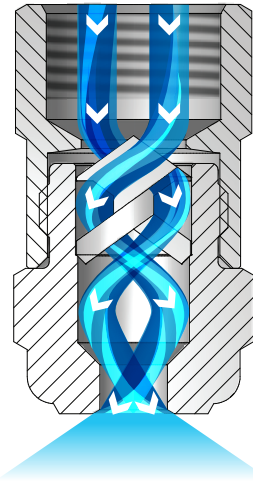


**OVERVIEW: FULLJET G AND H**

- 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**  
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

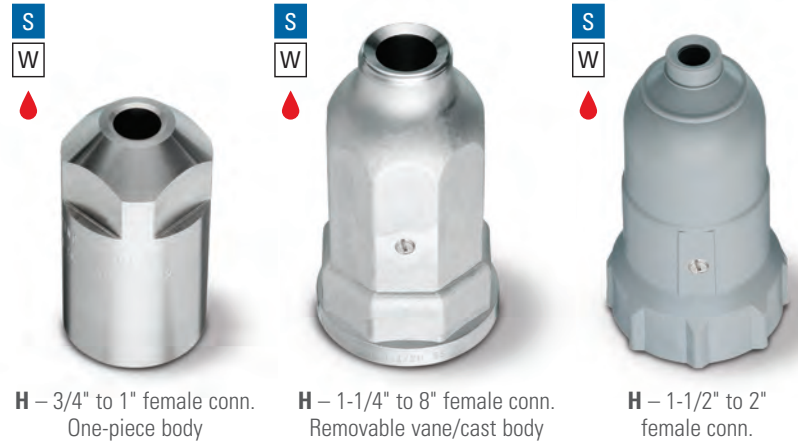
**N**  
G-30  
1/8" to 3/4" female conn.  
Removable cap and vane

**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 



**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
---	--	---	--

Drop size will vary based on flow rate and pressure.





**QUICK REFERENCE GUIDE**

Model	Connection/ Type	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
<b>G</b>	F	1/8 to 1/2	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B7	B12
<b>GG</b>	M	1/8 to 1/2			
<b>GD</b>	F, Wall-mount	1/8 to 1/2			
<b>GGD</b>	M, Wall-mount	1/8 to 1/2			
<b>GA</b>	F, Angle-type	1/8 to 1/2			
<b>GGA</b>	M, Angle-type	1/8 to 1/2			
<b>G-W</b>	F	1/8 to 1/2	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B10	
<b>GG-W</b>	M	1/8 to 1/2			
<b>GA-W</b>	F, Angle-type	1/8 to 1/2			
<b>GGA-W</b>	M, Angle-type	1/8 to 1/2			
<b>G-15</b>	F	1/8 to 1/2	Brass, 303 stainless steel (SS)	B11	
<b>GG-15</b>	M	1/8 to 1/2			
<b>G-30</b>	F	1/8 to 3/4	Brass, 303 stainless steel (SS), 316 stainless steel/303 caps (SS)	B11	
<b>GG-30</b>	M	1/8 to 3/4			
<b>H</b>	F	3/4 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B7	B13
<b>H</b>	F, Cast	1-1/4 to 8	Brass, 316 stainless steel (SS)	B7-B9	
<b>H</b>	F	1-1/2 to 2	Polypropylene (PP)	B8	
<b>HH</b>	M	1/8 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B7	
<b>D-HH</b>	M	1/2 to 3/4	Kynar®, Polypropylene (PP)	B9	
<b>HF</b>	Flange, Cast	4 to 10	Brass, 316 stainless steel (SS)	B8, B9	
<b>HD</b>	F, Wall-mount	3/4 to 3	Brass, Mild steel (I), 303 stainless steel (SS)	B7, B8	
<b>H-W</b>	F	3/4 to 1	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)	B10	
<b>H-W</b>	F, Cast	1-1/4 to 4	Brass, 316 stainless steel (SS)		
<b>H-W</b>	F	1-1/2 to 2	Polypropylene (PP)		
<b>HH-W</b>	M	1/8 to 1-1/2	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	B11	
<b>H-15</b>	F	3/4 to 3	Brass, 303 stainless steel (SS)		
<b>H-15</b>	F, Cast	4 to 5	Brass, 316 stainless steel/303 caps (SS)		
<b>HH-30</b>	M	1 to 2-1/2	Brass, 303 stainless steel (SS), 316 stainless steel/303 caps (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.



