0.47	0.54	0.66	0.76	0.85	1.0		054	0.062	.	
0.40	0.57	0.69	0.80	0.98	1.1	1.2	1.5		08	0.076	.	
0.42	0.59	0.73	0.84	1.0	1.2	1.3	1.6		084	0.076	.	
0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5		13	0.093	.	.
1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6		24	0.125	.	.
1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4		33	0.156	.	
2.0	2.8	3.5	4.0	4.9	5.7	6.3	7.7		40		.	
2.7	3.8	4.7	5.4	6.6	7.6	8.5	10.5		54	0.187		.
0.08	0.11	0.14	0.16	0.20	0.23	0.25	0.31		90	016	0.031	.
0.27	0.38	0.47	0.54	0.66	0.76	0.85	1.0	054		0.062	.	.
0.66	0.93	1.1	1.3	1.6	1.8	2.0	2.5	13		0.093	.	.

# Self-Cleaning Nozzles

LD & PN

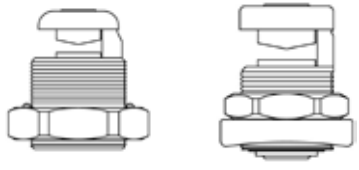


LD

PN

Nozzle Type	Inlet Connection	Length	Hex
LD	1-1/8" - 20UN	1-13/32"	1"
PN	3/4" - 20UNEF	1-5/8"	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: **LD0006SXX**

LD	00	06	SX	MX
Nozzle Style LD = 1½ NPT PN = ¾ NPT	Spray Angle See Specs in Table Below	Capacity Size See Specs in Table Below	Material SX=316SS Only	Nozzle Type

## Specifications - Spray Angles 0° - 40°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	NOZZLE TYPE		
20	40	60	80	100	140	200	250			LD	PN	
0.14	0.20	0.25	0.28	0.32	0.37	0.45	0.50	0	02	.	.	
0.31	0.44	0.53	0.62	0.69	0.81	0.97	1.1		043	.	.	
0.35	0.50	0.61	0.71	0.79	0.94	1.1	1.3		05	.	.	
0.42	0.60	0.73	0.85	0.95	1.1	1.3	1.5		06	.	.	
0.56	0.80	0.98	1.1	1.3	1.5	1.8	2.0		08	.	.	
0.71	1.0	1.2	1.4	1.6	1.9	2.2	2.5		10	.	.	
0.42	0.60	0.73	0.85	0.95	1.1	1.3	1.5	15	06	.	.	
0.35	0.50	0.61	0.71	0.79	0.94	1.1	1.3		05	.	.	
0.92	1.3	1.6	1.8	2.1	2.4	2.9	3.3		30	13	.	.
0.99	1.4	1.7	2.0	2.2	2.6	3.1	3.5			14	.	.
2.80	4.00	4.90	5.70	6.30	7.5	8.9	10.0	40	40	.	.	
0.56	0.80	0.98	1.1	1.3	1.5	1.8	2.0		08	.	.	
0.85	1.2	1.5	1.7	1.9	2.2	2.7	3.0		12	.	.	
0.92	1.3	1.6	1.8	2.1	2.4	2.9	3.3		13	.	.	
0.99	1.4	1.7	2.0	2.2	2.6	3.1	3.5		14	.	.	
1.4	2.0	2.4	2.8	3.2	3.7	4.5	5.0		20	.	.	
2.3	3.2	3.9	4.5	5.1	6.0	7.2	8.0		32	.	.	
3.2	4.5	5.5	6.4	7.1	8.4	10.1	11.3		45	.	.	

# Self-Cleaning Nozzles

LD & PN

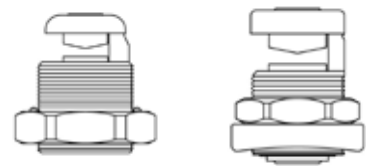


LD

PN

Nozzle Type	Inlet Connection	Length	Hex
LD	1-1/8" - 20UN	1-13/32"	1"
PN	3/4" - 20UNEF	1-5/8"	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: **PN0006SXXM**

PN

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

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	NOZZLE TYPE	
20	40	60	80	100	140	200	250			LD	PN
1.1	1.6	2.0	2.3	2.5	3.0	3.6	4.0	45	16	.	.
1.8	2.5	3.1	3.5	4	4.7	5.6	6.3		25	.	.
3.0	4.2	5.1	5.9	6.6	7.9	9.4	10.5		42	.	.
0.35	0.50	0.61	0.71	0.79	0.94	1.1	1.3	60	05	.	.
0.85	1.2	1.5	1.7	1.9	2.2	2.7	3.0		12	.	.
0.99	1.4	1.7	2.0	2.2	2.6	3.1	3.5		14	.	.
1.1	1.6	2.0	2.3	2.5	3.0	3.6	4.0		16	.	.
1.4	2.0	2.4	2.8	3.2	3.7	4.5	5.0		20	.	.
1.8	2.5	3.1	3.5	4.0	4.7	5.6	6.3		25	.	.
2.2	3.1	3.8	4.4	4.9	5.8	6.9	7.8		31	.	.
2.7	3.8	4.7	5.4	6.0	7.1	8.5	9.5		38	.	.
3.5	5.0	6.2	7.0	8.0	9.4	11.2	12.6		50	.	.
0.35	0.50	0.61	0.71	0.79	0.94	1.1	1.3		80	05	.
0.78	1.1	1.3	1.5	1.7	2.1	2.5	2.8	11		.	.
1.3	1.9	2.3	2.7	3.0	3.6	4.2	4.8	19		.	.
2.1	3.0	3.7	4.2	4.7	5.6	6.7	7.5	30		.	.
2.5	3.6	4.4	5.1	5.7	6.7	8.0	9.0	36		.	.
3.3	4.6	5.6	6.5	7.3	8.6	10.3	11.5	46		.	.
0.57	0.80	0.98	1.1	1.3	1.5	1.8	2.0	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"	1/2"
	1/4"	1"	9/16"
VVJBMX	1/8"	7/8"	1/2"
	1/4"	29/32"	9/16"
VVFJBMX	1/8"	1-13/32"	1/2"
	1/4"	1-1/2"	9/16"



UJBMX

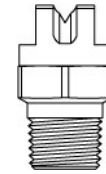


VVJBMX

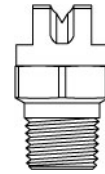


VVFJBMX

DIMENSIONAL DATA



UJBMX



VVJBMX



VVFJBMX

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

### How to Order - UJBMX- Regular Orifice

Example: **1/4USXJB2570MX**

1/4

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

U

**Nozzle Type**

SX

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

JB

**Nozzle Type**

25

**Spray Angle**  
 See Specs in Tables

70

**Capacity Size**  
 See Specs in Tables

MX

**Nozzle Type**

### How to Order - VVJBMX - Small Orifice

Example: **1/4VVFSJB6508MX**

1/4

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

VV

**Nozzle Type**

F

**Optional Strainer**  
 Blank = No Strainer  
 F = Strainer

S

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

JB

**Nozzle Type**

65

**Spray Angle**  
 See Specs in Tables

08

**Capacity Size**  
 See Specs in Tables

MX

**Nozzle Type**

Replacement FilterScreens Can Be Ordered As:

For 1/8VVFSJBMX:

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

For 1/4VVFSJBMX

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

# 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**

## Specifications - Spray Angle 110°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"		AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	BRASS	303SS	316SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	UJBMX	UJBMX	.	.	.	.
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	UJBMX	UJBMX	.	.	.	.
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	UJBMX	UJBMX	.	.	.	.
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	UJBMX	UJBMX	.	.	.	.
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	UJBMX	UJBMX	.	.	.	.
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	1.58	1.8	05	0.057	UJBMX	UJBMX	.	.	.	.
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	1.9	2.1	06	0.062	UJBMX	UJBMX	.	.	.	.
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	UJBMX	UJBMX	.	.	.	.
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	.	.	.	.

## Specifications - Spray Angle 95°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	.014	0.16	0.18	0050	0.018	UJBMX				.	.	.	.	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	UJBMX	UJBMX			.	.	.	.	
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	UJBMX	UJBMX			.	.	.	.	
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	UJBMX	UJBMX			.	.	.	.	
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	UJBMX	UJBMX			.	.	.	.	
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	UJBMX	UJBMX			.	.	.	.	
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	1.6	1.8	05	0.057	UJBMX	UJBMX			.	.	.	.	
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	1.9	2.1	06	0.062	UJBMX	UJBMX			.	.	.	.	
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	UJBMX	UJBMX			.	.	.	.	
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX		UJBMX	.	.	.	.	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX		UJBMX	.	.	.	.	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX		.	.	.	.	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX		UJBMX	.	.	.	.	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156		UJBMX	UJBMX	UJBMX	.	.	.	.	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172		UJBMX		UJBMX	.	.	.	.	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186		UJBMX		UJBMX	.	.	.	.	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203		UJBMX	UJBMX	UJBMX	.	.	.	.	
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25				UJBMX	.	.	.	.	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX	.	.	.	.	
14.1	20	28	35	40	49	57	63	89	110	126	141	400	0.472				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**

## Specifications - Spray Angle 80°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	.014	0.16	0.18	0050	0.018	VVJBMX	VVJBMX							
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0.22	0.24	0067	0.021	VVJBMX	VVJBMX							
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX							
0.05	0.08	0.11	0.13	0.15	0.12	0.21	0.24	0.34	0.41	0.47	0.53	15	0.031	VVJBMX	VVJBMX							
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX							
0.09	0.13	0.18	0.22	0.25	0.31	0.35	0.4	0.56	0.68	0.79	0.88	25	0.04	VVJBMX	VVJBMX							
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX							
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX							
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	1.6	1.8	05	0.057	VVJBMX	VVJBMX							
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX							
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX							
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	UJBMX						
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX						
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX						
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX	UJBMX						
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX						
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172			UJBMX						
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186			UJBMX	UJBMX					
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203			UJBMX	UJBMX					
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	25.3	28	80	0.219			UJBMX	UJBMX					
3.2	4.5	6.4	7.8	9	11	12.7	14.2	20.1	24.7	28.5	32	90	0.234			UJBMX	UJBMX					
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX					
4.2	6	8.5	10.4	12	14.7	17	19	26.8	33	37.9	42	120	0.266			UJBMX	UJBMX					
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX					
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				UJBMX					
10.6	15	21.2	26	30	36.7	42.4	47.4	67.1	82	94.9	106	300	0.422					UJBMX				
14.1	20	28.3	34.6	40	49	56.6	63.2	89.4	110	126	142	400	0.5					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**

## Specifications - Spray Angle 65°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS			OPTIONAL STRAINER	
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS		
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0.054	0.06	0017	0.011	VVJBMX					.	.	.	.	
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0.104	0.12	0033	0.015	VVJBMX					.	.	.	.	
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0.22	0.24	0067	0.021	VVJBMX	VVJBMX				.	.	.	.	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX				.	.	.	.	
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	VVJBMX	VVJBMX				.	.	.	.	
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX				.	.	.	.	
0.09	0.13	0.18	0.22	0.25	0.31	0.35	0.4	0.56	0.68	0.79	0.88	025	0.04	VVJBMX	VVJBMX				.	.	.	.	
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX				.	.	.	.	
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX				.	.	.	.	
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	1.6	1.8	05	0.057	VVJBMX	VVJBMX				.	.	.	.	
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX				.	.	.	.	
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX				.	.	.	.	
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	UJBMX			.	.	.	.	
0.53	0.75	1.06	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX	UJBMX		.	.	.	.	
0.71	1	1.41	1.7	2	2.5	2.8	3.2	4.5	5.5	6.32	7.1	20	0.109	UJBMX	UJBMX	UJBMX	UJBMX		.	.	.	.	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.49	10.6	30	0.141	UJBMX	UJBMX	UJBMX			.	.	.	.	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX			.	.	.	.	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172	UJBMX	UJBMX	UJBMX	UJBMX		.	.	.	.	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186		UJBMX	UJBMX	UJBMX		.	.	.	.	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203		UJBMX	UJBMX	UJBMX		.	.	.	.	
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	25.3	28	80	0.219			UJBMX	UJBMX		.	.	.	.	
3.2	4.5	6.4	7.8	9	11	12.7	14.2	20.1	24.7	28.5	32	90	0.234			UJBMX	UJBMX		.	.	.	.	
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX		.	.	.	.	
4.2	6	8.5	10.4	12	14.7	17	19	26.8	33	37.9	42	120	0.266			UJBMX	UJBMX		.	.	.	.	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX		.	.	.	.	
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				UJBMX	UJBMX	.	.	.	.	
10.6	15	21.2	26	30	36.7	42.4	47.4	67.1	82	94.9	106	300	0.422					UJBMX	.	.	.	.	
14.1	20	28.3	34.6	40	49	56.6	63.2	89.4	110	126	142	400	0.5						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**

## Specifications - Spray Angle 50°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX				.	.	.	.
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	VVJBMX	VVJBMX				.	.	.	.
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX				.	.	.	.
0.09	0.13	0.18	0.22	0.25	0.12	0.35	0.4	0.56	0.68	0.79	0.88	025	0.04	VVJBMX	VVJBMX				.	.	.	.
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX				.	.	.	.
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX				.	.	.	.
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	1.6	1.8	05	0.057	VVJBMX	VVJBMX				.	.	.	.
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX				.	.	.	.
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX				.	.	.	.
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	UJBMX			.	.	.	.
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX			.	.	.	.
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX			.	.	.	.
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX	UJBMX			.	.	.	.
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX			.	.	.	.
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172			UJBMX			.	.	.	.
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186			UJBMX	UJBMX		.	.	.	.
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203			UJBMX	UJBMX		.	.	.	.
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	25.3	28	80	0.219			UJBMX	UJBMX		.	.	.	.
3.2	4.5	6.4	7.8	9	11	12.7	14.2	20.1	24.7	28.5	32	90	0.234			UJBMX	UJBMX		.	.	.	.
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX		.	.	.	.
4.2	6	8.5	10.4	12	14.7	17	19	26.8	33	37.9	42	120	0.266			UJBMX	UJBMX		.	.	.	.
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX		.	.	.	.
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				UJBMX		.	.	.	.
10.6	15	21.2	26	30	36.7	42.4	47.4	67.1	82	94.9	106	300	0.422					UJBMX	.	.	.	.
14.1	20	28.3	34.6	40	49	56.6	63.2	89.4	110	126	142	400	0.5					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**

