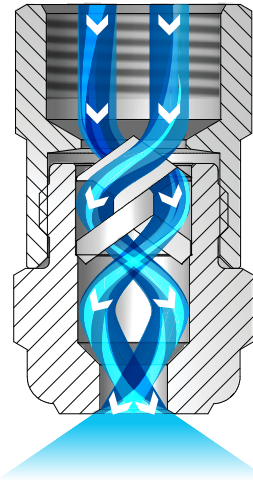


**OVERVIEW: FULLJET G AND H**

- 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



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



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

**FULLJET G OPTIONS**

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

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

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

**S**  
W  
G  
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

**S** STANDARD ANGLE SPRAY

**W** WIDE ANGLE SPRAY

**N** NARROW ANGLE SPRAY

**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 



**FULLJET H OPTIONS**

 <p><b>HH</b> – 1/8" to 1" male conn. One-piece body</p>	 <p><b>D-HH</b> – 1/2" to 3/4" male conn. One-piece body/plastic**</p>	 <p><b>HF</b> – 4" to 10" flange conn. Removable vane/cast body</p>	
 <p><b>HD</b> – 3/4" to 3" female conn. Wall-mount One-piece body</p>	 <p><b>H-15</b> – 3/4" to 3" female conn. One-piece body Removable vane</p>	 <p><b>H-15</b> – 4" to 5" female conn. Two-piece cast body Removable vane</p>	 <p><b>HH-30</b> – 1" to 2-1/2" male conn. One-piece body Removable vane</p>

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

**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	<b>Example</b>
				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	<b>Example</b>
						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
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Drop size will vary based on flow rate and pressure.



PERFORMANCE DATA:  
STANDARD ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type										Capacity Size	Orifice Dia. Nom. (in.)	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
	Standard				Wall-Mount			Angle						5 psi	7 psi	10 psi	20 psi	40 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi		
	G	GG	H	HH	HF	GD	HD	GGD	GA	GGA																
1/8	•	•		•		•		•			1	.031	.025	–	–	.10	.14	.19	.26	.29	.35	–	58	53		
	•	•		•							1.5	.044	.025	.11	.13	.15	.21	.28	.39	.43	.52	52	65	59		
	•	•		•		•		•	•	•	2	.048	.040	.15	.17	.20	.28	.38	.52	.58	.70	43	50	46		
	•	•		•		•		•	•	•	3	.063	.040	.22	.25	.30	.41	.57	.78	.87	1.0	52	65	59		
	•	•		•		•		•	•	•	3.5	.063	.050	.25	.30	.35	.48	.66	.91	1.0	1.2	43	50	46		
									•	•		3.9	.078	.040	.28	.33	.39	.54	.74	1.0	1.1	1.4	77	84	79	
	•	•		•		•		•	•	•		5	.078	.050	.36	.42	.50	.69	.95	1.3	1.4	1.7	52	65	59	
1/4								•	•		6.1	.094	.050	.44	.52	.61	.84	1.2	1.6	1.8	2.1	69	74	68		
	•	•		•		•		•	•	•	6.5	.094	.063	.47	.55	.65	.89	1.2	1.7	1.9	2.3	45	50	46		
	•	•		•		•		•	•	•	10	.109	.063	.73	.85	1.0	1.4	1.9	2.6	2.9	3.5	58	67	61		
3/8								•	•		12.5	.125	.063	.91	1.1	1.3	1.7	2.4	3.3	3.6	4.3	69	74	68		
	•	•		•		•		•	•	•	9.5	.109	.094	.69	.81	.95	1.3	1.8	2.5	2.7	3.3	45	50	46		
	•	•		•		•		•	•	•	15	.141	.094	1.1	1.3	1.5	2.1	2.8	3.9	4.3	5.2	64	67	61		
									•	•		20	.156	.109	1.5	1.7	2.0	2.8	3.8	5.2	5.8	7.0	76	80	73	
1/2	•	•		•		•		•	•	•	22	.188	.109	1.6	1.9	2.2	3.0	4.2	5.7	6.3	7.6	87	90	82		
	•	•		•		•		•	•	•	16	.141	.125	1.2	1.4	1.6	2.2	3.0	4.2	4.6	5.6	48	50	46		
	•	•		•		•		•	•	•	25	.188	.125	1.8	2.1	2.5	3.4	4.7	6.5	7.2	8.7	64	67	61		
	•	•		•		•		•	•	•	32	.203	.141	2.3	2.7	3.2	4.4	6.1	8.3	9.2	11.1	72	75	68		
	•	•		•		•		•	•	•	40	.250	.141	2.9	3.4	4.0	5.5	7.6	10.4	11.5	13.9	88	91	83		
3/4								•	•		50	.266	.156	3.6	4.2	5.0	6.9	9.5	13.0	14.4	17.4	91	94	86		
			•	•		•		•			2.5	.188	.172	2.1	2.5	2.9	4.1	5.6	7.7	8.5	10.2	48	50	46		
			•	•		•		•			4.0	.250	.172	3.4	4.0	4.7	6.5	8.9	12.3	13.6	16.4	67	70	63		
1			•	•		•		•			7.0	.328	.203	6.0	7.0	8.2	11.3	15.6	21	24	29	89	92	84		
			•	•		•		•			4.2	.234	.219	3.6	4.2	4.9	6.8	9.4	12.9	14.3	17.2	48	50	46		
			•	•		•		•			7.0	.328	.219	6.0	7.0	8.2	11.3	15.6	21	24	29	67	68	62		
			•	•		•		•			8.0	.375	.219	6.9	8.0	9.4	13.0	17.8	25	27	33	72	81	82		
			•	•		•		•			10	.469	.219	8.6	10.0	11.8	16.2	22	31	34	41	78	90	94		
			•	•		•		•			12	.469	.250	10.3	12.0	14.1	19.4	27	37	41	49	89	92	84		
1-1/4			•								6	.297	.250	5.1	6.0	7.1	9.7	13.4	18.4	20	25	48	50	44		
			•								10	.375	.250	8.6	10.0	11.8	16.2	22	31	34	41	64	67	58		
			•								12	.422	.250	10.3	12.0	14.1	19.4	27	37	41	49	66	70	60		
			•								14	.484	.250	12.0	14.0	16.5	23	31	43	48	57	77	80	70		
			•								16	.500	.313	13.7	16.0	18.9	26	36	49	54	66	73	76	66		
		•								20	.594	.313	17.1	20	24	32	45	61	68	82	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.



