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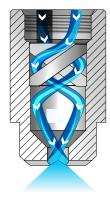
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FULLJET® NOZZLES: SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

### OVERVIEW: FULLJET SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

#### FullJet G and H Square Spray Nozzles



FULL CONE

> **Square spray** As the liquid enters the nozzle, it flows over and through the vane. This creates the initial swirling of the liquid. The design of the nozzle ensures the liquid continues to swirl after passing through the vane. As the liquid exits the orifice, it interacts with cross cuts located on the face of the nozzle and forms a square spray pattern.

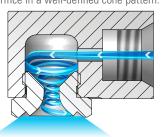
#### FullJet G-VL and GG-VL Nozzles

**Oval spray** As the liquid enters the nozzle, it flows over and through the vane. This creates the initial swirling of the liquid. The design of the nozzle ensures the liquid continues to swirl after passing through the vane. The exit orifice of the nozzle has an oval shape. The liquid follows the oval shape as it exits the nozzle.

#### FullJet GANV and GGANV Nozzles

#### Vaneless spray

The liquid begins to swirl as it enters the swirlchamber. The swirling continues as it passes through the orifice. The breakup of the liquid occurs as it exits the nozzle orifice in a well-defined cone pattern.



### FULLJET SQUARE SPRAY PATTERN

- Cone-shaped spray pattern with square-like impact area for coverage of rectangular areas or spray zones
- Unique vane design and large flow passages provide superior spray pattern control
- Uniform spray distribution from .26 to 1977 gpm (1.1 to 7371 lpm)
- Operating pressures up to 150 psi (10 bar)
- Spray angles: Standard 43° to 94°, Wide 112° to 120°



**G-SO** 1/8" to 1/2" female conn. Removable cap and vane



**H-SQ** 1" female conn. One-piece body

### FULLJET SQUARE SPRAY OPTIONS



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## FULLJET OVAL SPRAY PATTERN

- Solid cone-shaped spray pattern with oval impact area; the width of the spray is approximately half its length
- Unique vane design provides superior spray pattern control
- Uniform spray distribution from .59 to 3.2 gpm (2.2 to 11.9 lpm)
- Operating pressures up to 150 psi (10 bar)
- $\bullet$  Spray angles: Standard 43° to 94°



**G-VL** – 3/8" female conn. Removable cap and vane



**GG-VL** – 3/8" male conn. Removable cap and vane

### FULLJET VANELESS DESIGN

- Solid cone-shaped spray pattern with round impact area
- Uniform spray distribution from .35 to 23 gpm (1.4 to 87 lpm)
- Operating pressures up to 100 psi (7 bar)
- $\bullet$  No vane for unrestricted flow coarse spray is projected at 90° from axis at the inlet
- Spray angles: Standard 43° to 94°



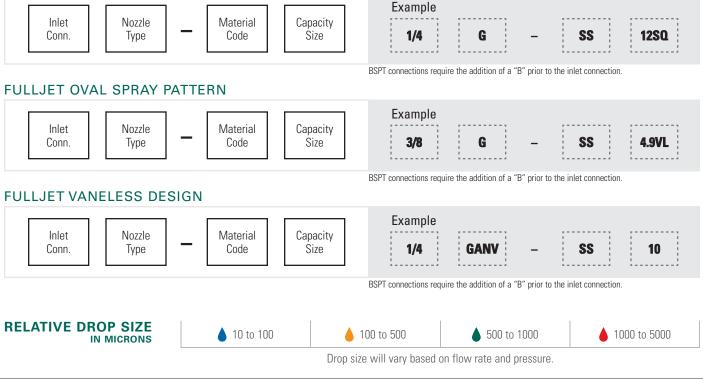
**GGANV** – 1/4" to 1/2" male conn.

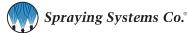
**GANV** – 1/4" to 1/2" female conn. Vaneless design Removable cap

**GGANV** – 1/4" to 1/2" male conn. Vaneless design Removable cap

### ORDERING INFORMATION

### FULLJET SQUARE SPRAY PATTERN





FULLJET® NOZZLES: SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

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# QUICK REFERENCE GUIDE

FULL CONE

	Connection/	Connection		Page N	lumber	
Model	Туре	Size (in.)	Materials	Performance Data	Dimensions and Weights	
G-SQ	F	1/8 to 1/2 Brass, Mild steel (I), 303 stainless steel (SS),		B32		
GG-SQ	М	1/0 10 1/2	316 stainless steel (316SS)	D32		
H-SQ	F	1	Brass, Mild steel (I), 303 stainless steel (SS)	B32		
H-SQ	F, Cast	1-1/4 to 6	1-1/4 to 6 Brass, 316 stainless steel (SS)			
HH-SQ	М	1/8 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B32		
H-WSQ	F	3/4 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)		B35	
H-WSQ	F, Cast	1-1/4 to 3	Brass, 316 stainless steel (SS)	B33		
HH-WSQ	М	1/4 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)			
G-VL	F	2/0	Broom 202 staiplans staal (SS)			
GG-VL	М	3/8	Brass, 303 stainless steel (SS)	B34		
GANV	F 1/4 to 1/2 Proce 202 staisless start (SC)	D34				
GGANV	М	1/4 to 1/2	Brass, 303 stainless steel (SS)			

F = female thread; M = male thread. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request. For more dimensions and sizes, contact your sales engineer.