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**

## Specifications - Spray Angle 40°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"				AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	BRASS	303SS	316SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX			.	.	.	.
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	VVJBMX	VVJBMX			.	.	.	.
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX			.	.	.	.
0.11	0.15	0.21	0.26	0.3	0.42	0.47	0.57	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX			.	.	.	.
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX			.	.	.	.
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	1.58	1.8	05	0.057	VVJBMX	VVJBMX			.	.	.	.
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX			.	.	.	.
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX			.	.	.	.
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	UJBMX		.	.	.	.
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX		.	.	.	.
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX		.	.	.	.
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX	UJBMX		.	.	.	.
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX		.	.	.	.
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172		UJBMX	UJBMX	UJBMX	.	.	.	.
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186		UJBMX	UJBMX	UJBMX	.	.	.	.
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203		UJBMX	UJBMX	UJBMX	.	.	.	.
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	25.3	28	80	0.219		UJBMX	UJBMX	UJBMX	.	.	.	.
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX	.	.	.	.
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297			UJBMX	UJBMX	.	.	.	.
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344			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**

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**

## Specifications - Spray Angle 25°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"				AVAILABLE MATERIALS			OPTIONAL STRAINER	
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	BRASS	303SS	316SS		
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX			.	.	.	.	
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX			.	.	.	.	
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX			.	.	.	.	
0.14	0.2	0.28	0.35	0.4	0.5	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX			.	.	.	.	
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	1.58	1.8	05	0.057	VVJBMX	VVJBMX			.	.	.	.	
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX			.	.	.	.	
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX			.	.	.	.	
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX	UJBMX		.	.	.	.	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX		.	.	.	.	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX		.	.	.	.	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX	UJBMX		.	.	.	.	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX		.	.	.	.	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172			UJBMX		.	.	.	.	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186			UJBMX	UJBMX	.	.	.	.	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203			UJBMX	UJBMX	.	.	.	.	
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX	.	.	.	.	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX	.	.	.	.	
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				UJBMX	.	.	.	.	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX	UJBMX	.	.	.	.
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				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**

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**

## Specifications - Spray Angle 15°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)												CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"				AVAILABLE MATERIALS			OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300	400	500			1/8	1/4	3/8	1/2	BRASS	303SS	316SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	VVJBMX	VVJBMX			.	.		.
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	VVJBMX	VVJBMX			.	.	.	.
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	VVJBMX	VVJBMX			.	.	.	.
0.14	0.2	0.28	0.35	0.4	0.5	0.61	0.71	0.89	1.1	1.3	1.4	04	0.052	VVJBMX	VVJBMX			.	.	.	.
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	1.58	1.8	05	0.057	VVJBMX	VVJBMX			.	.	.	.
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	1.9	2.1	06	0.062	VVJBMX	VVJBMX			.	.	.	.
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	VVJBMX	VVJBMX			.	.	.	.
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX			.	.	.	.
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX	UJBMX		.	.	.	.
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX		.	.	.	.
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX	UJBMX		.	.	.	.
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX	UJBMX		.	.	.	.
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172			UJBMX	UJBMX	.	.	.	.
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186			UJBMX	UJBMX	.	.	.	.
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203			UJBMX	UJBMX	.	.	.	.
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX	UJBMX	.	.	.	.
4.2	6	8.5	10.4	12	14.7	17	19	26.8	33	37.9	42	120	0.266			UJBMX	UJBMX	.	.	.	.
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX	.	.	.	.
7.1	10	14.1	17.3	20	24.5	28.3	31.6	44.7	55	63.2	71	200	0.344				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**

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**

## Specifications - Spray Angle 0°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)													CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES) <sup>1</sup>	NOZZLE TYPE PIPE SIZE NPT <sup>2</sup>					AVAILABLE MATERIALS			OPTIONAL STRAINER	
5	10	20	30	40	60	80	100	200	300	400	500	1/8			1/4	3/8	1/2	3/4	BRASS	303SS	316SS			
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	0.32	0.35	01	0.026	UJBMX	UJBMX					.	.	.	.	
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.47	0.53	015	0.031	UJBMX	UJBMX					.	.	.	.	
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	0.63	0.71	02	0.036	UJBMX	UJBMX					.	.	.	.	
0.09	0.13	0.18	0.22	0.25	0.32	0.35	0.4	0.56	0.68	0.79	0.88	025	0.04	UJBMX	UJBMX					.	.	.	.	
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	0.95	1.1	03	0.043	UJBMX	UJBMX					.	.	.	.	
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	1.3	1.4	04	0.052	UJBMX	UJBMX					.	.	.	.	
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	1.58	1.8	05	0.057	UJBMX	UJBMX					.	.	.	.	
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	1.9	2.1	06	0.062	UJBMX	UJBMX					.	.	.	.	
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	2.5	2.8	08	0.072	UJBMX	UJBMX					.	.	.	.	
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	3.2	3.5	10	0.08	UJBMX	UJBMX					.	.	.	.	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	4.7	5.3	15	0.094	UJBMX	UJBMX					.	.	.	.	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	6.3	7.1	20	0.109	UJBMX	UJBMX	UJBMX					.	.	.	.
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	9.5	10.6	30	0.141	UJBMX	UJBMX					.	.	.	.	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	12.6	14.2	40	0.156	UJBMX	UJBMX					.	.	.	.	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	15.8	17.7	50	0.172							.	.	.	.	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	19	21	60	0.186							.	.	.	.	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	22.1	25	70	0.203			UJBMX				.	.	.	.	
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	25.3	28	80	0.219			UJBMX				.	.	.	.	
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	31.6	35	100	0.25			UJBMX				.	.	.	.	
4.2	6	8.5	10.4	12	14.7	17	19	26.8	33	37.9	42	120	0.266			UJBMX				.	.	.	.	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	47.4	53	150	0.297				UJBMX			.	.	.	.	
8.8	12.5	17.7	22	25	31	35	40	56	68		88	250	0.373				UJBMX	UJBMX		.	.	.	.	
12.4	17.5	25	30	35	43	49	55	78	96		124	350	0.437					UJBMX		.	.	.	.	
25	35	49	61	70	86	99	111	157	192		247	700	0.618						UJBMX	.	.	.	.	

# Quick-Connect Flat Fan

## QUJBMX & QVVJBMX

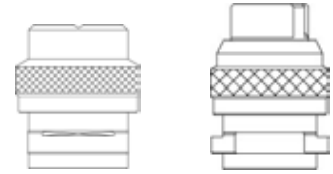


QUJBMX

QVVJBMX

Nozzle Type	Length
QUJBMX	7/8"
QVVJBMX	1-1/32"

DIMENSIONAL DATA



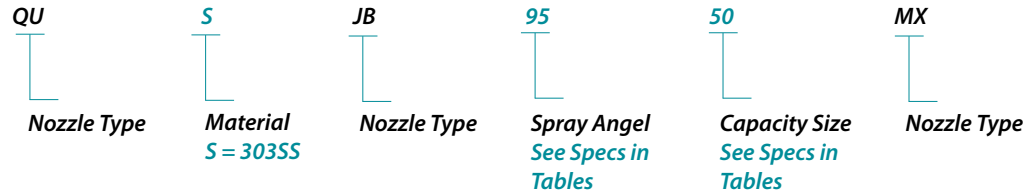
QUJBMX

QVVJBMX

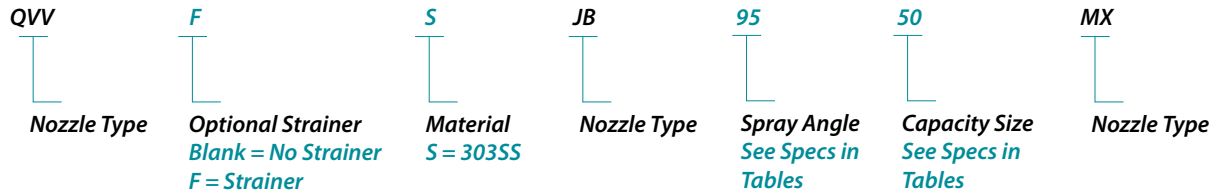
The QUJBMX and QVVJBMX Flat Fan Nozzles and Gaskets are designed for use with a Quick-Connect base to allow easy changeout for shower bars that require regular maintenance.

## How to Order

Example: **QUSJB9550MX**



Example: **QVVSJB11002MX**



Replacement Gaskets: **QVGSKT**

Standard Bases: **1/4QJSJBMX; 1/4QJJSJBMX**

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

## Specifications - Spray Angle - 110°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB	303SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1.0	1.2	1.4	1.6	2.2	2.7	10	0.08	QVVJBMX		•	•
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094	QVVJBMX		•	•
0.71	1.0	1.4	1.7	2.0	2.4	2.8	3.2	4.5	5.5	20	0.109	QVVJBMX		•	•

# Quick-Connect Flat Fan

## Specifications - Spray Angle - 95°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJJB	303SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJJB	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJJB	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJJB	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJJB	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJJB	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJJB	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJJB	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJJB	•	
3.5	5	7.1	8.7	10	12.2	14.1	15.8	22.4	27	100	0.25		QUJJB	•	
5.3	7.5	10.6	13	15	18.4	21.2	23.7	33.5	41	150	0.297		QUJJB	•	

## Specifications - Spray Angle - 80°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJJB	303SS	
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0050	0.018	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJJB	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJJB	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJJB	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJJB	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJJB	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJJB	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJJB	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJJB	•	

# Quick-Connect Flat Fan

## Specifications - Spray Angle - 65°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB		
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0017	0.011	QVVJBMX		•	•
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0033	0.015	QVVJBMX		•	•
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0025	0.013	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.06	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.41	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	

## Specifications - Spray Angle - 50°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB		
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0017	0.011	QVVJBMX		•	•
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0033	0.015	QVVJBMX		•	•
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0025	0.013	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.1	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.3	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	



# Quick-Connect Flat Fan

## Specifications - Spray Angle - 40°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB		
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0017	0.011	QVVJBMX		•	•
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0033	0.015	QVVJBMX		•	•
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0025	0.013	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	

## Specifications - Spray Angle - 25°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB		
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0017	0.011	QVVJBMX		•	•
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0033	0.015	QVVJBMX		•	•
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0025	0.013	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	

# Quick-Connect Flat Fan

## Specifications - Spray Angle - 15°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB	303SS	
		0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0017	0.011	QVVJBMX		•	•
		0.023	0.029	0.033	0.04	0.047	0.052	0.07	0.09	0033	0.015	QVVJBMX		•	•
		0.035	0.043	0.05	0.06	0.07	0.08	0.11	0.14	0025	0.013	QVVJBMX		•	•
	0.03	0.05	0.06	0.067	0.08	0.09	0.11	0.15	0.18	0067	0.021	QVVJBMX		•	•
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	

## Specifications - Spray Angle - 0°

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS	OPTIONAL STRAINER
5	10	20	30	40	60	80	100	200	300			QVVJBMX	QUJB	303SS	
0.03	0.05	0.07	0.09	0.1	0.12	0.14	0.16	0.22	0.27	01	0.026	QVVJBMX		•	•
0.05	0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	015	0.031	QVVJBMX		•	•
0.07	0.1	0.14	0.17	0.2	0.25	0.28	0.32	0.45	0.55	02	0.036	QVVJBMX		•	•
0.11	0.15	0.21	0.26	0.3	0.37	0.42	0.47	0.67	0.82	03	0.043	QVVJBMX		•	•
0.14	0.2	0.28	0.35	0.4	0.49	0.57	0.63	0.89	1.1	04	0.052	QVVJBMX		•	•
0.18	0.25	0.35	0.43	0.5	0.61	0.71	0.79	1.12	1.4	05	0.057	QVVJBMX		•	•
0.21	0.3	0.42	0.52	0.6	0.74	0.85	0.95	1.34	1.6	06	0.062	QVVJBMX		•	•
0.28	0.4	0.57	0.69	0.8	0.98	1.1	1.3	1.8	2.2	08	0.072	QVVJBMX		•	•
0.35	0.5	0.71	0.87	1	1.2	1.4	1.6	2.2	2.7	10	0.08		QUJBMX	•	
0.53	0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	15	0.094		QUJBMX	•	
0.71	1	1.4	1.7	2	2.5	2.8	3.2	4.5	5.5	20	0.109		QUJBMX	•	
1.1	1.5	2.1	2.6	3	3.7	4.2	4.7	6.7	8.2	30	0.141		QUJBMX	•	
1.4	2	2.8	3.5	4	4.9	5.7	6.3	8.9	11	40	0.156		QUJBMX	•	
1.8	2.5	3.5	4.3	5	6.1	7.1	7.9	11.2	13.7	50	0.172		QUJBMX	•	
2.1	3	4.2	5.2	6	7.4	8.5	9.5	13.4	16.4	60	0.186		QUJBMX	•	
2.5	3.5	5	6.1	7	8.6	9.9	11.1	15.6	19.2	70	0.203		QUJBMX	•	
2.8	4	5.7	6.9	8	9.8	11.3	12.6	17.9	22	80	0.219		QUJBMX	•	



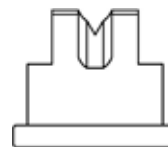
TPJBMX

TPJB MX for Capacities	Length
017 to 08	3/8"
10 to 20	1/2"
30 to 40	1"
50 to 70	1-1/16"