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		
1/4								•	•	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			
	•	•		•		•		•	•	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			
3/8								•	•	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			
	•	•		•		•		•	•	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		
1/2	•	•		•		•		•	•	22	4.5	2.8	6.5	7.2	8.4	11.9	16.4	23	24	28	87	90	82			
	•	•		•		•		•	•	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			
									•	•	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.



PAWIN Engineering Co., Ltd.  
168 อาคาร Axiom 1 น. 7 ถ. ซอยถ. อ. บางพลีใหญ่  
อ. บางพลี จ. สมุทรปราการ 10540



Spraying Systems Co.®

**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														
1-1/2			●				●				10	9.5	8.7	35	38	45	64	88	121	130	153	48	50	44
			●				●				16	12.7	8.7	56	62	72	102	140	193	207	244	72	74	64
			●				●				20	14.3	8.7	69	77	90	128	175	241	259	305	74	76	66
			●				●				30*	18.3	10.3	104	115	135	191	263	362	389	458	91	94	82
2			●				●				17	12.7	11.1	59	65	76	108	149	205	220	259	49	50	44
			●				●				30	17.3	11.1	104	115	135	191	263	362	389	458	72	74	64
			●				●				35	19.2	11.1	122	135	157	223	307	422	453	534	75	77	68
			●				●				40	21.0	11.1	139	154	180	255	351	483	518	611	78	80	70
			●				●				50*	23.8	14.3	174	192	225	319	439	603	648	763	83	85	75
			●				●				60*	28.6	14.3	208	231	269	383	526	724	777	916	98	100	86
2-1/2			●				●				25	15.1	14.3	87	96	112	159	219	302	324	382	49	50	44
			●				●				50	22.2	14.3	174	192	225	319	439	603	648	763	72	74	64
			●				●				60	24.6	14.3	208	231	269	383	526	724	777	916	76	78	68
			●				●				70	28.6	14.3	243	269	314	446	614	845	907	1068	79	82	72
			●				●				80	28.6	17.5	278	308	359	510	702	965	1036	1221	86	88	77
			●				●				90	30.2	17.5	312	346	404	574	790	1086	1166	1374	95	97	84
3			●				●				42	19.1	17.5	146	162	189	268	368	507	544	641	49	50	44
			●				●				80	27.8	17.5	278	308	359	510	702	965	1036	1221	81	84	73
			●				●				90	30.2	17.5	312	346	404	574	790	1086	1166	1374	86	89	77
			●				●				100	32.5	17.5	347	385	449	638	877	1207	1295	1526	92	95	83
			●				●				110	33.3	18.2	382	423	494	702	965	1327	1425	1679	86	89	77
			●				●				120	34.9	20.6	417	462	539	765	1053	1448	1554	1832	102	105	89
4			●		●						160	42.9	19.1	556	616	719	1020	1404	1931	2073	2442	87	90	70
			●		●						180	47.2	22.2	625	693	808	1148	1579	2172	2332	2747	92	95	83
			●		●						200	50.8	25.4	694	769	898	1276	1755	2413	2591	3053	97	100	87
			●		●						210	54.8	25.4	729	808	943	1339	1842	2534	2720	3205	102	105	91
