



# SHOWER NOZZLES

## TABLE OF CONTENTS

	PAGE
ShowerJet One-piece, High-pressure	C3
ShowerJet Disc-type	C4
Lock Rings	C5
NeedleJet Nozzles	C6
DiscJet® Nozzles	C8
Self-Cleaning Nozzles	C9

## QUICK REFERENCE GUIDE

Model Standard (Metric)	Connection/ Type	Connection/ Thread Size in. (mm)	Flow Rate Range gpm (lpm)	Max. Operating Pressure psi (bar)	Spray Angle	Materials
<b>ShowerJet One-piece, High-pressure Nozzles</b>						
<b>73196 (M73196)</b>	M	1-3/16"-18 (M30 x 1.5)	.02 to 1.12 gpm (.08 to 4.24 lpm)	800 psi (55 bar)	0° at 40 psi (3 bar)	316 stainless steel body with synthetic ruby orifice
<b>73327 (M73327)</b>	M	1-1/4"-18 (M32 x 1.5)				
<b>37337 (M37337)</b>	M	1-3/16"-18 (M30 x 1.5)				
<b>38553 (M38553)</b>	M	1-1/4"-18 (M32 x 1.5)				
<b>39468</b>	M	1-3/8"-12				316 stainless steel body and orifice
<b>ShowerJet Disc-type Nozzles</b>						
<b>27149</b>	Disc type	NA	.03 to 55 gpm (.11 to 208 lpm)	800 psi (55 bar)	0° to 75° at 60 psi (4 bar)	316L stainless steel body and orifice
<b>39350</b>	Disc type	NA	.02 to 1.12 gpm (.08 to 4.24 lpm)		0° at 40 psi (3 bar)	316 stainless steel body with ceramic orifice
<b>48546</b>	Disc type	NA				316L stainless steel body with synthetic ruby orifice
<b>50790</b>	Disc type	NA				316L stainless steel body and orifice
<b>39485</b>	Disc type	NA				316L stainless steel body and orifice
<b>ShowerJet Lock Rings</b>						
<b>27044</b>	M	See page C5	NA	NA	NA	316 stainless steel
<b>31250</b>	M	See page C5				
<b>28376</b>	M	See page C5				
<b>NeedleJet Nozzles – Tapered Front</b>						
<b>48460</b>	M	9/16"-24	.032 to 11.0 gpm (.12 to 41.6 lpm)	1000 psi (70 bar)	0° at 40 psi (3 bar)	316 stainless steel body with synthetic ruby orifice
<b>19124</b>	M	9/16"-24				316 stainless steel body and orifice
<b>P36503</b>	M	1/4" BSPP				316 stainless steel body and orifice
<b>NeedleJet Nozzles – Longer Length</b>						
<b>56740</b>	M	1/8" BSPP	.032 to 11.0 gpm (.12 to 41.6 lpm)	1000 psi (70 bar)	0° at 40 psi (3 bar)	316 stainless steel body with synthetic ruby orifice
<b>48277</b>	M	1/8"				316 stainless steel
<b>21280</b>	M	9/16"-24 NEF				316 stainless steel nozzle and extension tube
<b>39458</b>	M	9/16"-24 NEF				316 stainless steel nozzle and extension tube with ceramic orifice
<b>NeedleJet Nozzles – Compact</b>						
<b>22812</b>	M	1/8"	.032 to 11.0 gpm (.12 to 41.6 lpm)	1000 psi (70 bar)	0° at 40 psi (3 bar)	316 stainless steel body and orifice
<b>20094</b>	M	1/4"-28 UNF				
<b>DiscJet® Nozzles</b>						
<b>DK</b>	Disc type	Threadless	.025 to 16.7 gpm (.09 to 63.22 lpm)	150 psi (10 bar)	0° to 90° at 40 psi (3 bar)	303 stainless steel or 316 stainless steel
<b>DJ</b>	M	5/8"-18			25° to 110° at 40 psi (3 bar)	
<b>48284</b>	Disc type	Threadless			0° at 40 psi (3 bar)	316 stainless steel
<b>25834</b>	Disc type	Threadless				
<b>Self-cleaning Nozzles</b>						
<b>20210</b>	M	1-1/8"-20	.008 to 12.6 gpm (.03 to 47.7 lpm)	250 psi (17 bar)	0° to 130° at 40 psi (3 bar)	316 stainless steel deflector, body, piston, nut and spring
<b>20235</b>	M	3/4"-20				