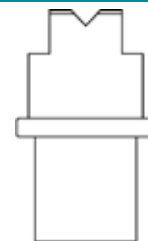
DIMENSIONAL DATA



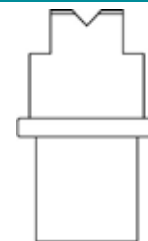
For Capacity  
017 to 08



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

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	AVAILABLE SPRAY ANGLES @ 40 PSI								AVAILABLE MATERIALS		
10	20	30	40	60	80	100	200	300	500			0	15	25	40	50	65	80	95	110	BRASS	303SS
	0.012	0.015	0.017	0.021	0.024	0.027	0.038	0.047	0.06	0017	0.011		.	.	.	.	.	.	.	.	.	.
	0.018	0.022	0.025	0.031	0.035	0.040	0.06	0.07	0.09	0025	0.013		.	.	.	.	.	.	.	.	.	.
0.020	0.023	0.029	0.033	0.040	0.047	0.052	0.07	0.09	0.12	0033	0.015	.	.	.	.	.	.	.	.	.	.	.
0.025	0.035	0.043	0.050	0.06	0.07	0.08	0.11	0.14	0.18	0050	0.018	.	.	.	.	.	.	.	.	.	.	.
0.033	0.050	0.060	0.067	0.08	0.09	0.11	0.15	0.18	0.24	0067	0.021	.	.	.	.	.	.	.	.	.	.	.
0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.22	0.27	0.35	01	0.026	.	.	.	.	.	.	.	.	.	.	.
0.08	0.11	0.13	0.15	0.18	0.21	0.24	0.34	0.41	0.53	015	0.032	.	.	.	.	.	.	.	.	.	.	.
0.10	0.14	0.17	0.20	0.25	0.28	0.32	0.45	0.55	0.71	02	0.035	.	.	.	.	.	.	.	.	.	.	.
0.15	0.21	0.26	0.30	0.37	0.42	0.47	0.67	0.82	1.1	03	0.043	.	.	.	.	.	.	.	.	.	.	.
0.20	0.28	0.35	0.40	0.49	0.57	0.63	0.89	1.1	1.4	04	0.05	.	.	.	.	.	.	.	.	.	.	.
0.25	0.35	0.43	0.50	0.61	0.71	0.79	1.1	1.4	1.8	05	0.056	.	.	.	.	.	.	.	.	.	.	.
0.30	0.42	0.52	0.60	0.74	0.85	0.95	1.3	1.6	2.1	06	0.061	.	.	.	.	.	.	.	.	.	.	.
0.40	0.57	0.69	0.80	0.98	1.1	1.3	1.8	2.2	2.8	08	0.071	.	.	.	.	.	.	.	.	.	.	.
0.50	0.71	0.87	1.0	1.2	1.4	1.6	2.2	2.7	3.5	10	0.079	.	.	.	.	.	.	.	.	.	.	.
0.60	0.85	1.0	1.2	1.5	1.7	1.9	2.7	3.3	4.2	12	0.087	.	.	.	.	.	.	.	.	.	.	.
0.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4	4.1	5.3	15	0.097	.	.	.	.	.	.	.	.	.	.	.
1.0	1.4	1.7	2.0	2.4	2.8	3.2	4.5	5.5	7.1	20	0.112	.	.	.	.	.	.	.	.	.	.	.
1.3	1.8	2.2	2.5	3.1	3.5	4.0	5.6	6.8	8.8	25	0.121			.		.		.		.		.
1.5	2.1	2.6	3.0	3.7	4.2	4.7	6.7	8.2	10.6	30	0.133	.	.	.	.	.	.	.	.	.	.	.
2.0	2.8	3.5	4.0	4.9	5.7	6.3	8.9	11.0	14.1	40	0.153	.	.	.	.	.	.	.	.	.	.	.
2.5	3.5	4.3	5.0	6.1	7.1	7.9	11.2	13.7	17.7	50	0.172		.	.	.	.	.	.		.		.
3.0	4.2	5.2	6.0	7.3	8.5	9.5	13.4	16.4	21.0	60	0.188		.	.	.	.	.	.		.		.
3.5	4.9	6.1	7.0	8.6	9.9	11.1	15.7	19.2	25.0	70	0.203		.	.	.	.	.	.		.		.

# Low Impact Nozzles

## Threaded Deflected Flat Fan Nozzles



KJBMX

Inlet Connection	Length	Hex
1/8	1"	7/16"
1/4	1-7/32"	9/16"
3/8	1-3/4"	11/16"
1/2	2"	7/8"
3/4	2-9/16"	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**

### Specifications - Capacities .25 to 27

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS		
3	5	10	15	20	30	40	60	80	100				1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
0.014	0.018	0.025	0.031	0.035	0.043	0.050	0.061	0.071	0.079	100	.25	0.017	KJBMX					.	.	.
0.027	0.035	0.050	0.061	0.071	0.087	0.10	0.12	0.14	0.16	105	.50	0.023	KJBMX					.	.	.
0.041	0.053	0.075	0.092	0.11	0.13	0.15	0.18	0.21	0.24	115	.75	0.029	KJBMX					.	.	.
0.055	0.071	0.10	0.12	0.14	0.17	0.20	0.25	0.28	0.32	115	1	0.033	KJBMX					.	.	.
0.082	0.11	0.15	0.18	0.21	0.26	0.30	0.37	0.42	0.47	115	1.5	0.040	KJBMX					.	.	.
0.11	0.14	0.20	0.25	0.28	0.35	0.40	0.49	0.57	0.63	121	2	0.047	KJBMX	KJBMX				.	.	.
0.14	0.18	0.25	0.31	0.35	0.43	0.50	0.61	0.71	0.79	127	2.5	0.052	KJBMX	KJBMX				.	.	.
0.16	0.21	0.30	0.37	0.42	0.52	0.60	0.74	0.85	0.95	124	3	0.057	KJBMX	KJBMX				.	.	.
0.22	0.28	0.40	0.49	0.57	0.69	0.80	0.98	1.1	1.3	127	4	0.066	KJBMX					.	.	.
0.27	0.35	0.50	0.61	0.71	0.87	1.0	1.2	1.4	1.6	134	5	0.074	KJBMX	KJBMX				.	.	.
0.41	0.53	0.75	0.92	1.1	1.3	1.5	1.8	2.1	2.4	127	7.5	0.091	KJBMX	KJBMX				.	.	.
0.55	0.71	1.0	1.2	1.4	1.7	2.0	2.5	2.8	3.2	139	10	0.105	KJBMX	KJBMX				.	.	.
0.66	0.85	1.2	1.5	1.7	2.1	2.4	2.9	3.4	3.8	145	12	0.115	KJBMX	KJBMX				.	.	.
0.82	1.1	1.5	1.8	2.1	2.6	3.0	3.7	4.2	4.7	118	15	0.128	KJBMX	KJBMX				.	.	.
0.99	1.3	1.8	2.2	2.6	3.1	3.6	4.4	5.1	5.7	125	18	0.140	KJBMX	KJBMX				.	.	.
1.1	1.4	2.0	2.5	2.8	3.5	4.0	4.9	5.7	6.3	127	20	0.148	KJBMX	KJBMX				.	.	.
1.2	1.6	2.2	2.7	3.1	3.8	4.4	5.4	6.2	7.0	130	22	0.155		KJBMX				.	.	.
1.3	1.7	2.4	2.9	3.4	4.2	4.8	5.9	6.8	7.6	137	24	0.162		KJBMX				.	.	.
1.5	1.9	2.7	3.3	3.8	4.7	5.4	6.6	7.6	8.5	141	27	0.172		KJBMX				.	.	.

# Low Impact Nozzles

## Threaded Deflected Flat Fan Nozzles



KJBMX

Inlet Connection	Length	Hex
1/8	1"	7/16"
1/4	1-7/32"	9/16"
3/8	1-3/4"	11/16"
1/2	2"	7/8"
3/4	2-9/16"	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**



**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**



**Capacity Size**  
 See Specs in Tables



**Nozzle Type**

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)										SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE PIPE SIZE NPT"					AVAILABLE MATERIALS		
3	5	10	15	20	30	40	60	80	100				1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS
1.6	2.1	3.0	3.7	4.2	5.2	6.0	7.4	8.5	9.5	115	30	0.181			KJBMX			•	•	•
1.9	2.5	3.5	4.3	5.0	6.1	7.0	8.6	9.9	11.1	123	35	0.196			KJBMX			•	•	•
2.2	2.8	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	131	40	0.209			KJBMX	KJBMX		•	•	•
2.5	3.2	4.5	5.5	6.4	7.8	9.0	11.0	12.7	14.2	135	45	0.222			KJBMX			•	•	•
2.7	3.5	5.0	6.1	7.1	8.7	10.0	12.2	14.1	16.3	135	50	0.234				KJBMX		•	•	•
3.3	4.2	6.0	7.4	8.5	10.4	12.0	14.7	17.0	19.0	138	60	0.256				KJBMX		•	•	•
3.8	5.0	7.0	8.6	9.9	12.1	14.0	17.1	19.8	22.1	141	70	0.277				KJBMX		•	•	•
4.4	5.7	8.0	9.8	11.3	13.9	16.0	19.6	22.6	25.3	144	80	0.296				KJBMX		•	•	•
4.9	6.4	9.0	11.0	12.7	15.6	18.0	22.0	25.5	28.5	137	90	0.317					KJBMX	•	•	•
5.5	7.1	10.0	12.3	14.1	17.3	20.0	24.5	28.3	31.6	140	100	0.334					KJBMX	•	•	•
6.0	7.8	11.0	13.5	15.6	19.1	22.0	26.9	31.1	34.8	143	110	0.350					KJBMX	•	•	•
6.6	8.5	12.0	14.7	17.0	20.8	24.0	29.4	33.9	37.9	145	120	0.366					KJBMX	•	•	•
7.7	9.9	14.0	17.2	19.8	24.2	28.0	34.3	39.6	44.3	131	140	0.395					KJBMX	•	•	•
8.8	11.3	16.0	19.6	22.6	27.7	32.0	39.2	45.3	50.6	134	160	0.423					KJBMX	•	•	•
9.9	12.7	18.0	22.1	25.5	31.2	36.0	44.1	50.9	56.9	136	180	0.448					KJBMX	•	•	•
11.5	14.8	21.0	25.7	29.7	36.4	42.0	51.4	59.4	66.4	142	210	0.484					KJBMX	•	•	•

# High Impact Nozzles

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.

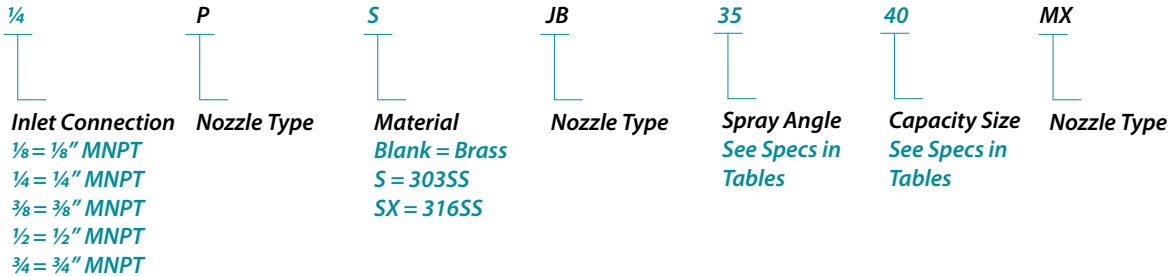


PJBMX

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: **1/4PSJB3540MX**



## Specifications

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE LENGTH A' (INCHES)"	ANGLE OF DEFLECTION	NOZZLE TYPE - PJBMX PIPE SIZE NPT"					AVAILABLE MATERIALS				
15	20	30	40	60	80	100	200						1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS		
0.61	0.71	0.87	1.0	1.2	1.4	1.6	2.2	15	10	0.074	1.875	22		PJBMX				.	.	.		
1.2	1.4	1.7	2.0	2.4	2.8	3.2	4.5		20	0.105	2.125	19		PJBMX				.	.	.		
1.8	2.1	2.6	3.0	3.7	4.2	4.7	6.7		30	0.128	2.844	25			PJBMX			.	.	.		
2.5	2.8	3.5	4.0	4.9	5.7	6.3	9.0		40	0.148	3.625	18			PJBMX			.	.	.		
3.1	3.5	4.3	5.0	6.1	7.1	8.0	11.2		50	0.165	3.563	15			PJBMX			.	.	.		
3.7	4.2	5.2	6.0	7.3	8.5	9.5	13.4		60	0.181	4.938	14				PJBMX			.	.	.	
4.9	5.7	6.9	8.0	9.8	11.3	12.6	17.9		80	0.209	5.125	14				PJBMX			.	.	.	
6.1	7.1	8.7	10.0	12.2	14.1	15.8	22.3		100	0.234	5.375	14				PJBMX			.	.	.	
12.2	14.2	17.0	20.0	24.0	28.0	32.0	44.7		200	0.331	7.500	14					PJBMX			.	.	.
2.5	2.8	3.5	4.0	4.9	5.7	6.3	9.0		25	40	0.148	2.563	25			PJBMX			.	.	.	
0.24	0.28	0.35	0.40	0.49	0.57	0.63	0.89	35	04	0.047	0.906	40	PJBMX					.	.	.		
0.61	0.71	0.87	1.0	1.2	1.4	1.6	2.2		10	0.074	1.438	36		PJBMX				.	.	.		
1.2	1.4	1.7	2.0	2.4	2.8	3.2	4.5		20	0.105	1.656	30		PJBMX	PJBMX			.	.	.		
1.5	1.8	2.2	2.5	3.1	3.5	4.0	5.6		25	0.117	1.938	28			PJBMX			.	.	.		
1.8	2.1	2.6	3.0	3.7	4.2	4.7	6.7		30	0.128	2.063	28			PJBMX			.	.	.		
2.5	2.8	3.5	4.0	4.9	5.7	6.3	9.0		40	0.148	2.281	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.

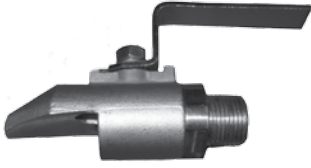
### How to Order

Example: **1/4PSJB3540MX**

1/4	P	S	JB	35	40	MX
└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘
<b>Inlet Connection</b>	<b>Nozzle Type</b>	<b>Material</b>	<b>Nozzle Type</b>	<b>Spray Angle</b>	<b>Capacity Size</b>	<b>Nozzle Type</b>
1/8 = 1/8" MNPT 1/4 = 1/4" MNPT 3/8 = 3/8" MNPT 1/2 = 1/2" MNPT 3/4 = 3/4" MNPT		Blank = Brass S = 303SS SX = 316SS		See Specs in Tables	See Specs in Tables	

