

PERFORMANCE DATA



PERFORMANCE DATA
INTRODUCTION

**PERFORMANCE YOU CAN
COUNT ON FOR ALL THE SPRAY
APPLICATIONS IN YOUR PAPER MILL**



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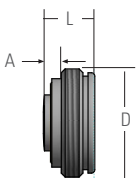
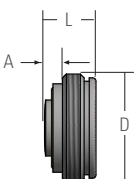
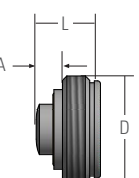
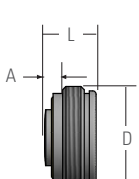
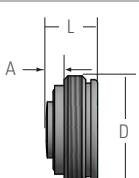


PERFORMANCE DATA
SOLID STREAM SPRAY: 73196, 73327, 37337, 38553, 39468

Spray Angle at 60 psi	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)				
			20 psi	40 psi	100 psi	250 psi	800 psi
0° (solid stream)	00003	.015	.02	.03	.05	.08	.13
	00005	.020	.04	.05	.08	.13	.22
	00008	.025	.06	.08	.13	.20	.36
	00011	.030	.08	.11	.17	.28	.49
	00015	.035	.11	.15	.24	.38	.67
	00020	.040	.14	.20	.32	.50	.89
	00025	.045	.18	.25	.40	.63	1.12

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Thread Size	L (in.)	A (in.)	D (Dia.) (in.)
	73196-A	1-3/16"-18 or M30 x 1.5	0.66	0.27	1.19
	73196-B		0.63	0.24	
	73196-C		0.73	0.34	
	73196-D		0.60	0.21	
	73327-A	1-1/4"-18 or M32 x 1.5	0.66	0.27	1.25
	73327-B		0.63	0.24	
	73327-C		0.73	0.34	
	73327-D		0.60	0.21	
	39468-A	1-3/16"-18 or M30 x 1.5	0.76	0.27	1.38
	39468-B		0.73	0.24	
	39468-C		0.83	0.34	
	39468-D		0.70	0.21	
	37337-A	1-3/16"-18 or M30 x 1.5	0.66	0.27	1.19
	37337-B		0.63	0.24	
	37337-C		0.73	0.34	
	37337-D		0.60	0.21	
	38553-A	1-1/4"-18 or M32 x 1.5	0.66	0.27	1.25
	38553-B		0.63	0.24	
	38553-C		0.73	0.34	
	38553-D		0.60	0.21	

**PERFORMANCE DATA
FLAT SPRAY: 27149**

Spray Angle at 60 psi	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)				
				20 psi	40 psi	100 psi	250 psi	800 psi
75°	27149	7502	.039	.16	.23	.36	.58	1.0
	•	7503	.047	.23	.33	.52	.83	1.5
	•	7504	.059	.3	.43	.68	1.1	1.9
	•	7506	.071	.43	.61	.97	1.5	2.7
	•	7508	.079	.56	.79	1.3	2.0	3.5
	•	7510	.089	.72	1.0	1.6	2.6	4.6
	•	7512	.099	.88	1.2	2.0	3.1	5.6
	•	7516	.11	1.1	1.6	2.5	4.0	7.2
	•	7520	.118	1.4	2.0	3.1	5.0	8.9
	•	7525	.138	1.8	2.6	4.1	6.4	11.5
	•	7531	.157	2.2	3.1	5.0	7.9	14.0
	•	7540	.177	2.9	4.0	6.4	10.1	18.0
	•	7549	.197	3.5	4.9	7.7	12.2	22
	•	7578	.236	5.6	7.9	12.5	19.8	35
	•	7599	.276	7.0	9.9	15.7	25	44
•	75124	.315	8.8	12.4	19.6	31	55	
60°	•	6002	.039	.16	.23	.36	.58	1.0
	•	6003	.047	.23	.33	.52	.83	1.5
	•	6004	.059	.3	.43	.68	1.1	1.9
	•	6006	.071	.43	.61	.97	1.5	2.7
	•	6008	.079	.56	.79	1.3	2.0	3.5
	•	6010	.089	.72	1.0	1.6	2.6	4.6
	•	6012	.099	.88	1.2	2.0	3.1	5.6
	•	6016	.11	1.1	1.6	2.5	4.0	7.2
	•	6020	.118	1.4	2.0	3.1	5.0	8.9
	•	6025	.138	1.8	2.6	4.1	6.4	11.5
	•	6031	.157	2.2	3.1	5.0	7.9	14.0
	•	6040	.177	2.9	4.0	6.4	10.1	18.0
	•	6049	.197	3.5	4.9	7.8	12.3	22
	•	6064	.217	4.5	6.4	10.1	16.0	28.6
	•	6078	.236	5.6	7.9	12.4	19.6	35
•	6099	.276	7.0	9.9	15.6	25	44	
•	60124	.315	8.8	12.4	19.6	31	56	
45°	•	4502	.039	.16	.23	.36	.58	1.0
	•	4503	.047	.23	.33	.52	.83	1.5
	•	4504	.059	.30	.43	.68	1.1	1.9
	•	4506	.071	.43	.61	.97	1.5	2.7
	•	4508	.079	.56	.79	1.3	2.0	3.5
	•	4510	.089	.72	1.0	1.6	2.6	4.6

Highlighted column shows the rated pressure.



PERFORMANCE DATA
FLAT SPRAY: 27149

Spray Angle at 60 psi	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)				
				20 psi	40 psi	100 psi	250 psi	800 psi
45°	27149							
	•	4512	.099	.88	1.2	2.0	3.1	5.6
	•	4516	.11	1.1	1.6	2.5	4.0	7.2
	•	4520	.118	1.4	2.0	3.1	5.0	8.9
	•	4525	.138	1.8	2.6	4.1	6.4	11.5
	•	4531	.157	2.2	3.1	5.0	7.9	14.0
	•	4540	.177	2.9	4.0	6.4	10.1	18.0
	•	4549	.197	3.5	4.9	7.7	12.2	22
	•	4578	.236	5.6	7.9	12.5	19.8	35
	•	4599	.276	7.0	9.9	15.7	25	44
30°	•	45124	.315	8.8	12.4	19.6	31	55
	•	3002	.039	.16	.23	.36	.58	1.0
	•	3003	.047	.23	.33	.52	.83	1.5
	•	3004	.059	.30	.43	.68	1.1	1.9
	•	3006	.071	.43	.61	.97	1.5	2.7
	•	3008	.079	.56	.79	1.3	2.0	3.5
	•	3010	.089	.72	1.0	1.6	2.6	4.6
	•	3012	.099	.88	1.2	2.0	3.1	5.6
	•	3016	.11	1.1	1.6	2.5	4.0	7.2
	•	3020	.118	1.4	2.0	3.1	5.0	8.9
	•	3025	.138	1.8	2.6	4.1	6.4	11.5
	•	3031	.157	2.2	3.1	5.0	7.9	14.0
	•	3040	.177	2.9	4.0	6.4	10.1	18.0
	•	3049	.197	3.5	4.9	7.7	12.2	22
15°	•	3078	.236	5.6	7.9	12.5	19.8	35
	•	3099	.276	7.0	9.9	15.7	25	44
	•	30124	.315	8.8	12.4	19.6	31	55
	•	1502	.039	.16	.23	.36	.58	1.0
	•	1503	.047	.23	.33	.52	.83	1.5
	•	1504	.059	.30	.43	.68	1.1	1.9
	•	1506	.071	.43	.61	.97	1.5	2.7
	•	1508	.079	.56	.79	1.3	2.0	3.5
	•	1510	.089	.72	1.0	1.6	2.6	4.6
	•	1512	.099	.88	1.2	2.0	3.1	5.6
	•	1516	.11	1.1	1.6	2.5	4.0	7.2
	•	1520	.118	1.4	2.0	3.1	5.0	8.9
•	1525	.138	1.8	2.6	4.1	6.4	11.5	
•	1531	.157	2.2	3.1	5.0	7.9	14	

Highlighted column shows the rated pressure.



**PERFORMANCE DATA
FLAT SPRAY: 27149**

Spray Angle at 60 psi	Nozzle Type 27149	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)				
				20 psi	40 psi	100 psi	250 psi	800 psi
15°	•	1540	.177	2.9	4.0	6.4	10.1	18.0
	•	1549	.197	3.5	4.9	7.7	12.2	22
	•	1578	.236	5.6	7.9	12.5	19.8	35
	•	1599	.276	7.0	9.9	15.7	25	44
	•	15124	.315	8.8	12.4	19.6	31	55
0° (solid stream)	•	00004	.018	.03	.04	.06	.10	.18
	•	00007	.023	.05	.07	.11	.18	.31
	•	00009	.026	.06	.09	.14	.23	.40
	•	0001	.031	.09	.13	.21	.33	.58
	•	00015	.035	.11	.15	.24	.38	.67
	•	0002	.043	.16	.23	.36	.58	1.0
	•	0003	.053	.23	.33	.52	.83	1.5
	•	0004	.06	.30	.43	.68	1.1	1.9
	•	0006	.07	.43	.61	.97	1.5	2.7
	•	0008	.077	.56	.79	1.3	2.0	3.5
	•	0010	.085	.72	1.0	1.6	2.6	4.6
	•	0012	.096	.88	1.2	2.0	3.1	5.6
	•	0020	.125	1.4	2.0	3.1	5.0	8.9

Highlighted column shows the rated pressure.

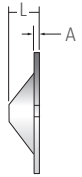
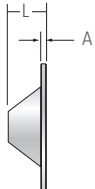
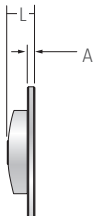
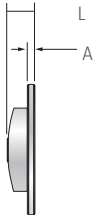
**PERFORMANCE DATA
SOLID STREAM SPRAY: 39350, 48546, 50790, 39485**

Spray Angle at 60 psi	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)				
			20 psi	40 psi	100 psi	250 psi	800 psi
0° (solid stream)	00003	.015	.02	.03	.05	.08	.13
	00005	.020	.04	.05	.08	.13	.22
	00008	.025	.06	.08	.13	.20	.36
	00011	.030	.08	.11	.17	.28	.49
	00015	.035	.11	.15	.24	.38	.67
	00020	.040	.14	.20	.32	.50	.89
	00025	.045	.18	.25	.40	.63	1.12

Highlighted column shows the rated pressure.



DIMENSIONS

Nozzle	Nozzle Type	L (in.)	D (Dia.) (in.)	Thickness A (in.)
	27149	0.281 (max)	1.02	0.042
	39350 and 48546	0.32	1.02	0.042
	50790	0.22	1.04	0.059
	50790-1	0.22	1.02	0.059
	39485	0.22	1.02	0.059

All ShowerJet nozzles are installed with a standard gasket which is included, CP28624-001.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

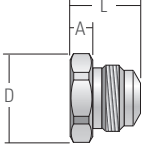
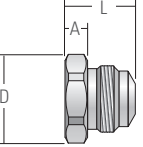
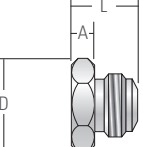
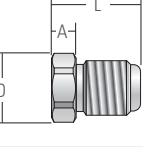
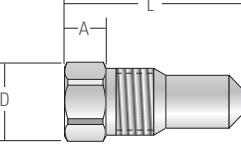
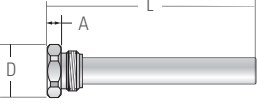
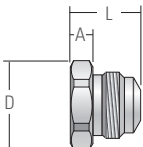
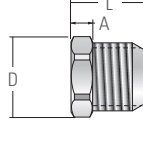
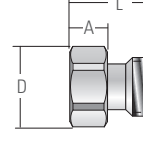
PERFORMANCE DATA
SOLID STREAM: 48460, 19124, P36503, 56740, 48277, 21280, 39458, 22812, 20094

Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)								
		40 psi	60 psi	80 psi	100 psi	200 psi	400 psi	600 psi	800 psi	1000 psi
14	.014	.032	.036	.04	.043	.065	.094	.11	.13	.14
28	.028	.11	.13	.15	.17	.24	.33	.43	.48	.50
33	.033	.16	.20	.22	.25	.36	.52	.63	.75	.82
40	.040	.23	.28	.32	.36	.50	.68	.88	1.0	1.2
55	.055	.40	.48	.58	.67	.91	1.3	1.5	1.75	2.0
70	.070	.67	.84	.98	1.1	1.6	2.3	2.8	3.1	3.5
94	.094	1.2	1.45	1.6	1.8	2.5	4.0	4.6	5.5	6.5
125	.125	1.95	2.45	2.7	2.8	4.4	6.0	7.5	10.0	11.0

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	L (in.)	A (in.)	Hex. (in.)	D (Dia.) (in.)
	48460	9/16"-24 NEF	0.555	0.193	11/16	0.75
	19124	9/16"-24 NEF	0.555	0.193	11/16	0.75
	P36503	1/4" BSPP	0.555	0.193	11/16	0.75
	56740	1/8" BSPP	0.64	0.170	7/16	0.484
	48277	1/8"	1.125	0.250	7/16	0.484
	21280	9/16"-24 NEF	Varies	0.193	11/16	0.75
	39458	9/16"-24 NEF	0.555	0.193	11/16	0.75
	22812	1/8"	0.440	0.130	7/16	0.484
	20094	1/4"-28 UNF	0.440	0.160	5/16	0.343

**PERFORMANCE DATA
FLAT & SOLID STREAM SPRAY: DK, DJ, 48284, 25834**

Spray Angle at 40 psi	Nozzle Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							
	DK	DJ	48284	25834			10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi
110°		•			11006	–	.30	.42	.52	.60	.74	.85	.95	1.2
95°		•			9504	–	.20	.28	.35	.40	.49	.57	.63	.77
90°	•	•			9001	–	.05	.07	.086	.10	.12	.14	.16	.19
	•	•			90016	.031	.08	.11	.14	.16	.20	.23	.25	.31
	•	•			90026	–	.13	.18	.23	.26	.32	.37	.41	.49
	•	•			90054	.062	.27	.38	.47	.54	.66	.76	.85	1.0
	•	•			9013	.093	.65	.93	1.1	1.3	1.6	1.8	2.1	2.5
	•	•			9024	.125	1.2	1.7	2	2.4	2.9	3.3	3.7	4.6
80°	•	•			80032	.046	.16	.23	.28	.32	.39	.45	.51	.62
	•	•			80054	.062	.27	.38	.47	.54	.66	.76	.85	1.0
	•	•			8008	.076	.40	.56	.69	.80	.98	1.1	1.2	1.5
	•	•			80084	.076	.42	.59	.73	.84	1.0	1.2	1.3	1.6
	•	•			8013	.093	.66	.93	1.1	1.3	1.6	1.8	2.0	2.5
	•	•			8024	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6
	•	•			8033	.156	1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4
	•	•			8035	–	1.8	2.5	3.1	3.5	4.3	5.0	5.5	6.8
70°	•	•			8054	.187	2.7	3.8	4.7	5.4	6.6	7.6	8.5	10.0
	•	•			70023	.040	.12	.16	.20	.23	.28	.33	.36	.45
68°	•	•			6824	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6
	•	•			6840	–	2.0	2.8	3.5	4.0	4.9	5.7	6.3	7.7
	•	•			6870	.218	3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6
65°	•	•			650050	–	.025	.035	.043	.05	.061	.071	.079	.097
	•	•			65054	.062	.27	.38	.47	.54	.66	.76	.85	1.0
	•	•			6513	.093	.66	.93	1.1	1.3	1.6	1.8	2.0	2.5
	•	•			6519	.111	.95	1.3	1.6	1.9	2.3	2.7	3.0	3.7
	•	•			6533	.156	1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4
	•	•			6550	.187	2.5	3.5	4.3	5.0	6.1	7.1	7.9	9.7
	•	•			6570	.218	3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6
	•	•			6585	–	4.3	6.0	7.5	8.5	10.4	12.0	13.5	16.5
60°	•	•			60054	.062	.27	.38	.47	.54	.66	.76	.85	1.0
58°	•	•			5824	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6
	•	•			5833	.156	1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4
55°	•	•			55054	.062	.27	.38	.47	.54	.66	.76	.84	1.0
	•	•			5508	.076	.40	.57	.69	.80	.98	1.1	1.2	1.5
50°	•	•			50033	.046	.17	.23	.29	.33	.40	.47	.52	.64
	•	•			50084	–	.42	.59	.73	.84	1.0	1.2	1.3	1.6
	•	•			5013	–	.66	.93	1.1	1.3	1.6	1.8	2.0	2.5
	•	•			5024	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6

Highlighted column shows the rated pressure.







