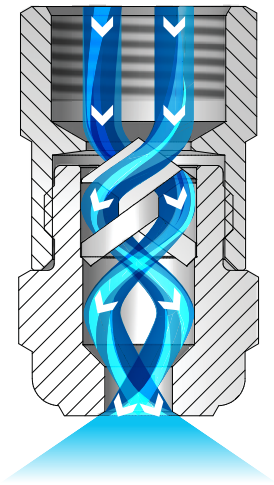
FULLJET® G AND H NOZZLES

S STANDARD ANGLE SPRAY | W WIDE ANGLE SPRAY | N NARROW ANGLE SPRAY

OVERVIEW: FULLJET G AND H

- Solid cone-shaped spray pattern with round impact area
- Unique vane design minimizes turbulence of the fluid to ensure uniform spray distribution and consistent spray coverage
- Large unobstructed flow passages minimize clogging and increase throughput
- Removable caps and vanes in most models make maintenance fast and easy
- Standard, wide and narrow spray angles



FullJet G and H Nozzles

The liquid enters the nozzle and proceeds through the vane. The vane causes the liquid to swirl. The design of the nozzle ensures the liquid continues to swirl as it enters the orifice. The liquid breaks up as it exits the nozzle orifice forming a well defined cone pattern. The drops are uniform in size and distributed equally throughout the spray pattern.

FULLJET G NOZZLES

- Spray angles: Standard – 43° to 94°, Narrow – 15° or 30°, Wide – 112° to 120°
- Uniform spray distribution from .07 to 25 gpm (.29 to 92 lpm)
- Operating pressures up to 300 psi (20 bar)
- Wall-mount versions for installation on room exterior, vessel or pipeline
- Right-angle mount versions for 90° angle mounting in areas with limited space

S W

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

S W

GG
1/8" to 1/2" male conn.
Removable cap and vane

FULLJET G OPTIONS

S

GD – 1/8" to 1/2" female conn.
Wall-mount
Removable cap and vane

S

GGD – 1/8" to 1/2" male conn.
Wall-mount
Removable cap and vane

S W

GA – 1/8" to 1/2" female conn.
Angle-type
Removable cap and vane

S W

GGA – 1/8" to 1/2" male conn.
Angle-type
Removable cap and vane

N

G-15
1/8" to 1/2" female conn.
Removable cap and vane

N

GG-15
1/8" to 1/2" male conn.
Removable cap and vane

N

G-30
1/8" to 3/4" female conn.
Removable cap and vane

N

GG-30
1/8" to 3/4" male conn.
Removable cap and vane

FULLJET H NOZZLES

- Spray angles: Standard – 43° to 94°, Narrow – 15° or 30°, Wide – 102° to 125°
- Uniform spray distribution from .07 to 5324 gpm (.29 to 19842 lpm)
- Operating pressures up to 300 psi (20 bar)
- Wall-mount versions for installation on room exterior, vessel or pipeline
- Certain nozzles available with UL listing

H – 3/4" to 1" female conn.
One-piece body

H – 1-1/4" to 8" female conn.
Removable vane/cast body

H – 1-1/2" to 2" female conn.
Removable vane/
polypropylene*

FULLJET H OPTIONS

HH – 1/8" to 1" male conn.
One-piece body

D-HH – 1/2" to 3/4" male conn.
One-piece body/plastic**

HF – 4" to 10" flange conn.
Removable vane/cast body

*Max. temperature for polypropylene: 150°F (66°C). ** Max. temperature for Kynar®: 212°F (100°C).

HD – 3/4" to 3" female conn.
Wall-mount
One-piece body

H-15 – 3/4" to 3" female conn.
One-piece body
Removable vane

H-15 – 4" to 5" female conn.
Two-piece cast body
Removable vane

HH-30 – 1" to 2-1/2" male conn.
One-piece body
Removable vane

ORDERING INFORMATION

FULLJET G, GD, GA, G-15, G-30, H, HF, HD, H-15 AND HH-30

Inlet Conn.	Nozzle Type	–	Material Code	Capacity Size

Example: 1/4 G – SS 10

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

FULLJET D-HH

Nozzle Prefix	Inlet Conn.	Nozzle Type	–	Material Code	Spray Angle	Capacity Size

Example: D 1/2 HH – PP 70 24

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

RELATIVE DROP SIZE
IN MICRONS

10 to 100	100 to 500	500 to 1000	1000 to 5000

Drop size will vary based on flow rate and pressure.