5			●		●						250	47.6	28.6	868	962	1123	1594	2193	3017	3238	3816	89	91	80
			●		●						280	52.8	28.6	972	1077	1258	1786	2456	3379	3627	4274	93	96	84
			●		●						320	68.3	34.9	1111	1231	1437	2041	2807	3861	4145	4884	97	100	87
			●		●						330	72.2	34.9	1146	1270	1482	2105	2895	3982	4275	5037	102	105	91
6			●		●						350	61.1	41.3	1215	1347	1572	2232	3070	4223	4534	5342	87	90	78
			●		●						400	69.1	41.3	1389	1539	1797	2551	3509	4827	5181	6105	92	95	83
			●		●						450	77	44.5	1562	1731	2021	2870	3948	5430	5829	6868	97	100	87
			●		●						480	81.8	44.5	1667	1847	2156	3061	4211	5792	6218	7326	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. (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																
8			●		●						500	69.9	47.6	1736	1924	2246	3189	4386	6033	6477	7632	78	80	70		
			●		●						600	80.2	47.6	2083	2308	2695	3827	5264	7240	7772	9158	86	88	77		
			●		●						700	91.3	47.6	2430	2693	3144	4464	6141	8447	9068	10684	92	95	83		
			●		●						800	102	57.2	2778	3078	3593	5102	7018	9654	10363	12211	102	105	91		
			●		●						900	124	57.2	3125	3463	4042	5740	7895	10860	11658	13737	106	110	96		
10					●						800	85.1	63.5	2778	3078	3593	5102	7018	9654	10363	12211	78	80	70		
					●						1000	101	63.5	3472	3847	4492	6378	8773	12067	12954	15263	86	89	77		
					●						1200	122	66.7	4167	4617	5390	7653	10527	14480	15544	18316	97	100	87		
					●						1300	135	66.7	4514	5002	5839	8291	11404	15687	16840	19842	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. (mm)	Flow Rate Capacity (liters per minute)									
	D-HH					0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	10 bar
	Spray Angle														
	70°	90°	120°												
1/2	●	●		24	4.0	6.4	7.6	9.1	12.5	15.1	17.4	20.8	23.8	26.1	31.4
		●		26	4.0	7.2	8.3	9.8	13.6	16.3	18.9	22.3	25.7	28.4	34.1
	●	●		27.5	4.1	7.6	8.7	10.4	14.4	17.4	20.1	23.8	27.3	29.9	36.3
	●	●	●	31	2.9	8.7	9.8	11.7	16.3	19.3	22.3	26.9	30.7	33.7	40.9
		●	●	40	3.5	11	12.9	15.1	20.8	25	29.1	34.4	39.4	43.5	52.6
		●	●	50	4.1	13.6	15.9	18.9	26.1	31.4	36.3	43.2	49.2	54.5	65.9
		●	●	58	5.0	15.9	18.5	22	30.3	36.3	42	50	57.2	63.2	76.5
3/4		●		3.4	5.0	11	12.9	15.1	20.8	25.4	29.1	34.4	39.4	43.5	52.6
		●		4.1	5.0	13.2	15.5	18.2	25	30.7	34.8	41.6	47.7	52.2	63.2
		●		4.8	5.0	15.5	18.2	21.2	29.1	35.6	40.5	48.8	55.6	61.3	73.8
		●	●	6	5.6	19.7	22.7	26.9	37.1	44.3	51.5	60.9	69.7	77.6	93.5
		●	●	7	5.6	22.7	26.5	31.4	43.2	51.9	60.2	71.2	81.4	90.5	109.4
		●	●	8.5	5.7	27.6	32.2	37.9	52.2	62.8	72.7	86.3	98.4	109.0	131.7
			●	10	5.7	32.6	37.9	44.7	61.3	73.8	84.4	101.8	116.2	128.7	155.2