PERFORMANCE DATA
SOLID STREAM SPRAY: DK, DJ, 48284, 25834

Spray Angle at 40 psi	Nozzle Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							
	DK	DJ	48284	25834			10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi
50°	•	•			5033	.156	1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4
	•	•			5037	—	1.9	2.6	3.2	3.7	4.5	5.2	5.9	7.2
	•	•			5040	—	2.0	2.8	3.5	4.0	4.9	5.7	6.3	7.7
	•	•			5050	—	2.5	3.5	4.3	5.0	6.1	7.1	7.9	9.7
43°	•	•			4308	.076	.40	.57	.69	.80	.98	1.1	1.2	1.5
	•	•			4313	.093	.66	.93	1.1	1.3	1.6	1.8	2.0	2.5
40°	•	•			4024	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6
	•	•			4047	.187	2.4	3.3	4.1	4.7	5.8	6.6	7.4	9.1
	•	•			4070	.218	3.5	4.9	6.1	7.0	8.6	9.9	11.1	13.6
	•	•			4085	.250	4.3	6.0	7.4	8.5	10.4	12.2	13.4	16.5
	•	•			4086	—	4.3	6.1	7.5	8.6	10.5	12.2	13.6	16.7
35°	•	•			3513	.093	.66	.93	1.1	1.3	1.6	1.8	2.0	2.5
	•	•			3580	.250	4.0	5.6	6.9	8.0	9.8	11.3	12.6	15.5
25°	•	•			2510	—	.50	.71	.86	1.0	1.2	1.4	1.6	1.9
	•	•			2524	.125	1.2	1.7	2.0	2.4	2.9	3.3	3.7	4.6
0° (solid stream)	•	•	•	•	00012	.025	.06	.08	.10	.12	.15	.17	.19	.23
	•	•	•	•	00015	.031	.07	.11	.13	.15	.18	.21	.24	.29
	•	•	•	•	00016	.034	.08	.11	.14	.16	.20	.23	.25	.31
	•	•	•	•	00023	.040	.12	.16	.20	.23	.28	.33	.36	.45
	•	•	•	•	00051	.060	.26	.36	.44	.51	.62	.72	.81	.99
	•	•	•	•	0006	.065	.30	.42	.52	.60	.73	.85	.95	1.2
	•	•	•	•	0008	.070	.40	.57	.69	.80	.98	1.1	1.3	1.6
	•	•	•	•	0024	.125	1.2	1.7	2.1	2.4	2.9	3.4	3.8	4.7
	•	•	•	•	0033	.156	1.7	2.3	2.9	3.3	4.0	4.7	5.2	6.4
	•	•			All others									

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	D (Dia.) (in.)	Thickness (in.)
	DK	—	0.58	0.125
	DJ	5/8"-18	0.625	0.125
	48284	—	0.584	0.125
	25834	—	0.63	0.095

PERFORMANCE DATA
FLAT & SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090, 38332, 38490, 49905, 72370

Spray Angle at 40 psi	Capacity Size	Flow Rate Capacity (gallons per minute)													
		20 psi	30 psi	40 psi	50 psi	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi	180 psi	200 psi	250 psi
130°	13016	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
120°	12008	.57	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
100°	10011	.78	.95	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8
	10020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
80°	8003	.21	.26	.30	.35	.37	.40	.42	.45	.47	.52	.56	.64	.67	.75
	8005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	8011	.78	.95	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8
	8019	1.3	1.6	1.9	2.1	2.3	2.5	2.7	2.9	3.0	3.3	3.6	4.0	4.2	4.8
	8030	2.1	2.6	3.0	3.4	3.7	4.0	4.2	4.5	4.7	5.2	5.6	6.4	6.7	7.5
	8036	2.5	3.1	3.6	4.0	4.4	4.8	5.1	5.4	5.7	6.2	6.7	7.6	8.0	9.0
	8046	3.3	4.0	4.6	5.1	5.6	6.1	6.5	6.9	7.3	8.0	8.6	9.8	10.3	11.5
60°	6005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	6012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
	6014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	6016	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
	6020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
	6025	1.8	2.2	2.5	2.8	3.1	3.3	3.5	3.8	4.0	4.3	4.7	5.3	5.6	6.3
	6031	2.2	2.7	3.1	3.5	3.8	4.1	4.4	4.7	4.9	5.4	5.8	6.6	6.9	7.8
	6038	2.7	3.3	3.8	4.2	4.7	5.0	5.4	5.7	6.0	6.6	7.1	8.1	8.5	9.5
6050	3.5	4.3	5.0	5.6	6.2	6.6	7.0	7.5	8.0	8.7	9.4	10.6	11.2	12.6	
50°	5032	2.3	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.1	5.5	6.0	6.8	7.2	8.0
45°	4516	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
	4525	1.8	2.2	2.5	2.8	3.1	3.3	3.5	3.8	4.0	4.3	4.7	5.3	5.6	6.3
	4542	3.0	3.6	4.2	4.7	5.1	5.6	5.9	6.3	6.6	7.3	7.9	8.9	9.4	10.5
40°	4008	.56	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
	4012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
	4013	.92	1.1	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.8	2.9	3.3
	4014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	4020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
	4032	2.3	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.1	5.5	6.0	6.8	7.2	8.0
	4045	3.2	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.8	8.4	9.5	10.1	11.3
30°	3005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	3013	.92	1.1	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.8	2.9	3.3
	3014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	3040	2.8	3.5	4.0	4.5	4.9	5.3	5.7	6.0	6.3	6.9	7.5	8.5	8.9	10.0
20°	2012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
15°	1506	.42	.52	.60	.67	.73	.79	.85	.90	.95	1.0	1.1	1.2	1.3	1.5

Highlighted column shows the rated pressure.



PERFORMANCE DATA

FLAT & SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090, 38332, 38490, 49905, 72370

Spray Angle at 40 psi	Capacity Size	Flow Rate Capacity (gallons per minute)													
		20 psi	30 psi	40 psi	50 psi	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi	180 psi	200 psi	250 psi
0° (solid stream)	000012	.008	.010	.012	.013	.015	.016	.017	.018	.019	.021	.022	.025	.027	.03
	000026	.018	.022	.026	.029	.032	.034	.037	.039	.041	.045	.048	.055	.058	.065
	000053	.037	.046	.053	.059	.065	.07	.075	.079	.083	.092	.099	.11	.12	.13
	00007	.049	.061	.070	.078	.085	.092	.099	.10	.11	.12	.13	.15	.17	.18
	0001	.072	.088	.10	.11	.12	.13	.14	.15	.16	.18	.19	.22	.23	.26
	00017	.12	.15	.17	.19	.20	.22	.24	.25	.27	.29	.31	.35	.37	.42
	0002	.14	.17	.20	.22	.25	.26	.28	.30	.32	.35	.37	.42	.45	.5
	00025	.18	.22	.25	.29	.31	.34	.36	.38	.40	.44	.48	.54	.57	.64
	00032	.23	.28	.32	.36	.39	.42	.45	.48	.51	.56	.60	.68	.72	.80
	00043	.31	.38	.44	.49	.53	.58	.62	.65	.69	.75	.81	.92	.97	1.1
	0005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	0006	.42	.52	.60	.67	.73	.79	.85	.90	.95	1.0	1.1	1.2	1.3	1.5
	0008	.56	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
	0010	.71	.86	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.2	2.5

Highlighted column shows the rated pressure.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.



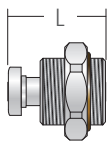
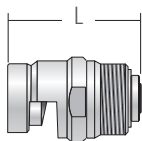
DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length in.	D (Dia.) in.	Hex. in.
	20210	1-1/8"-20 UN	1.63	1.66	1-1/2
	20235	3/4"-20 UNEF	1.40	1.25	1
	26225	3/4"-20 UNEF	1.40	1.09	1
	26411	3/4" BSPP	1.38	1.66	1-1/2
	36090	M28 x 1.5	1.63	1.66	1-1/2
	38332	3/4"	1.54	1.17	1-1/16
	38490	1-1/8"-20 UN	1.63	1.66	1-1/2

STANDARD UNITS



DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length in.	D (Dia.) in.	Hex. in.
	49905	1-1/8"-20 UN	1.63	1.66	1-1/2
	49905-1	M28 x 1.5	1.63	1.66	1-1/2
	72370	1/2"	1.39	0.875	.812 flats

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
SOLID STREAM SPRAY: 38170, 38171, 48461, 72242, 39610

Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)					
38170	38171	48461	72242	39610			100 psi	200 psi	400 psi	600 psi	800 psi	1000 psi
3/8	1/8	1/8	1/8	M10								
				•	10	.010	.02	.02	.03	.04	.05	.06
•	•	•	•	•	15	.015	.04	.06	.09	.11	.13	.14
•	•	•	•	•	20	.020	.08	.11	.16	.20	.23	.25
•	•	•	•	•	25	.025	.12	.18	.25	.31	.35	.40
				•	27.5	.0275	.15	.20	.29	.35	.40	.45
•	•	•	•	•	30	.030	.18	.25	.36	.44	.51	.57
				•	32	.032	.20	.28	.39	.47	.54	.61
•	•	•	•	•	35	.035	.24	.35	.49	.60	.69	.77
•	•	•	•	•	40	.040	.32	.45	.64	.78	.90	1.0
•	•	•	•	•	45	.045	.40	.57	.81	.99	1.2	1.3
•	•				50	.050	.50	.71	1.0	1.2	1.4	1.6
•	•				60	.060	.72	1.0	1.4	1.8	2.0	2.3

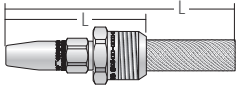
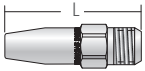
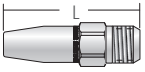
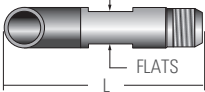
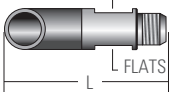
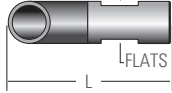
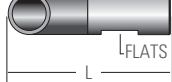
48461 and 72242 are only available with ruby orifice.

PERFORMANCE DATA
SOLID STREAM SPRAY: 58035-2, 56795-2

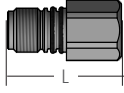
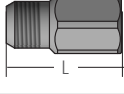
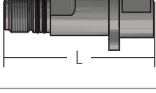

Conn. Size (in.)	Nozzle Type		Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)					
	58035-2	56795-2			100 psi	200 psi	400 psi	600 psi	800 psi	1000 psi
1/8	•	•	10	.010	.04	.05	.08	.09	.11	.12
	•	•	15	.015	.09	.13	.18	.22	.26	.29
	•	•	20	.020	.16	.23	.33	.40	.46	.51
	•	•	25	.025	.24	.34	.48	.59	.68	.76
	•	•	30	.030	.36	.51	.72	.88	1.02	1.14
	•	•	35	.035	.48	.68	.96	1.18	1.36	1.52



DIMENSIONS

Nozzle	Nozzle Type	Conn. Size /Type (in.)	L (in.)	D (Dia.) (in.)	Hex./Flats (in.)
	38170	3/8 male	1.53 with strainer 3.38	0.83	3/4
	38171	1/8 male	1.54	0.48	7/16
	48461	1/8 male	1.54	0.48	7/16
	72242	1/8 male	2.10	0.42	0.33
	39610	M10 x 0.75 male	2.45	0.55	0.40
	56795-2	1/8 male/female	2.10	0.53	0.43
	58035-2	1/8 male	2.00	0.53	0.53

ULTRASTREAM ACCESSORY DIMENSIONS

Nozzle	Nozzle Type	Conn. Size /Type (in.)	Outlet Thread Size /Type (in.)	L (in.)	D (Dia.) (in.)	Hex./Flats (in.)
	115425	M10	1/8 female	1.03	–	0.5
	115427	1/8 male	M10 female	1.00	–	0.5
	39290	M10 x 0.75 male	1/8" female	1.71	0.52	0.47, 0.40 Flats
	87529	1/8, 1/4 M10 x 0.75	1/8 M10 x 0.75	1.93	0.98	0.83 Flats 0.75 Hex

PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)									Spray Angle (°)			
	H-VV		H-VVL		H-DT				5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi
	1/8	1/4	1/8	1/4	1/8	1/4															
110°	•	•	•	•			01	.026	.035	.05	.07	.10	.14	.16	.22	.27	.35	94	110	121	124
	•	•	•	•			015	.032	.05	.08	.11	.15	.21	.24	.34	.41	.53	97	110	121	124
	•	•	•	•		•	02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	98	110	120	123
	•	•	•	•		•	03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	99	110	120	123
	•	•	•	•	•	•	04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	100	110	119	122
	•	•	•	•		•	05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	100	110	118	122
	•	•	•	•	•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	101	110	117	122
	•	•	•	•		•	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	102	110	117	121
	•	•	•	•	•	•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	103	110	117	119
	•	•	•	•		•	15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	104	110	117	118
95°	•		•		•		0050	.018	–	–	.035	.050	.07	.08	.11	.14	.18	81	95	105	113
	•	•	•	•			01	.026	.035	.05	.07	.10	.14	.16	.22	.27	.35	81	95	105	113
	•		•	•			015	.032	.05	.08	.11	.15	.21	.24	.34	.41	.53	82	95	105	113
	•	•	•	•	•	•	02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	82	95	105	113
	•	•	•	•		•	03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	83	95	104	111
	•	•	•	•	•	•	04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	84	95	103	108
	•	•	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	84	95	102	107
	•	•	•	•	•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	86	95	101	106
	•				•		065	.064	.23	.33	.46	.65	.92	1.0	1.5	1.8	2.3	86	95	101	106
•	•	•	•	•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	87	95	100	105	
80°	•	•	•	•			0050	.018	–	–	.035	.050	.07	.08	.11	.14	.18	61	80	95	101
	•	•	•	•			0067	.021	–	.033	.05	.067	.09	.11	.15	.18	.24	67	80	94	99
	•	•	•	•	•	•	01	.026	–	.05	.07	.10	.14	.16	.22	.27	.35	68	80	89	92
		•	•	•		•	015	.032	–	.08	.11	.15	.21	.24	.34	.41	.53	68	80	89	92
	•	•	•	•	•	•	02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	69	80	88	91
	•	•	•	•	•	•	03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	70	80	87	90
	•	•	•	•	•	•	04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	71	80	86	89
	•	•	•	•	•	•	05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	71	80	86	89
	•	•	•	•	•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	72	80	85	88
	•				•	•	07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	72	80	85	88
	•	•	•	•	•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	72	80	84	87
	•		•	•	•	09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	73	80	84	87	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)									Spray Angle (°)			
	H-VV		H-VVL		H-DT				5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi
	1/8	1/4	1/8	1/4	1/8	1/4															
73°	•	•	•	•	•		0077	.023	–	.039	.055	.077	.11	.12	.17	.21	.27	53	73	86	92
	•	•	•	•			0154	.032	.054	.077	.11	.15	.22	.24	.34	.42	.54	55	73	84	88
		•		•			0231	.038	.082	.12	.16	.23	.33	.37	.52	.63	.82	56	73	83	87
	•	•	•	•			0308	.044	.11	.15	.22	.31	.44	.49	.69	.84	1.1	58	73	82	86
		•		•			0462	.054	.16	.23	.33	.46	.65	.73	1.0	1.3	1.6	60	73	80	84
	•		•				0770	.069	.27	.39	.54	.77	1.1	1.2	1.7	2.1	2.7	64	73	77	82
65°	•		•				0017	.011	–	–	.012	.017	.024	.027	.038	.047	.06	44	65	77	86
	•		•				0033	.015	–	–	.023	.033	.047	.052	.07	.09	.12	47	65	76	83
	•	•	•	•	•		0067	.021	–	.033	.05	.067	.09	.11	.15	.18	.24	50	65	75	81
	•	•	•	•	•	•	01	.026	–	.05	.07	.10	.14	.16	.22	.27	.35	51	65	74	80
	•	•	•	•			015	.032	–	.08	.11	.15	.21	.24	.34	.41	.53	51	65	74	80
	•	•	•	•	•	•	02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	52	65	73	79
	•		•				025	.039	.09	.13	.18	.25	.35	.40	.56	.68	.88	52	65	73	79
	•	•	•	•	•	•	03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	53	65	72	78
	•	•	•	•	•	•	04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	53	65	72	76
	•	•	•	•	•	•	05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	53	65	72	76
		•			•	•	055	.059	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9	53	65	72	76
	•	•		•	•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	54	65	72	75
		•			•	•	07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	54	65	71	75
	•	•	•	•	•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	55	65	71	74
•				•	•	09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	55	65	71	74	
50°	•	•	•	•			01	.026	–	.05	.07	.10	.14	.16	.22	.27	.35	37	50	59	65
	•	•	•	•			02	.035	–	.10	.14	.20	.28	.32	.45	.55	.71	39	50	57	63
	•	•	•	•		•	03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	40	50	56	62
	•	•	•	•		•	04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	42	50	56	61
	•	•	•	•		•	05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	44	50	56	61
	•					•	055	.059	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9	44	50	56	61
	•	•	•	•		•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	45	50	56	60
	•	•				•	07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	45	50	56	60
	•	•	•	•		•	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	45	50	55	60
		•			•	•	09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	45	50	55	59
40°	•	•	•	•	•		01	.026	–	–	.07	.10	.14	.16	.22	.27	.35	26	40	52	59
	•	•	•	•	•		015	.032	–	–	.11	.15	.21	.24	.34	.41	.53	27	40	52	59
	•	•	•	•	•	•	02	.035	–	.10	.14	.20	.28	.32	.45	.55	.71	29	40	51	58
	•	•	•	•	•	•	03	.043	–	.15	.21	.30	.42	.47	.67	.82	1.1	30	40	50	57
	•	•	•	•	•	•	04	.050	–	.20	.28	.40	.57	.63	.89	1.1	1.4	30	40	50	56

Highlighted column shows the rated pressure.



**PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT**

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	H-VV		H-VVL		H-DT				5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
	1/8	1/4	1/8	1/4	1/8	1/4																
40°	●	●	●	●	●	●	05	.056	–	.25	.35	.50	.71	.79	1.1	1.4	1.8	31	40	49	55	
	●	●			●	●	055	.059	–	.28	.39	.55	.78	.87	1.2	1.5	1.9	31	40	49	55	
	●	●	●	●	●	●	06	.061	–	.30	.42	.60	.85	.95	1.3	1.6	2.1	31	40	49	55	
	●	●			●	●	065	.064	–	.33	.46	.65	.92	1.0	1.5	1.8	2.3	31	40	48	54	
	●	●			●	●	07	.066	–	.35	.49	.70	.99	1.1	1.6	1.9	2.5	31	40	48	54	
	●	●	●	●	●	●	08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	31	40	47	53	
	●						085	.073	.30	.43	.60	.85	1.2	1.3	1.9	2.3	3.0	32	40	46	50	
	●	●			●	●	09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	32	40	46	50	
25°	●	●	●	●	●		01	.026	–	–	.07	.10	.14	.16	.22	.27	.35	14	25	34	42	
	●	●	●	●	●	●	02	.035	–	–	.14	.20	.28	.32	.45	.55	.71	15	25	33	40	
	●	●	●	●	●	●	03	.043	–	–	.21	.30	.42	.47	.67	.82	1.1	15	25	33	40	
	●	●	●	●	●	●	04	.050	–	.20	.28	.40	.57	.63	.89	1.1	1.4	1.6	16	25	32	39
				●	●	●	045	.053	–	.23	.32	.45	.64	.71	1.0	1.2	1.6	16	25	32	39	
	●	●	●	●	●	●	05	.056	–	.25	.35	.50	.71	.79	1.1	1.4	1.8	16	25	32	39	
	●	●			●	●	055	.059	–	.28	.39	.55	.78	.87	1.2	1.5	1.9	16	25	31	38	
	●	●	●	●	●	●	06	.061	–	.30	.42	.60	.85	.95	1.3	1.6	2.1	17	25	31	38	
	●	●			●	●	065	.064	–	.33	.46	.65	.92	1.0	1.5	1.8	2.3	17	25	31	38	
	●	●	●		●	●	07	.066	–	.35	.49	.70	.99	1.1	1.6	1.9	2.5	17	25	31	38	
	●	●					075	.068	–	.38	.53	.75	1.1	1.2	1.7	2.1	2.7	17	25	31	38	
	●	●	●	●	●	●	08	.071	–	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	17	25	31	38	
	●						085	.073	–	.43	.60	.85	1.2	1.3	1.9	2.3	3.0	18	25	31	37	
●	●			●	●	09	.075	–	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	17	25	31	37		
				●		15	.094	–	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	18	25	31	37		
15°	●	●		●			01	.026	–	–	–	.10	.14	.16	.22	.27	.35	–	15	24	28	
	●		●		●	●	02	.035	–	–	.14	.20	.28	.32	.45	.55	.71	6	15	22	27	
	●	●	●	●	●	●	03	.043	–	–	.21	.30	.42	.47	.67	.82	1.1	6	15	22	27	
	●	●	●	●	●	●	04	.050	–	–	.28	.40	.57	.63	.89	1.1	1.4	7	15	21	26	
	●	●	●	●	●	●	05	.056	–	–	.35	.50	.71	.79	1.1	1.4	1.8	7	15	21	26	
	●	●			●	●	055	.059	–	.28	.39	.55	.78	.87	1.2	1.5	1.9	7	15	21	26	
	●	●	●	●	●	●	06	.061	–	.30	.42	.60	.85	.95	1.3	1.6	2.1	8	15	21	26	
	●	●			●	●	065	.064	–	.33	.46	.65	.92	1.0	1.5	1.8	2.3	8	15	20	25	
		●			●	●	07	.066	–	.35	.49	.70	.99	1.1	1.6	1.9	2.5	8	15	20	25	
	●	●	●	●	●	●	08	.071	–	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	9	15	20	25	
	●	●			●	●	085	.073	–	.43	.60	.85	1.2	1.3	1.9	2.3	3.0	9	15	19	24	
	●	●			●	●	09	.075	–	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	9	15	19	24	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	H-DU		U					5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
	1/8	1/4	1	1-1/4	2																
95°	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	89	95	100	105	
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	90	95	100	105	
		•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	90	95	100	105	
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	91	95	101	105	
		•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	92	95	100	105	
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	93	95	99	103	
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	93	95	99	103	
80°		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	93	95	99	103	
	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	73	80	84	87	
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	74	80	83	86	
	•	•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	74	80	83	86	
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	74	80	83	86	
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	74	80	83	86	
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	74	80	83	85	
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	75	80	83	85	
		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	75	80	83	86	
			•			500	.528	17.7	25	35	50	71	79	112	137	177	78	80	81	83	
		•			580	.569	21	29	41	58	82	92	130	159	205	78	80	81	83		
65°	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	56	65	71	74	
						12	.084	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	56	65	71	73	
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	56	65	70	73	
	•	•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	57	65	70	73	
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	58	65	69	72	
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	59	65	68	72	
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	60	65	68	71	
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	60	65	68	71	
	•	•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	60	65	68	71	
			•	•		500	.528	17.7	25	35	50	71	79	112	137	177	60	65	66	68	
		•			580	.569	21	29	41	58	82	92	130	159	205	61	65	66	68		
50°	•					02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	39	50	57	63	
	•					03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	40	50	56	62	
	•					04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	42	50	56	61	
	•					05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	44	50	56	61	
	•					055	.059	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9	44	50	56	61	
	•					06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	45	50	56	60	

PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)									Spray Angle (°)			
	H-DU		U					5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi
	1/8	1/4	1	1-1/4	2															
50°	•					07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	45	50	56	60
	•					08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	45	50	55	60
	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	45	50	55	59
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	45	50	55	59
		•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	45	50	55	59
		•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	45	50	55	59
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	46	50	54	59
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	46	50	54	59
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	46	50	54	59
		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	46	50	54	59
			•	•		500	.528	17.7	25	35	50	71	79	112	137	177	49	50	51	54
			•			580	.569	21	29	41	58	82	92	130	159	205	49	50	51	53
				•		750	.647	27	38	53	75	106	119	168	205	265	49	50	51	53
				•		1000	.747	35	50	71	100	141	158	224	274	354	49	50	51	53
				•	1500	.915	53	75	106	150	212	237	335	411	530	49	50	51	52	
				•	2000	1.056	71	100	141	200	283	316	447	548	707	49	50	51	52	
40°	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	32	40	45	48
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	32	40	45	48
	•	•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	32	40	45	48
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	33	40	45	48
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	34	40	45	48
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	35	40	45	48
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	35	40	45	48
		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	35	40	45	48
25°			•			500	.528	17.7	25	35	50	71	79	112	137	177	38	40	41	45
	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	18	25	31	37
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	18	25	31	37
	•	•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	19	25	31	37
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	20	25	30	36
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	21	25	29	35
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	21	25	29	35
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	22	25	29	35
		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	22	25	29	35
			•	•		500	.528	17.7	25	35	50	71	79	112	137	177	24	25	26	29
			•		750	.647	27	38	53	75	106	119	168	205	265	24	25	26	28	
			•		1000	.747	35	50	71	100	141	158	224	274	354	24	25	26	28	

Highlighted column shows the rated pressure.



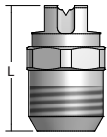
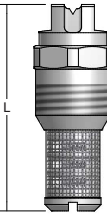
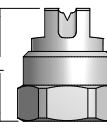
PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)									Spray Angle (°)			
	H-DU		U					5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi
	1/8	1/4	1	1-1/4	2															
15°	•	•				10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	10	15	19	24
	•	•				15	.094	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	10	15	19	24
	•	•				20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	10	15	19	23
	•	•				30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	10	15	19	21
	•	•				40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	10	15	18	21
		•				50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	11	15	18	21
		•				60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	11	15	18	21
		•				70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	11	15	18	21
				•		500	.528	17.7	25	35	50	71	79	112	137	177	14	15	16	17
				•		1000	.747	35	50	71	100	141	158	224	274	354	14	15	16	17
0°		•				03	.041	.11	.15	.21	.30	.42	.47	.67	.82	1.1				
	•	•				04	.047	.14	.20	.28	.40	.57	.63	.89	1.1	1.4				
	•	•				05	.053	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8				
	•	•				055	.055	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9				
	•	•				06	.058	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1				
	•	•				065	.060	.23	.33	.46	.65	.92	1.0	1.5	1.8	2.3				
	•	•				07	.062	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5				
	•	•				08	.067	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8				
	•	•				09	.071	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2				
	•	•				10	.075	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5				
		•				12	.082	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2				
	•	•				15	.091	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3				
	•	•				20	.106	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1				
	•	•				30	.129	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6				
	•	•				40	.149	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1				
		•				50	.167	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7				
		•				60	.183	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21				
		•				70	.198	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25				
			•	•		570	.558	20	29	40	57	81	90	127	156	202				
			•			1000	.739	35	50	71	100	141	158	224	274	354				
		•			1100	.775	39	55	78	110	156	174	246	301	389					
			•		1400	.875	49	70	99	140	198	221	313	383	495					
			•		1800	.992	64	90	127	180	255	285	402	493	636					
				•	2000	1.045	71	100	141	200	283	316	447	548	707					
				•	3500	1.383	124	175	247	350	495	553	783	959	1237					

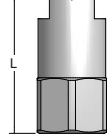
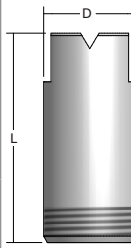
Highlighted column shows the rated pressure.

0
(solid stream)

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	H-VV	1/8 male	0.875	1/2	–	0.5
		1/4 male	0.906	9/16	–	0.8
	H-VVL	1/8 male	1.531	1/2	–	0.8
		1/4 male	1.250	9/16	–	1
	H-DT	1/8 female	0.750	1/2	–	0.5
		1/4 female	0.780	5/8	–	0.8

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	H-DU	1/8 female	1.125	1/2	–	0.8
		1/4 female	1.250	5/8	–	1.3
	U	1 male	2.313	–	1.313	9
		1-1/4 male	3.750	–	1.688	20
		2 male	5.375	–	2.375	68

Based on the largest/heaviest version of each type.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
110°		●	●	01	.026	.035	.05	.07	.10	.14	.16	.21	.22	.27	94	110	121	124	
		●	●	015	.032	.05	.08	.11	.15	.21	.24	.31	.34	.41	97	110	121	124	
		●	●	02	.036	.07	.10	.14	.20	.28	.32	.42	.45	.55	98	110	120	123	
		●	●	03	.043	.11	.15	.21	.30	.42	.47	.63	.67	.82	99	110	120	123	
		●	●	04	.050	.14	.20	.28	.40	.57	.63	.84	.89	1.1	100	110	119	122	
		●	●	05	.056	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	100	110	118	122	
		●	●	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6	101	110	117	122	
		●	●	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	102	110	117	121	
		●	●	10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	103	110	117	119	
		●	●	15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	104	110	117	118	
	●	●	20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	105	110	117	118		
95°		●	●	01	.026	.035	.05	.07	.10	.14	.16	.21	.22	.27	81	95	105	113	
		●	●	015	.032	.05	.08	.11	.15	.21	.24	.31	.34	.41	82	95	105	113	
		●	●	02	.036	.07	.10	.14	.20	.28	.32	.42	.45	.55	82	95	105	113	
		●	●	03	.043	.11	.15	.21	.30	.42	.47	.63	.67	.82	83	95	104	111	
		●	●	04	.050	.14	.20	.28	.40	.57	.63	.84	.89	1.1	84	95	103	108	
		●	●	05	.056	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	84	95	102	107	
		●	●	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6	86	95	101	106	
		●	●	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	87	95	100	105	
		●		10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	89	95	100	105	
		●		15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	90	95	100	105	
		●		20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	90	95	100	105	
		●		30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	91	95	101	105	
		●		40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	92	95	100	105	
		●		50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	93	95	99	103	
	●		60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	93	95	99	103		
	●		70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	93	95	99	103		
	●	●	150	.297	5.3	7.5	10.6	15.0	21	24	31	34	41	93	95	99	102		
80°		●	●	0050	.018	–	–	.035	.050	.07	.08	.10	.11	.14	61	80	95	101	
		●	●	0067	.021	–	.033	.05	.067	.09	.11	.14	.15	.18	67	80	94	99	
		●	●	01	.026	–	.05	.07	.10	.14	.16	.21	.22	.27	68	80	89	92	
		●	●	015	.032	–	.08	.11	.15	.21	.24	.31	.34	.41	68	80	89	92	
		●	●	02	.036	.07	.10	.14	.20	.28	.32	.42	.45	.55	69	80	88	91	
		●	●	03	.043	.11	.15	.21	.30	.42	.47	.63	.67	.82	70	80	87	90	

Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
80°		•	•	04	.050	.14	.20	.28	.40	.57	.63	.84	.89	1.1	71	80	86	89	
		•	•	05	.056	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	71	80	86	89	
		•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6	72	80	85	88	
		•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	72	80	84	87	
	•			10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	73	80	84	87	
	•			15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	74	80	83	86	
	•			20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	74	80	83	86	
	•			30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	74	80	83	86	
	•			40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	74	80	83	86	
	•			50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	74	80	83	85	
	•			60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	75	80	83	85	
•			70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	75	80	83	86		
73°		•	•	0023	.012	–	–	.016	.023	.032	.036	.05	.051	.063	50	73	89	97	
		•	•	0039	.016	–	.020	.028	.039	.055	.062	.08	.087	.11	53	73	87	93	
		•	•	0077	.023	–	.039	.055	.077	.11	.12	.16	.17	.21	53	73	86	92	
		•	•	0116	.028	.041	.058	.082	.12	.16	.18	.24	.26	.32	54	73	85	90	
		•	•	0154	.032	.054	.077	.11	.15	.22	.24	.32	.34	.42	55	73	84	88	
		•	•	0231	.038	.082	.12	.16	.23	.33	.37	.48	.52	.63	56	73	83	87	
		•	•	0308	.044	.11	.15	.22	.31	.44	.49	.64	.69	.84	58	73	82	86	
		•	•	0385	.049	.14	.19	.27	.39	.54	.61	.81	.86	1.1	59	73	81	85	
		•	•	0462	.054	.16	.23	.33	.46	.65	.73	.97	1.0	1.3	60	73	80	84	
		•	•	0616	.062	.22	.31	.44	.62	.87	.97	1.3	1.4	1.7	63	73	79	83	
		•	•	0770	.069	.27	.39	.54	.77	1.1	1.2	1.6	1.7	2.1	64	73	77	82	
		•	•	0924	.076	.33	.46	.65	.92	1.3	1.5	1.9	2.1	2.5	65	73	77	80	
65°		•	•	0017	.011	–	–	.012	.017	.024	.027	.04	.038	.047	44	65	77	86	
		•	•	0025	.013	–	–	.018	.025	.035	.040	.05	.06	.07	45	65	77	84	
		•	•	0033	.015	–	–	.023	.033	.047	.052	.07	.07	.09	47	65	76	83	
		•	•	0050	.018	–	–	.035	.050	.07	.08	.10	.11	.14	48	65	75	82	
		•	•	0067	.021	–	.033	.05	.067	.09	.11	.14	.15	.18	50	65	75	81	
		•	•	01	.026	–	.05	.07	.10	.14	.16	.21	.22	.27	51	65	74	80	
		•	•	015	.032	–	.08	.11	.15	.21	.24	.31	.34	.41	51	65	74	80	
		•	•	02	.036	.07	.10	.14	.20	.28	.32	.42	.45	.55	52	65	73	79	
		•	•	03	.043	.11	.15	.21	.30	.42	.47	.63	.67	.82	53	65	72	78	
		•	•	04	.050	.14	.20	.28	.40	.57	.63	.84	.89	1.1	53	65	72	76	
		•	•	05	.056	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	53	65	72	76	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
65°		•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6	54	65	72	75	
		•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	55	65	71	74	
	•			10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	56	65	71	74	
	•			15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	56	65	70	73	
	•			20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	57	65	70	73	
	•			30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	58	65	69	72	
	•			40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	59	65	68	72	
	•			50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	60	65	68	71	
	•			60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	60	65	68	71	
	•			70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	60	65	68	71	
50°		•	•	0017	.011	–	–	.012	.017	.024	.027	.04	.038	.047	27	50	65	74	
		•	•	0025	.013	–	–	.018	.025	.035	.040	.05	.06	.07	29	50	64	71	
		•	•	0033	.015	–	–	.023	.033	.047	.052	.07	.07	.09	30	50	62	68	
		•	•	0050	.018	–	–	.035	.050	.07	.08	.10	.11	.14	32	50	60	66	
		•	•	0067	.021	–	–	.05	.067	.09	.11	.14	.15	.18	35	50	60	66	
		•	•	01	.026	–	.05	.07	.10	.14	.16	.21	.22	.27	37	50	59	65	
		•	•	015	.032	–	.08	.11	.15	.21	.24	.31	.34	.41	38	50	58	64	
		•	•	02	.036	–	.10	.14	.20	.28	.32	.42	.45	.55	39	50	57	63	
		•	•	03	.043	.11	.15	.21	.30	.42	.47	.63	.67	.82	40	50	56	62	
		•	•	04	.050	.14	.20	.28	.40	.57	.63	.84	.89	1.1	42	50	56	61	
		•	•	05	.056	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	44	50	56	61	
		•	•	06	.061	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6	45	50	56	60	
		•	•	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	45	50	55	60	
	•			10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	45	50	55	59	
	•			15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	45	50	55	59	
	•			20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	45	50	55	59	
	•			30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	45	50	55	59	
	•			40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	46	50	54	59	
	•			50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	46	50	54	59	
	•			60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	46	50	54	59	
•			70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	46	50	54	59		
40°		•	•	0017	.011	–	–	.012	.017	.024	.027	.04	.038	.047	21	40	54	61	
		•	•	0025	.013	–	–	.018	.025	.035	.040	.05	.06	.07	22	40	53	60	
		•	•	0033	.015	–	–	.023	.033	.047	.052	.07	.07	.09	22	40	53	60	
		•	•	0050	.018	–	–	.035	.050	.07	.08	.10	.11	.14	22	40	53	60	

Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
40°		●	●	0067	.021	–	–	.05	.067	.09	.11	.14	.15	.18	24	40	53	60	
		●	●	01	.026	–	–	.07	.10	.14	.16	.21	.22	.27	26	40	52	59	
		●	●	015	.032	–	–	.11	.15	.21	.24	.31	.34	.41	27	40	52	59	
		●	●	02	.036	–	.10	.14	.20	.28	.32	.42	.45	.55	29	40	51	58	
		●	●	03	.043	–	.15	.21	.30	.42	.47	.63	.67	.82	30	40	50	57	
		●	●	04	.050	–	.20	.28	.40	.57	.63	.84	.89	1.1	30	40	50	56	
		●	●	05	.056	–	.25	.35	.50	.71	.79	1.0	1.1	1.4	31	40	49	55	
		●	●	06	.061	–	.30	.42	.60	.85	.95	1.3	1.3	1.6	31	40	49	55	
		●	●	08	.071	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	31	40	47	53	
		●		10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	32	40	45	48	
		●		15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	32	40	45	48	
		●		20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	32	40	45	48	
		●		30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	33	40	45	48	
		●		40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	34	40	45	48	
		●		50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	35	40	45	48	
		●		60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	35	40	45	48	
		●		70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	35	40	45	48	
25°		●	●	0017	.011	–	–	–	.017	.024	.027	.04	.038	.047	–	25	35	47	
		●	●	0025	.013	–	–	–	.025	.035	.040	.05	.06	.07	–	25	35	45	
		●	●	0033	.015	–	–	–	.033	.047	.052	.07	.07	.09	–	25	34	44	
		●	●	0050	.018	–	–	–	.050	.07	.08	.10	.11	.14	–	25	34	43	
		●	●	0067	.021	–	–	–	.067	.09	.11	.14	.15	.18	–	25	34	42	
		●	●	01	.026	–	–	.07	.10	.14	.16	.21	.22	.27	14	25	34	42	
		●	●	015	.032	–	–	.11	.15	.21	.24	.31	.34	.41	15	25	34	41	
		●	●	02	.036	–	–	.14	.20	.28	.32	.42	.45	.55	15	25	33	40	
		●	●	03	.043	–	–	.21	.30	.42	.47	.63	.67	.82	15	25	33	40	
		●	●	04	.050	–	.20	.28	.40	.57	.63	.84	.89	1.1	16	25	32	39	
		●	●	05	.056	–	.25	.35	.50	.71	.79	1.0	1.1	1.4	16	25	32	39	
		●	●	06	.061	–	.30	.42	.60	.85	.95	1.3	1.3	1.6	17	25	31	38	
		●	●	08	.071	–	.40	.57	.80	1.1	1.3	1.7	1.8	2.2	17	25	31	38	
		●		10	.079	–	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	18	25	31	37	
		●		15	.094	–	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	18	25	31	37	
		●		20	.109	–	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	19	25	31	37	
		●		30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	20	25	30	36	
	●		40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	21	25	29	35		

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
25°	●			50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	21	25	29	35	
	●			60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	22	25	29	35	
	●			70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	22	25	29	35	
15°		●	●	0017	.011	–	–	–	.017	.024	.027	.04	.038	.047	–	15	30	37	
		●	●	0025	.013	–	–	–	.025	.035	.040	.05	.06	.07	–	15	28	34	
		●	●	0033	.015	–	–	–	.033	.047	.052	.07	.07	.09	–	15	27	32	
		●	●	0050	.018	–	–	–	.050	.07	.08	.10	.11	.14	–	15	26	30	
		●	●	0067	.021	–	–	–	.067	.09	.11	.14	.15	.18	–	15	25	29	
		●	●	01	.026	–	–	–	.10	.14	.16	.21	.22	.27	–	15	24	28	
		●	●	015	.032	–	–	–	.15	.21	.24	.31	.34	.41	–	15	23	27	
		●	●	02	.036	–	–	.14	.20	.28	.32	.42	.45	.55	6	15	22	27	
		●	●	03	.043	–	–	.21	.30	.42	.47	.63	.67	.82	6	15	22	27	
		●	●	04	.050	–	–	.28	.40	.57	.63	.84	.89	1.1	7	15	21	26	
		●	●	05	.055	–	–	.35	.50	.71	.79	1.0	1.1	1.4	7	15	21	26	
		●	●	06	.061	–	–	.42	.60	.85	.95	1.3	1.3	1.6	8	15	21	26	
		●	●	08	.071	–	–	.57	.80	1.1	1.3	1.7	1.8	2.2	9	15	20	25	
		●			10	.079	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7	10	15	19	24
		●			15	.094	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1	10	15	19	24
		●			20	.109	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5	10	15	19	23
		●			30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2	10	15	19	21
		●			40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0	10	15	18	21
		●			50	.172	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7	11	15	18	21
		●			60	.188	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4	11	15	18	21
	●			70	.203	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2	11	15	18	21	
0°		●	●	0009	.008	.003	.004	.005	.009	.013	.014	.020	.020	.025	0 (solid stream)				
		●	●	0012	.010	.004	.006	.008	.012	.017	.019	.027	.027	.033					
		●	●	0019	.012	.007	.009	.013	.019	.027	.030	.043	.043	.052					
		●	●	0021	.013	.007	.010	.011	.023	.033	.040	.047	.047	.052					
		●	●	0050	.019	.018	.025	.035	.050	.07	.08	.10	.11	.14					
		●	●	0067	.023	.024	.033	.05	.067	.09	.11	.14	.15	.18					
		●	●	01	.028	.035	.05	.07	.10	.14	.16	.21	.22	.27					
		●	●	015	.034	.05	.08	.11	.15	.21	.24	.31	.34	.41					
		●	●	02	.039	.07	.10	.14	.20	.28	.32	.42	.45	.55					
		●	●	03	.041	.11	.15	.21	.30	.42	.47	.63	.67	.82					
		●	●	04	.047	.14	.20	.28	.40	.57	.63	.84	.89	1.1					

Highlighted column shows the rated pressure.