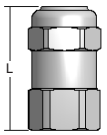
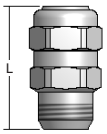
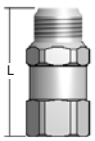
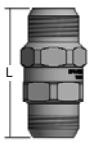
S PERFORMANCE DATA: STANDARD ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type										Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
	Standard					Wall-Mount			Angle					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
	G	GG	H	HH	HF	GD	HD	GGD	GA	GGA														
1/8	●	●		●		●		●			1	.79	.64	–	–	.38	.54	.74	1.0	1.1	1.3	–	58	53
	●	●		●							1.5	1.2	.64	.44	.49	.57	.80	1.1	1.5	1.6	1.9	52	65	59
	●	●		●		●		●	●	●	2	1.2	1.0	.59	.65	.76	1.1	1.5	2.0	2.2	2.6	43	50	46
	●	●		●		●		●	●	●	3	1.5	1.0	.88	.98	1.1	1.6	2.2	3.1	3.3	3.9	52	65	59
	●	●		●		●		●	●	●	3.5	1.6	1.3	1.0	1.1	1.3	1.9	2.6	3.6	3.8	4.5	43	50	46
									●	●	3.9	2.0	1.0	1.1	1.3	1.5	2.1	2.9	4.0	4.3	5.1	77	84	79
	●	●		●		●		●	●	●	5	2.0	1.3	1.5	1.6	1.9	2.7	3.7	5.1	5.5	6.5	52	65	59
									●	●	6.1	2.3	1.3	1.8	2.0	2.3	3.3	4.5	6.2	6.7	7.9	69	74	68
1/4	●	●		●		●		●	●	●	6.5	2.4	1.6	1.9	2.1	2.5	3.5	4.8	6.7	7.1	8.4	45	50	46
	●	●		●		●		●	●	●	10	3.2	1.6	3.0	3.3	3.8	5.4	7.5	10.3	11.0	13.0	58	67	61
				●					●	●	12.5	3.2	1.6	3.7	4.1	4.8	6.8	9.3	12.8	13.7	16.2	69	74	68
3/8	●	●		●		●		●	●	●	9.5	2.6	2.4	2.8	3.1	3.6	5.1	7.1	9.7	10.4	12.3	45	50	46
	●	●		●		●		●	●	●	15	3.6	2.4	4.4	4.9	5.7	8.1	11.2	15.4	16.5	19.4	64	67	61
									●	●	20	4.0	2.8	6.0	6.6	7.6	10.7	14.5	19.6	22	26	76	80	73
	●	●		●					●	●	22	4.5	2.8	6.5	7.2	8.4	11.9	16.4	23	24	28	87	90	82
1/2	●	●				●		●	●	●	16	3.5	3.2	4.7	5.2	6.1	8.7	11.9	16.4	17.6	21	48	50	46
	●	●		●		●		●	●	●	25	4.6	3.2	7.4	8.2	9.5	13.5	18.6	26	27	32	64	67	61
	●	●							●	●	32	5.2	3.6	9.4	10.4	12.2	17.3	24	33	35	41	72	75	68
	●	●		●					●	●	40	6.2	3.6	11.9	13.1	15.2	21	29	39	44	52	88	91	83
									●	●	50	6.7	4.0	14.7	16.3	19.1	27	37	51	55	65	91	94	86
3/4			●	●			●				2.5	4.9	4.4	8.7	9.6	11.2	15.9	22	30	32	38	48	50	46
			●	●			●				4.0	6.4	4.4	13.9	15.4	18.0	26	35	48	52	61	67	70	63
			●	●			●				7.0	9.5	5.2	24	27	31	45	61	84	91	107	89	92	84
1			●	●			●				4.2	6.0	5.6	14.6	16.2	18.9	27	37	51	54	64	48	50	46
			●	●			●				7.0	8.3	5.6	24	27	31	45	61	84	91	107	67	68	62
			●	●							8.0	9.5	5.6	28	31	36	51	70	97	104	122	72	81	82
			●	●							10	11.9	5.6	35	38	45	64	88	121	130	153	78	90	94
			●	●							12	11.9	6.4	42	46	54	77	105	145	155	183	89	92	84
1-1/4			●								6	7.4	6.4	21	23	27	38	53	72	78	92	48	50	44
			●				●				10	9.6	6.4	35	38	45	64	88	121	130	153	64	67	58
			●				●				12	10.7	6.4	42	46	54	77	105	145	155	183	66	70	60
			●								14	12.3	6.4	49	54	63	89	123	169	181	214	77	80	70
			●								16	12.7	7.9	56	62	72	102	140	193	207	244	73	76	66
			●								20	15.1	7.9	69	77	90	128	175	241	259	305	90	93	81