### PERFORMANCE DATA: STANDARD ANGLE SPRAY

Inlet	Inlet Nozzle Type	Capacity	Orifice Dia.	Max. Free		Flo	w Rate	Capacity	ı (liters p	oer minu	te)		Spra	ay Angl	e (°)			
(in.)	G-SQ	GG-SQ	HH-SQ	H-SQ	Size Nom. (mm)		Passage Dia. (mm)	0.4 bar	0.5 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	0.5 bar	1.5 bar	6 bar
	•	•	•		3.6SQ	1.6	1.3	1.1	1.2	1.4	1.9	2.7	3.7	4.0	4.7	40	52	47
1/8	•	•	•		4.8SQ	1.9	1.3	1.4	1.6	1.8	2.6	3.6	4.9	5.3	6.2	48	63	57
	•	•	•		6SQ	2.4	1.3	1.8	2.0	2.3	3.2	4.5	6.1	6.6	7.8	60	66	60
	•	•	•		10SQ	2.8	1.6	2.9	3.3	3.8	5.4	7.4	10.2	11.0	13.0	62	67	61
1/4	•	•	•		12SQ	3.2	1.6	3.5	3.9	4.6	6.5	8.9	12.3	13.2	15.5	70	75	68
			•		14.5SQ	3.9	1.6	4.3	4.7	5.5	7.8	10.8	14.8	15.9	18.8	78	82	75
3/8	•	•	•		18SQ	4.0	2.4	5.3	5.9	6.9	9.7	13.4	18.4	19.8	23	71	75	68
1/0	•	•	•		29SQ	5.6	3.2	8.5	9.5	11.1	15.7	22	30	32	38	71	75	68
1/2			•		36SQ	6.4	3.2	10.6	11.8	13.7	19.5	27	37	40	47	78	82	75
3/4			•		50SQ	6.7	4.4	14.7	16.3	19.1	27	37	51	55	65	71	75	68
1			•	•	106SQ	9.9	5.6	31	35	40	57	79	109	117	137	78	80	73

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.

Highlighted column shows the rated pressure.



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## **DIMENSIONS AND WEIGHTS**

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	G-SQ	1/8	28.5	9/16	_	0.03
	(F)	1/4	34.1	11/16	_	0.04
	(F) GG-SQ (M) HH-SQ (M) H-SQ (F)	1/8	30.1	9/16	-	0.01
	(M)	1/4	36.5	11/16		0.01
		1/8	22.2	_	12.7	0.01
		1/4	22.2		13.5	0.02
		3/8	23.8	_	16.7	0.05
	(M)	1/2	28.7	_	20.6	0.10
		3/4	38.9	_	27.0	0.04
		1	51.6	-	33.3	0.37
		1	68.3	-	38.1	0.37
		1-1/4	68.3	1-7/8 oct.	-	0.48
		1-1/2	101.6	2-1/8 oct.	_	0.72
		2	127.0	2-5/8 oct.	_	1.17
	(F) Cast	2-1/2	156.4	3-1/8 oct.	_	2.28
•		5	311.2	6-3/4 oct.	_	1.08
		6	365.1	8 oct.	-	1.50

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	H-WSQ	3/4	40.5	_	31.7	0.10
	(F)	1	52.8	_	38.0	0.18
		1-1/4	85.7	-	(mm) 31.7	0.40
		1-1/2	101.6	_	58.7	0.70
	H-WSQ (F) Cast	2	127.0	_	76.2	1.28
Θ		2-1/2	156.4	_	87.3	2.06
		3	186.5	_	103.2	3.02
P		1/4	23.0	_	13.5	0.01
		3/8	30.2	_	16.7	0.03
	HH-WSQ (M)	1/2	34.9	_	20.6	0.05
	. ,	3/4	40.5	-	27.0	0.10
		1	52.8	_	33.3	0.20
	G-VL (F)	3/8	38.1	13/16	57.1	0.06
	GG-VL (M)	3/8	38.1	13/16	57.1	0.05

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	A (mm)	B (mm)	C (mm)	Net Weight (kg)
		1/4	31.8	22.2	13.6	23.1	0.06
	GANV (F)	3/8	35.7	24.6	16.0	27.1	0.09
		1/2	46.0	33.3	19.2	31.9	0.18
		1/4	31.8	22.2	13.6	23.1	0.06
B C	GGANV (M)	3/8	35.7	24.6	16.0	27.1	0.09
		1/2	47.6	34.9	19.2	31.9	0.18

Based on the largest/heaviest version of each type.

Based on the largest/heaviest version of each type.