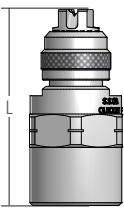
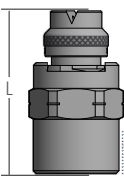


PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

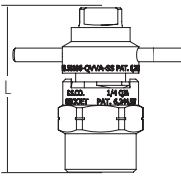
Spray Angle at 40 psi	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QUA	QVVA	58106			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	175 psi	200 psi	300 psi	20 psi	40 psi	80 psi	200 psi	
0°	●	●	●	05	.053	.18	.25	.35	.50	.71	.79	1.0	1.1	1.4	0 (solid stream)				
	●	●	●	06	.058	.21	.30	.42	.60	.85	.95	1.3	1.3	1.6					
	●	●	●	08	.067	.28	.40	.57	.80	1.1	1.3	1.7	1.8	2.2					
	●			10	.075	.35	.50	.71	1.0	1.4	1.6	2.1	2.2	2.7					
	●			15	.091	.53	.75	1.1	1.5	2.1	2.4	3.1	3.4	4.1					
	●			20	.106	.71	1.0	1.4	2.0	2.8	3.2	4.2	4.5	5.5					
	●			30	.129	1.1	1.5	2.1	3.0	4.2	4.7	6.3	6.7	8.2					
	●			40	.149	1.4	2.0	2.8	4.0	5.7	6.3	8.4	8.9	11.0					
	●			50	.167	1.8	2.5	3.5	5.0	7.1	7.9	10.5	11.2	13.7					
	●			60	.183	2.1	3.0	4.2	6.0	8.5	9.5	12.5	13.4	16.4					
	●			70	.198	2.5	3.5	4.9	7.0	9.9	11.1	14.6	15.7	19.2					
	●			80	.211	2.8	4.0	5.7	8.0	11.3	12.6	16.7	17.9	22					

Highlighted column shows the rated pressure.

ASSEMBLY DIMENSIONS AND WEIGHTS

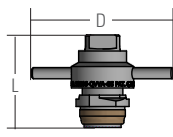
Nozzle	Tip/Body Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	QVVA + QJA	1/8, 1/4, 3/8, 1/2 female	2.156	1	2.0
	QVVA + QJJA	1/8, 1/4, 3/8, 1/2 male	2.063	1	2.8
	QUA + QJA	1/8, 1/4, 3/8, 1/2 female	1.750	7/8	2.75
	QUA + QJJA	1/8, 1/4, 3/8, 1/2 male	1.750	7/8	2.125

Based on the largest/heaviest version of each type.

Nozzle	Tip/Body Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	58106 - QVVA + QJA	1/8, 1/4, 3/8, 1/2 female	2.145	1	2.1

Based on the largest/heaviest version of each type.

SPRAY TIP DIMENSIONS

Nozzle	Nozzle Type	L (in.)	W (in.)
	58106*	1.250	2

*58106 fits on any QuickJet body.

PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
110°	•	•	•		0033	.015	-	-	.023	.033	.047	.052	.07	.09	.12	91	110	116	121	
	•	•	•		0050	.018	-	-	.035	.050	.07	.08	.11	.14	.18	91	110	118	124	
	•	•	•		0067	.021	-	-	.05	.067	.09	.11	.15	.18	.24	92	110	118	124	
	•	•	•		01	.026	.035	.05	.07	.10	.14	.16	.22	.27	.35	94	110	121	124	
	•	•	•		015	.032	.05	.08	.11	.15	.21	.24	.34	.41	.53	97	110	121	124	
	•	•	•		02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	98	110	120	123	
	•	•	•		03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	99	110	120	123	
	•	•	•		04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	100	110	119	122	
	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	100	110	118	122	
	•	•	•		06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	101	110	117	122	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	102	110	117	121	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	102	110	117	121	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	103	110	117	119	
	•	•		•	12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	103	110	117	119	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	104	110	117	118	
	•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	105	110	117	118	
	•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	105	110	117	118	
95°	•	•	•		01	.026	.035	.05	.07	.10	.14	.16	.22	.27	.35	81	95	105	113	
	•	•	•		015	.032	.05	.08	.11	.15	.21	.24	.34	.41	.53	82	95	105	113	
	•	•	•		02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	82	95	105	113	
	•	•	•		03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	83	95	104	111	
	•	•	•		04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	84	95	103	108	
	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	84	95	102	107	
	•	•	•		06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	86	95	101	106	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	86	95	101	106	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	87	95	100	105	
	•	•	•		09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	89	95	100	105	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	89	95	100	105	
	•	•		•	11	.083	.39	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9	89	95	100	105	
	•	•	•		12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	89	95	100	105	
	•	•		•	13	.090	.46	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	89	95	100	105	
	•	•		•	14	.093	.49	.70	.99	1.4	2.0	2.2	3.1	3.8	4.9	89	95	100	105	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	90	95	100	105	
	•	•		•	16	.100	.57	.80	1.1	1.6	2.3	2.5	3.6	4.4	5.7	90	95	100	105	
	•	•		•	18	.106	.64	.90	1.3	1.8	2.5	2.8	4.0	4.9	6.4	90	95	100	105	
	•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	90	95	100	105	
	•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	91	95	101	105	
•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	92	95	100	105		
•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	93	95	99	103		
•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	93	95	99	103		
•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	93	95	99	103		

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
80°	•	•	•		0050	.018	–	–	.035	.050	.07	.08	.11	.14	.18	61	80	95	101	
	•	•	•		0067	.021	–	.033	.05	.067	.09	.11	.15	.18	.24	67	80	94	99	
	•	•	•		01	.026	–	.05	.07	.10	.14	.16	.22	.27	.35	68	80	89	92	
	•	•	•		015	.032	–	.08	.11	.15	.21	.24	.34	.41	.53	68	80	89	92	
	•	•	•		02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	69	80	88	91	
	•	•	•		03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	70	80	87	90	
	•	•	•		04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	71	80	86	89	
	•	•	•		045	.053	.16	.23	.32	.45	.64	.71	1.0	1.2	1.6	71	80	86	89	
	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	71	80	86	89	
	•	•	•		06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	72	80	85	88	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	72	80	85	88	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	72	80	84	87	
	•	•	•		09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	73	80	84	87	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	73	80	84	87	
	•	•		•	11	.083	.39	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9	73	80	83	86	
	•	•		•	12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	73	80	83	86	
	•	•		•	13	.090	.46	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	73	80	83	86	
	•	•		•	14	.093	.49	.70	.99	1.4	2.0	2.2	3.1	3.8	4.9	73	80	83	86	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	74	80	83	86	
	•	•		•	16	.100	.57	.80	1.1	1.6	2.3	2.5	3.6	4.4	5.7	74	80	83	86	
•	•		•	17	.103	.60	.85	1.2	1.7	2.4	2.7	3.8	4.7	6.0	74	80	83	86		
•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	74	80	83	86		
•	•		•	25	.121	.88	1.3	1.8	2.5	3.5	4.0	5.6	6.8	8.8	74	80	83	86		
•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	74	80	83	86		
•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	74	80	83	86		
•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	74	80	83	85		
•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	75	80	83	85		
•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	75	80	83	86		
73°	•	•	•		0023	.012	–	–	.016	.023	.032	.036	.051	.063	.081	50	73	89	97	
	•	•	•		0039	.016	–	.020	.028	.039	.055	.062	.087	.11	.14	53	73	87	93	
	•	•	•		0077	.023	–	.039	.055	.077	.11	.12	.17	.21	.27	53	73	86	92	
	•	•	•		0116	.028	.041	.058	.082	.12	.16	.18	.26	.32	.41	54	73	85	90	
	•	•	•		0154	.032	.054	.077	.11	.15	.22	.24	.34	.42	.54	55	73	84	88	
	•	•	•		0231	.038	.082	.12	.16	.23	.33	.37	.52	.63	.82	56	73	83	87	
	•	•	•		0308	.044	.11	.15	.22	.31	.44	.49	.69	.84	1.1	58	73	82	86	
	•	•	•		0385	.049	.14	.19	.27	.39	.54	.61	.86	1.1	1.4	59	73	81	85	
	•	•	•		0462	.054	.16	.23	.33	.46	.65	.73	1.0	1.3	1.6	60	73	80	84	
	•	•	•		0616	.062	.22	.31	.44	.62	.87	.97	1.4	1.7	2.2	63	73	79	83	
	•	•	•		0770	.069	.27	.39	.54	.77	1.1	1.2	1.7	2.1	2.7	64	73	77	82	
	•	•	•		0924	.076	.33	.46	.65	.92	1.3	1.5	2.1	2.5	3.3	65	73	77	80	

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Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
65°	•	•	•		0017	.011	-	-	.012	.017	.024	.027	.038	.047	.06	44	65	77	86	
	•	•	•		0025	.013	-	-	.018	.025	.035	.040	.06	.07	.09	45	65	77	84	
	•	•	•		0033	.015	-	-	.023	.033	.047	.052	.07	.09	.12	47	65	76	83	
	•	•	•		0050	.018	-	-	.035	.050	.07	.08	.11	.14	.18	48	65	75	82	
	•	•	•		0067	.021	-	.033	.05	.067	.09	.11	.15	.18	.24	50	65	75	81	
	•	•	•		01	.026	-	.05	.07	.10	.14	.16	.22	.27	.35	51	65	74	80	
	•	•	•		015	.032	-	.08	.11	.15	.21	.24	.34	.41	.53	51	65	74	80	
	•	•	•		02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	52	65	73	79	
	•	•	•		025	.039	.09	.13	.18	.25	.35	.40	.56	.68	.88	52	65	73	79	
	•	•	•		03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	53	65	72	78	
	•	•	•		035	.047	.12	.18	.25	.35	.49	.55	.78	.96	1.2	53	65	72	78	
	•	•	•		04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	53	65	72	76	
	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	53	65	72	76	
	•	•	•		055	.059	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9	53	65	72	76	
	•	•	•		06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	54	65	72	75	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	54	65	72	75	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	55	65	71	74	
	•	•	•		09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	55	65	71	74	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	56	65	71	74	
	•	•		•	11	.083	.39	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9	56	65	71	74	
•	•		•	12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	56	65	71	74		
•	•		•	13	.090	.46	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	56	65	71	74		
•	•		•	14	.093	.49	.70	.99	1.4	2.0	2.2	3.1	3.8	4.9	56	65	71	74		
•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	56	65	70	73		
•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	57	65	70	73		
•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	58	65	69	72		
•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	59	65	68	72		
•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	60	65	68	71		
•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	60	65	68	71		
•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	60	65	68	71		
50°	•	•	•		0017	.011	-	-	.012	.017	.024	.027	.038	.047	.06	44	65	77	86	
	•	•	•		0025	.013	-	-	.018	.025	.035	.040	.06	.07	.09	45	65	77	84	
	•	•	•		0033	.015	-	-	.023	.033	.047	.052	.07	.09	.12	47	65	76	83	
	•	•	•		0050	.018	-	-	.035	.050	.07	.08	.11	.14	.18	48	65	75	82	
	•	•	•		0067	.021	-	.033	.05	.067	.09	.11	.15	.18	.24	50	65	75	81	
	•	•	•		01	.026	-	.05	.07	.10	.14	.16	.22	.27	.35	51	65	74	80	
	•	•	•		015	.032	-	.08	.11	.15	.21	.24	.34	.41	.53	51	65	74	80	
	•	•	•		02	.035	.07	.10	.14	.20	.28	.32	.45	.55	.71	52	65	73	79	
	•	•	•		025	.039	.09	.13	.18	.25	.35	.40	.56	.68	.88	52	65	73	79	
	•	•	•		03	.043	.11	.15	.21	.30	.42	.47	.67	.82	1.1	53	65	72	78	
•	•	•		035	.047	.12	.18	.25	.35	.49	.55	.78	.96	1.2	53	65	72	78		

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Highlighted column shows the rated pressure.



**PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803**

Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
50°	•	•	•		04	.050	.14	.20	.28	.40	.57	.63	.89	1.1	1.4	53	65	72	76	
	•	•	•		05	.056	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8	44	50	56	61	
	•	•	•		06	.061	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1	45	50	56	60	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	45	50	56	60	
	•	•	•		075	.068	.27	.38	.53	.75	1.1	1.2	1.7	2.1	2.7	45	50	55	60	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	45	50	55	60	
	•	•	•		09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	45	50	55	59	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	45	50	55	59	
	•	•		•	13	.090	.46	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	45	50	55	59	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	45	50	55	59	
	•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	45	50	55	59	
	•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	45	50	55	59	
	•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	46	50	54	59	
	•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	46	50	54	59	
	•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	46	50	54	59	
	•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	46	50	54	59	
40°	•	•	•		0017	.011	-	-	.012	.017	.024	.027	.038	.047	.06	21	40	54	61	
	•	•	•		0025	.013	-	-	.018	.025	.035	.040	.06	.07	.09	22	40	53	60	
	•	•	•		0033	.015	-	-	.023	.033	.047	.052	.07	.09	.12	22	40	53	60	
	•	•	•		0050	.018	-	-	.035	.050	.07	.08	.11	.14	.18	22	40	53	60	
	•	•	•		0067	.021	-	-	.05	.067	.09	.11	.15	.18	.24	24	40	53	60	
	•	•	•		01	.026	-	-	.07	.10	.14	.16	.22	.27	.35	26	40	52	59	
	•	•	•		015	.032	-	-	.11	.15	.21	.24	.34	.41	.53	27	40	52	59	
	•	•	•		02	.035	-	.10	.14	.20	.28	.32	.45	.55	.71	29	40	51	58	
	•	•	•		025	.039	-	.13	.18	.25	.35	.40	.56	.68	.88	29	40	51	58	
	•	•	•		03	.043	-	.15	.21	.30	.42	.47	.67	.82	1.1	30	40	50	57	
	•	•	•		04	.050	-	.20	.28	.40	.57	.63	.89	1.1	1.4	30	40	50	56	
	•	•	•		05	.056	-	.25	.35	.50	.71	.79	1.1	1.4	1.8	31	40	49	55	
	•	•	•		055	.059	-	.28	.39	.55	.78	.87	1.2	1.5	1.9	31	40	49	55	
	•	•	•		06	.061	-	.30	.42	.60	.85	.95	1.3	1.6	2.1	31	40	49	55	
	•	•	•		07	.066	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5	31	40	49	55	
	•	•	•		08	.071	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	31	40	47	53	
	•	•	•		09	.075	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	32	40	45	48	
	•	•		•	10	.079	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	32	40	45	48	
	•	•		•	11	.083	.39	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9	32	40	45	48	
	•	•		•	12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	32	40	45	48	
	•	•		•	13	.090	.46	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	32	40	45	48	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	32	40	45	48	
	•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	32	40	45	48	
	•	•		•	25	.121	.88	1.3	1.8	2.5	3.5	4.0	5.6	6.8	8.8	32	40	45	48	
•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	33	40	45	48		