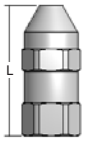
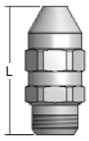
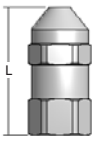
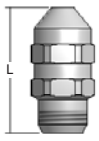
Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging.

Highlighted column shows the rated pressure.

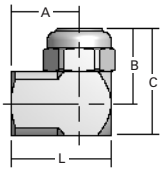
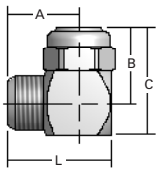
DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	G (F) G-W (F)	1/8	55.6	9/16	0.03
		1/4	37.3	11/16	0.04
		3/8	46.0	13/16	0.07
		1/2	57.2	1	0.17
	GG (M) GG-W (M)	1/8	32.5	9/16	0.02
		1/4	39.7	11/16	0.04
		3/8	46.8	13/16	0.07
		1/2	56.4	1	0.17
	GD (F)	1/8	35.3	9/16	0.03
		1/4	40.9	11/16	0.04
		3/8	46.0	1	0.07
		1/2	30.6	1	0.13
	GGD (M)	1/8	36.9	9/16	0.03
		1/4	43.3	11/16	0.04
		3/8	46.8	13/16	0.07
		1/2	55.2	1	0.13

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	G-15 (F)	1/8	33.3	9/16	0.03
		1/4	41.3	11/16	0.06
		3/8	47.6	13/16	0.09
		1/2	61.1	1	0.17
	GG-15 (M)	1/8	34.9	9/16	0.03
		1/4	43.7	11/16	0.04
		3/8	48.4	13/16	0.09
		1/2	61.1	1	0.17
	G-30 (F)	1/8	35.3	11/16	0.06
		1/4	42.9	13/16	0.09
		3/8	54.0	1	0.17
		1/2	59.5	1-1/4	0.32
		3/4	84.1	1-1/2	0.43
	GG-30 (M)	1/8	38.9	23/32	0.06
		1/4	45.2	13/16	0.09
		3/8	55.6	13/16	0.16
		1/2	69.9	1-1/4	0.26
		3/4	87.3	1-1/2	0.57

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)
	GA (F) GA-W (F)	1/8	23.1	16.0	14.3	21.4	0.04
		1/4	28.7	20.1	19.8	28.6	0.06
		3/8	32.5	22.2	30.2	40.5	0.09
		1/2	39.7	27.0	38.9	51.6	0.18
	GGA (M) GGA-W (M)	1/8	23.9	16.8	14.3	21.4	0.04
		1/4	29.5	20.8	19.8	28.6	0.06
		3/8	33.3	23.0	30.2	40.5	0.09
		1/2	40.9	28.2	34.5	47.2	0.18

Based on the largest/heaviest version of each type.