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.

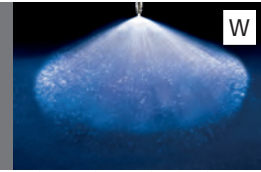


PAWIN Engineering Co., Ltd.  
168 อาคาร Axiom 1 บ. 7 ถ. สี่แยก อ. บางพลีใหญ่  
อ. บางพลี จ. สมุทรปราการ 10540



Spraying Systems Co.®

W PERFORMANCE DATA:  
WIDE 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				Angle					0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	3 bar	6 bar	0.4 bar	0.7 bar	6 bar
	G-W	GG-W	HH-W	H-W	GA-W	GGA-W													
1/8	•	•					1.5W	1.2	.64	-	-	.57	.67	.80	1.1	1.5	-	120	86
	•	•	•				2.8W	1.6	1.0	-	-	1.1	1.2	1.5	2.0	2.7	-	120	102
	•	•	•		•	•	4.3W	2.0	1.0	-	-	1.6	1.9	2.3	3.1	4.2	-	120	102
	•	•					5.6W	2.4	1.0	-	1.8	2.1	2.5	3.0	4.0	5.5	-	120	102
	•	•	•		•	•	8W	2.4	1.3	-	2.6	3.0	3.6	4.3	6.0	8.2	-	120	103
1/4	•	•					10W	2.8	1.3	3.0	3.3	3.8	4.5	5.4	7.5	10.3	112	120	103
	•	•					12W	3.2	1.3	3.5	3.9	4.6	5.4	6.5	8.9	12.3	114	120	103
	•	•	•		•	•	14W	3.6	1.6	4.2	4.6	5.3	6.2	7.5	10.2	13.8	114	120	103
3/8	•	•	•				17W	4.0	1.6	5.1	5.6	6.5	7.6	9.1	12.3	16.7	114	120	103
	•	•	•		•	•	20W	4.4	2.4	6.0	6.6	7.6	8.9	10.7	14.5	19.6	114	120	104
	•	•	•				24W	4.8	2.4	7.2	7.9	9.1	10.7	12.8	17.3	24	114	120	104
	•	•	•				27W	5.2	2.8	8.0	8.9	10.3	12.0	14.4	19.5	26	114	120	106
1/2	•	•	•				30W	5.6	2.8	8.9	9.9	11.4	13.4	16.0	22	29	114	120	108
	•	•	•		•	•	35W	6.0	3.2	10.4	11.5	13.3	15.6	18.7	25	34	114	120	108
	•	•	•				40W	6.4	3.2	11.9	13.1	15.2	17.9	21	29	39	114	120	108
	•	•	•				45W	6.4	3.6	13.4	14.8	17.1	20	24	33	44	114	120	110
	•	•	•		•	•	50W	6.7	4.0	14.7	16.3	19.1	22	27	37	51	114	120	112
3/4			•	•			6W	9.9	4.4	21	23	27	31	37	51	69	115	120	112
1			•	•			11W	13.1	5.6	38	42	49	57	69	93	126	117	120	117
1-1/4			•	•			16W	15.5	6.4	56	62	71	83	100	135	184	118	121	119
1-1/2			•	•			24W	18.3	10.3	84	92	107	125	150	203	275	119	124	119
2				•			47W	25.0	11.1	164	181	210	245	293	398	539	120	124	119
2-1/2				•			70W	31.8	14.3	244	269	312	365	436	592	803	120	125	119
3				•			95W	34.9	17.5	331	365	424	496	592	803	1090	120	125	119
4				•			188W	50.8	20.6	655	723	838	981	1172	1590	2157	120	125	119

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.