### Specifications

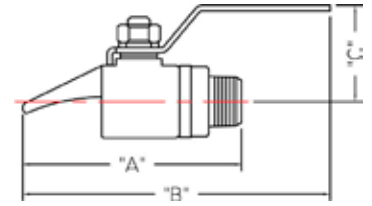
U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE LENGTH A' (INCHES)"	ANGLE OF DEFLECTION	NOZZLE TYPE - PJBMX PIPE SIZE NPT"					AVAILABLE MATERIALS			
15	20	30	40	60	80	100	200						1/8	1/4	3/8	1/2	3/4	BRASS	303SS	316SS	
3.1	3.5	4.3	5.0	6.1	7.1	8.0	11.2	35	50	0.165	2.500	23			PJBMX				•	•	•
3.7	4.2	5.2	6.0	7.3	8.5	9.5	13.4		60	0.181	2.875	27				PJBMX			•	•	•
4.9	5.7	6.9	8.0	9.8	11.3	12.6	17.9		80	0.209	3.188	24				PJBMX			•	•	•
6.1	7.1	8.7	10.0	12.2	14.1	15.8	22.3		100	0.234	3.500	19				PJBMX			•	•	•
9.8	11.3	13.9	16.0	19.6	23.0	25.0	35.8		160	0.296	4.500	23					PJBMX		•	•	•
12.2	14.2	17.0	20.0	24.0	28.0	32.0	44.7		200	0.331	4.813	22					PJBMX		•	•	•
2.5	2.8	3.5	4.0	4.9	5.7	6.3	9.0		40	40	0.148	2.375	35			PJBMX			•	•	•
3.1	3.5	4.3	5.0	6.1	7.1	8.0	11.2	50		0.165	2.500	33				PJBMX			•	•	•
3.7	4.2	5.2	6.0	7.3	8.5	9.5	13.4	60		0.181	2.844	33				PJBMX			•	•	•
4.3	4.9	6.1	7.0	8.6	9.9	11.1	15.7	70		0.196	2.967	29				PJBMX			•	•	•
4.9	5.7	6.9	8.0	9.8	11.3	12.6	17.9	80		0.209	3.031	26				PJBMX			•	•	•
5.5	6.4	7.8	9.0	11.0	12.7	14.2	20.1	90		0.222	3.031	28				PJBMX			•	•	•
6.1	7.1	8.7	10.0	12.2	14.1	15.8	22.3	100		0.234	3.406	28				PJBMX			•	•	•
0.31	0.35	0.43	0.50	0.61	0.71	0.79	1.1	50		05	0.052	1.219	60			PJBMX			•	•	•
0.61	0.71	0.87	1.0	1.2	1.4	1.6	2.2		10	0.074	1.219	60			PJBMX			•	•	•	
1.5	1.8	2.2	2.5	3.1	3.5	4.0	5.6		25	0.117	1.625	42			PJBMX	PJBMX		•	•	•	
2.5	2.8	3.5	4.0	4.9	5.7	6.3	9.0		40	0.148	1.844	45			PJBMX	PJBMX		•	•	•	
3.7	4.2	5.2	6.0	7.3	8.5	9.5	13.4		60	0.181	2.156	37				PJBMX		•	•	•	
6.1	7.1	8.7	10.0	12.2	14.1	15.8	22.3		100	0.234	2.844	40				PJBMX		•	•	•	
7.7	8.8	10.8	12.5	15.3	17.7	19.8	28.0		125	0.261	2.844	38				PJBMX		•	•	•	
9.8	11.3	13.9	16.0	19.6	23.0	25.0	35.8		160	0.296	2.844	37				PJBMX		•	•	•	
12.2	14.2	17.0	20.0	24.0	28.0	32.0	44.7		200	0.331	2.844	32				PJBMX		•	•	•	



DBJBMX

Inlet Connection	A	B	C
3/8"	2-31/32"	4-5/32"	1-9/32"

DIMENSIONAL DATA



DBJBMX

Our Decker Blaster Nozzle is perfect for use in disc filters / save-alls. The high impact fan is ideal for peeling the mat off rotating discs, and the integral full-port ball valve allows for fast and efficient cleaning of the nozzle to eliminate the problem of plugging. Turning the handle 90° opens the orifice to allow flushing. A further 90° turn, cleans the orifice tip. Turning the handle back to it's original position, resets the nozzle - all while it remains in place.

### How to Order

Example: **3/8DBSXJB3520MX**

3/8

Inlet Connection  
3/8" NPT (Only)

DB

Nozzle Type

SX

Material  
SX = 316SS  
(Only)

JB

Nozzle Type

35

Spray Angle  
35° (Only)

20

Capacity Size  
See Specs  
in Table

MX

Nozzle Type

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT 40 PSI	CAPACITY SIZE	APPROX. ORIFICE DIAMETER (INCHES)
15	20	30	40	60	80	100	200			
1.2	1.4	1.7	2.0	2.4	2.8	3.2	4.5	35	20	0.105
1.5	1.8	2.2	2.5	3.1	3.5	4.0	5.6		25	0.117
1.8	2.1	2.6	3.0	3.7	4.2	4.7	6.7		30	0.128



# Full Cone Nozzles

## Standard & Wide Angle



GGJBMX

Inlet Connection	Length	Hex
1/8"	1-9/32"	9/16"
1/4"	1-9/16"	11/16"
3/8"	1-27/32"	13/16"
1/2"	2-7/32"	1"

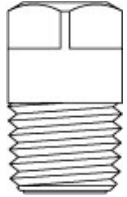
GGJBMX - DIMENSIONAL DATA



HHJBMX

Inlet Connection	Length	Hex
1/8"	1-9/32"	9/16"
1/4"	1-9/16"	11/16"
3/8"	1-27/32"	13/16"
1/2"	2-7/32"	1"

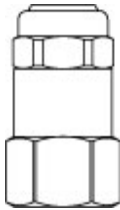
HHJBMX - DIMENSIONAL DATA



GJBMX

Inlet Connection	Length	Hex
1/8"	1-7/32"	9/16"
1/4"	1-15/32"	11/16"
3/8"	1-13/16"	13/16"
1/2"	2-1/4"	1"

GJBMX - DIMENSIONAL DATA



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

## How to Order - Standard Angle

Example: **1/4GGSXJB10MX**

1/4

**Inlet Connection**  
 1/8" = 1/8" NPT  
 1/4" = 1/4" NPT  
 3/8" = 3/8" NPT  
 1/2" = 1/2" NPT

GG

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

SX

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

JB

**Nozzle Type**

10

**Capacity Size**  
 See Specs  
 in Table

MX

**Nozzle Type**

## How to Order - Wide Angle

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

1/8

**Inlet Connection**  
 1/8" = 1/8" NPT  
 1/4" = 1/4" NPT  
 3/8" = 3/8" NPT  
 1/2" = 1/2" NPT

HH

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

S

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

JB

**Nozzle Type**

2.8W

**Capacity Size**  
 See Specs  
 in Table

MX

**Nozzle Type**

# Full Cone Nozzles

## Standard & Wide Angle



GGJB MX



HHJB MX



GJB MX

### Specifications - Standard Angle

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT PRESSURE SHOWN (PSI)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE			AVAILABLE MATERIALS		
10	20	30	40	60	80	100	150	7	20	80					REMOVABLE CAP & VANE	ONE-PIECE	BRASS	303SS	316SS	
0.10	0.14	0.17	0.19	0.23	0.26	0.29	0.35		58	53	1/8	1	0.025	0.031	GJB MX	GGJB MX	HHJB MX	•	•	•
0.15	0.21	0.25	0.28	0.34	0.39	0.43	0.52	52	65	59		1.5	0.025	0.047	GJB MX	GGJB MX	HHJB MX	•	•	•
0.20	0.28	0.33	0.38	0.46	0.52	0.58	0.70	43	50	46		2	0.040	0.047	GJB MX	GGJB MX	HHJB MX	•	•	•
0.30	0.41	0.50	0.57	0.68	0.78	0.87	1.0	52	65	59		3	0.040	0.063	GJB MX	GGJB MX	HHJB MX	•	•	•
0.35	0.48	0.58	0.66	0.80	0.91	1.0	1.2	43	50	46		3.5	0.050	0.063	GJB MX	GGJB MX	HHJB MX	•	•	•
0.50	0.69	0.83	0.95	1.1	1.3	1.4	1.7	52	65	59		5	0.050	0.078	GJB MX	GGJB MX	HHJB MX	•	•	•
0.65	0.89	1.1	1.2	1.5	1.7	1.9	2.3	45	50	46	1/4	6.5	0.063	0.094	GJB MX	GGJB MX	HHJB MX	•	•	•
1.0	1.4	1.7	1.9	2.3	2.6	2.9	3.5	58	67	61		10	0.063	0.109	GJB MX	GGJB MX	HHJB MX	•	•	•
0.95	1.3	1.6	1.8	2.2	2.5	2.7	3.3	45	50	46	3/8	9.5	0.094	0.109	GJB MX	GGJB MX	HHJB MX	•	•	•
1.5	2.1	2.5	2.8	3.4	3.9	4.3	5.2	64	67	61		15	0.094	0.141	GJB MX	GGJB MX	HHJB MX	•	•	•
2.2	3.0	3.6	4.2	5.0	5.7	6.3	7.6	87	90	82		22	0.109	0.188	GJB MX	GGJB MX	HHJB MX	•	•	•
1.6	2.2	2.7	3.0	3.6	4.2	4.6	5.6	48	50	46	1/2	16	0.125	0.141	GJB MX	GGJB MX		•	•	•
2.5	3.4	4.1	4.7	5.7	6.5	7.2	8.7	64	67	61		25	0.125	0.188	GJB MX	GGJB MX	HHJB MX	•	•	•
3.2	4.4	5.3	6.1	7.3	8.3	9.2	11.1	72	75	68		32	0.141	0.203	GJB MX	GGJB MX		•	•	•
4.0	5.5	6.6	7.6	9.1	10.4	11.5	13.9	88	91	83		40	0.141	0.25	GJB MX	GGJB MX	HHJB MX	•	•	•

### Specifications - Wide Angle

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT PRESSURE SHOWN (PSI)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE			AVAILABLE MATERIALS		
10	20	30	40	60	80	100		5	10	80					REMOVABLE CAP & VANE	ONE-PIECE	BRASS	303SS	316SS	
0.15	0.21	0.25	0.28	0.34	0.39	0.43			120	86	1/8	1.5W	0.025	0.047	GJB MX	GGJB MX		•	•	•
0.28	0.39	0.46	0.53	0.64	0.73	0.78			120	102		2.8W	0.040	0.063	GJB MX	GGJB MX	HHJB MX	•	•	•
0.43	0.59	0.71	0.81	0.98	1.1	1.2			120	102		4.3W	0.040	0.078	GJB MX	GGJB MX	HHJB MX	•	•	•
0.56	0.77	0.93	1.1	1.3	1.5	1.6			120	102		5.6W	0.040	0.094	GJB MX	GGJB MX		•	•	•
0.80	1.1	1.3	1.5	1.8	2.1	2.2			120	102		8W	0.050	0.094	GJB MX	GGJB MX	HHJB MX	•	•	•
1.0	1.4	1.7	1.9	2.3	2.6	2.9	112	120	103	1/4		10W	0.050	0.109	GJB MX	GGJB MX		•	•	•
1.2	1.7	2.0	2.3	2.7	3.1	3.4	114	120	103		12W	0.050	0.125	GJB MX	GGJB MX		•	•	•	
1.4	1.9	2.3	2.6	3.2	3.6	3.9	114	120	103		14W	0.063	0.141	GJB MX	GGJB MX	HHJB MX	•	•	•	
1.7	2.3	2.8	3.2	3.9	4.4	4.7	114	120	103	3/8	17W	0.063	0.156	GJB MX	GGJB MX	HHJB MX	•	•	•	
2.0	2.8	3.3	3.8	4.6	5.2	5.6	114	120	104		20W	0.094	0.172	GJB MX	GGJB MX	HHJB MX	•	•	•	
2.4	3.3	4.0	4.5	5.5	6.2	6.7	114	120	104		24W	0.094	0.188	GJB MX	GGJB MX	HHJB MX	•	•	•	
2.7	3.7	4.5	5.1	6.2	7.0	7.5	114	120	106		27W	0.109	0.203	GJB MX	GGJB MX	HHJB MX	•	•	•	
3.0	4.1	5.0	5.7	6.8	7.8	8.4	114	120	108	1/2	30W	0.109	0.219	GJB MX	GGJB MX	HHJB MX	•	•	•	
3.5	4.8	5.8	6.6	8.0	9.1	9.7	114	120	108		35W	0.125	0.234	GJB MX	GGJB MX	HHJB MX	•	•	•	
4.0	5.5	6.6	7.6	9.1	10.4	11.5	114	120	108		40W	0.125	0.250	GJB MX	GGJB MX	HHJB MX	•	•	•	
4.5	6.2	7.5	8.5	10.3	11.7	12.5	114	120	110		45W	0.141	0.250	GJB MX	GGJB MX	HHJB MX	•	•	•	
5.0	6.9	8.3	9.5	11.4	13.0	14.0	114	120	112		50W	0.156	0.266	GJB MX	GGJB MX	HHJB MX	•	•	•	

# Hollow Cone Nozzles

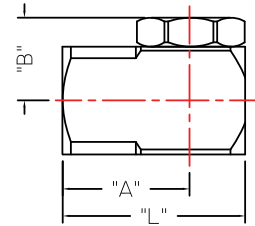
## Standard Angle



AJBMX

Inlet Connection	A	B	L
1/8"	5/8"	3/8"	7/8"
1/4"	13/16"	17/32"	1-1/8"
3/8"	1"	11/16"	1-15/32"
1/2"	1-5/16"	3/4"	1-13/16"

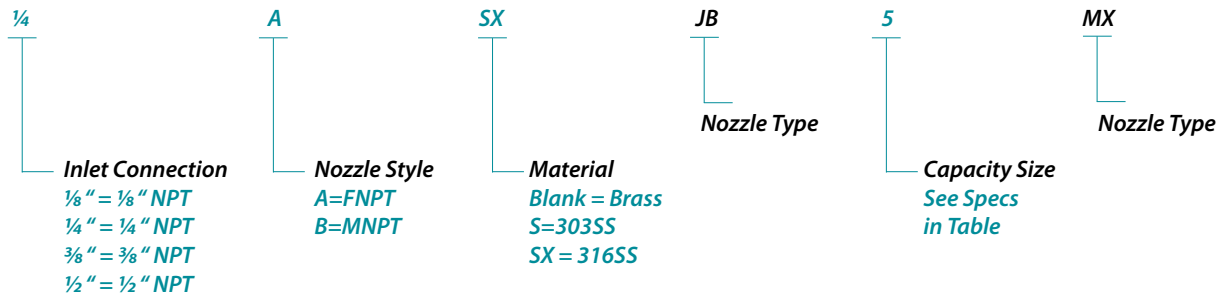
AJBMX - DIMENSIONAL DATA



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**



## Specifications

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT PRESSURE SHOWN (PSI)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS		
10	20	30	40	60	80	100	150	7	20	80					AJBMX	BJBMX	BRASS	303SS	316SS
	0.05	0.07	0.09	0.10	0.12	0.14	0.16		58	69	1/8	.5	0.031	0.047	AJBMX	BJBMX	.	.	.
	0.10	0.14	0.17	0.20	0.24	0.28	0.32		64	76		1	0.063	0.063	AJBMX	BJBMX	.	.	.
0.14	0.20	0.28	0.35	0.40	0.49	0.57	0.63	52	61	69		2	0.078	0.078	AJBMX	BJBMX	.	.	.
0.21	0.30	0.42	0.52	0.60	0.73	0.85	0.95	52	64	77		3	0.094	0.094	AJBMX	BJBMX	.	.	.
0.35	0.50	0.71	0.87	1.00	1.20	1.40	1.60	56	67	76		5	0.125	0.125	AJBMX	BJBMX	.	.	.
0.57	0.80	1.10	1.40	1.60	2.00	2.30	2.50	56	65	70		8	0.156	0.156	AJBMX	BJBMX	.	.	.
0.71	1.00	1.40	1.70	2.00	2.40	2.80	3.20	55	65	72		10	0.172	0.172	AJBMX	BJBMX	.	.	.
	0.10	0.14	0.17	0.20	0.24	0.28	0.32		53	67		1/4	1	0.063	0.063	AJBMX	BJBMX	.	.
	0.20	0.28	0.35	0.40	0.49	0.57	0.63		62	71	2		0.078	0.078	AJBMX	BJBMX	.	.	.
0.21	0.30	0.42	0.52	0.60	0.73	0.85	0.95	51	65	78	3		0.094	0.094	AJBMX	BJBMX	.	.	.
0.35	0.50	0.71	0.87	1.0	1.2	1.4	1.6	63	73	79	5		0.141	0.141	AJBMX	BJBMX	.	.	.
0.57	0.80	1.1	1.4	1.6	2.0	2.3	2.5	61	69	73	8		0.156	0.156	AJBMX	BJBMX	.	.	.
0.71	1.0	1.4	1.7	2.0	2.4	2.8	3.2	63	70	74	10		0.188	0.172	AJBMX	BJBMX	.	.	.
1.1	1.5	2.1	2.6	3.0	3.7	4.2	4.7	63	71	72	15		0.234	0.203	AJBMX	BJBMX	.	.	.