S PERFORMANCE DATA:  
STANDARD ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type										Capacity Size	Orifice Dia. Nom. (in.)	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)								Spray Angle (°)		
	Standard					Wall-Mount			Angle					5 psi	7 psi	10 psi	20 psi	40 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
	G	GG	H	HH	HF	GD	HD	GGD	GA	GGA														
1-1/2			●				●				10	.375	.344	8.6	10.0	11.8	16.2	22	31	34	41	48	50	44
			●				●				16	.500	.344	13.7	16.0	18.9	26	36	49	54	66	72	74	64
			●				●				20	.563	.344	17.1	20	24	32	45	61	68	82	74	76	66
			●				●				30*	.719	.406	26	30	35	49	67	92	102	123	91	94	82
2			●				●				17	.500	.438	14.6	17.0	20	28	38	52	58	70	49	50	44
			●				●				30	.688	.438	26	30	35	49	67	92	102	123	72	74	64
			●				●				35	.750	.438	30	35	41	57	78	107	119	143	75	77	68
			●				●				40	.828	.438	34	40	47	65	89	123	136	164	78	80	70
			●				●				50*	.938	.563	43	50	59	81	111	153	170	205	83	85	75
			●				●				60*	1.125	.563	51	60	71	97	134	184	204	246	98	100	86
2-1/2			●				●				25	.594	.563	21	25	29	41	56	77	85	102	49	50	44
			●				●				50	.875	.563	43	50	59	81	111	153	170	205	72	74	64
			●				●				60	.969	.563	51	60	71	97	134	184	204	246	76	78	68
			●				●				70	1.125	.563	60	70	82	113	156	215	238	287	79	82	72
			●				●				80	1.125	.688	69	80	94	130	178	245	272	328	86	88	77
			●				●				90	1.250	.688	77	90	106	146	201	276	306	369	95	97	84
3			●				●				42	.750	.688	36	42	49	68	94	129	143	172	49	50	44
			●				●				80	1.094	.688	69	80	94	130	178	245	272	328	81	84	73
			●				●				90	1.188	.688	77	90	106	146	201	276	306	369	86	89	77
			●				●				100	1.281	.688	86	100	118	162	223	307	340	410	92	95	83
			●				●				110	1.938	.813	93	110	131	186	263	372	416	509	86	89	77
			●				●				120	1.375	.813	101	120	143	203	287	406	454	555	102	105	89
4			●		●						160	1.688	.750	137	160	189	259	357	491	544	655	87	90	70
			●		●						180	1.859	.875	154	180	212	292	401	552	612	737	92	95	83
			●		●						200	2.0	1.0	171	200	236	324	446	613	680	819	97	100	87
			●		●						210	2.156	1.0	180	210	247	340	468	644	714	860	102	105	91
5			●		●						250	1.875	1.125	214	250	295	405	557	767	850	1024	89	91	80
			●		●						280	2.078	1.125	240	280	330	454	624	859	952	1147	93	96	84
			●		●						320	2.688	1.375	274	320	377	519	713	981	1087	1310	97	100	87
			●		●						330	2.844	1.375	283	330	389	535	736	1012	1121	1351	102	105	91
6			●		●						350	2.406	1.625	300	350	412	567	780	1073	1189	1433	87	90	78
			●		●						400	2.719	1.625	343	400	471	648	892	1227	1359	1638	92	95	83
			●		●						450	3.031	1.750	385	450	530	729	1003	1380	1529	1843	97	100	87
			●		●						480	3.219	1.750	411	480	566	778	1070	1472	1631	1966	102	105	91