**N** PERFORMANCE DATA:  
NARROW ANGLE SPRAY



Inlet Conn. (in.)	Nozzle Type						Capacity Size	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	G-15	G-30	GG-15	GG-30	H-15	HH-30			0.7 bar	1 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	15 bar	20 bar	0.7 bar	1 bar	3 bar	7 bar	
1/8	•		•				1507	1.6	1.3	1.6	2.0	2.8	3.9	4.2	5.0	6.2	7.1	13	14	15	15	
	•		•				1514	2.4	2.7	3.2	3.9	5.5	7.8	8.4	10.1	12.4	14.3	13	14	15	15	
1/4	•		•				1530	3.2	5.7	6.8	8.4	11.8	16.8	18.1	22	26	31	13	14	15	15	
3/8	•		•				1550	4.4	9.5	11.4	14.0	19.7	28	30	36	44	51	13	14	15	15	
1/2	•		•				1590	5.6	17.2	21	25	36	50	54	65	79	92	13	14	15	15	
3/4					•		15150	7.5	29	34	42	59	84	90	108	132	153	13	14	15	15	
1					•		15280	9.9	53	64	78	111	156	169	202	247	285	13	14	15	15	
1-1/4					•		15430	12.3	82	98	120	170	240	259	310	380	438	14	14	15	15	
1-1/2					•		15630	15.1	120	144	176	249	352	381	455	557	643	14	14	15	15	
2					•		151150	20.2	219	262	321	454	642	694	829	1015	1172	14	14	15	15	
2-1/2					•		151750	24.6	334	399	489	691	977	1055	1261	1545	1784	14	14	15	15	
3					•		152500	29.4	477	570	698	987	1396	1508	1802	2207	2548	14	14	15	15	
4					•		154500	39.7	858	1026	1256	1777	2513	2714	3244	3973	4587	14	14	15	15	
5					•		157000	48.8	1335	1596	1954	2764	3908	4222	5046	6180	7136	14	14	15	15	
1/8		•		•			3001.4	.79	.27	.32	.39	.55	.78	.84	1.0	1.2	1.4	11	17	30	31	
		•		•			3002.5	.79	.48	.57	.70	.99	1.4	1.5	1.8	2.2	2.5	12	17	30	32	
		•		•			3004	1.2	.76	.91	1.1	1.6	2.2	2.4	2.9	3.5	4.1	20	26	30	32	
		•		•			3007	1.6	1.3	1.6	2.0	2.8	3.9	4.2	5.0	6.2	7.1	20	23	30	30	
1/4		•		•		3009	2.0	1.7	2.1	2.5	3.6	5.0	5.4	6.5	7.9	9.2	20	23	30	30		
3/8		•		•		3014	2.4	2.7	3.2	3.9	5.5	7.8	8.4	10.1	12.4	14.3	20	25	30	30		
1/2		•		•		3030	3.2	5.7	6.8	8.4	11.8	16.8	18.1	22	26	31	21	26	30	31		
3/4		•		•		3050	4.4	9.5	11.4	14.0	19.7	28	30	36	44	51	22	26	30	31		
1						•	3070	5.2	13.3	16.0	19.5	28	39	42	50	62	71	22	27	30	30	
						•	30100	6.4	19.1	23	28	39	56	60	72	88	102	22	27	30	30	
1-1/4						•	30150	7.5	29	34	42	59	84	90	108	132	153	22	27	30	30	
						•	30200	8.7	38	46	56	79	112	121	144	177	204	22	27	30	30	
1-1/2						•	30250	9.5	48	57	70	99	140	151	180	221	255	22	27	30	30	
						•	30300	10.3	57	68	84	118	168	181	216	265	306	22	27	30	30	
2						•	30350	11.1	67	80	98	138	195	211	252	309	357	22	28	30	30	
						•	30400	11.9	76	91	112	158	223	241	288	353	408	22	28	30	30	
						•	30500	13.5	95	114	140	197	279	302	360	441	510	22	28	30	30	
2-1/2						•	30600	14.7	114	137	168	237	335	362	432	530	612	22	28	30	30	
						•	30700	15.9	133	160	195	276	391	422	505	618	714	22	28	30	30	
						•	301000	19.1	191	228	279	395	558	603	721	883	1019	22	28	30	30	
						•	301100	19.8	210	251	307	434	614	663	793	971	1121	22	28	30	30	
					•	301200	20.6	229	274	335	474	670	724	865	1059	1223	22	28	30	30		

Highlighted column shows the rated pressure.

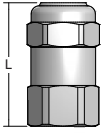
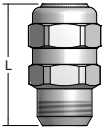
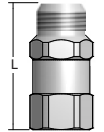
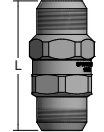


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อ. บางพลี จ. สมุทรปราการ 10540

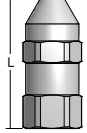
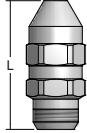
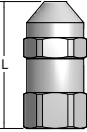
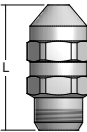




DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	<b>G (F)</b> <b>G-W (F)</b>	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
	<b>GG (M)</b> <b>GG-W (M)</b>	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
	<b>GD (F)</b>	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
	<b>GGD (M)</b>	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)
	<b>G-15 (F)</b>	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
	<b>GG-15 (M)</b>	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
	<b>G-30 (F)</b>	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
	<b>GG-30 (M)</b>	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