# Hollow Cone Nozzles

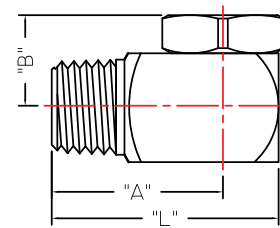
## Standard Angle



BJBMX

Inlet Connection	A	B	L
1/8"	3/4"	7/16"	1-1/32"
1/4"	1"	31/64"	1-5/16"
3/8"	1-1/8"	9/16"	1-9/16"
1/2"	1-3/8"	3/4"	1-7/8"

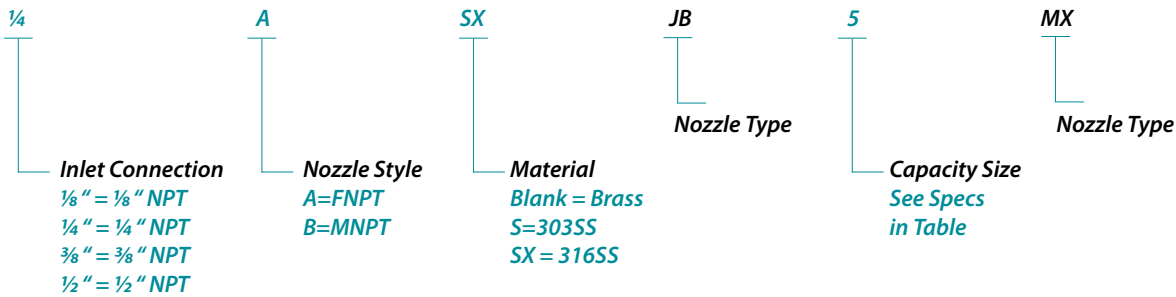
BJBMX - DIMENSIONAL DATA



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**

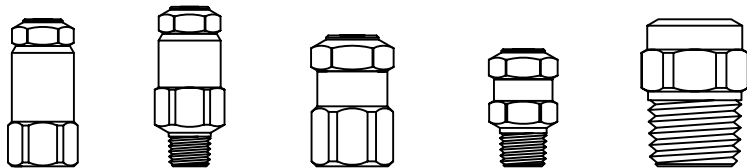


## Specifications

U.S. GALLONS PER MINUTE @ PRESSURE SHOWN (PSI)								SPRAY ANGLE AT PRESSURE SHOWN (PSI)			PIPE SIZE NPT	CAPACITY SIZE	APPROX. FREE PASSAGE	APPROX. ORIFICE DIAMETER (INCHES)"	NOZZLE TYPE		AVAILABLE MATERIALS		
10	20	30	40	60	80	100	150	7	20	80					AJBMX	BJBMX	BRASS	303SS	316SS
0.35	0.50	0.71	0.87	1.0	1.2	1.4	1.6	64	73	79	3/8	5	0.140	0.125	AJBMX	BJBMX	.	.	.
0.57	0.80	1.1	1.4	1.6	2.0	2.3	2.5	62	70	74		8	0.172	0.156	AJBMX	BJBMX	.	.	.
0.71	1.00	1.4	1.7	2.0	2.4	2.8	3.2	64	72	75		10	0.203	0.172	AJBMX	BJBMX	.	.	.
1.1	1.5	2.1	2.6	3.0	3.7	4.2	4.7	64	72	74		15	0.234	0.219	AJBMX	BJBMX	.	.	.
1.4	2.0	2.8	3.5	4.0	4.9	5.7	6.3	63	70	74		20	0.281	0.25	AJBMX	BJBMX	.	.	.
1.8	2.5	3.5	4.3	5.0	6.1	7.1	7.9	63	70	74		25	0.297	0.297	AJBMX	BJBMX	.	.	.
2.1	3.0	4.2	5.2	6.0	7.3	8.5	9.5	63	70	74		30	0.328	0.313	AJBMX	BJBMX	.	.	.
1.8	2.5	3.5	4.3	5.0	6.1	7.1	7.9	63	66	71	1/2	25	0.375	0.25	AJBMX	BJBMX	.	.	.
2.1	3.0	4.2	5.2	6.0	7.3	8.5	9.5	67	71	75		30	0.375	0.297	AJBMX	BJBMX	.	.	.
2.8	4.0	5.7	6.9	8.0	9.8	11.3	12.6	72	76	78		40	0.375	0.359	AJBMX	BJBMX	.	.	.
3.5	5.0	7.1	8.7	10.0	12.2	14.1	15.8	74	79	82		50	0.375	0.438	AJBMX	BJBMX	.	.	.
4.2	6.0	8.5	10.4	12.0	14.7	17.0	19.0	77	82	86		60	0.375	0.516	AJBMX	BJBMX	.	.	.

# Hydraulic Atomizing Nozzles

LNJBMX, LNNJBMX, NJBMX, NNJBMX



LNJBMX

LNNJBMX

NJBMX

NNJBMX

MJBMX

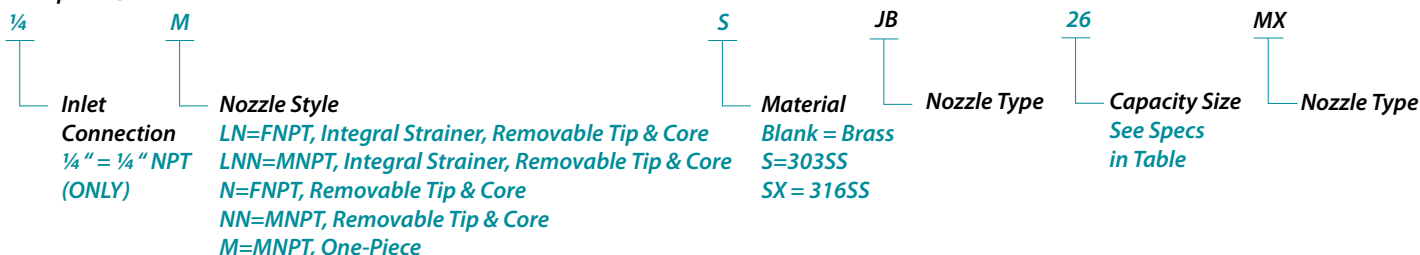
Nozzle Type	Inlet Connection	Length	Body Hex	Cap Hex
LNJBMX	1/4"	1-15/16"	13/16"	11/16"
LNNJBMX	1/4"	2-1/8"	13/16"	11/16"
NJBMX	1/4"	1-5/8"	11/16"	11/16"
NNJBMX	1/4"	1-13/32"	11/16"	11/16"
MJBMX	1/4"	27/32"	9/16"	-

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**



## Specifications

U.S. GALLONS PER HOUR @ PRESSURE SHOWN (PSI)								SPRAY ANGLE @ PRESSURE SHOWN (PSI)			CAPACITY SIZE	APPROX. FREE PASSAGE	APPROX. ORIFICE DIAMETER	NOZZLE TYPE					AVAILABLE MATERIALS		
40	60	100	200	300	500	700	1000	40	80	300				INTEGRAL STRAINER	REMOVABLE CAP	ONE-PIECE	BRASS	303SS	316SS		
				0.82	1.1	1.3	1.5			51	.30	0.006	0.016	LNJBMX	LNNJBMX				.	.	.
				1.1	1.4	1.7	2.0			58	.40	0.008	0.016	LNJBMX	LNNJBMX				.	.	.
			1.1	1.4	1.8	2.1	2.5			63	.50	0.009	0.016	LNJBMX					.	.	.
		0.95	1.3	1.6	2.1	2.5	3.0		35	65	.60	0.006	0.016	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
1.0	1.2	1.6	2.2	2.7	3.5	4.2	5.0	45	62	72	1	0.010	0.02	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
1.5	1.8	2.4	3.4	4.1	5.3	6.3	7.5	65	70	72	1.5	0.016	0.02	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
2.0	2.4	3.2	4.5	5.5	7.1	8.4	10.0	70	75	77	2	0.016	0.028	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
3.0	3.7	4.7	6.7	8.2	10.6	12.5	15.0	65	70	73	3	0.020	0.028	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
4.0	4.9	6.3	8.9	11.0	14.1	16.7	20	72	81	84	4	0.020	0.042	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
6.0	7.3	9.5	13.4	16.4	21	25	30	73	79	81	6	0.025	0.042	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
8.0	9.8	12.6	17.9	22	28	33	40	85	89	91	8	0.025	0.06	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
10.0	12.2	15.8	22	27	35	42	50	82	84	86	10	0.020	0.064	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
12.0	14.7	19.0	27	33	42	50	60	78	82	85	12	0.020	0.076	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
14.0	17.1	22	31	38	49	59	70	85	88	90	14	0.021	0.076	LNJBMX	LNNJBMX	NJBMX	NNJBMX		.	.	.
16.0	19.6	25	36	44	57	67	80	83	86	88	16	0.021	0.086			NJBMX	NNJBMX	MJBMX	.	.	.
18.0	22	28	40	49	64	75	90	81	84	86	18	0.022	0.076	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
20	24	32	45	55	71	84	100	75	78	80	20	0.022	0.081	LNJBMX				MJBMX	.	.	.
22	27	35	49	60	78	92	110	70	72	75	22	0.025	0.076	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.
26	32	41	58	71	92	109	130	73	74	77	26	0.025	0.086	LNJBMX	LNNJBMX	NJBMX	NNJBMX	MJBMX	.	.	.

# Air Atomizing Nozzles

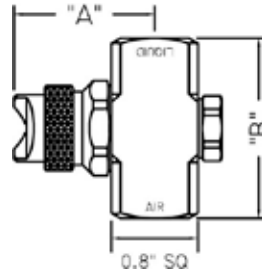
## Pressure & Siphon Feed



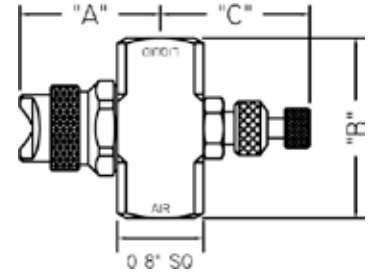
EXTERNAL MIX

Nozzle Type	Inlet Connection	A	B	C
JJBMX	1/8"	2"	1.69"	-
	1/4"			
JXJBMX	1/8"	2"	1.69"	1.6"
	1/4"			

DIMENSIONAL DATA



JJBMX



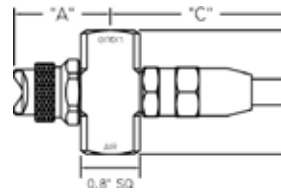
JXJBMX



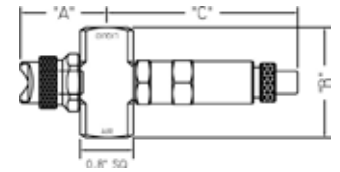
INTERNAL MIX

Nozzle Type	Inlet Connection	A	B	C
JYJBMX	1/8"	2"	1.69"	2.5"
	1/4"			
JZJBMX	1/8"	2"	1.69"	3.2"
	1/4"			

DIMENSIONAL DATA



JYJBMX



JZJBMX

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

## How to Order - Spray Set-Ups

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

1/4	J	S	JBMX +	F10	S
└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘	└─┬─┘
<b>Inlet Connection</b>	<b>Nozzle Style</b>	<b>Body Material</b>	<b>Nozzle Style</b>	<b>Spray Set-Up</b>	<b>Set-Up Material</b>
1/8" = 1/8" FNPT 1/4" = 1/4" FNPT	J=Basic Body JX=Shut-Off Needle JY=Clean-Out Needle JZ=Shut-Off Needle with Clean-Out	Blank = Nickel Plated Brass S=303SS SX = 316SS		See Specs in Tables	Blank = Nickel Plated Brass S=303SS SX = 316SS

## 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

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

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

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

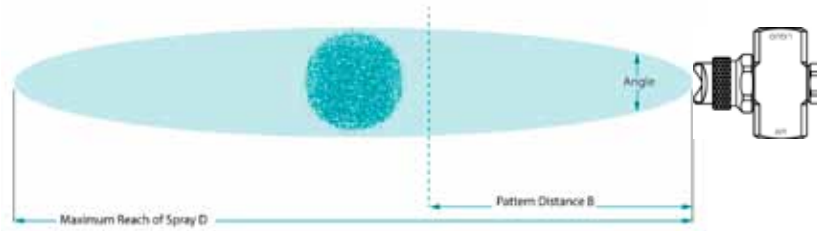
FF - DEFLECTED FLAT FAN			
PIPE SIZE NPT(F)	SET-UP NO.	FLUID CAP	AIR CAP
1/8 or 1/4	K1	PFJB28150MX	PAJB18911075MX

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

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)