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

\*These capacity sizes are not available for H in polypropylene.

Highlighted column shows the rated pressure.



**S** PERFORMANCE DATA: STANDARD ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type										Capacity Size	Orifice Dia. Nom. (in.)	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)								Spray Angle (°)		
	Standard					Wall-Mount			Angle					5 psi	7 psi	10 psi	20 psi	40 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
	G	GG	H	HH	HF	GD	HD	GGD	GA	GGA														
8			●		●						500	2.750	1.875	428	500	589	810	1115	1533	1699	2048	78	80	70
			●		●						600	3.156	1.875	514	600	707	972	1338	1840	2039	2457	86	88	77
			●		●						700	3.594	1.875	600	700	825	1135	1561	2147	2379	2867	92	95	83
			●		●						800	4.031	2.250	685	800	943	1297	1784	2453	2719	3276	102	105	91
			●		●						900	4.875	2.250	771	900	1060	1459	2007	2760	3058	3686	106	110	96
10					●						800	3.344	2.500	685	800	943	1297	1784	2453	2719	3276	78	80	70
					●						1000	3.969	2.500	857	1000	1178	1621	2229	3067	3398	4095	86	89	77
					●						1200	4.797	2.625	1028	1200	1414	1945	2675	3680	4078	4914	97	100	87
					●						1300	5.313	2.625	1114	1300	1532	2107	2898	3987	4418	5324	103	106	92

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** PERFORMANCE DATA: STANDARD ANGLE SPRAY

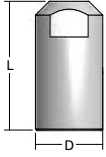
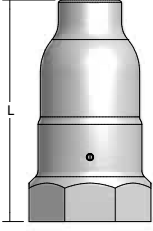
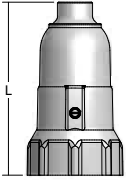
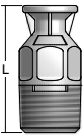
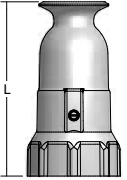
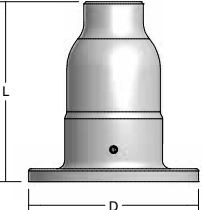
Inlet Conn. (in.)	Nozzle Type			Capacity Size	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)									
	D-HH					5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi
	Spray Angle														
	70°	90°	120°												
1/2	●	●		24	0.161	1.7	2.0	2.4	3.3	4.0	4.6	5.5	6.3	6.9	8.3
		●		26	0.161	1.9	2.2	2.6	3.6	4.3	5.0	5.9	6.8	7.5	9.0
	●	●		27.5	0.162	2.0	2.3	2.8	3.8	4.6	5.3	6.3	7.2	7.9	9.6
	●	●	●	31	0.118	2.3	2.6	3.1	4.3	5.1	5.9	7.1	8.1	8.9	10.8
		●	●	40	0.138	2.9	3.4	4.0	5.5	6.6	7.7	9.1	10.4	11.5	13.9
		●	●	50	0.165	3.6	4.2	5.0	6.9	8.3	9.6	11.4	13.0	14.4	17.4
		●	●	58	0.197	4.2	4.9	5.8	8.0	9.6	11.1	13.2	15.1	16.7	20.2
3/4		●		3.4	0.197	2.9	3.4	4.0	5.5	6.7	7.7	9.1	10.4	11.5	13.9
		●		4.1	0.197	3.5	4.1	4.8	6.6	8.1	9.2	11.0	12.6	13.8	16.7
		●		4.8	0.197	4.1	4.8	5.6	7.7	9.4	10.7	12.9	14.7	16.2	19.5
		●	●	6	0.221	5.2	6.0	7.1	9.8	11.7	13.6	16.1	18.4	20.5	24.7
		●	●	7	0.221	6.0	7.0	8.3	11.4	13.7	15.9	18.8	21.5	23.9	28.9
		●	●	8.5	0.228	7.3	8.5	10.0	13.8	16.6	19.2	22.8	26.0	28.8	34.8
			●	10	0.228	8.6	10.0	11.8	16.2	19.5	22.3	26.9	30.7	34.0	41.0