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
40°	•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	34	40	45	48	
	•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	35	40	45	48	
	•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	35	40	45	48	
	•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	35	40	45	48	
25°	•	•	•		0017	.011	-	-	-	.017	.024	.027	.038	.047	.06	-	25	35	47	
	•	•	•		0025	.013	-	-	-	.025	.035	.040	.06	.07	.09	-	25	35	45	
	•	•	•		0033	.015	-	-	-	.033	.047	.052	.07	.09	.12	-	25	34	44	
	•	•	•		0050	.018	-	-	-	.050	.07	.08	.11	.14	.18	-	25	34	43	
	•	•	•		0067	.021	-	-	-	.067	.09	.11	.15	.18	.24	-	25	34	42	
	•	•	•		01	.026	-	-	.07	.10	.14	.16	.22	.27	.35	14	25	34	42	
	•	•	•		015	.032	-	-	.11	.15	.21	.24	.34	.41	.53	15	25	34	41	
	•	•	•		02	.035	-	-	.14	.20	.28	.32	.45	.55	.71	15	25	33	40	
	•	•	•		03	.043	-	-	.21	.30	.42	.47	.67	.82	1.1	15	25	33	40	
	•	•	•		04	.050	-	.20	.28	.40	.57	.63	.89	1.1	1.4	16	25	32	39	
	•	•	•		05	.056	-	.25	.35	.50	.71	.79	1.1	1.4	1.8	16	25	32	39	
	•	•	•		055	.059	-	.28	.39	.55	.78	.87	1.2	1.5	1.9	16	25	32	39	
	•	•	•		06	.061	-	.30	.42	.60	.85	.95	1.3	1.6	2.1	17	25	31	38	
	•	•	•		07	.066	-	.35	.49	.70	.99	1.1	1.6	1.9	2.5	17	25	31	38	
	•	•	•		08	.071	-	.40	.57	.80	1.1	1.3	1.8	2.2	2.8	17	25	31	38	
	•	•	•		09	.075	-	.45	.64	.90	1.3	1.4	2.0	2.5	3.2	17	25	31	38	
	•	•		•	10	.079	-	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5	18	25	31	37	
	•	•		•	13	.090	-	.65	.92	1.3	1.8	2.1	2.9	3.6	4.6	18	25	31	37	
	•	•		•	15	.097	-	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	18	25	31	37	
	•	•		•	20	.112	-	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	19	25	31	37	
•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	20	25	30	36		
•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	21	25	29	35		
•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	21	25	29	35		
•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	22	25	29	35		
•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	22	25	29	35		
15°	•	•	•		0017	.011	-	-	-	.017	.024	.027	.038	.047	.06	-	15	30	37	
	•	•	•		0025	.013	-	-	-	.025	.035	.040	.06	.07	.09	-	15	28	34	
	•	•	•		0033	.015	-	-	-	.033	.047	.052	.07	.09	.12	-	15	27	32	
	•	•	•		0050	.018	-	-	-	.050	.07	.08	.11	.14	.18	-	15	26	30	
	•	•	•		0067	.021	-	-	-	.067	.09	.11	.15	.18	.24	-	15	25	29	
	•	•	•		01	.026	-	-	-	.10	.14	.16	.22	.27	.35	-	15	24	28	
	•	•	•		015	.032	-	-	-	.15	.21	.24	.34	.41	.53	-	15	23	27	
	•	•	•		02	.035	-	-	.14	.20	.28	.32	.45	.55	.71	6	15	22	27	
	•	•	•		03	.043	-	-	.21	.30	.42	.47	.67	.82	1.1	6	15	22	27	
	•	•	•		04	.050	-	-	.28	.40	.57	.63	.89	1.1	1.4	7	15	21	26	
	•	•	•		05	.056	-	-	.35	.50	.71	.79	1.1	1.4	1.8	7	15	21	26	
	•	•	•		055	.059	-	-	.39	.55	.78	.87	1.2	1.5	1.9	7	15	21	26	

Other body types may be available. Contact your sales engineer for further information.
Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

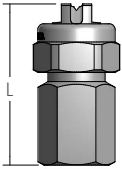
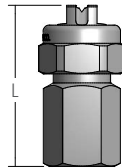
Spray Angle at 40 psi	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi	
15°	•	•	•		06	.061	-	-	.42	.60	.85	.95	1.3	1.6	2.1	8	15	21	26	
	•	•	•		07	.066	-	-	.49	.70	.99	1.1	1.6	1.9	2.5	8	15	21	26	
	•	•	•		08	.071	-	-	.57	.80	1.1	1.3	1.8	2.2	2.8	9	15	20	25	
	•	•	•		09	.075	-	-	.64	.90	1.3	1.4	2.0	2.5	3.2	9	15	20	25	
	•	•		•	10	.079	-	-	.71	1.0	1.4	1.6	2.2	2.7	3.5	10	15	19	24	
	•	•		•	11	.083	-	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9	10	15	19	24	
	•	•		•	12	.087	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2	10	15	19	24	
	•	•		•	15	.097	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3	10	15	19	24	
	•	•		•	20	.112	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1	10	15	19	23	
	•	•		•	30	.133	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6	10	15	19	21	
	•	•		•	40	.153	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1	10	15	18	21	
	•	•		•	50	.172	1.8	2.5	3.5	5.0	7.1	7.9	11.2	13.7	17.7	11	15	18	21	
	•	•		•	60	.188	2.1	3.0	4.2	6.0	8.5	9.5	13.4	16.4	21	11	15	18	21	
•	•		•	70	.203	2.5	3.5	4.9	7.0	9.9	11.1	15.7	19.2	25	11	15	18	21		
0°	•	•			0009	.008	.003	.004	.005	.009	.013	.014	.020	.025	.032	0 (solid stream)				
	•	•			0012	.010	.004	.006	.008	.012	.017	.019	.027	.033	.042					
	•	•			0019	.012	.007	.009	.013	.019	.027	.030	.043	.052	.067					
	•	•			0021	.013	.007	.010	.011	.023	.033	.040	.047	.052	.074					
	•	•			0033	.016	.01	.02	.023	.033	.047	.052	.07	.09	.12					
	•	•			0050	.019	.018	.025	.035	.050	.07	.08	.11	.14	.18					
	•	•			0067	.023	.024	.033	.05	.067	.09	.11	.15	.18	.24					
	•	•			01	.028	.035	.05	.07	.10	.14	.16	.22	.27	.35					
	•	•			015	.034	.05	.08	.11	.15	.21	.24	.34	.41	.53					
	•	•			02	.039	.07	.10	.14	.20	.28	.32	.45	.55	.71					
	•	•			03	.041	.11	.15	.21	.30	.42	.47	.67	.82	1.1					
	•	•			04	.047	.14	.20	.28	.40	.57	.63	.89	1.1	1.4					
	•	•			045	.052	.16	.23	.32	.45	.64	.71	1.0	1.2	1.6					
	•	•			05	.053	.18	.25	.35	.50	.71	.79	1.1	1.4	1.8					
	•	•			055	.055	.19	.28	.39	.55	.78	.87	1.2	1.5	1.9					
	•	•			06	.058	.21	.30	.42	.60	.85	.95	1.3	1.6	2.1					
	•	•			065	.060	.23	.33	.46	.65	.92	1.0	1.5	1.8	2.3					
	•	•			07	.062	.25	.35	.49	.70	.99	1.1	1.6	1.9	2.5					
	•	•			08	.067	.28	.40	.57	.80	1.1	1.3	1.8	2.2	2.8					
	•	•			09	.071	.32	.45	.64	.90	1.3	1.4	2.0	2.5	3.2					
	•	•			10	.075	.35	.50	.71	1.0	1.4	1.6	2.2	2.7	3.5					
	•	•			11	.079	.39	.55	.78	1.1	1.6	1.7	2.5	3.0	3.9					
	•	•			12	.082	.42	.60	.85	1.2	1.7	1.9	2.7	3.3	4.2					
	•	•			15	.091	.53	.75	1.1	1.5	2.1	2.4	3.4	4.1	5.3					
•	•			20	.106	.71	1.0	1.4	2.0	2.8	3.2	4.5	5.5	7.1						
•	•			30	.129	1.1	1.5	2.1	3.0	4.2	4.7	6.7	8.2	10.6						
•	•			40	.149	1.4	2.0	2.8	4.0	5.7	6.3	8.9	11.0	14.1						

Other body types may be available. Contact your sales engineer for further information.

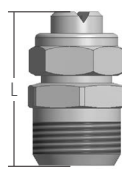
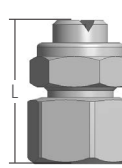
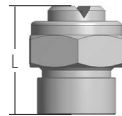
Highlighted column shows the rated pressure.



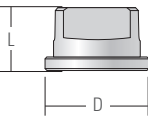
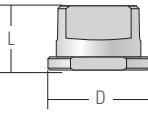
ASSEMBLY DIMENSIONS AND WEIGHTS:

Nozzle	Tip/Body Type	Conn. Thread Size (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	TPU + T (F) TPU + TT (M)	1/8, 1/4, 3/8, 1/2	1.610	13/16	2.3
	13802 + T (F) 13802 TT (M) +	1/8, 1/4, 3/8, 1/2	1.891	13/16	2.3

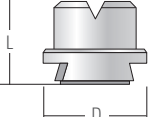
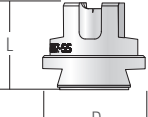
Based on the largest/heaviest version of each type.

Nozzle	Tip/Body Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	Net Weight (oz.)
	49803/58102 + 50868	1/4	1.48	3/4	2.3
	49803/58102 + 50869	1/4	1.47	3/4	2.1
	49803/58102 + 49801	Butt Weld	1.28	-	2.2

SPRAY TIP DIMENSIONS:

Spray Tip	Spray Tip Type	L (in.)	D (Dia.) (in.)	Wrench Flats (in.)	Dovetail Flats (in.)
	TPU	0.375	0.594	0.312	-
	13802	0.375	0.593	0.312	0.495

Based on the largest/heaviest version of each type.

Spray Tip	Spray Tip Type	L (in.)	D (Dia.) (in.)	Wrench Flats (in.)	Dovetail Flats (in.)
	49803	.464	.578	-	0.410
	58102	0.490	0.580	0.312	0.410

Based on the largest/heaviest version of each type.
Dovetail spray tips can be used on a variety of body types.

**PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 45824**

Nozzle Type/ Conn. Size (in.)		Orifice Dia. Nom. (in.)	Capacity Size	Flow Rate Capacity (gallons per minute)*
45824				10 psi
1-1/4	1-1/2			
●	●	0.750	750	60
●	●	0.875	875	80
●	●	1.000	1000	100
●	●	1.125	1125	130
●	●	1.250	1250	150

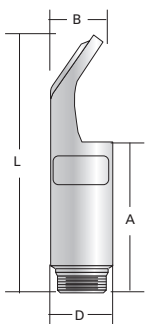
*Reference flow rates measured at 10 psi using water. Field studies indicate black liquor flow rates are approximately 50% of water flow rates. Spray angle 130°
Highlighted column shows the rated pressure.

**PERFORMANCE DATA
STANDARD ANGLE SPRAY: U**

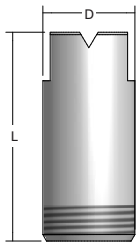
Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)									Spray Angle (°)						
				U															
				5 psi	10 psi	20 psi	40 psi	80 psi	100 psi	200 psi	300 psi	500 psi	20 psi	40 psi	80 psi	200 psi			
65°	●	500	.528	17.7	25	35	50	71	79	112	137	177	60	65	66	68			
	●	500	.528	17.7	25	35	50	71	79	112	137	177	49	50	51	54			
50°	●	750	.647	27	38	53	75	106	119	168	205	265	49	50	51	53			
	●	1000	.747	35	50	71	100	141	158	224	274	354	49	50	51	53			
25°	●	500	.528	17.7	25	35	50	71	79	112	137	177	24	25	26	29			
	●	750	.647	27	38	53	75	106	119	168	205	265	24	25	26	28			
	●	1000	.747	35	50	71	100	141	158	224	274	354	24	25	26	28			
15°	●	500	.528	17.7	25	35	50	71	79	112	137	177	14	15	16	17			
	●	1000	.747	35	50	71	100	141	158	224	274	354	14	15	16	17			

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size (in.)	L (in.)	A (in.)	B (in.)	D (Dia.) (in.)	Net Weight (oz.)
	45824	1-1/4	8.28	4.84	1.39	2.00	75.2

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size (in.)	L (in.)	D (Dia.) (in.)	Net Weight (oz.)
	U	1-1/4	3.75	1.69	20

Based on the largest/heaviest version of each type.

**PERFORMANCE DATA
WIDE ANGLE SPRAY: QSTK, QTKA**

Inlet Conn. (in.)	Quick FloodJet Tip Type		Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							Spray Angle (°)		
	QSTK	QTKA			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
1/8, 1/4, 3/8, 1/2	●		.25	.017	–	–	–	.04	.04	.05	.06	–	83	117
	●	●	.50	.023	–	–	–	.07	.09	.10	.12	–	89	122
	●	●	.75	.029	–	–	.075	.11	.13	.15	.18	–	106	125
	●	●	1	.033	–	–	.10	.14	.17	.20	.24	–	109	128
	●	●	1.5	.040	–	.13	.15	.21	.26	.30	.37	73	108	125
	●	●	2	.047	–	.17	.20	.28	.35	.40	.49	83	113	129
	●	●	2.5	.052	–	.21	.25	.35	.43	.50	.61	98	122	133
	●	●	3	.057	–	.25	.30	.42	.52	.60	.73	86	112	126
	●	●	4	.066	–	.33	.40	.57	.69	.80	.98	97	123	132
	●	●	5	.074	.27	.42	.50	.71	.87	1.0	1.2	114	128	142
		●	7.5	.091	.41	.63	.75	1.1	1.3	1.5	1.8	101	119	134
		●	10	.105	.55	.84	1.0	1.4	1.7	2.0	2.4	115	133	145
		●	12	.115	.66	1.0	1.2	1.7	2.1	2.4	2.9	128	139	153
		●	15	.128	.82	1.3	1.5	2.1	2.6	3.0	3.7	98	113	123
		●	18	.140	.99	1.5	1.8	2.5	3.1	3.6	4.4	106	120	131
	●	20	.148	1.1	1.7	2.0	2.8	3.5	4.0	4.9	110	122	133	
3/8, 1/2		●	30	.181	1.6	2.5	3.0	4.2	5.2	6.0	7.3	100	110	121
		●	40	.209	2.2	3.3	4.0	5.7	6.9	8.0	9.8	111	126	136
		●	45	.222	2.5	3.8	4.5	6.4	7.8	9.0	11.0	115	130	140
		●	60	.256	3.3	5.0	6.0	8.5	10.4	12.0	14.7	120	134	142

Highlighted column shows the rated pressure.

**PERFORMANCE DATA
WIDE ANGLE SPRAY: TK**

Inlet Conn. (in.)	UniJet® FloodJet Tip Type	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							Spray Angle (°)		
	TK			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
1/4	●	.50	.023	–	–	–	.07	.09	.10	.12	–	89	122
	●	.75	.029	–	–	.075	.11	.13	.15	.18	–	106	125
	●	1	.033	–	–	.10	.14	.17	.20	.24	–	109	128
	●	1.5	.040	–	.13	.15	.21	.26	.30	.37	73	108	125
	●	2	.047	–	.17	.20	.28	.35	.40	.49	83	113	129
	●	2.5	.052	–	.21	.25	.35	.43	.50	.61	98	122	133
	●	3	.057	–	.25	.30	.42	.52	.60	.73	86	112	126
	●	4	.066	–	.33	.40	.57	.69	.80	.98	97	123	132
	●	5	.074	.27	.42	.50	.71	.87	1.0	1.2	114	128	142

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



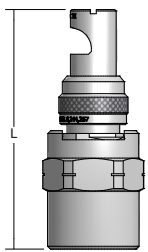
PERFORMANCE DATA
WIDE ANGLE SPRAY: TK

Conn. Size (in.)	UniJet® FloodJet Tip Type	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)							Spray Angle (°)		
	TK			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
1/4	●	7.5	.091	.41	.63	.75	1.1	1.3	1.5	1.8	101	119	134
	●	10	.105	.55	.84	1.0	1.4	1.7	2.0	2.4	115	133	145
	●	12	.115	.66	1.0	1.2	1.7	2.1	2.4	2.9	128	139	153
	●	15	.128	.82	1.3	1.5	2.1	2.6	3.0	3.7	98	113	123
	●	18	.140	.99	1.5	1.8	2.5	3.1	3.6	4.4	106	120	131
	●	20	.148	1.1	1.7	2.0	2.8	3.5	4.0	4.9	110	122	133
	●	24	.162	1.3	2.0	2.4	3.4	4.2	4.8	5.9	115	131	144
	●	30	.181	1.6	2.5	3.0	4.2	5.2	6.0	7.3	100	110	121
	●	40	.209	2.2	3.3	4.0	5.7	6.9	8.0	9.8	111	126	136
	●	50	.234	2.7	4.2	5.0	7.1	8.7	10.0	12.2	117	131	140

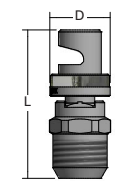
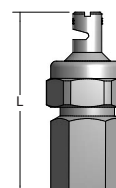
Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	QJA + QTKA	1/8, 1/4, 3/8, 1/2 female	2.531	1	—	5
	QJJA + QTKA	1/8, 1/4, 3/8, 1/2 male	2.438	7/8	—	4.5

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	D (Dia.) (in.)	Net Weight (oz.)
	QJJS + QSTK	1/8, 1/4, 3/8, 1/2 male	1.469	9/16	0.594	1.5
	T + TK	1/4 female	2.000	13/16	—	2.5
	TT + TK	1/4 male	2.000	13/16	—	2.3

Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.

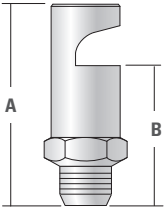
PERFORMANCE DATA
WIDE ANGLE SPRAY: K, 11499, 13063

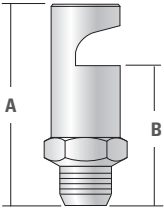
Nozzle Type			Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)						Spray Angle (°)			
K	11499	13063	1/8	1/4	3/8	1/2	3/4	1			3 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	7 psi	20 psi	60 psi
•			•						.25	.017	–	–	–	.04	.04	.05	.06	–	83	117
•			•						.50	.023	–	–	–	.07	.09	.10	.12	–	89	122
•			•						.75	.029	–	–	.075	.11	.13	.15	.18	–	106	125
•			•						1	.033	–	–	.10	.14	.17	.20	.24	–	103	128
•			•						1.5	.040	–	.13	.15	.21	.26	.30	.37	73	103	125
•	•		•	•					2	.047	–	.17	.20	.28	.35	.40	.49	83	113	129
•	•		•	•					2.5	.052	–	.21	.25	.35	.43	.50	.61	98	122	133
•	•		•	•					3	.057	–	.25	.30	.42	.52	.60	.73	86	112	126
•	•	•	•						4	.066	–	.33	.40	.57	.69	.80	.98	97	123	132
•	•	•	•	•					5	.074	.27	.42	.50	.71	.87	1.0	1.2	114	128	142
•	•	•	•	•					7.5	.091	.41	.63	.75	1.1	1.3	1.5	1.8	101	119	134
•	•	•	•	•					10	.105	.55	.84	1.0	1.4	1.7	2.0	2.4	115	133	145
•			•	•					12	.115	.66	1.0	1.2	1.7	2.1	2.4	2.9	128	139	153
•	•		•	•					15	.128	.82	1.3	1.5	2.1	2.6	3.0	3.7	98	113	123
•	•		•	•					18	.140	.99	1.5	1.8	2.5	3.1	3.6	4.4	106	120	131
•			•	•					20	.148	1.1	1.7	2.0	2.8	3.5	4.0	4.9	110	122	133
•			•						22	.155	1.2	1.8	2.2	3.1	3.8	4.4	5.4	113	125	136
•			•						24	.162	1.3	2.0	2.4	3.4	4.2	4.8	5.9	115	131	144
•			•						27	.172	1.5	2.3	2.7	3.8	4.7	5.4	6.6	119	135	148
•				•					30	.181	1.6	2.5	3.0	4.2	5.2	6.0	7.3	100	110	121
•				•					35	.196	1.9	2.9	3.5	4.9	6.1	7.0	8.6	105	118	128
•				•	•				40	.209	2.2	3.3	4.0	5.7	6.9	8.0	9.8	111	126	136
•				•					45	.222	2.5	3.8	4.5	6.4	7.8	9.0	11.0	115	130	140
•					•				50	.234	2.7	4.2	5.0	7.1	8.7	10.0	12.2	117	131	140
•					•				60	.256	3.3	5.0	6.0	8.5	10.4	12.0	14.7	120	134	142
•					•				70	.277	3.8	5.9	7.0	9.9	12.1	14.0	17.1	123	137	146
•					•				80	.296	4.4	6.7	8.0	11.3	13.9	16.0	19.6	127	138	149
•						•			90	.317	4.9	7.5	9.0	12.7	15.6	18.0	22	120	133	140
•						•			100	.334	5.5	8.4	10.0	14.1	17.3	20	24	123	136	145
•						•			110	.350	6.0	9.2	11.0	15.6	19.1	22	27	125	138	148
•						•			120	.366	6.6	10.0	12.0	17.0	21	24	29	129	143	150
•						•			140	.395	7.7	11.7	14.0	19.8	24	28	34	118	127	135
•						•			160	.423	8.8	13.4	16.0	23	28	32	39	121	130	137
•						•			180	.448	9.9	15.1	18.0	25	31	36	44	124	133	139
•						•			210	.484	11.5	17.6	21	30	36	42	51	128	139	145
•							•		300	.579	16.4	25	30	42	52	60	73	110	128	135
•							•		450	.709	25	38	45	64	78	90	110	118	132	138

Highlighted column shows the rated pressure.