**OVERVIEW: SHOWERJET ONE-PIECE, HIGH-PRESSURE NOZZLES**

**Ideal for: easy replacement of ShowerJet and most other manufacturer showers**

- Consolidated nozzle design eliminates the separate nut and gasket. All-in-one design saves time during installation and removal
- Faster and easier installation into the header using a 3/8" (9.5 mm) hex wrench
- Available in a variety of body lengths
- Powerful solid stream spray from .02 to 1.12 gpm (.08 to 4.24 lpm)
- Operating pressures up to 800 psi (55 bar)

**ONE-PIECE, HIGH-PRESSURE NOZZLE OPTIONS**



**73196 & 73327**

Solid stream spray pattern  
 Ruby orifice for longer wear life  
 Integral lock rings



**37337, 38553 & 39468**

Solid stream spray pattern  
 Stainless steel orifices

**QUICK REFERENCE GUIDE**

Model Standard (Metric)	Connection Thread Size in. (mm)	Flow Rate Range gpm (lpm)	Materials
<b>73196 (M73196)</b>	1-3/16"-18 (M30 x 1.5)	.02 to 1.12 gpm (.08 to 4.24 lpm)	316 stainless steel body with synthetic ruby orifice
<b>73327 (M73327)</b>	1-1/4"-18 (M32 x 1.5)		
<b>37337 (M37337)</b>	1-3/16"-18 (M30 x 1.5)		316 stainless steel body and orifice
<b>38553 (M38553)</b>	1-1/4"-18 (M32 x 1.5)		
<b>39468</b>	1-3/8"-12		

FOR DETAILED NOZZLE PERFORMANCE DATA, SEE [spray.com/papercatalog/performance](http://spray.com/papercatalog/performance)



**OVERVIEW: SHOWERJET DISC-TYPE NOZZLES****Ideal for: use with automatic brush showers**

- Disc-type nozzles fit inside the shower; the internal brushes easily sweep debris away
- Lock ring holds the nozzles in place
- Available in flat and solid stream spray patterns
- Solid stream versions: Choose from ceramic, stainless steel or synthetic ruby orifice material for longer wear life
- Notches on flat spray version allow removal of installed nozzles from the base with a flathead screwdriver – a Spraying Systems Co. exclusive
- All ShowerJet nozzles are installed with a standard gasket which is included, CP28624-001
- 27149 provides uniform spray distribution from .03 to 55 gpm (.11 to 208 lpm)
- 39350, 48546, 50790 & 39485 powerful solid stream spray from .02 to 1.12 gpm (.08 to 4.24 lpm)
- Operating pressures up to 800 psi (55 bar)

**DISC-TYPE NOZZLE OPTIONS****27149**

- Notched flats for easy removal
- Flat spray pattern
- 316L stainless steel orifice

**39350**

- Dome shape
- Solid stream spray pattern
- Ceramic orifice

**48546**

- Dome shape
- Solid stream spray pattern
- 316L stainless steel body; synthetic ruby orifice

**50790 & 39485**

- Low profile design
- Solid stream spray pattern
- 50790 has a 316L stainless steel body and synthetic ruby orifice; 39485 has a 316L stainless steel body and orifice
- Order 50790 for Stamm showers; 50790-1 for Spraying Systems Co. showers



FOR DETAILED NOZZLE PERFORMANCE DATA, SEE  
[spray.com/papercatalog/performance](http://spray.com/papercatalog/performance)

LOCK RING OPTIONS

**27044 and 31250**

- 27044 for use with Spraying Systems Co. shower bases
- 31250 for use with shower bases from other manufacturers



Model	Thread Size	For Shower Headers Supplied By
CP27044-001-316SS	1-3/16"-18 UNEF	SSCo. Standard
CP27044-002-316SS	1-3/16"-18 UNEF	SSCo. 75° ShowerJet
CP27044-004-316SS	1-3/16"-18 UNEF	NASH-CVN
CP31250-001-316SS	M32 x 1.5	Valmet
CP31250-002-316SS	M30 x 1	Stamm
CP31250-003-316SS	1-1/4"-18 UNEF	Lechler
CP31250-005-316SS	M30 x 1.5	Voith