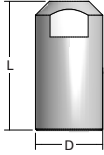
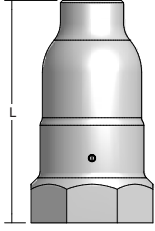
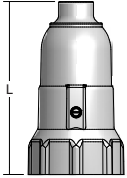
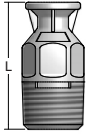
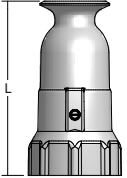
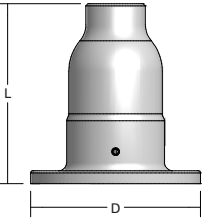
Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	A (mm)	B (mm)	C (mm)	Net Weight (kg)
	<b>GA (F)</b> <b>GA-W (F)</b>	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	34.5	47.2	0.18
	<b>GGA (M)</b> <b>GGA-W (M)</b>	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

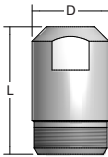
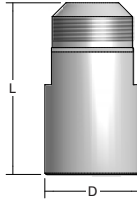
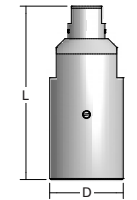
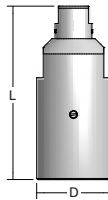
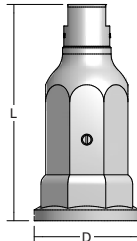
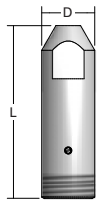
Based on the largest/heaviest version of each type.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	D (Dia.) (mm)	Net Weight (kg)
	<b>H (F) H-W (F)</b>	3/4	55.6	31.8	0.21
		1	69.4	38.1	0.35
	<b>H (F) H-W (F) Cast</b>	1-1/4	87.4	52.4 oct.	0.73
		1-1/2	103.2	58.7 oct.	0.72
		2	138.2	76.2 oct.	1.11
		2-1/2	160.3	87.3 oct.	2.15
		3	187.3	103.2 oct.	2.70
		4	242.9	138.1 oct.	5.44
	<b>H (F) Cast</b>	5	293.7	171.5 oct.	13.97
		6	365.1	203.2 oct.	22.23
	<b>H (F) Polypropylene</b>	1-1/2	104.1	59.5	0.06
		2	131.8	76.2	0.11
	<b>D-HH (M) Polypropylene</b>	1/2	43.2	19.1	0.01
		3/4	53.1	25.4	0.03
	<b>H-W (F) Polypropylene</b>	1-1/2	107.7	59.5	0.05
		2	138.8	71.4	0.11
	<b>HF (Flange)</b>	4	206.4	222.3	13.06
		5	268.2	254.0	15.56
		6	320.7	279.4	22.23
		8	422.3	342.9	54.43
		10	527.1	406.4	87.54

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	D (Dia.) (mm)	Net Weight (kg)
	<b>HH (M) HH-W (M)</b>	1/8	22.2	12.7	0.01
		1/4	22.4	13.5	0.01
		3/8	23.9	16.7	0.03
		1/2	29.4	20.6	0.04
		3/4	38.9	27.0	0.10
		1	51.6	33.3	0.20
	<b>HH-W (M) (Wide angle only) Standard angle not available for these sizes</b>	1-1/4	69.9	42.9	0.61
		1-1/2	82.6	50.8	0.81
	<b>HD (F)</b>	3/4	54.0	31.8	0.17
		1	68.3	38.1	0.29
		1-1/4	85.7	47.6	0.73
		1-1/2	103.2	57.2	1.34
		2	128.6	69.9	1.88
		2-1/2	158.8	82.6	3.56
		3	185.7	101.6	5.74
			<b>H-15 (F)</b>	3/4	72.2
1	92.1			38.1	0.54
1-1/4	117.5			47.6	1.04
1-1/2	127.0			58.7	1.11
2	183.4			76.2	1.24
2-1/2	219.9			79.0	2.83
	<b>H-15 (F) Cast</b>	4	338.1	138.1	6.70
		5	428.6	171.5	17.70
	<b>HH-30 (M)</b>	1	92.1	33.3	0.45
		1-1/4	154.7	44.5	1.16
		1-1/2	157.2	47.6	1.33
		2	199.6	60.3	5.32
		2-1/2	263.5	73.0	5.44
		3	263.5	88.9	14.45

Based on the largest/heaviest version of each type.