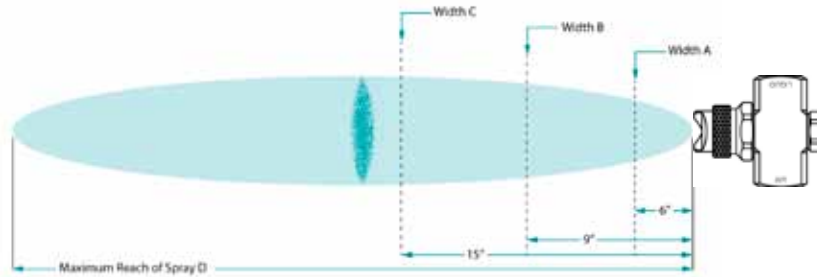
SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																					
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			SPRAY DIMENSIONS				
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	PSI		ANGLE °	"B" INCHES	"D" FEET
														AIR	LIQUID						
R2	Fluid Cap PFJB2050MX	10	0.7	0.6	14	1.5	0.4	24	1.7	0.6	32	1.9	0.7	50	2.3	1.0					
		12	0.5	0.7	18	1.2	0.5	28	1.4	0.6	36	1.6	0.8	54	2.1	1.1	12	10	13	12	9
		14	0.4	0.8	22	1.0	0.6	32	1.1	0.8	40	1.3	0.9	58	1.8	1.2	24	20	13	13	10
	Air Cap PAJB67147MX				24	0.9	0.7	36	0.8	1.0	44	1.1	1.1	62	1.6	1.4	36	30	13	14	11
					26	0.7	0.8	38	0.7	1.0	48	0.9	1.2	66	1.3	1.5	44	40	14	16	12
					28	0.6	0.8	40	0.7	1.1	50	0.7	1.3	68	1.2	1.6	62	60	15	18	14
R3	Fluid Cap PFJB2050MX	10	0.7	0.7	18	1.4	0.9	24	2.0	1.0	30	2.4	1.1	40	3.3	1.4					
		12	0.5	0.8	20	1.3	1.0	28	1.7	1.2	34	2.2	1.3	46	2.9	1.5	12	10	12	17	12
		14	0.4	0.9	22	1.2	1.1	32	1.4	1.4	38	1.9	1.5	52	2.6	1.8	20	20	13	18	13
	Air Cap PAJB73160MX				24	1.1	1.2	34	1.3	1.5	42	1.6	1.7	58	2.3	2.1	34	30	13	19	14
					26	0.9	1.3	36	1.2	1.6	44	1.5	1.8	62	2.1	2.3	42	40	13	20	15
								38	1.1	1.7	46	1.4	1.9	66	1.9	2.5	58	60	15	22	17
R5	Fluid Cap PFJB2050MX	12	1.3	0.7	22	2.2	1.1	30	2.9	1.2	36	4.3	1.3	48	5.8	1.5					
		16	1.1	0.9	26	1.7	1.3	34	2.5	1.4	40	3.9	1.4	52	5.3	1.7	22	10	12	19	13
		20	0.9	1.2	30	1.4	1.5	38	2.1	1.7	44	3.6	1.6	56	4.9	1.7	34	20	13	20	14
	Air Cap PAJB73160MX	22	0.8	1.3	34	1.3	1.7	42	1.7	1.9	48	2.8	1.8	60	4.6	1.9	42	30	13	21	15
		24	0.8	1.4	38	1.1	1.9	46	1.5	2.0	52	2.5	2.0	64	4.1	2.1	48	40	14	22	16
		26	0.8	1.4	40	1.0	2.0	50	1.2	2.3	56	2.2	2.2	68	3.7	2.3	60	60	15	24	17
R7	Fluid Cap PFJB40100MX	16	3.4	2.7	28	5.0	3.7	40	6.1	4.7	48	7.8	5.3	65	10.7	6.7					
		20	2.4	3.2	32	3.7	4.2	44	5.0	5.2	55	6.0	6.1	75	8.7	7.7	24	10	18	26	16
		22	1.9	3.5	36	2.6	4.7	48	4.0	5.7	65	3.6	7.3	80	7.7	8.3	40	20	20	30	20
	Air Cap PAJB1401110MX	24	1.5	3.7	40	1.9	5.1	55	2.3	6.5	75	2.0	8.5	85	6.7	8.8	55	30	20	32	22
		26	1.2	4.0	44	1.3	5.6	60	1.6	7.1	80	1.4	9.1	90	5.6	9.4	75	40	21	36	26
		28	1.0	4.2	48	0.9	6.1	65	1.1	7.8	85	1.0	9.7	95	4.6	10.0	85	60	21	38	28
R9	Fluid Cap PFJB60100MX	12	8.1	2.0	20	13.6	2.6	30	16.3	3.3	38	19.5	3.7	54	25.7	4.7					
		14	6.6	2.3	22	12.0	2.9	34	13.1	3.8	42	16.5	4.2	60	21.8	5.3	14	10	17	24	16
		16	4.9	2.7	24	10.2	3.2	38	9.9	4.3	46	13.6	4.7	65	18.5	6.0	26	20	18	27	19
	Air Cap PAJB1401110MX	18	3.4	3.0	26	8.6	3.5	40	8.7	4.6	50	10.8	5.3	70	15.2	6.7	40	30	20	30	22
					28	7.2	3.8	42	7.6	4.9	52	9.6	5.6	75	12.2	7.8	50	40	20	31	23
					30	5.9	4.1	44	6.6	5.2	54	8.6	5.9	80	10.0	8.1	70	60	21	36	28
R10	Fluid Cap PFJB100150MX	14	11.7	3.1	20	27.5	3.0	28	36.6	3.6	32	49.4	3.3	42	70.6	3.2					
		16	8.5	3.6	22	23.0	3.5	30	32.6	4.0	36	42.2	4.1	46	65.0	3.9	14	10	19	35	20
					24	18.0	4.0	32	28.7	4.4	40	35.1	4.9	50	59.0	4.6	24	20	20	39	23
	Air Cap PAJB1891125MX				26	14.4	4.4	34	24.8	4.8	44	28.0	5.7	54	53.2	5.4	34	30	21	41	25
					28	11.3	4.9	36	20.9	5.2	46	24.5	6.1	58	47.4	6.2	44	40	21	42	26
								38	17.5	5.6	48	21.0	6.5	65	37.8	7.5	54	60	22	46	30



# Air Atomizing Nozzles

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

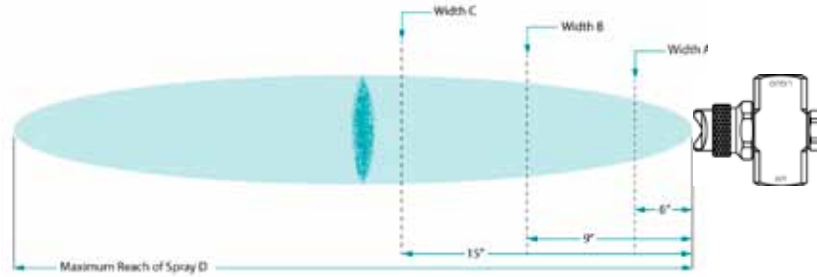


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																						
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			SPRAY DIMENSIONS					
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET
																	AIR	LIQUID				
F2	Fluid Cap PFJB2050MX Air Cap PAJB73328MX	10	1.4	0.8	18	2.2	1.1	28	2.5	1.5	38	2.8	1.8	55	3.4	2.4						
		12	1.3	1.0	22	1.8	1.3	32	2.2	1.6	42	2.5	2.0	65	2.8	2.9	16	10	10	14	18	8
		14	1.1	1.1	26	1.5	1.5	36	1.9	1.8	46	2.2	2.2	75	2.3	3.3	30	20	14	19	26	10
		16	0.9	1.2	30	1.2	1.7	40	1.6	2.0	50	1.9	2.4	85	1.7	3.7	40	30	14	21	30	10
		18	0.8	1.3	34	0.9	1.9	44	1.3	2.2	60	1.3	2.8	80	1.4	3.9	50	40	18	24	34	11
		20	0.7	1.4	38	0.7	2.1	48	1.0	2.4	65	0.9	3.0	95	1.1	4.1	85	60	22	29	37	13
		22	0.5	1.6	40	0.6	2.2	55	0.7	2.7	70	0.7	3.3	100	0.9	4.3						
F4	Fluid Cap PFJB2050MX Air Cap PAJB73220MX	18	1.0	1.1	30	1.6	1.4	42	2.1	1.8	55	2.2	2.2	75	3.2	2.7						
		20	0.8	1.2	34	1.0	1.6	44	1.8	1.9	60	1.6	2.4	80	2.7	2.9	22	10	10	14	18	6
		22	0.6	1.3	36	0.9	1.7	46	1.6	1.9	65	1.2	2.6	85	2.2	3.1	38	20	14	20	27	6
		24	0.5	1.4	38	0.7	1.8	48	1.4	2.0	70	0.8	2.9	90	1.8	3.4	46	30	23	29	36	7
		26	0.4	1.5	40	0.6	1.9	50	1.1	2.1							60	40	24	29	37	7
		28	0.3	1.6	42	0.5	2.0	55	0.7	2.4							80	60	25	30	38	8
					44	0.4	2.1															
F6	Fluid Cap PFJB2850MX Air Cap PAJB73328MX	12	2.2	0.7	20	3.4	1.0	30	4.0	1.3	38	4.7	1.5	65	4.8	2.4						
		14	1.8	0.8	24	2.7	1.1	34	3.4	1.5	42	4.1	1.7	70	4.2	2.6	16	10	14	18	28	7
		16	1.5	1.0	28	2.1	1.3	38	2.9	1.6	46	3.6	1.9	75	3.6	2.9	30	20	17	24	32	8
		18	1.1	1.1	30	1.8	1.5	42	2.3	1.9	50	3.1	2.1	80	3.1	3.1	42	30	20	26	35	8
		20	0.8	1.2	32	1.4	1.6	46	1.7	2.1	60	1.8	2.6	85	2.5	3.4	50	40	23	30	38	9
					34	1.2	1.7	48	1.4	2.2	65	1.2	2.8	90	2.0	3.6	80	60	23	30	38	10
					36	0.9	1.8	50	1.2	2.3	70	0.8	3.1	95	1.6	3.9						
F8	Fluid Cap PFJB2850MX Air Cap PAJB73335MX	14	2.4	0.9	22	3.2	1.1	34	3.4	1.6	40	4.4	1.8	60	5.0	2.5						
		16	2.1	1.1	26	2.8	1.4	38	2.9	1.9	44	3.8	2.0	65	4.4	2.7	20	10	4	5	7	10
		18	1.7	1.1	30	2.1	1.6	42	2.3	2.1	48	3.3	2.2	70	3.9	3.0	34	20	5	6	8	12
		20	1.4	1.3	34	1.5	1.9	46	1.8	2.4	54	2.6	2.6	75	3.4	3.3	46	30	5	7	9	13
		24	0.8	1.5	38	1.2	2.1	50	1.4	2.6	60	1.9	3.0	80	3.0	3.6	54	40	6	9	11	14
		28	0.5	1.8	42	0.7	2.4	60	0.6	3.2	70	1.1	3.5	90	2.3	4.1	75	60	8	10	13	16
		32	0.3	2.0	48	0.4	2.7	70	0.3	3.7	85	0.4	4.3	100	2.0	4.7						

# Air Atomizing Nozzles

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

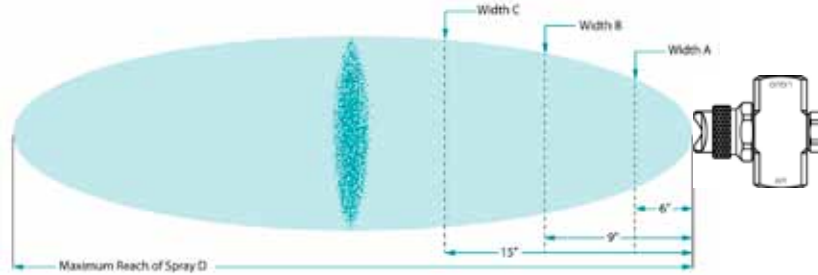


SPRAY DIMENSIONS

		PIPE SIZES 1/8" or 1/4"															SPRAY DIMENSIONS					
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	LIQUID				
F9	Fluid Cap PFJB40100MX Air Cap PAJB125328MX	16	3.0	1.9	28	4.5	2.7	38	5.9	3.2	46	7.5	3.7	65	9.7	4.8						
		18	2.3	2.1	30	3.9	2.8	40	5.4	3.4	50	6.5	4.0	70	8.6	5.2	20	10	6	7	8	10
		20	1.7	2.3	32	3.3	3.0	42	4.9	3.6	52	5.9	4.2	75	7.5	5.6	32	20	9	11	12	10
		22	1.3	2.5	34	2.8	3.2	44	4.3	3.7	54	5.4	4.3	80	6.4	6.0	42	30	10	13	18	11
		24	1.0	2.7	36	2.3	3.4	46	3.8	3.9	56	4.9	4.5	85	5.3	6.5	54	40	12	15	18	12
									48	3.3	4.1	58	4.3	4.7	90	4.3	7.0	75	60	13	16	19
F10	Fluid Cap PFJB60100MX Air Cap PAJB125328MX	12	7.0	1.2	22	11.5	1.7	34	12.4	2.2	46	13.7	2.8	65	18.3	3.6						
		14	5.4	1.4	26	8.3	2.0	38	9.8	2.6	50	10.9	3.1	75	12.6	4.5	16	10	7	9	12	11
		16	4.2	1.6	30	6.0	2.4	42	7.8	3.0	54	8.7	3.5	80	10.6	5.0	32	20	9	12	16	11
		18	3.3	1.7	32	5.1	2.6	46	5.9	3.3	56	7.8	3.7	85	8.7	5.4	46	30	10	13	17	12
		20	2.7	2.0	34	4.3	2.8	48	5.0	3.5	60	6.4	4.1	90	6.9	5.9	56	40	12	15	19	12
		22	2.0	2.2	36	3.6	3.0	50	4.3	3.7	65	4.6	4.5	95	5.5	6.3	85	60	13	16	20	14
F11	Fluid Cap PFJB60100MX Air Cap PAJB125340MX				38	3.0	3.2	52	3.7	3.9	70	3.3	5.0	100	4.5	6.8						
		14	4.5	0.8	24	7.5	1.2	34	9.5	1.7	44	11.1	2.2	56	19.8	2.6						
		16	2.9	1.0	26	6.0	1.4	36	7.8	2.0	46	9.7	2.5	60	16.7	3.0	16	10	4	5	6	8
		18	2.0	1.2	28	4.5	1.7	38	6.5	2.2	48	8.4	2.7	65	13.5	3.5	30	20	4	5	7	10
		20	0.8	1.4	30	3.4	1.8	40	5.2	2.5	52	5.7	3.3	70	9.7	4.3	40	30	5	7	9	11
					32	2.4	2.1	42	4.1	2.7	56	3.9	3.8	80	4.8	5.7	52	40	6	8	11	12
F12	Fluid Cap PFJB100150MX Air Cap PAJB189351MX				34	1.3	2.3	46	2.6	3.3	60	2.4	4.4	90	1.8	7.4	70	60	8	10	14	13
					36	0.8	2.6	50	1.1	3.7	65	1.1	5.0	95	0.7	8.4						
		14	7.7	3.2	26	10.5	4.6	34	20.8	4.8	42	29.4	5.2	58	44.7	6.1						
		16	5.0	3.8	28	7.0	5.2	36	16.6	5.3	44	25.1	5.6	60	41.0	6.4	14	10	7	8	10	11
								38	12.8	5.8	46	20.8	6.1	65	31.4	7.5	26	20	10	12	17	12
								40	9.5	6.4	48	16.7	6.6	70	22.5	8.8	38	30	10	12	18	14
						42	6.7	6.9	50	13.1	7.2	75	15.0	10.1	48	40	13	16	21	15		
									52	10.0	7.8	80	8.7	11.5	70	60	14	17	23	17		
									54	7.3	8.3											