**28376, 29676 and 29677**

- Convert existing showers to alternate nozzles as needs change
- Can be used with dome strainer 28900 when on a brush header
- Thread sizes for Spraying System Co and competitive showers



Part Number	"A" Thread	"B" Thread
28376-1/4-316SS	1/4"	1-3/16"-18
28376-3/8-316SS	3/8"	1-3/16"-18
28376-110-316SS	9/16"-24	1-3/16"-18
29676-1/4-316SS	1/4"	1-1/4"-18
29676-3/8 x 1-1/4-316SS	3/8"	1-1/4"-18
29676-1/4 x M30 x 1-316SS	1/4"	M30 x 1.0
29676-103-316SS	9/16"-24	M30 x 1.0
29676-1/4 x M30 x 1.5-316SS	1/4"	M30 x 1.5
29676-1/4 x M32 x 1.5-316SS	1/4"	M32 x 1.5
29676-1/8 x M32 x 1.5-316SS	1/8"	M32 x 1.5
29676-202-316SS	9/16"-24	M32 x 1.5
29677-P x 1-1/8-316SS	PLUG	1-1/8"-20
29677-1/4 x 1-3/4-316SS	1/4"	1-3/4"-8

FOR DETAILED NOZZLE PERFORMANCE DATA, SEE [spray.com/papercatalog/performance](http://spray.com/papercatalog/performance)



**OVERVIEW: NEEDLEJET NOZZLES**

**Ideal for: effectively cleaning and washing of felts, fabric/wire and suction rolls**

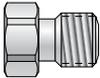
- High-performance NeedleJet nozzles provide powerful solid stream sprays to effectively clean and wash felts, fabric/wire and suction rolls
- Precision-machined to provide tight flow control
- For use with a wide range of showers, including oscillating
- Versions with tubes or extensions in the back end that protrude higher into the shower. This enables better quality water to be drawn into the nozzle and minimizes turbulence
- Powerful solid stream spray from .032 to 11.0 gpm (.12 to 41.6 lpm)
- Operating pressures up to 1000 psi (70 bar)

**NEEDLEJET NOZZLE OPTIONS**



**STYLES**

Model	Model Type	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>48460</b>	Tapered front	9/16"-24 NEF	11/16 (17.5)	316 stainless steel body with synthetic ruby orifice
	<b>19124</b>	Tapered front	9/16"-24 NEF	11/16 (17.5)	316 stainless steel
	<b>P36503</b>	Tapered front	1/4" BSPP	11/16 (17.5)	316 stainless steel

Model	Model Type	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>56740</b>	Longer length design	1/8" BSPP	7/16 (11.1)	316 stainless steel body with synthetic ruby orifice
	<b>48277</b>	Longer length design with extended inlet	1/8"	7/16 (11.1)	316 stainless steel
	<b>21280</b>	Longer length design with extended inlet	9/16"-24 NEF	11/16 (17.5)	316 stainless steel – nozzle and extension tube
	<b>39458</b>	Longer length design with extended inlet	9/16"-24 NEF	11/16 (17.5)	316 stainless steel nozzle and extension tube; ceramic orifice
	<b>22812</b>	Compact design; front of nozzle is flat, not rounded	1/8"	7/16 (11.1)	316 stainless steel
	<b>20094</b>	Compact design	1/4"-28 UNF	5/16 (7.9)	316 stainless steel

FOR DETAILED NOZZLE PERFORMANCE DATA, SEE [spray.com/papercatalog/performance](http://spray.com/papercatalog/performance)



## OVERVIEW: DISCJET NOZZLES

**Ideal for: fitting into tight spaces**

- DiscJet nozzles are ideal for when space is tight; nozzle flush mounts in shower
- Compact design provides uniform coverage
- Provides effective cleaning with minimal water use
- Entrance to orifice designed to prevent clogging
- Offset 5° from shower axis to avoid interference with adjacent sprays
- For use with 46143 retainer cap and 46144 gasket
- Powerful solid stream spray from .025 to 16.7 gpm (.09 to 63.22 lpm)
- Operating pressures up to 150 psi (10 bar)