DIMENSIONS AND WEIGHTS



Nozzle	Nozzle Type	Conn. Size/Type (in.)	A (in.)	B (in.)	Hex. (in.)	Net Weight (oz.)
	K	1/8 male	1.281	0.734	7/16	0.5
		1/4 male	1.343	0.859	9/16	1
		3/8 male	1.750	1	11/16	2
		1/2 male	2.000	1.188	7/8	4
		3/4 male	2.563	1.563	1-1/2	14
		1 male	3.625	2.188	1-7/8	32
	11499	1/8 male	1.594	1.11	9/16	0.5
	13063	1/8 male	1.594	1.25	7/16	0.5

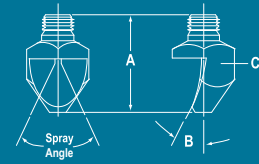
Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
NARROW ANGLE SPRAY: P

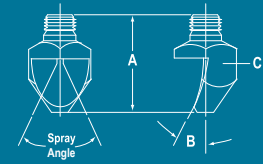


Spray Angle at 40 psi	Nozzle Type P	Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)						Spray Angle (°)			Dimensions			
		1/8	1/4	3/8	1/2	3/4			15 psi	20 psi	40 psi	80 psi	100 psi	150 psi	15 psi	40 psi	100 psi	A Length (in.)	B Deflection Angle (°)	C Bar Size (in. sq.)	Net Weight (oz.)
50°	•		•				05	.052	.31	.35	.50	.71	.79	.97	33	50	60	1-7/32	60	5/8	1
	•		•				10	.074	.61	.71	1.0	1.4	1.6	1.9	34	50	60	1-7/32	60	5/8	1
	•		•	•			25	.117	1.5	1.8	2.5	3.5	4.0	4.8	42	50	59	1-5/8	42	3/4	3
	•		•	•			40	.148	2.4	2.8	4.0	5.7	6.3	7.7	39	50	60	1-27/32	45	3/4	3
	•			•			60	.181	3.7	4.2	6.0	8.5	9.5	11.6	42	50	53	2-5/32	37	1	5
	•			•			100	.234	6.1	7.1	10.0	14.1	15.8	19.4	43	50	55	2-27/32	40	1-1/4	11.5
	•			•			125	.261	7.7	8.8	12.5	17.7	19.8	24	38	50	59	2-27/32	38	1-1/4	11
	•			•			160	.296	9.8	11.3	16.0	23	25	31	44	50	55	2-27/32	37	1-1/4	11
	•			•			200	.331	12.2	14.1	20	28	32	39	46	50	53	2-27/32	32	1-1/4	11
40°	•			•			40	.148	2.4	2.8	4.0	5.7	6.3	7.7	31	40	50	2-3/8	35	7/8	5
	•			•			50	.165	3.1	3.5	5.0	7.1	7.9	9.7	31	40	49	2-1/2	33	1	7
	•			•			60	.181	3.7	4.2	6.0	8.5	9.5	11.6	32	40	49	2-27/32	33	1	8
	•			•			70	.196	4.3	4.9	7.0	9.9	11.1	13.6	32	40	49	2-31/32	29	1	9
	•			•			80	.209	4.9	5.7	8.0	11.3	12.6	15.5	32	40	48	3-1/32	26	1	9
	•			•			90	.222	5.5	6.4	9.0	12.7	14.2	17.4	34	40	44	3-1/32	28	1	8
	•			•			100	.234	6.1	7.1	10.0	14.1	15.8	19.4	35	40	44	3-13/32	28	1	9
35°	•	•					04	.047	.24	.28	.40	.57	.63	.77	20	35	41	29/32	40	7/16	.5
	•		•				10	.074	.61	.71	1.0	1.4	1.6	1.9	18	35	39	1-7/16	36	5/8	2
	•		•	•			20	.105	1.2	1.4	2.0	2.8	3.2	3.9	24	35	40	1-21/32	30	3/4	2
	•			•			25	.117	1.5	1.8	2.5	3.5	4.0	4.8	24	35	39	1-15/16	28	3/4	3
	•			•			30	.128	1.8	2.1	3.0	4.2	4.7	5.8	26	35	41	2-1/16	28	3/4	3
	•			•			40	.148	2.4	2.8	4.0	5.7	6.3	7.7	28	35	38	2-9/32	26	7/8	4
	•			•			50	.165	3.1	3.5	5.0	7.1	7.9	9.7	31	35	38	2-1/2	23	7/8	5
	•				•		60	.181	3.7	4.2	6.0	8.5	9.5	11.6	29	35	39	2-7/8	27	1	8
	•				•		80	.209	4.9	5.7	8.0	11.3	12.6	15.5	26	35	40	3-3/16	24	1	9
	•				•		100	.234	6.1	7.1	10.0	14.1	15.8	19.4	26	35	40	3-1/2	19	1	9
	•					•	160	.296	9.8	11.3	16.0	23	25	31	26	35	40	4-1/2	23	1-1/4	20
	•					•	200	.331	12.2	14.1	20	28	32	39	25	35	40	4-13/16	22	1-1/4	20

Highlighted column shows the rated pressure.



PERFORMANCE DATA
NARROW ANGLE SPRAY: P



Spray Angle at 40 psi	Nozzle Type	Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)						Spray Angle (°)			Dimensions			
		1/8	1/4	3/8	1/2	3/4			15 psi	20 psi	40 psi	80 psi	100 psi	150 psi	15 psi	40 psi	100 psi	A Length (in.)	B Deflection Angle (°)	C Bar Size (in. sq.)	Net Weight (oz.)
25°	●		●				40	.148	2.4	2.8	4.0	5.7	6.3	7.7	15	25	34	2-9/16	25	3/4	4
	●		●				10	.074	–	.71	1.0	1.4	1.6	1.9	–	15	23	1-7/8	22	5/8	2
15°	●		●				20	.105	–	1.4	2.0	2.8	3.2	3.9	–	15	19	2-1/8	19	5/8	2
	●			●			30	.128	1.8	2.1	3.0	4.2	4.7	5.8	6	15	24	2-27/32	25	3/4	4
	●			●			40	.148	2.4	2.8	4.0	5.7	6.3	7.7	8	15	21	3-5/8	18	7/8	8
	●			●			50	.165	3.1	3.5	5.0	7.1	7.9	9.7	9	15	20	3-9/16	15	7/8	6
	●				●		60	.181	3.7	4.2	6.0	8.5	9.5	11.6	10	15	19	4-15/16	14	1	12
	●				●		80	.209	4.9	5.7	8.0	11.3	12.6	15.5	11	15	18	5-1/8	14	1	12
	●				●		100	.234	6.1	7.1	10.0	14.1	15.8	19.4	11	15	18	5-5/32	14	1	14
	●					●	200	.331	12.2	14.1	20	28	32	39	12	15	18	6-1/2	14	1-1/4	26

Highlighted column shows the rated pressure.

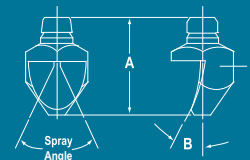
PERFORMANCE DATA
NARROW ANGLE SPRAY: 115220

Spray Angle at 40 psi	Nozzle Type	Conn. Size (in.)	Capacity Size	Equiv. Orifice Dia. (in.)	Flow Rate Capacity (gallons per minute)						Spray Angle (°)			Dimensions		
					15 psi	20 psi	40 psi	80 psi	100 psi	150 psi	15 psi	40 psi	100 psi	A Length (in.)	B Deflection Angle (°)	C Bar Size (in. sq.)
50°	●	●	20	.105	1.2	1.4	2.0	2.8	3.2	3.9	42	50	59	2-7/16	45	7/8
	●	●	30	.128	1.8	2.1	3.0	4.2	4.7	5.8	42	50	59	2-7/16	45	7/8
	●	●	40	.148	2.4	2.8	4.0	5.7	6.3	7.7	39	50	60	2-7/16	45	7/8
35°	●	●	20	.105	1.2	1.4	2.0	2.8	3.2	3.9	24	35	40	2-7/8	28	7/8
	●	●	30	.128	1.8	2.1	3.0	4.2	4.7	5.8	26	35	41	2-7/8	28	7/8
	●	●	40	.148	2.4	2.8	4.0	5.7	6.3	7.7	28	35	38	2-7/8	28	7/8

Highlighted column shows the rated pressure.



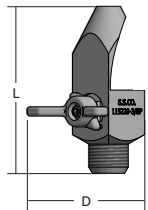
PERFORMANCE DATA
NARROW ANGLE SPRAY: QLPA



Spray Angle at 40 psi	Nozzle Type	Conn. Size (in.)		Capacity Size	Equiv. Orifice Dia. (in.)	Capacity (gallons per minute)								Spray Angle (°)			Dimensions			
		3/8	1/2			15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	15 psi	40 psi	100 psi	A Length (in.)	B Deflection Angle (°)	C Bar Size (in. sq.)	Net Weight (oz.)
50°	●	●	●	60	.181	3.7	4.2	5.2	6.0	7.3	8.5	9.5	11.6	42	50	53	3-3/16	37	1	8
				125	.261	7.7	8.8	10.8	12.5	15.3	17.7	19.8	24	38	50	59	3-7/8	38	1-1/4	8-1/2
35°	●	●	●	60	.181	3.7	4.2	5.2	6.0	7.3	8.5	9.5	11.6	29	35	39	3-7/8	27	1	8
				80	.209	4.9	5.7	6.9	8.0	9.8	11.3	12.6	15.5	26	35	40	4-3/16	24	1-1/4	8-1/2

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	D (Dia.) (in.)
	115220	3/8 male	2.86	2.01

Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: AX, BX

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
	AX	BX				3 psi	5 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	80 psi
1/8	●	●	.5	.031	.047	–	–	.05	.06	.07	.09	.10	.12	.14	.16	39	58	69
	●	●	1	.063	.063	–	–	.10	.12	.14	.17	.20	.24	.28	.32	41	64	76
	●	●	2	.078	.078	–	.14	.20	.24	.28	.35	.40	.49	.57	.63	52	61	69
	●	●	3	.094	.094	–	.21	.30	.37	.42	.52	.60	.73	.85	.95	52	64	77
	●	●	5	.125	.125	.27	.35	.50	.61	.71	.87	1.0	1.2	1.4	1.6	56	67	76
	●	●	8	.156	.156	.44	.57	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	56	65	70
	●	●	10	.172	.172	.55	.71	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	55	65	72
1/4	●	●	1	.063	.063	–	–	.10	.12	.14	.17	.20	.24	.28	.32	47	53	67
	●	●	2	.078	.078	–	–	.20	.24	.28	.35	.40	.49	.57	.63	56	62	71
	●	●	3	.094	.094	–	.21	.30	.37	.42	.52	.60	.73	.85	.95	51	65	78
	●	●	5	.141	.141	.27	.35	.50	.61	.71	.87	1.0	1.2	1.4	1.6	63	73	79
	●	●	8	.156	.156	.44	.57	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	61	69	73
	●	●	10	.188	.172	.55	.71	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	63	70	74
	●	●	15	.234	.203	.82	1.1	1.5	1.8	2.1	2.6	3.0	3.7	4.2	4.7	63	71	72
3/8	●	●	5	.140	.125	.27	.35	.50	.61	.71	.87	1.0	1.2	1.4	1.6	64	73	79
	●	●	8	.172	.156	.44	.57	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	62	70	74
	●	●	10	.203	.172	.55	.71	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	64	72	75
	●	●	15	.234	.219	.82	1.1	1.5	1.8	2.1	2.6	3.0	3.7	4.2	4.7	64	72	74
	●	●	20	.281	.250	1.1	1.4	2.0	2.4	2.8	3.5	4.0	4.9	5.7	6.3	63	70	74
	●	●	25	.297	.297	1.4	1.8	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	63	70	74
	●	●	30	.328	.313	1.6	2.1	3.0	3.7	4.2	5.2	6.0	7.3	8.5	9.5	63	70	74
1/2	●	●	25	.375	.250	1.4	1.8	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	63	66	71
	●	●	30	.375	.297	1.6	2.1	3.0	3.7	4.2	5.2	6.0	7.3	8.5	9.5	67	71	75
	●	●	40	.375	.359	2.2	2.8	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	72	76	78
	●	●	50	.375	.438	2.7	3.5	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	74	79	82
	●	●	60	.375	.516	3.3	4.2	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	77	82	86
3/4	●	●	40	.500	.297	2.2	2.8	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	70	73	74
	●	●	50	.500	.344	2.7	3.5	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	72	75	77
	●	●	60	.500	.406	3.3	4.2	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	74	76	79
	●	●	70	.500	.469	3.8	4.9	7.0	8.6	9.9	12.1	14.0	17.1	19.8	22	76	79	83
	●	●	80	.500	.531	4.4	5.7	8.0	9.8	11.3	13.9	16.0	19.6	23	25	78	82	84
	●	●	90	.500	.578	4.9	6.4	9.0	11.0	12.7	15.6	18.0	22	25	28	81	84	84
	●	●	100	.500	.625	5.5	7.1	10.0	12.2	14.1	17.3	20	24	28	32	83	86	86
	●	●	110	.500	.672	6.0	7.8	11.0	13.5	15.6	19.1	22	27	31	35	85	88	88
	●	●	120	.500	.719	6.6	8.5	12.0	14.7	17.0	21	24	29	34	38	87	90	90

Intermediate capacities: Caps are interchangeable for in-between capacities within each pipe size group. Request Data Sheets 3055, 3986 and 3987.
Spray dimension data: Request Data Sheets 15350 and 15362.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: CX

Conn. Size (in.)	Nozzle Type CX	Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)												Spray Angle (°)		
					3 psi	4 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	60 psi
1	●	7	.688	.453	4.6	5.3	5.9	7.0	8.4	10.2	11.8	14.5	16.7	20	24	26	64	65	66
	●	8	.688	.500	5.2	6.0	6.8	8.0	9.6	11.7	13.5	16.6	19.1	23	27	30	65	66	67
	●	9	.688	.563	5.9	6.8	7.6	9.0	10.8	13.2	15.2	18.6	22	26	30	34	66	67	69
	●	10	.688	.609	6.5	7.6	8.5	10.0	12.0	14.6	16.9	21	24	29	34	38	67	69	71
	●	12	.688	.672	7.9	9.1	10.1	12.0	14.3	17.6	20	25	29	35	41	45	70	73	75
	●	15	.688	.813	9.8	11.3	12.7	15.0	17.9	22	25	31	36	44	51	57	76	79	81
1-1/4	●	10	.844	.563	6.5	7.6	8.5	10.0	12.0	14.6	16.9	21	24	29	34	38	65	67	67
	●	12	.844	.641	7.9	9.1	10.1	12.0	14.3	17.6	20	25	29	35	41	45	68	70	71
	●	14	.844	.719	9.2	10.6	11.8	14.0	16.7	20	24	29	33	41	47	53	71	73	75
	●	16	.844	.797	10.5	12.1	13.5	16.0	19.1	23	27	33	38	47	54	60	74	75	77
	●	20	.844	.953	13.1	15.1	16.9	20	24	29	34	41	48	59	68	76	76	77	79
1-1/2	●	16	1.094	.688	10.5	12.1	13.5	16.0	19.1	23	27	33	38	47	54	60	64	67	69
	●	20	1.094	.859	13.1	15.1	16.9	20	24	29	34	41	48	59	68	76	69	72	74
	●	25	1.094	1.016	16.4	18.9	21	25	30	37	42	52	60	73	85	94	72	74	76
	●	30	1.094	1.125	19.6	23	25	30	36	44	51	62	72	88	101	113	74	76	78
2	●	30	1.438	.938	19.6	23	25	30	36	44	51	62	72	88	101	113	66	67	70
	●	35	1.438	1.063	23	26	30	35	42	51	59	72	84	102	118	132	68	70	73
	●	40	1.438	1.188	26	30	34	40	48	59	68	83	96	117	135	151	70	72	75
	●	45	1.438	1.297	29	34	38	45	54	66	76	93	108	132	152	170	72	74	78
	●	50	1.438	1.422	33	38	42	50	60	73	85	104	120	146	169	189	74	77	82
	●	60	1.438	1.563	39	45	51	60	72	88	101	124	143	176	203	227	77	79	84
2-1/2	●	60	1.875	1.422	39	45	51	60	72	88	101	124	143	176	203	227	67	68	71
	●	70	1.875	1.594	46	53	59	70	84	102	118	145	167	205	237	265	69	71	74
	●	80	1.875	1.734	52	60	68	80	96	117	135	166	191	234	270	302	71	73	77
	●	90	1.875	1.875	59	68	76	90	108	132	152	186	215	263	304	340	73	75	80
	●	100	1.875	2.000	65	76	85	100	120	146	169	207	239	293	338	378	77	79	83

Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: CF, CRC

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
	CF	CRC				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	60 psi
1-1/4		●	10-45	.844	.516	6.5	8.5	10.0	12.0	16.9	21	24	29	34	38	45	49	52
		●	12-45	.844	.563	7.9	10.1	12.0	14.3	20	25	29	35	41	45	45	49	51
		●	14-45	.844	.656	9.2	11.8	14.0	16.7	24	29	33	41	47	53	45	48	51
		●	16-45	.844	.750	10.5	13.5	16.0	19.1	27	33	38	47	54	60	45	48	50
		●	20-45	.844	.875	13.1	16.9	20	24	34	41	48	59	68	76	45	47	49
2		●	30-45	1.438	.938	19.6	25	30	36	51	62	72	88	101	113	45	49	52
		●	35-45	1.438	1.063	23	30	35	42	59	72	84	102	118	132	45	49	51
		●	40-45	1.438	1.188	26	34	40	48	68	83	96	117	135	151	45	48	50
		●	45-45	1.438	1.266	29	38	45	54	76	93	108	132	152	170	45	48	50
		●	50-45	1.438	1.375	33	42	50	60	85	104	120	146	169	189	45	47	49
3		●	55-45	1.438	1.453	36	46	55	66	93	114	131	161	186	208	45	47	49
		●	70	2.250	1.375	46	59	70	84	118	145	167	205	237	265	65	66	69
		●	85	2.250	1.578	56	72	85	102	144	176	203	249	287	321	67	68	71
		●	100	2.250	1.750	65	85	100	120	169	207	239	293	338	378	69	72	74
		●	120	2.250	2.063	79	101	120	143	203	248	287	351	406	454	71	73	77
		●	140	2.250	2.313	92	118	140	167	237	290	335	410	473	529	73	75	80
		●	70-45	2.250	1.375	46	59	70	84	118	145	167	205	237	265	45	49	52
		●	85-45	2.250	1.578	56	72	85	102	144	176	203	249	287	321	45	49	51
		●	100-45	2.250	1.750	65	85	100	120	169	207	239	293	338	378	45	48	51
		●	120-45	2.250	2.016	79	101	120	143	203	248	287	351	406	454	45	48	50
4		●	140-45	2.250	2.313	92	118	140	167	237	290	335	410	473	529	45	47	49
		●	150	3.125	2.000	98	127	150	179	254	311	359	439	507	567	66	67	70
		●	175	3.125	2.328	115	148	175	209	296	362	418	512	592	661	68	70	71
		●	200	3.125	2.688	131	169	200	239	338	414	478	586	676	756	70	72	74
		●	225	3.125	2.938	147	190	225	269	380	466	538	659	761	850	72	74	77
		●	250	3.125	3.250	164	211	250	299	423	518	598	732	845	945	74	76	81
		●	275	3.125	3.625	180	232	275	329	465	569	657	805	930	1039	78	80	83
		●	150-45	3.125	2.000	98	127	150	179	254	311	359	439	507	567	45	49	52
		●	175-45	3.125	2.328	115	148	175	209	296	362	418	512	592	661	45	49	51
		●	200-45	3.125	2.688	131	169	200	239	338	414	478	586	676	756	45	48	51
		●	225-45	3.125	2.938	147	190	225	269	380	466	538	659	761	850	45	48	50
6		●	250-45	3.125	3.250	164	211	250	299	423	518	598	732	845	945	45	47	49
		●	250	4.875	2.453	164	211	250	299	423	518	598	732	845	945	65	67	69
		●	300	4.875	2.750	196	254	300	359	507	621	717	878	1014	1134	66	68	70
		●	350	4.875	3.000	229	296	350	418	592	725	837	1025	1183	1323	68	70	72
		●	400	4.875	3.250	262	338	400	478	676	828	956	1171	1352	1512	70	73	75
		●	450	4.875	3.469	295	380	450	538	761	932	1076	1317	1521	1701	72	75	77
		●	500	4.875	3.828	327	423	500	598	845	1035	1195	1464	1690	1890	74	76	79
		●	550	4.875	4.266	360	465	550	657	930	1139	1315	1610	1859	2079	76	79	83
		●	625	4.875	5.125	409	528	625	747	1056	1294	1494	1830	2113	2362	78	81	86
		●	440-65	4.875	3.469	288	372	440	526	744	911	1052	1288	1487	1663	60	61	62
		●	550-65	4.875	4.266	360	465	550	657	930	1139	1315	1610	1859	2079	64	65	66
	●	625-65	4.875	5.125	409	528	625	747	1056	1294	1494	1830	2113	2362	65	66	67	



PERFORMANCE DATA

HOLLOW CONE
WHIRLJET® NOZZLES

STANDARD UNITS

PERFORMANCE DATA
STANDARD ANGLE SPRAY: D

Conn. Size (in.)	Nozzle Type D	Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)												Spray Angle (°)		
					3 psi	4 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	60 psi
1/2	●	3	.438	.313	2.0	2.3	2.5	3.0	3.6	4.4	5.1	6.2	7.2	8.8	10.1	11.3	62	65	67
	●	4	.438	.391	2.6	3.0	3.4	4.0	4.8	5.9	6.8	8.3	9.6	11.7	13.5	15.1	68	71	73
	●	5	.438	.469	3.3	3.8	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.6	16.9	18.9	74	77	80
	●	7	.438	.547	4.6	5.3	5.9	7.0	8.4	10.2	11.8	14.5	16.7	20	24	26	77	80	83
3/4	●	4	.563	.359	2.6	3.0	3.4	4.0	4.8	5.9	6.8	8.3	9.6	11.7	13.5	15.1	63	66	67
	●	5	.563	.422	3.3	3.8	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.6	16.9	18.9	67	69	70
	●	6	.563	.484	3.9	4.5	5.1	6.0	7.2	8.8	10.1	12.4	14.3	17.6	20	23	71	73	77
	●	7	.563	.547	4.6	5.3	5.9	7.0	8.4	10.2	11.8	14.5	16.7	20	24	26	73	75	80
	●	10	.563	.656	6.5	7.6	8.5	10.0	12.0	14.6	16.9	21	24	29	34	38	77	80	84

Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY: AP, LAP, LBP

Nozzle Type/ Conn. Size (in.)					Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)												Spray Angle (°)		
AP		LAP		LBP				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	80 psi		
1/4	3/8	3/8	1/2	3/8																		
●	●				2	.078	.078	–	.14	.17	.20	.28	.35	.40	.49	.57	.63	53	70	80		
●	●				2-3	.078	.094	–	.17	.20	.24	.34	.42	.48	.59	.68	.76	61	76	83		
●	●				2-5	.078	.109	–	.20	.23	.28	.40	.48	.56	.69	.79	.89	63	81	90		
●	●				2-8	.078	.141	–	.23	.28	.33	.47	.57	.66	.81	.93	1.0	71	87	95		
●	●				2-10	.078	.172	–	.25	.30	.36	.51	.62	.72	.88	1.0	1.1	72	94	104		
●	●				2-15	.078	.203	–	.28	.33	.39	.55	.68	.78	.96	1.1	1.2	77	100	111		
●	●				2-20	.078	.234	–	.31	.37	.44	.62	.76	.88	1.1	1.2	1.4	81	103	113		
●	●				3-2	.094	.078	–	.18	.22	.26	.37	.45	.52	.64	.74	.82	58	67	76		
●	●				3	.094	.094	–	.21	.23	.30	.43	.52	.60	.73	.85	.95	55	79	80		
●	●				3-5	.094	.109	–	.25	.30	.36	.51	.62	.72	.88	1.0	1.1	72	82	86		
●	●				3-8	.094	.141	–	.31	.37	.44	.62	.76	.88	1.1	1.2	1.4	73	88	92		
●	●				3-10	.094	.172	–	.34	.40	.48	.68	.83	.96	1.2	1.4	1.5	81	94	97		
●	●				3-15	.094	.203	–	.39	.46	.55	.78	.95	1.1	1.3	1.6	1.7	83	93	100		
●	●				3-20	.094	.234	–	.44	.52	.62	.88	1.1	1.2	1.5	1.8	2.0	90	100	107		
●	●				5-2	.141	.078	–	–	–	.36	.51	.62	.72	.88	1.0	1.1	49	61	67		
●	●				5-3	.141	.094	–	–	.34	.41	.58	.71	.82	1.0	1.2	1.3	57	68	69		
●	●				5	.141	.109	–	.35	.42	.50	.70	.86	1.0	1.2	1.4	1.6	70	75	79		
●	●				5-8	.141	.141	–	.42	.50	.60	.85	1.0	1.2	1.5	1.7	1.9	80	78	82		
●	●				5-10	.141	.172	–	.48	.56	.67	1.0	1.2	1.4	1.7	1.9	2.1	80	87	89		
●	●				5-15	.141	.203	–	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.6	83	91	95		
●	●				5-20	.141	.234	–	.61	.72	.86	1.2	1.5	1.7	2.1	2.4	2.7	88	98	102		
●	●				8-5	.172	.109	–	.42	.50	.60	.85	1.0	1.2	1.5	1.7	1.9	60	68	71		



PERFORMANCE DATA
STANDARD ANGLE SPRAY: AP, LAP, LBP

Nozzle Type/ Conn. Size (in.)					Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
AP		LAP		LBP				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	10 psi	20 psi	80 psi
1/4	3/8	3/8	1/2	3/8																
•	•				8	.172	.141	.44	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.5	65	72	74
•	•				8-10	.172	.172	.51	.66	.79	.94	1.3	1.6	1.9	2.3	2.7	3.0	73	81	81
•	•				8-15	.172	.203	.59	.76	.90	1.1	1.5	1.9	2.2	2.6	3.1	3.4	78	84	87
•	•				8-20	.172	.234	.65	.83	.99	1.2	1.7	2.0	2.4	2.9	3.3	3.7	84	89	92
•	•				10-5	.188	.109	–	–	.54	.65	.92	1.1	1.3	1.6	1.8	2.0	55	64	67
•	•				10-8	.188	.141	–	.61	.72	.86	1.2	1.5	1.7	2.1	2.4	2.7	60	64	66
•	•				10	.188	.172	.55	.72	.84	1.0	1.4	1.7	2.0	2.4	2.8	3.1	70	76	75
•	•				10-15	.188	.203	.67	.86	1.0	1.2	1.7	2.1	2.4	3.0	3.5	3.9	76	81	79
•	•				10-20	.188	.234	.75	1.0	1.2	1.4	2.0	2.4	2.8	3.5	3.9	4.4	78	85	98
•	•				15-5	.234	.109	–	–	–	.76	1.1	1.3	1.5	1.9	2.2	2.4	52	65	60
•	•				15-8	.234	.141	–	–	.85	1.0	1.4	1.8	2.0	2.5	2.9	3.2	55	68	64
•	•				15-10	.234	.172	–	.85	1.0	1.2	1.7	2.1	2.4	2.9	3.4	3.8	65	75	71
•	•				15	.234	.203	.82	1.1	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	70	72	75
•	•				15-20	.234	.234	.93	1.2	1.4	1.7	2.4	2.9	3.4	4.2	4.8	5.4	78	80	82
		•			20-5	.250	.125	–	–	–	.83	1.2	1.4	1.7	2.0	2.3	2.6	33	40	55
		•			20-8	.250	.172	–	–	.90	1.1	1.5	1.9	2.2	2.6	3.1	3.4	40	47	60
		•			20-10	.250	.188	–	.97	1.2	1.4	2.0	2.4	2.8	3.4	3.9	4.4	39	55	65
		•			20-15	.250	.234	.99	1.3	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	55	63	68
		•			20	.250	.250	1.1	1.4	1.7	2.0	2.8	3.5	4.0	4.9	5.6	6.3	59	66	70
		•			20-25	.250	.297	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	60	73	77
		•			20-40	.250	.359	1.6	2.0	2.4	2.9	4.0	5.0	5.7	7.0	8.1	9.0	80	82	86
		•			20-50	.250	.438	1.9	2.5	2.9	3.5	4.9	6.1	7.0	8.5	9.9	11.0	83	90	97
		•			20-60	.250	.516	2.2	2.8	3.3	4.0	5.7	6.9	8.0	9.8	11.3	12.6	86	94	99
		•			25-8	.281	.172	–	–	–	1.2	1.7	2.1	2.4	2.9	3.4	3.8	27	42	57
		•			25-10	.281	.188	.82	1.1	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	35	50	59
		•			25-15	.281	.234	1.0	1.3	1.6	1.9	2.7	3.3	3.8	4.6	5.3	6.0	44	57	64
		•			25-20	.281	.250	1.2	1.5	1.8	2.2	3.1	3.7	4.3	5.3	6.1	6.8	53	63	68
		•			25	.281	.297	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	60	70	74
		•			25-40	.281	.359	1.7	2.2	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	69	73	79
		•			25-50	.281	.438	2.1	2.8	3.3	3.9	5.5	6.8	7.8	9.6	11.0	12.3	76	81	85
		•			25-60	.281	.516	2.5	3.2	3.8	4.5	6.4	7.8	9.0	11.0	12.7	14.2	83	86	92
		•	•	•	40-8	.359	.172	–	–	–	1.5	2.2	2.7	3.1	3.7	4.3	4.8	30	41	48
		•	•	•	40-10	.359	.188	–	–	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	34	45	53
		•	•	•	40-15	.359	.234	1.3	1.7	2.0	2.4	3.4	4.2	4.9	5.9	6.9	7.7	44	48	57
		•	•	•	40-20	.359	.250	1.5	1.9	2.2	2.7	3.8	4.6	5.3	6.5	7.5	8.4	45	52	59
		•	•	•	40-25	.359	.297	1.8	2.3	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	48	56	61
		•	•	•	40	.359	.359	2.2	2.8	3.3	4.0	5.7	6.9	8.0	9.8	11.3	12.6	67	71	73
		•	•	•	40-50	.359	.438	2.8	3.6	4.2	5.0	7.1	8.7	10.0	12.3	14.1	15.9	68	80	84
		•	•	•	40-50.1	.359	.422	2.8	3.6	4.2	5.0	7.1	8.7	10.0	12.3	14.1	15.9	40	47	50
		•	•	•	40-60	.359	.516	3.3	4.2	5.0	6.0	8.4	10.3	11.9	14.6	16.7	18.9	80	86	90



PERFORMANCE DATA
STANDARD ANGLE SPRAY: BD

Conn. Size (in.)	Nozzle Type BD	Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)											Spray Angle (°)		
					3 psi	5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
3/8	●	2	.094	.078	.11	.14	.17	.20	.24	.28	.35	.40	.49	.57	.63	51	60	70
	●	3	.094	.094	.16	.21	.25	.30	.37	.42	.52	.60	.73	.85	.95	52	64	77
	●	5	.109	.125	.27	.35	.42	.50	.61	.71	.87	1.0	1.2	1.4	1.6	56	67	76
	●	8	.156	.156	.44	.57	.67	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	56	65	70
	●	10	.156	.172	.55	.71	.84	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	55	65	72
	●	20-10	.156*	.172	.99	4.0	1.1	1.4	1.7	1.9	2.4	2.7	3.3	3.8	4.3	61	65	67
1/2	●	5	.125	.141	.27	.35	.42	.50	.61	.71	.87	1.0	1.2	1.4	1.6	63	73	79
	●	8	.156	.156	.44	.57	.67	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	61	69	73
	●	10	.172	.172	.55	.71	.84	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	63	70	74
	●	15	.172*	.203	.82	1.1	1.3	1.5	1.8	2.1	2.6	3.0	3.7	4.2	4.7	60	67	70
	●	20	.188*	.234	1.1	1.4	1.7	2.0	2.4	2.8	3.5	4.0	4.9	5.7	6.3	63	65	69
	●	25	.203*	.281	1.4	1.8	2.1	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	59	63	68
3/4	●	5	.141	.125	.27	.35	.42	.50	.61	.71	.87	1.0	1.2	1.4	1.6	64	73	79
	●	8	.172	.156	.44	.57	.67	.80	.98	1.1	1.4	1.6	2.0	2.3	2.5	62	70	74
	●	10	.203	.172	.55	.71	.84	1.0	1.2	1.4	1.7	2.0	2.4	2.8	3.2	64	72	75
	●	15	.250	.219	.82	1.1	1.3	1.5	1.8	2.1	2.6	3.0	3.7	4.2	4.7	64	72	74
	●	20	.281	.250	1.1	1.4	1.7	2.0	2.4	2.8	3.5	4.0	4.9	5.7	6.3	63	70	74
	●	25	.281	.297	1.4	1.8	2.1	2.5	3.1	3.5	4.3	5.0	6.1	7.1	7.9	63	70	74
	●	50-50.3	.281*	.375	2.7	3.5	4.2	5.0	6.0	7.0	8.5	10.0	12.2	14.1	15.8	70	72	73
1-1/2	●	40	.375*	.313	2.2	2.8	3.3	4.0	4.9	5.7	6.9	8.0	9.8	11.3	12.6	70	73	74
	●	50	.375*	.375	2.7	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.2	14.1	15.8	72	75	77
	●	60	.375*	.438	3.3	4.2	5.0	6.0	7.3	8.5	10.4	12.0	14.7	17.0	19.0	74	76	79
	●	70	.375*	.500	3.8	4.9	5.9	7.0	8.6	9.9	12.1	14.0	17.1	19.8	22	76	79	83
	●	80	.375*	.563	4.4	5.7	6.7	8.0	9.8	11.3	13.9	16.0	19.6	23	25	78	82	84
	●	90	.375*	.578	4.9	6.4	7.5	9.0	11.0	12.7	15.6	18.0	22	25	28	81	84	84
	●	100	.375*	.625	5.5	7.1	8.4	10.0	12.2	14.1	17.3	20	24	28	32	83	86	86
	●	110	.375*	.672	6.0	7.8	9.2	11.0	13.5	15.6	19.1	22	27	31	35	85	88	88
	●	120	.375*	.719	6.6	8.5	10.0	12.0	14.7	17.0	21	24	29	34	38	87	90	90

*Dual inlets, each in diameter specified.

Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: BDM

Conn. Size (in.)	Nozzle Type	Capacity Size	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)								Spray Angle (°)		
				10 psi	20 psi	40 psi	100 psi	200 psi	300 psi	400 psi	500 psi	20 psi	100 psi	500 psi
3/8	●	2-0.5	.047	–	–	.16	.25	.36	.44	.51	.57	–	52	45
	●	2-1	.063	–	.16	.22	.36	.51	.62	.72	.80	53	65	50
	●	2	.078	.20	.28	.40	.63	.89	1.1	1.3	1.4	60	69	62
	●	3-2	.078	.22	.31	.44	.69	.98	1.2	1.4	1.6	57	68	58
	●	3	.094	.30	.42	.60	.95	1.3	1.6	1.9	2.1	64	75	64
	●	5	.125	.50	.71	1.0	1.6	2.2	2.7	3.2	3.5	73	78	72
	●	10-2	.078	.35	.49	.70	1.1	1.6	1.9	2.2	2.5	30	46	40
	●	20-10	.172	1.4	1.9	2.7	4.3	6.0	7.4	8.5	9.5	61	60	49

Maximum recommended operating pressure is 500 psi (34.5 bar).
Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.