# Air Atomizing Nozzles

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

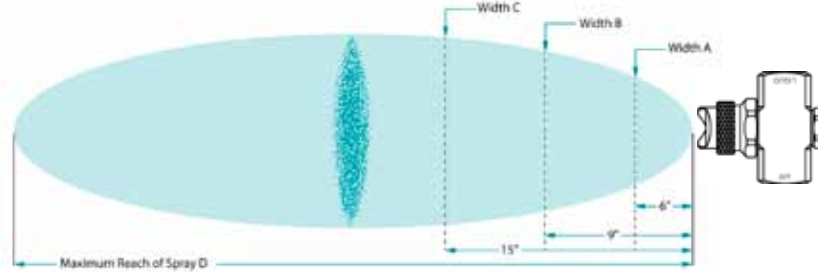


SPRAY DIMENSIONS

PIPE SIZES 1/8" or 1/4"																											
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			SPRAY DIMENSIONS										
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET					
																	AIR	LIQUID									
E1	Fluid Cap PFJB1650MX	5	0.8	0.8	5	1.0	0.8	6	1.4	0.9	8	2.0	1.0	10	2.8	1.2	8	10	8	11	13	4					
		6		0.9	6		0.9	8		1.0	10		1.2	15		1.6	8	20	11	14	18	6					
		7		1.0	8		1.0	10		1.2	15		1.6	25		2.2	20	20	10	12	16	9					
	Air Cap PAJB6224060MX	8		1.0	10		1.2	12		1.4	20		1.9	35		2.8	15	30	11	14	19	9					
E2	Fluid Cap PFJB1650MX	3	0.8	0.9	5	1.0	0.9	10	1.4	1.1	20	2.0	1.6	40	2.8	2.6	3	3	4	6	9	3					
		5		0.9	10		1.1	15		1.4	25		1.9	50		3.0	15	3	4	6	9	4					
		10		1.1	15		1.4	20		1.6	30		2.1	60		3.6	20	5	4	6	9	4					
	Air Cap PAJB6722845MX	15		1.4	20		1.6	25		1.9	40		2.6	70		4.2	20	20	5	7	10	5					
		20		1.6	25		1.9	30		2.1	50		3.0	75		4.5	25	10	5	6	10	5					
		25		1.9	30		2.1	40		2.6	60		3.6	80		4.9	40	20	5	7	11	6					
	30	2.1	40	2.6	50	3.0	80	4.9	90	5.6	70	40	6	7	10	8											
E3	Fluid Cap PFJB2050MX	5	1.2	0.8	5	1.6	0.8	8	2.2	1.0	10	3.1	1.2	15	4.4	1.6	15	10	12	15	19	7					
		8		1.0	10		1.2	10		1.2	20		1.9	20		1.9	10	20	15	18	23	6					
	Air Cap PAJB6224060MX	10		1.2	15		1.6	20		1.9	30		2.5	30		2.5	20	20	14	17	22	8					
		15		1.6	20		1.9	30		2.5	35		2.8	35			25	30	15	18	23	9					
																	25	40	16	19	26	10					
E4	Fluid Cap PFJB2050MX	5	1.2	0.9	10	1.6	1.1	15	2.2	1.4	25	3.1	1.9	45	4.4	2.9	5	3	3	6	9	4					
		10		1.1	15		1.4	20		1.6	30		2.1	50		3.0	20	3	3	6	9	5					
		15		1.4	20		1.6	25		1.9	40		2.6	60		3.6	25	5	4	7	9	6					
	Air Cap PAJB6722845MX	20		1.6	25		1.9	30		2.1	50		3.0	70		4.2	25	20	5	8	12	7					
		25		1.9	30		2.1	40		2.6	60		3.6	75		4.5	30	10	5	7	10	6					
		30		2.1	40		2.6	50		3.0	70		4.2	90		5.6	50	20	5	9	12	8					
	40	2.6	50	3.0	60	3.6	90	5.6	95	5.8	75	40	6	8	10	10											
E5	Fluid Cap PFJB2050MX	6	2.3	0.9	6	3.0	0.9	6	4.2	0.9	10	6.0	1.2	20	8.4	1.9	8	10	14	19	25	5					
		7		1.0	8		1.0	8		1.0	12		1.4	25		2.2	10	20	15	19	25	6					
	Air Cap PAJB6224060MX			1.0	9		1.1	10		1.2	15		1.6	30		2.5	20	20	17	21	26	8					
		8		1.2	10		1.2	12		1.4	20		1.9	35		2.8	25	30	16	20	27	9					
		10														3.0	40	16	20	27	10						

# Air Atomizing Nozzles

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



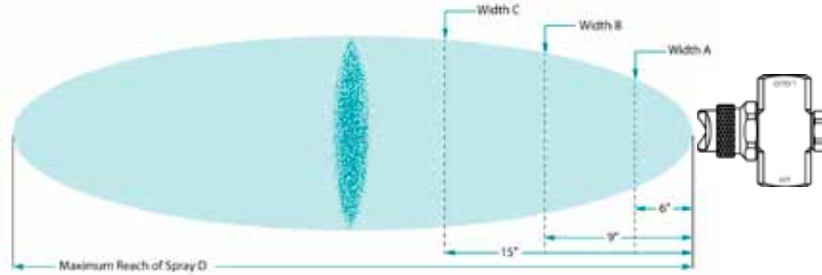
SPRAY DIMENSIONS

		PIPE SIZES 1/8" or 1/4"															SPRAY DIMENSIONS					
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	LIQUID				
E6	Fluid Cap PFJB2850MX  Air Cap PAJB6722845MX	10	2.3	1.1	15	3.0	1.4	20	4.2	1.6	35	6.0	2.4	50	8.4	3.0	10	3.0	5.0	7.0	10.0	4.0
		15		1.4	20		1.6	25		1.9	40		2.6	60		3.6	25	3.0	5.0	7.0	10.0	6.0
		20		1.6	25		1.9	30		2.1	50		3.0	70		4.2	30	5.0	5.0	7.0	10.0	6.0
		25		1.9	30		2.1	40		2.6	60		3.6	75		4.9	40	10.0	6.0	8.0	13.0	6.0
		30		2.1	40		2.6	50		3.0	70		4.2	80		5.6	60	20.0	6.0	8.0	14.0	10.0
		40		2.6	50		3.0	60		3.6	80		4.9	90		6.2	75	40.0	7.0	8.0	12.0	13.0
		50		3.0	60		3.6	70		4.2	90		5.6	100		6.2	75	40.0	7.0	8.0	12.0	13.0
E7	Fluid Cap PFJB35100MX  Air Cap PAJB12228160MX	8	3.6	3.2	10	4.7	3.6	20	6.6	5.5	30	9.4	7.4	45	13.2	20	5.0	13.0	15.0	19.0	12.0	
		10		3.6	15		4.6	30		7.4	40		9.1	60		10.0	30	10.0	13.0	16.0	22.0	14.0
		15		4.6	25		6.5	35		8.3	50		10.9	75		15.2	45	20.0	15.0	19.0	26.0	15.0
		20		5.5	30		7.4	40		9.1	60		12.6	80		16.0	60	20.0	15.0	19.0	25.0	17.0
																55	30.0	16.0	20.0	27.0	15.0	
																60	40.0	15.0	20.0	28.0	16.0	
E8	Fluid Cap PFJB35100MX  Air Cap PAJB13425545MX	10	3.6	3.0	15	4.7	3.6	20	6.6	4.1	35	9.4	6.3	45	13.2	7.5	10	3.0	5.0	8.0	10.0	6.0
		15		3.6	20		4.1	25		4.9	40		6.9	50		8.2	25	3.0	5.0	8.0	10.0	9.0
		20		4.1	25		4.9	30		5.5	50		8.0	55		9.0	30	5.0	6.0	8.0	11.0	10.0
		25		4.9	30		5.5	35		6.3	60		9.4	60		9.7	35	10.0	6.0	9.0	11.0	11.0
		30		5.5	40		6.9	40		6.9	70		11.0	70		11.1	35	20.0	7.0	9.0	14.0	12.0
		40		6.9	50		8.0	50		8.0	80		12.7	80		12.7	60	20.0	7.0	9.0	15.0	14.0
		50		8.0	60		9.4	60		9.4	90		14.5	90		14.5	70	40.0	7.0	9.0	13.0	16.0
E9	Fluid Cap PFJB40100MX  Air Cap PAJB12228160MX	8.0	4.8	3.2	10	6.1	3.6	15	8.7	4.6	35	12.3	8.3	50	17.4	15	3.0	13.0	15.0	20.0	11.0	
		15		4.6	20		5.5	25		6.5	45		10.0	65		10.9	25	10.0	14.0	19.0	25.0	10.0
		20		5.5	25		6.5	35		8.3	55		11.7	85		13.5	35	20.0	15.0	18.0	25.0	12.0
		25		6.5	30		7.4	40		9.1	60		12.6	95		16.8	45	20.0	13.0	17.0	24.0	14.0
																18.5	60	20.0	12.0	17.0	23.0	16.0
																60	30.0	13.0	17.0	24.0	17.0	
E10	Fluid Cap PFJB40100MX  Air Cap PAJB13425545MX	10	4.8	3.0	20	6.1	4.1	25	8.7	4.9	40	12.3	6.9	50	17.4	8.2	10	3.0	6.0	8.0	11.0	7.0
		15		3.6	25		4.9	30		5.5	45		7.5	60		9.7	25	3.0	6.0	8.0	11.0	10.0
		20		4.1	30		5.5	35		6.3	50		8.0	70		11.1	35	5.0	6.0	9.0	13.0	11.0
		25		4.9	35		6.3	40		6.9	60		9.4	75		12.0	40	10.0	6.0	9.0	14.0	12.0
		30		5.5	40		6.9	50		8.0	70		11.0	80		12.7	40	20.0	7.0	10.0	15.0	13.0
		40		6.9	50		8.0	60		9.4	80		12.7	90		14.5	60	20.0	7.0	10.0	15.0	16.0
		50		8.0	60		9.4	70		11.0	90		14.5	95		15.1	75	40.0	7.0	9.0	14.0	19.0

# Air Atomizing Nozzles

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

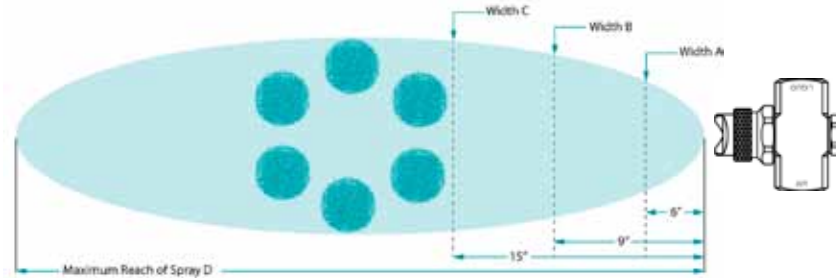
SPRAY DIMENSIONS



PIPE SIZES 1/8" or 1/4"																						
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			SPRAY DIMENSIONS					
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET
																	AIR	LIQUID				
E11	Fluid Cap PFJB60100MX Air Cap PAJB12228160MX	10	9.9	3.6	15	12.7	4.6	25	18.0	6.5	45	25.5	10.0	75	36.0	30	5	16	22	30	12	
		15		4.6	20		5.5	30		7.4	50		10.9	85		15.2	40	10	18	23	32	13
		20		5.5	30		7.4	40		9.1	70		14.3	95		16.8	45	20	19	23	31	14
		25		6.5	35		8.3	45		10.0	80		16.0	100		18.5	65	20	17	21	30	16
																	19.4	80	20	15	20	26
															55	30	19	25	33	14		
															90	40	16	22	31	19		
E12	Fluid Cap PFJB60100MX Air Cap PAJB13425545MX	15	9.9	3.6	25	12.7	4.9	35	18.0	6.3	45	25.5	7.5	55	36.0	9.0	15	3.0	6	8	10	9
		20		4.1	30		5.5	40		6.9	50		8.0	60		9.7	30	3.0	6	9	12	10
		25		4.9	35		6.3	45		7.5	55		8.7	65		10.5	40	5.0	7	10	14	11
		30		5.5	40		6.9	50		8.0	60		9.4	70		11.1	45	20	8	11	16	12
		35		6.3	45		7.5	60		9.4	70		11.0	80		12.7	50	10	8	11	15	13
		40		6.9	50		8.0	70		11.0	80		12.7	90		14.5	60	20	8	11	16	14
															16.0	80	40	7	10	15	19	
E13	Fluid Cap PFJB60150MX Air Cap PAJB20027845MX	25	10.0	8.3	25	12.9	8.3	35	18.0	10.5	55	25.5	14.5		36.0	25	3	6	8	12	10	
		30		9.2	30		9.2	40		11.6	60		15.7			40	3	6	8	12	11	
		35		10.5	35		10.5	45		12.5	65		17.0			40	5	6	8	12	13	
		40		11.6	40		11.6	50		13.4	70		18.4			50	10	7	9	13	14	
		45		12.5	45		12.5	55		14.5	75		20.0			55	20	7	9	14	15	
		50		13.4	50		13.4	60		15.7	80		21.2			60	15	7	9	13	15	
															70	20	7	9	14	18		
E14	Fluid Cap PFJB80150MX Air Cap PAJB20027845MX	30	17.4	9.2	40	22.5	11.6	55	31.5	14.5	70	44.7	18.4		36.0	30	3.0	7	10	14	11	
		35		10.5	45		12.5	60		15.7	75		20.0			45	3.0	7	10	14	14	
		40		11.6	50		13.4	65		17.0	80		21.2			55	5.0	7	10	14	16	
		45		12.5	55		14.5	70		18.4	85		22.5			70	10	7	10	14	18	
		50		13.4	60		15.7	75		20.0	90		24.2			70	20	8	10	15	18	
		60		15.7	70		18.4	80		21.2						75	15	7	10	15	19	
															80	20	8	10	15	20		
E15	Fluid Cap PFJB100150MX Air Cap PAJB20027845MX	40	27.9	11.6	50	36.0	13.4	65	50.6	17.0	80	72.0	21.2		36.0	40	3	8	10	14	15	
		45		12.5	55		14.5	70		18.4	85		22.5			55	3	8	10	15	16	
		50		13.4	60		15.7	75		20.0	90		24.2			65	5	8	10	15	17	
		55		14.5	65		17.0	80		21.2						75	10	9	11	15	18	
		60		15.7	70		18.5	85		22.5						80	15	9	11	16	18	
		65		17.0	75		20.0	90		24.2						80	20	9	11	16	19	
															85	20	9	11	16	20		