## DISCJET NOZZLE OPTIONS

**DK versions**

Flat spray pattern  
Threadless connection  
.125 thickness

**DJ versions**

Flat spray pattern  
5/8"-18 threaded connection  
.125 thickness

**48284**

Solid stream  
Threadless connection  
.125 thickness

**25834**

Solid stream  
Threadless connection  
.095 thickness

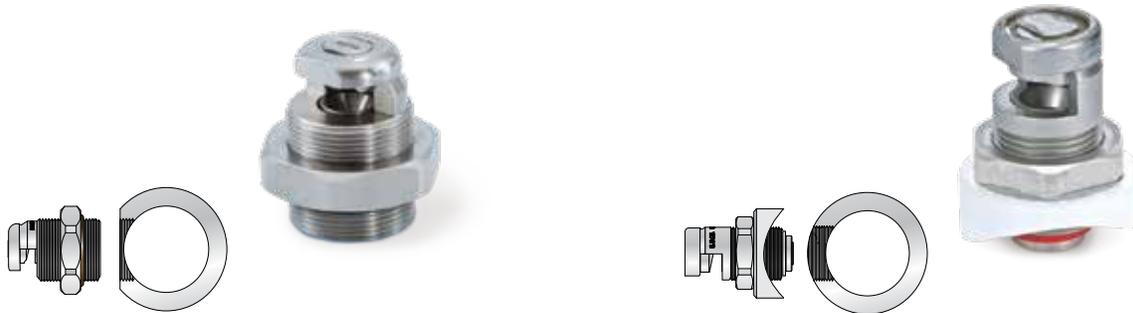
FOR DETAILED NOZZLE PERFORMANCE DATA, SEE  
[spray.com/papercatalog/performance](http://spray.com/papercatalog/performance)

**OVERVIEW: SELF-CLEANING NOZZLES**

**Ideal for: use in environments with suspended solids and showers with high solids content in the water**

- For use with white water on save-all and knock-off showers
- Features a piston-type design. When line pressure is low, the nozzle's piston retracts to purge debris from the nozzle orifice
- Available with low or high actuator pressures
- Compact design fits easily inside paper machines
- Fast, easy installation and alignment
- Uniform spray distribution from .008 to 12.6 gpm (.03 to 47.7 lpm)
- Operating pressures up to 250 psi (17 bar)

**SELF-CLEANING NOZZLE OPTIONS**



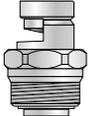
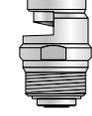
With interface for flat face showers

With interface for round showers

**STYLES**

Model	Model Type	Spray Pattern	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>20210</b>	Flat and solid stream	Hex nut with O-ring for interface with flat face on shower headers	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene® diaphragm
	<b>20235</b>	Flat	Hex nut with polypropylene saddle gasket for interface with round shower headers	3/4"-20 UNEF	1 (25.4)	316 stainless steel body with 302 stainless steel spring, silicone rubber diaphragm and polypropylene saddle gasket
	<b>26225</b>	Flat and solid stream	Hex nut with O-ring interface with flat face on shower	3/4"-20 UNEF	1 (25.4)	316 stainless steel body and spring, Viton® O-ring and silicone rubber diaphragm

## STYLES

Model	Model Type	Spray Pattern	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>26411</b>	Flat	Solid stream pattern: hex nut with O-ring	3/4" BSPP	1-1/2 (38.1)	316 stainless steel body and spring, Viton® O-ring and natural rubber diaphragm
	<b>36090</b>	Flat and solid stream	Hex nut with O-ring interface with flat face on shower	M28 x 1.5	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene® diaphragm
	<b>38332</b>	Flat	Self-sealing design for interface with any shower header	3/4"	1-1/16 (27)	316 stainless steel body and spring, silicone rubber diaphragm
	<b>38490</b>	Double solid stream*	Hex nut with O-ring interface with flat face on shower	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body and spring, Buna-N O-ring and Fairprene diaphragm
	<b>49905</b>	Double flat spray*	Hex nut with O-ring interface with flat face on shower	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene diaphragm
	<b>49905-1</b>			M28 x 1.5		
	<b>72370</b>	Flat	Self-sealing design for interface with any shower header	1/2"	.812 (20.9) flats	316 stainless steel body with 302 stainless steel spring, silicone rubber diaphragm and polypropylene saddle gasket

\* Capacity size is for the entire nozzle assembly.

FOR DETAILED NOZZLE PERFORMANCE DATA, SEE  
[spray.com/papercatalog/performance](https://spray.com/papercatalog/performance)