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

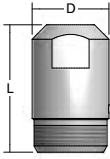
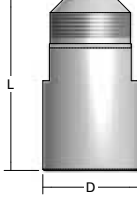
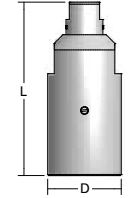
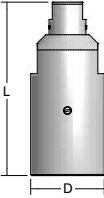
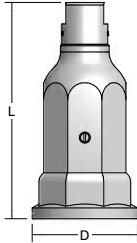
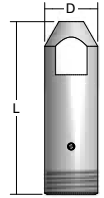
Highlighted column shows the rated pressure.



**DIMENSIONS AND WEIGHTS**

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	D (Dia.) (in.)	Net Weight (oz.)
	<b>H (F) H-W (F)</b>	3/4	2.188	1.250	7.3
		1	2.734	1.500	12.4
	<b>H (F) H-W (F) Cast</b>	1-1/4	3.440	2.063 oct.	25.7
		1-1/2	4.063	2.313 oct.	25.4
		2	5.440	3.000 oct.	60
		2-1/2	6.313	3.438 oct.	76
		3	7.375	4.063 oct.	95.3
		4	9.563	5.438 oct.	12 lbs.
	<b>H (F) Cast</b>	5	11.563	6.750 oct.	30.8 lbs.
		6	14.375	8.000 oct.	49 lbs.
	<b>H (F) Polypropylene</b>	1-1/2	4.100	2.344	2.3
		2	5.188	3.000	3.8
	<b>D-HH (M) Polypropylene</b>	1/2	1.700	0.750	0.3
		3/4	2.090	1.000	0.9
	<b>H-W (F) Polypropylene</b>	1-1/2	4.240	2.344	1.9
		2	5.465	2.813	4
	<b>HF (Flange)</b>	4	8.125	8.750	28.8 lbs.
		5	10.560	10.000	34.3 lbs.
		6	12.625	11.000	49 lbs.
		8	16.625	13.500	120 lbs.
		10	20.750	16.000	193 lbs.

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	D (Dia.) (in.)	Net Weight (oz.)
	<b>HH (M) HH-W (M)</b>	1/8	0.875	0.500	0.5
		1/4	0.880	0.531	0.5
		3/8	0.940	0.656	1
		1/2	1.156	0.813	1.5
		3/4	1.531	1.063	3.5
		1	2.031	1.313	7
	<b>HH-W (M) (Wide angle only) Standard angle not available for these sizes</b>	1-1/4	2.750	1.688	21.4
		1-1/2	3.250	2.000	28.7
	<b>HD (F)</b>	3/4	2.125	1.250	6
		1	2.688	1.500	10.4
		1-1/4	3.375	1.875	25.6
		1-1/2	4.063	2.250	47.3
		2	5.063	2.750	66.3
		2-1/2	6.250	3.250	7.9 lbs.
		3	7.313	4.000	12.6 lbs.
		3	10.563	4.125	7.6 lbs.
	<b>H-15 (F)</b>	3/4	2.844	1.250	10.9
		1	3.625	1.500	19
		1-1/4	4.625	1.875	36.7
		1-1/2	5.000	2.313	39.3
		2	7.219	3.000	43.8
		2-1/2	8.656	3.109	6.2 lbs.
	<b>H-15 (F) Cast</b>	4	13.313	5.438	14.8 lbs.
		5	16.875	6.750	39 lbs.
	<b>HH-30 (M)</b>	1	3.625	1.313	16
		1-1/4	6.090	1.750	41
		1-1/2	6.190	1.875	47
		2	7.859	2.375	11.7 lbs.
		2-1/2	10.375	2.875	12 lbs.
		3	10.375	3.500	31.9 lbs.

Based on the largest/heaviest version of each type.