# 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	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID			SPRAY DIMENSIONS						
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	PSI		"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET	
																	AIR	LIQUID					
W1	Fluid Cap PFJB2050MX Air Cap PAJB6762070MX	8	1.4	0.4	14	2.1	0.4	22	2.4	0.6	30	2.5	0.7	44	3.0	0.8							
		10	1.1	0.4	16	1.9	0.5	26	2.0	0.7	34	2.2	0.8	48	2.7	0.9	10	10	6	7	9	5	
		12	0.8	0.5	18	1.7	0.6	30	1.6	0.8	38	1.9	0.9	55	2.3	1.2	20	20	6	8	10	6	
		14	0.5	0.6	20	1.4	0.6	34	1.2	1.0	42	1.5	1.1	60	1.9	1.4	34	30	7	8	10	7	
					22	1.2	0.7	36	0.9	1.1	46	1.1	1.3	65	1.5	1.6	42	40	7	8	11	9	
					24	0.9	0.8	38	0.7	1.2	48	0.9	1.4	70	1.1	1.8	60	60	8	9	12	13	
W2	Fluid Cap PFJB40100MX Air Cap PAJB14063770MX				26	0.6	0.9	40	0.4	1.3	50	0.7	1.5	75	0.7	2.1							
		12	1.9	1.8	22	3.3	2.3	30	5.1	2.5	38	6.4	2.8	54	8.8	3.4							
		14	0.6	2.2	24	2.2	2.7	32	4.3	2.9	42	4.7	3.4	56	8.1	3.7	12	10	7	10	13	6	
					26	1.2	3.1	34	3.4	3.2	44	3.9	3.7	58	7.4	4.0	24	20	8	10	13	8	
					36	2.5	3.5	46	3.1	4.1	60	6.8	4.3	34	30	8	10	13	10				
					38	1.6	3.9	48	2.3	4.4	65	5.1	5.1	46	40	8	11	14	13				
W3	Fluid Cap PFJB40100MX Air Cap PAJB12063560MX				40	0.7	4.3	50	1.4	4.8	70	3.5	6.0	60	60	9	11	15	19				
											52	0.6	5.3	75	1.9	7.0							
		16	3.2	1.4	28	4.6	2.0	42	5.3	2.7	55	5.7	3.3	80	7.1	4.5							
		18	2.6	1.6	32	3.4	2.3	46	4.0	3.0	60	4.2	3.7	85	5.8	4.9	22	10	6	8	9	9	
		20	2.1	1.8	36	2.5	2.6	48	3.5	3.1	65	3.2	4.1	90	4.7	5.3	40	20	7	8	10	15	
		22	1.6	1.9	40	1.8	2.9	50	3.0	3.3	70	2.3	4.4	95	3.8	5.7	50	30	7	8	10	18	
		24	1.3	2.1	42	1.5	3.0	55	2.1	3.6	75	1.7	4.8	100	3.0	6.0	70	40	7	9	10	24	
		26	1.0	2.2	44	1.2	3.1	60	1.5	4.0	80	1.3	5.2				90	60	8	10	11	31	
W4	Fluid Cap PFJB60100MX Air Cap PAJB14063770MX	28	0.8	2.4	46	1.0	3.3	65	1.0	4.4	85	1.1	5.6										
		10	6.3	1.1	20	9.0	1.6	30	11.2	2.0	40	12.4	2.5	56	16.2	2.8							
		12	3.6	1.5	22	6.9	2.0	32	9.3	2.4	42	10.6	2.9	58	14.8	3.1	12	10	8	10	14	7	
		14	2.0	2.0	24	5.1	2.4	34	7.4	2.8	44	8.8	3.3	60	13.8	3.5	22	20	8	11	15	10	
					26	3.3	2.8	36	5.4	3.2	46	7.1	3.7	65	9.8	4.4	34	30	8	11	15	13	
					38	3.6	3.6	48	5.4	4.1	70	6.5	5.4	46	40	8	11	15	16				
W5	Fluid Cap PFJB60100MX Air Cap PAJB14065270MX				40	2.3	4.0	50	3.6	4.5	75	4.0	6.3	65	60	8	11	16	22				
											52	2.2	4.9	80	2.4	6.5							
		18	9.4	3.0	30	13.4	4.2	44	15.3	5.5	60	15.6	7.1	80	21.4	8.6							
		22	7.7	3.6	34	11.9	4.7	48	13.8	5.9	70	12.5	8.3	85	19.5	9.2	28	10	8	10	13	18	
		26	6.0	4.1	38	10.3	5.1	55	11.3	6.8	80	9.3	9.5	90	17.9	9.8	42	20	8	11	14	21	
		28	5.2	4.4	42	8.9	5.6	65	7.8	8.0	85	7.8	10.1	95	16.5	10.4	65	30	9	11	15	27	
		30	4.4	4.7	46	7.3	6.1	70	6.1	8.6	90	6.2	10.7	100	15.1	11.0	85	40	9	12	15	30	
		32	3.7	5.0	50	5.8	6.7	75	4.5	9.3	95	4.8	11.1				90	60	10	13	16	34	
W6	Fluid Cap PFJB100150MX Air Cap PAJB18966270MX	34	3.0	5.3	60	2.4	8.0	80	3.3	9.9	100	3.7	11.9										
		24	6.7	5.5	38	10.7	7.4	48	16.5	8.8	60	18.6	10.4	85	29.2	13.7							
		26	5.2	5.9	42	7.6	8.3	52	12.5	9.6	65	13.7	11.4	90	24.6	14.7	28	10	10	13	18	18	
		28	4.0	6.3	44	6.2	8.7	56	9.2	10.4	70	10.0	12.4	95	20.7	15.8	46	20	10	14	19	20	
		30	3.0	6.8	46	5.0	9.1	60	6.6	11.3	75	7.4	13.5	100	17.5	16.9	60	30	11	15	20	24	
		32	2.0	7.2	48	4.0	9.5	62	5.6	11.7	80	5.5	14.5				75	40	12	15	21	26	
			50	3.0	9.9	65	4.4	12.3	85	4.0	15.5				90	60	13	17	23	28			
			52	2.4	10.0	70	2.6	13.3	90	2.5	16.6												

# Air Atomizing Nozzles

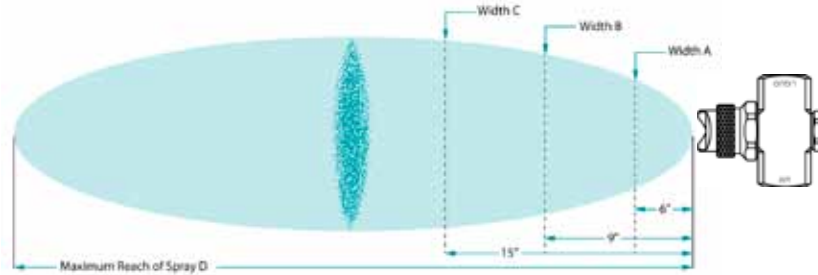
## 1/4" Spray Set-Ups - Pressure Feed (Deflected Flat Fan & Extra Wide Hollow Cone)

DEFLECTED FLAT FAN - PIPE SIZES NPT (F) 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID		
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM
K1	Fluid Cap PFJB28150MX  Air Cap PAJB18911075MX	6	2.9	1.6	14	3.9	2.6	22	4.7	3.3	26	5.8	3.6	38	7.4	4.6
		8	2.5	1.9	16	3.5	2.8	24	4.3	3.6	32	4.8	4.4	46	6.4	5.5
		10	2.0	2.3	18	3.1	3.1	26	4.0	3.8	38	3.8	5.3	54	5.3	6.6
		12	1.5	2.7	20	2.8	3.5	30	3.3	4.5	44	2.8	6.2	62	4.2	7.8
					22	2.3	3.8	34	2.3	5.2	46	2.3	6.6	70	2.8	9.4

EXTRA WIDE HOLLOW CONE - PIPE SIZES NPT (F) 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	10 PSI LIQUID			20 PSI LIQUID			30 PSI LIQUID			40 PSI LIQUID			60 PSI LIQUID		
		AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM	AIR	GPH	SCFM
H1	Fluid Cap PFJB60150MX  Air Cap PAJB189662160HCMX	20	4.0	2.5	34	6.6	4.1	50	7.1	6.4	60	11.0	7.6	85	14.4	11.8
		22	2.8	2.7	38	4.4	4.8	52	6.2	6.8	65	8.3	8.6	90	12	13
		24	2.0	3.0	42	2.8	5.5	56	4.4	7.6	70	6.1	9.8	95	9.8	14.1
		26	1.5	3.3	46	1.7	6.3	60	3.2	8.4	80	3.1	12.4	100	7.8	15.4
		28	1.1	3.6	48	1.3	6.9	70	1.3	11.8	90	1.4	15.4			

# Air Atomizing Nozzles

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



SPRAY DIMENSIONS

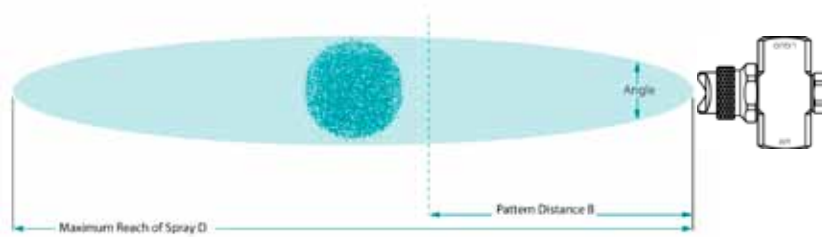
PIPE SIZES 1/8" or 1/4"																
SPRAY SET-UP NO.	FLUID & AIR CAP NO.S	ATOMIZING AIR		US GALLONS PER HOUR AT								SPRAY DIMENSIONS AT				
				GRAVITY HEAD			SIPHON HEIGHT					12" SIPHON HEIGHT				
		AIR	SCFM	18"	12"	6"	4"	8"	12"	24"	36"	AIR	"A" INCHES	"B" INCHES	"C" INCHES	"D" FEET
F1	Fluid Cap PFJB2850MX	10	1.0	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	10	8	11	15	7
	Air Cap PAJB73420MX	20	1.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	20	9	12	15	7
		30	1.8	0.2	0.2	0.2	0.1	0.1				30	9	12	15	6
F3	Fluid Cap PFJB35100MX	20	1.9	1.0	1.0	0.9	0.8	0.7	0.7	0.6	0.6	20	9	13	15	8
	Air Cap PAJB120432MX	30	2.4	0.9	0.8	0.8	0.8	0.7	0.7	0.6	0.6	30	10	14	17	9
		40	3.0	0.8	0.7	0.7	0.7	0.6	0.6	0.5	0.5	40	11	15	18	10
60		4.1	0.4	0.4	0.4	0.3	0.3	0.3			60	11	16	19	9	
F5	Fluid Cap PFJB40100MX	20	2.3	1.4	1.3	1.2	1.0	1.0	0.9	0.8	0.6	20	8	9	11	10
	Air Cap PAJB122435MX	30	2.9	1.3	1.2	1.1	0.9	0.9	0.8	0.7	0.6	30	8	10	11	11
		40	3.5	1.0	0.9	0.9	0.7	0.6	0.5	0.4		40	9	11	12	10
		50	4.1	0.6	0.5	0.4										
F7	Fluid Cap PFJB40100MX	20	2.1	2.0	1.9	1.7	1.5	1.4	1.3	1.2	0.9	20	7	9	11	11
	Air Cap PAJB122440MX	30	2.7	2.0	1.9	1.8	1.6	1.5	1.5	1.3	1.1	30	7	9	12	11
		40	3.3	1.8	1.7	1.6	1.4	1.3	1.2	1.0		40	8	11	13	11
		50	3.9	1.1	1.0	0.9	0.7									



# 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		US GALLONS PER HOUR AT								SPRAY DIMENSIONS AT			
		AIR	SCFM	GRAVITY HEAD			SIPHON HEIGHT					12" SIPHON HEIGHT			
				18"	12"	6"	4"	8"	12"	24"	36"	AIR	ANGLE °	"B" INCHES	"D" FEET
R1	Fluid Cap PFJB1650MX	10	0.4	0.4	0.4	0.3	0.2	0.2	0.1			10	18	11	6
		20	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.1		20	18	11	6
	Air Cap PAJB64MX	40	1.0	0.5	0.5	0.5	0.4	0.4	0.4	0.3	0.2	40	18	12	7
		60	1.3	0.6	0.5	0.5	0.4	0.4	0.4	0.3	0.2	60	18	14	8
R4	Fluid Cap PFJB2050MX	10	0.5	0.6	0.6	0.5	0.4	0.3	0.2			10	18	12	7
		20	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.2	0.1	20	18	13	8
	Air Cap PAJB64MX	40	1.1	0.9	0.8	0.8	0.7	0.7	0.6	0.4	0.3	40	18	15	9
		60	1.5	1.0	0.9	0.9	0.8	0.8	0.7	0.6	0.4	60	19	17	10
R6	Fluid Cap PFJB2050MX	10	0.8	0.7	0.6	0.5	0.4	0.4	0.3			10	18	12	8
		20	1.2	0.8	0.7	0.6	0.6	0.5	0.4	0.2		20	18	13	9
	Air Cap PAJB70MX	40	1.9	0.9	0.9	0.8	0.8	0.7	0.7	0.5	0.3	40	19	15	11
		60	2.7	1.0	1.0	0.9	0.9	0.9	0.8	0.7	0.6	60	20	17	13
R8	Fluid Cap PFJB2850MX	10	0.7	1.2	1.1	0.9	0.6	0.5	0.4			10	21	15	10
		20	1.0	1.4	1.3	1.1	0.9	0.8	0.7	0.5		20	21	16	11
	Air Cap PAJB70MX	40	1.7	1.6	1.5	1.3	1.2	1.1	0.9	0.6	0.3	40	21	18	13
		60	2.4	1.5	1.4	1.3	1.1	1.0	0.9	0.7	0.5	60	22	20	15
R11	Fluid Cap PFJB60100MX	20	1.9	5.8	5.2	4.2	3.1	2.7	1.9	0.6		20	17	18	12
		40	3.0	6.5	6.0	5.1	4.3	3.7	3.0	1.6	0.7	40	18	20	14
	Air Cap PAJB120MX	60	4.1	6.8	6.4	5.6	4.9	4.2	3.5	2.2	1.3	60	18	21	16
		80	5.2	6.8	6.4	5.8	5.2	4.5	3.9	2.6	1.6	80	19	23	18
R12	Fluid Cap PFJB100150MX	30	5.3				7.2	6.0	4.6			30	20	20	22
		40	6.5				7.8	6.8	5.3			40	20	21	23
	Air Cap PAJB180MX	60	8.8		11.4	10.6	8.3	7.4	6.2	3.2		60	21	23	25
		80	11.1	11.6	11.0	10.3	8.3	7.5	6.4	4.4	2.2	80	22	25	27



Adjustable Ball Joints



Flexible Hose

**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.

### Specifications

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

**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.

### How to Order

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

Leaders in Needle Jet Nozzles for the Paper Industry

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