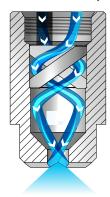
FULLJET® NOZZLES: SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY



OVERVIEW: FULLJET SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

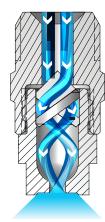
FullJet G and H Square Spray Nozzles



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



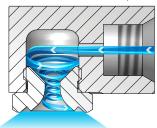
Oval spray

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°

W

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



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

FULLJET SQUARE SPRAY OPTIONS





 \mathbf{HH} - \mathbf{SQ} – 1/8" to 1" male conn. One-piece body



 $\mathbf{H-WSQ} - 3/4$ " to 1" female conn.

One-piece body



Removable vane/cast body





S STANDARD ANGLE SPRAY

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)
- Spray angles: Standard 43° to 94°

S

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)
- No vane for unrestricted flow coarse spray is projected at 90° from axis at the inlet
- Spray angles: Standard 43° to 94°



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



BSPT connections require the addition of a "B" prior to the inlet connection.

FULLJET OVAL SPRAY PATTERN



BSPT connections require the addition of a "B" prior to the inlet connection.

FULLJET VANELESS DESIGN

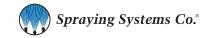


BSPT connections require the addition of a "B" prior to the inlet connection.





Drop size will vary based on flow rate and pressure.

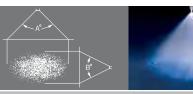




FULLJET® NOZZLES: SQUARE AND OVAL SPRAY PATTERNS AND VANELESS DESIGN

S STANDARD ANGLE SPRAY

PERFORMANCE DATA: STANDARD ANGLE SPRAY

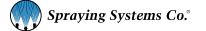


Inlet Conn. (in.)	Nozzle Type		Capacity Size	Max. Free Passage	Flow Rate Capacity (liters per minute)					Spray Angle (°)									
					1	2 3	3	4	6	7	10	1 bar		3 bar		7 bar		10 bar	
	G-VL	GG-VL		Dia. (mm)	bar ba	bar	bar	bar	bar	bar	bar	A°	В°	A°	В°	A°	В°	A°	В°
3/8	•	•	4.9VL	1.0	2.2	3.0	3.6	4.2	5.0	5.4	6.3	104	66	90	60	86	52	83	47
	•	•	6.5VL	1.3	2.9	4.0	4.8	5.5	6.7	7.1	8.4	106	64	95	60	85	50	81	45
	•	•	8.1VL	1.3	3.6	5.0	6.0	6.9	8.3	8.9	10.5	102	64	100	65	84	50	80	45
	•	•	9.2VL	1.3	4.1	5.7	6.8	7.8	9.4	10.1	11.9	103	65	100	65	86	51	81	46

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging. Calibration pressure = 10 psi (0.7 bar).

PERFORMANCE DATA: STANDARD ANGLE SPRAY Max. Orifice Flow Rate Capacity (liters per minute) **Nozzle Type** Spray Angle (°) Inlet Free Capacity Dia. Conn. Passage Size Nom. Dia. 0.5 0.7 0.5 (in.) **GGANV GANV** (mm) (mm) bar 5 2.8 2.0 1.4 1.6 1.9 2.3 2.8 3.9 5.6 6.0 75 82 7 3.2 2.4 2.0 2.3 2.7 3.2 3.9 5.5 7.8 8.4 68 75 82 1/4 8 4.0 2.8 2.3 2.6 3.1 3.6 4.5 6.3 8.9 9.6 75 85 • • 10 4.0 3.2 2.9 3.2 3.8 4.6 5.6 7.9 11.2 12.1 75 80 85 75 11 4.0 3.6 3.2 3.5 4.2 5.0 6.1 8.7 12.3 13.3 85 • • 11 4.4 3.2 3.2 3.5 4.2 5.0 6.1 8.7 12.3 13.3 75 85 83 5.0 5.9 75 • • 13 4.4 3.6 3.7 4.2 7.3 10.3 14.5 15.7 85 83 7.3 75 16 4.4 4.0 4.6 5.2 6.1 8.9 12.6 17.9 19.3 85 83 • • 9.1 75 5.6 4.4 5.8 6.4 7.6 11.2 15.8 22 24 20 85 83 3/8 8.8 10.5 12.8 18.2 26 28 75 • • 23 56 48 66 7 4 85 83 9.9 11.9 14.5 75 26 6.0 5.2 7.5 8.4 21 29 31 85 83 • • • 29 6.0 5.6 8.4 9.3 11.1 13.2 16.2 23 32 35 75 85 83 • 33 7.5 6.0 9.5 10.6 12.6 15.0 18.4 26 37 40 75 85 83 • • 32 7.9 5.2 9.2 10.3 12.2 14.6 17.9 25 36 39 85 90 95 40 7.9 6.0 11.5 12.9 15.3 18.2 22 32 45 48 85 90 95 48 7.9 7.1 13.8 15.5 18.3 22 27 38 54 58 90 95 1/2 9.9 7.5 16.1 18.1 21 26 44 68 95 56 31 63 85 64 9.9 8.3 18.5 24 29 71 77 21 51 85 90 95

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.**



S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY

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
	GG-SQ	1/8	30.1	9/16	_	0.01
	(M)	1/4	36.5	11/16	_	0.01
	HH-SQ (M)	1/8	22.2	_	12.7	0.01
D		1/4	22.2	_	13.5	0.02
		3/8	23.8	_	16.7	0.05
		1/2	28.7	_	20.6	0.10
		3/4	38.9	-	27.0	0.04
		1	51.6	-	33.3	0.37
	H-SQ (F)	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
	H-SQ (F) Cast	2	127.0	2-5/8 oct.	_	1.17
		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

Racad on	tho	largest/heaviest version of ea	ch typo
Daseu un	uie	idiyesi/ileaviesi version or ea	cii type.

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
D	(F)	1	52.8	-	38.0	0.18
		1-1/4	85.7	-	52.4	0.40
		1-1/2	101.6	_	58.7	0.70
L	H-WSQ (F) Cast	2	127.0	_	76.2	1.28
•		2-1/2	156.4	_	87.3	2.06
D-		3	186.5	-	103.2	3.02
⊢ D − −1		1/4	23.0	-	13.5	0.01
	HH-WSQ (M)	3/8	30.2	_	16.7	0.03
L L		1/2	34.9	_	20.6	0.05
		3/4	40.5	_	27.0	0.10
		1	52.8	_	33.3	0.20
55	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)
A		1/4	31.8	22.2	13.6	23.1	0.06
B C	GANV (F)	3/8	35.7	24.6	16.0	27.1	0.09
L		1/2	46.0	33.3	19.2	31.9	0.18
A		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.