PERFORMANCE DATA
WIDE ANGLE SPRAY: AX-W, BX-W

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
	AX-W	BX-W				5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	10 psi	20 psi	80 psi	
1/8	●	●	0.5-0.5W	.031	.047	–	–	.05	.06	.07	.09	.10	.12	.14	103	117	98	
	●	●	1-1W	.063	.063	–	–	.10	.12	.14	.17	.20	.25	.28	110	125	110	
	●	●	2-3W	.078	.109	–	.21	.25	.31	.35	.43	.50	.61	.71	114	114	97	
	●	●	3-3W	.094	.109	–	.25	.30	.37	.42	.52	.60	.73	.85	114	114	97	
	●	●	3-5W	.094	.125	–	.29	.34	.42	.48	.59	.68	.83	.96	116	110	95	
	●	●	2-10W	.078	.172	–	.35	.41	.51	.59	.72	.82	1.0	1.2	130	135	120	
	●	●	5-5W	.125	.125	–	.42	.50	.61	.71	.86	1.0	1.2	1.4	116	110	92	
	●	●	5-10W	.125	.172	.46	.54	.65	.80	.92	1.1	1.3	1.6	1.8	126	121	95	
	●	●	8-10W	.156	.172	.64	.75	.90	1.1	1.3	1.6	1.8	2.2	2.5	124	112	90	
1/4	●	●	1-1W	.063	.063	–	–	.10	.12	.14	.17	.20	.25	.28	110	117	111	
	●	●	1-5W	.063	.125	–	–	.17	.21	.24	.29	.34	.42	.48	100	123	124	
	●	●	1-10W	.063	.172	–	–	.21	.26	.30	.36	.42	.51	.60	140	144	139	
	●	●	1-15W	.063	.219	–	–	.24	.29	.34	.42	.48	.59	.68	105	128	132	
	●	●	2-5W	.078	.125	–	.29	.34	.42	.49	.60	.68	.84	.89	118	123	113	
	●	●	2-10W	.078	.172	–	.35	.41	.51	.59	.72	.82	1.0	1.2	138	136	126	
	●	●	5-5W	.141	.125	–	.42	.50	.61	.71	.86	1.0	1.2	1.4	114	113	104	
	●	●	5-10W	.141	.172	.46	.54	.65	.80	.92	1.1	1.3	1.6	1.8	130	130	119	
	●	●	5-15W	.141	.219	.52	.64	.77	.94	1.1	1.3	1.5	1.8	2.2	130	132	120	
	●	●	8-10W	.156	.172	.64	.75	.90	1.1	1.3	1.6	1.8	2.2	2.5	129	122	103	
	●	●	10-10W	.188	.172	.71	.84	1.0	1.2	1.4	1.7	2.0	2.5	2.8	120	108	95	
	●	●	8-15W	.156	.219	.78	.92	1.1	1.4	1.6	1.9	2.2	2.7	3.1	129	122	107	
	●	●	10-15W	.188	.219	.86	1.0	1.2	1.5	1.7	2.1	2.4	3.0	3.4	120	108	97	
	●	●	15-15W	.234	.219	1.1	1.3	1.5	1.8	2.1	2.6	3.0	3.7	4.2	101	95	88	
3/8	●	●	5-10W	.141	.172	.46	.54	.65	.80	.92	1.1	1.3	1.6	1.8	130	123	102	
	●	●	5-15W	.141	.219	.52	.64	.77	.94	1.1	1.3	1.5	1.8	2.2	138	131	112	
	●	●	8-10W	.172	.172	.64	.75	.90	1.1	1.3	1.6	1.8	2.2	2.5	122	110	96	
	●	●	10-10W	.203	.172	.71	.84	1.0	1.2	1.4	1.7	2.0	2.5	2.8	116	108	93	
	●	●	8-15W	.172	.219	.78	.92	1.1	1.4	1.6	1.9	2.2	2.7	3.1	133	120	105	
	●	●	10-15W	.203	.219	.86	1.0	1.2	1.5	1.7	2.1	2.4	3.0	3.4	126	115	100	
	●	●	8-25W	.172	.297	.92	1.1	1.3	1.6	1.9	2.3	2.6	3.2	3.7	122	118	109	
	●	●	10-20W	.203	.234	.97	1.1	1.4	1.7	1.9	2.4	2.7	3.3	3.9	118	112	102	
	●	●	15-15W	.234	.219	1.1	1.3	1.5	1.8	2.1	2.6	3.0	3.7	4.2	116	106	95	
	●	●	15-20W	.234	.234	1.2	1.5	1.7	2.1	2.5	3.0	3.5	4.3	4.9	113	108	98	
	●	●	20-20W	.281	.234	1.4	1.7	2.0	2.4	2.8	3.5	4.0	4.9	5.6	106	102	95	
	●	●	15-30W	.234	.313	1.6	1.8	2.2	2.7	3.1	3.8	4.4	5.4	6.2	116	110	102	
	●	●	25-25W	.297	.297	1.8	2.1	2.5	3.1	3.5	4.3	5.0	6.1	7.1	105	100	93	
1/2	●	●	25-30W	.297	.313	2.0	2.3	2.8	3.4	4.0	4.9	5.6	6.9	7.9	105	101	94	
	●	●	50-50W	.375	.438	3.5	4.2	5.0	6.1	7.1	8.6	10.0	12.3	14.2	110	102	93	

Intermediate capacities: Caps are interchangeable for in-between capacities within each pipe size group. Request Data Sheets 3055, 3986 and 3987.
Spray dimension data: Request Data Sheets 15350 and 15362.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
WIDE ANGLE SPRAY: LAP-W, LBP-W

Nozzle Type/ Conn. Size (in.)			Capacity Size	Inlet Dia. Nom. (in.)	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)		
LAP-W		LBP-W				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
3/8	1/2	3/8																
●			20-8W	.250	.172	–	–	.90	1.1	1.5	1.9	2.2	2.6	3.1	3.4	99	96	86
●			20-10W	.250	.188	–	.94	1.2	1.4	2.0	2.4	2.8	3.4	3.9	4.4	101	98	88
●			20-15W	.250	.219	.99	1.3	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	104	100	91
●			20-20W	.250	.250	1.1	1.4	1.7	2.0	2.8	3.5	4.0	4.9	5.6	6.3	106	101	93
●			20-25W	.250	.281	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	109	104	95
●			20-40W	.250	.344	1.6	2.0	2.4	2.9	4.0	5.0	5.7	7.0	8.1	9.0	110	107	98
●			20-50W	.250	.406	1.9	2.5	2.9	3.5	4.9	6.1	7.0	8.5	9.9	11.0	111	108	100
●			25-8W	.281	.172	–	–	–	1.2	1.7	2.1	2.4	2.9	3.4	3.8	–	89	78
●			25-10W	.281	.188	–	–	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	100	92	81
●			25-15W	.281	.219	–	1.3	1.6	1.9	2.7	3.3	3.8	4.6	5.3	6.0	102	96	85
●			25-20W	.281	.250	1.2	1.5	1.8	2.2	3.1	3.7	4.3	5.3	6.1	6.8	104	99	88
●			25-25W	.281	.281	1.4	1.8	2.1	2.5	3.5	4.3	5.0	6.2	7.1	7.9	107	102	91
●			25-40W	.281	.344	1.7	2.2	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	109	105	94
●			25-50W	.281	.406	2.1	2.8	3.3	3.9	5.5	6.8	7.8	9.6	11.0	12.3	110	108	99
●	●	●	40-10W	.359	.188	–	–	1.5	1.8	2.5	3.1	3.6	4.4	5.1	5.7	95	85	80
●	●	●	40-15W	.359	.219	1.3	1.7	2.0	2.4	3.4	4.2	4.9	5.9	6.9	7.7	97	88	82
●	●	●	40-20W	.359	.250	1.5	1.9	2.2	2.7	3.8	4.6	5.3	6.5	7.5	8.4	100	94	88
●	●	●	40-25W	.359	.281	1.8	2.3	2.7	3.2	4.5	5.5	6.4	7.8	9.0	10.1	103	97	91
●	●	●	40-40W	.359	.344	2.2	2.8	3.3	4.0	5.7	6.9	8.0	9.8	11.3	12.6	106	99	93
●	●	●	40-50W	.359	.406	2.8	3.6	4.2	5.0	7.1	8.7	10.0	12.3	14.1	15.9	109	101	96

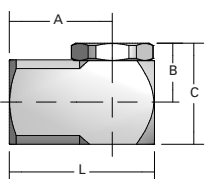
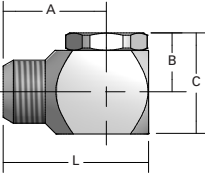
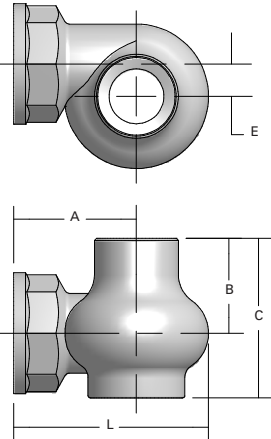
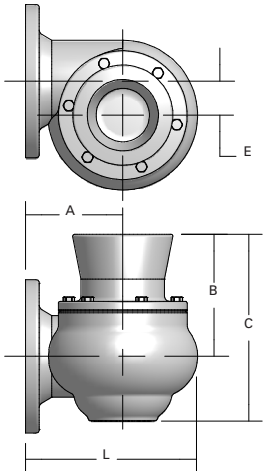
Highlighted column shows the rated pressure.

PLACING YOUR ORDER

**Call your local spray expert for
application assistance or to place an order.**



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
	AX AX-W	1/8 female	1.000	0.688	0.469	0.781	–	1.5
		1/4 female	1.250	0.875	0.531	0.906	–	2.8
		3/8 female	1.469	1.031	0.688	1.125	–	4.3
		1/2 female	1.938	1.375	0.844	1.565	–	8.8
		3/4 female	2.188	1.375	1.563	1.250	–	11
	BX BX-W	1/8 male	1.188	0.875	0.652	1.375	–	1.5
		1/4 male	1.375	1.000	0.531	1.563	–	2.5
		3/8 male	1.563	1.125	0.688	1.563	–	4
		1/2 male	1.938	1.375	0.844	1.938	–	7
		3/4 male	2.250	1.625	1.563	1.250	–	10.8
	CX	1 female	2.625	1.750	1.250	1.844	0.348	11
		1-1/4 female	3.063	2.063	1.313	2.188	0.438	20
		1-1/2 female	3.688	2.438	1.500	2.875	0.563	28
		2 female	4.531	3.688	2.109	3.688	0.719	48
		2-1/2 female	5.531	3.500	2.688	4.500	0.469	68
	CF	4 Flange	8.250	4.406	9.250	12.375	1.563	114
		6 Flange	12.250	6.875	8.688	13.313	2.438	126

Based on the largest/heaviest version of each type.

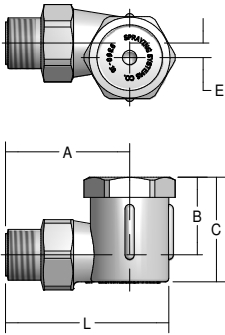
DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
	CRC	1-1/4 female	3.406	2.125	2.094	3.063	0.406	36
		2 female	4.844	3.188	3.063	4.656	0.719	80
		3 female	6.938	4.438	5.938	8.406	1.125	19
		4 female	9.000	5.563	9.125	12.250	1.563	40
	D	1/2 male	2.313	1.750	0.719	1.313	0.250	5
		3/4 male	2.719	2.000	0.938	1.656	0.313	7.5
	AP AP-W	1/4 female	1.438	1.000	0.866	1.157	0.156	0.4
		3/8 female	1.469	1.094	0.866	1.157	0.156	0.4
	LAP LAP-W	3/8 female	1.906	1.281	1.182	1.596	0.192	0.6
		1/2 female	2.031	1.406	1.182	1.596	0.192	0.8

Based on the largest/heaviest version of each type.

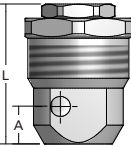
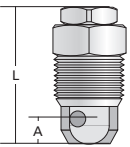


DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	A (in.)	B (in.)	C (in.)	E (in.)	Net Weight (oz.)
	LBP LBP-W	3/8 male	2.094	1.563	1.236	1.596	0.192	.6

Based on the largest/heaviest version of each type.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (in.)	Hex. (in.)	A (in.)	Net Weight (oz.)
	BD	3/8 male	1.250	11/16	.266	1
		1/2 male	1.469	7/8	.311	2
		3/4 male	1.750	1-1/16	.375	4
		1-1/2 male	2.625	2	.311	21
	BDM	3/8 male	0.281	11/16	.266	.5

Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

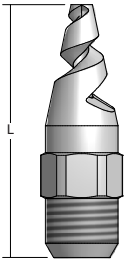
Call your local spray expert for application assistance or to place an order.

S PERFORMANCE DATA
STANDARD ANGLE SPRAY

Conn. Size (in.)	Nozzle Type	Spray Angle at 10 psi					Capacity Size	Orifice Dia. Nom. (in.)	Max. Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)					
		BSJ	50°	60°	90°	120°				180°	5 psi	10 psi	20 psi	40 psi	100 psi
1/4	•	•	•	•	•		07	.094	.094	.49	.70	.99	1.4	2.2	4.4
	•	•	•	•	•	•	13	.125	.125	.92	1.3	1.8	2.6	4.1	8.2
	•	•	•	•	•	•	20	.156	.125	1.4	2.0	2.8	4.0	6.3	12.6
3/8	•	•	•	•	•	•	30	.188	.125	2.1	3.0	4.2	6.0	9.5	19.0
	•	•	•	•	•	•	40	.219	.125	2.8	4.0	5.7	8.0	12.6	25
	•	•	•	•	•	•	53	.250	.125	3.7	5.3	7.5	10.6	16.8	34
	•	•	•	•	•	•	82	.313	.125	5.8	8.2	11.6	16.4	26	52
1/2	•	•	•	•	•	•	120	.375	.188	8.5	12.0	17.0	24	38	76
	•	•	•	•	•	•	164	.438	.188	11.6	16.4	23	33	52	104
3/4	•	•	•	•	•	•	210	.500	.188	14.8	21	30	42	66	133
1	•		•	•	•	•	340	.625	.250	24	34	48	68	108	215
	•		•	•	•	•	470	.750	.250	33	47	66	94	149	297
1-1/2	•		•	•	•	•	640	.875	.313	45	64	91	128	202	405
	•		•	•	•	•	820	1.000	.313	58	82	116	164	259	519
	•		•	•	•	•	960	1.125	.313	68	96	136	192	304	607
2	•		•	•	•	•	1400	1.375	.438	99	140	198	280	443	885
	•		•	•	•	•	1780	1.500	.438	126	178	252	356	563	1126

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging. For all 1/4" and 3/8" connections, optimum spray angle is achieved at 40 psi (2.8 bar).
*Maximum operating pressure depends on material, size and application. Contact your local sales engineer for specific recommendations.
Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size (in.)	L (in.)	Hex. / flats (in.)	Net Weight (oz.)
	BSJ (M)	1/4	1.875	9/16	1
		3/8	1.875	11/16	1.8
		1/2	2.500	7/8	3
		3/4	2.750	1-1/16	5
		1	3.625	1-3/8	11
		1-1/2	4.375	2	27
		2	6.875	2-1/2	48

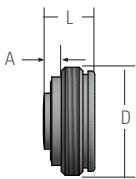
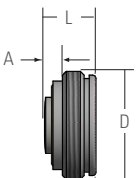
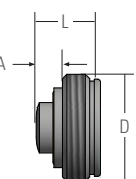
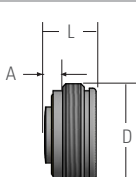
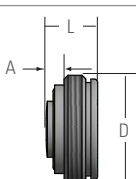
Based on the largest/heaviest version of each type.

PERFORMANCE DATA
SOLID STREAM SPRAY: 73196, 73327, 37337, 38553, 39468

Spray Angle at 60 bar	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
			1.5 bar	3.0 bar	7.0 bar	20 bar	55 bar
0° (solid stream)	00003	.38	.08	.12	.18	.31	.49
	00005	.51	.14	.20	.30	.51	.85
	00008	.64	.23	.32	.48	.82	1.4
	00011	.76	.39	.55	.84	1.40	2.4
	00015	.89	.50	.71	1.09	1.80	3.1
	00020	1.02	.64	.91	1.40	2.30	3.9
	00025	1.14	.78	1.11	1.70	2.85	4.8

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Thread Size	L (mm)	A (mm)	D (Dia.) (mm)
	73196-A	1-3/16"-18 or M30 x 1.5	16.8	6.9	30.2
	73196-B		16.0	6.1	
	73196-C		18.5	8.6	
	73196-D		12.2	5.3	
	73327-A	1-1/4"-18 or M32 x 1.5	16.8	6.9	31.8
	73327-B		16.0	6.1	
	73327-C		18.5	8.6	
	73327-D		15.2	5.3	
	39468-A	1-3/16"-18 or M30 x 1.5	19.3	6.9	30.2
	39468-B		18.5	6.1	
	39468-C		21.1	8.6	
	39468-D		17.8	5.3	
	37337-A	1-3/16"-18 or M30 x 1.5	16.8	6.9	30.2
	37337-B		16.0	6.1	
	37337-C		18.5	8.6	
	37337-D		15.2	5.3	
	38553-A	1-1/4"-18 or M32 x 1.5	16.8	6.9	51.8
	38553-B		16.0	6.1	
	38553-C		18.5	8.6	
	38553-D		15.2	5.3	

PERFORMANCE DATA
FLAT SPRAY: 27149

Spray Angle at 4.0 bar	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
	27149			1.5 bar	3.0 bar	7.0 bar	20 bar	55 bar
75°	•	7502	1.0	.64	.91	1.4	2.3	3.9
	•	7503	1.2	.92	1.3	2.0	3.4	5.6
	•	7504	1.5	1.2	1.7	2.6	4.4	7.3
	•	7506	1.8	1.7	2.4	3.7	6.2	10.3
	•	7508	2.0	2.2	3.1	4.8	8.1	13.4
	•	7510	2.2	2.8	4.0	6.2	10.4	17.2
	•	7512	2.5	3.5	4.9	7.5	12.6	21
	•	7516	2.8	4.5	6.3	9.7	16.4	27
	•	7520	3.0	5.5	7.8	11.9	20	33
	•	7525	3.5	7.2	10.1	15.5	26	43
	•	7531	4.0	8.8	12.4	18.9	32	53
	•	7540	4.5	11.3	15.9	24	41	68
	•	7549	5.0	13.7	19.4	30	50	83
	•	7578	6.0	22	31	48	81	133
	•	7599	7.0	28	39	60	101	167
	•	75124	8.0	35	49	75	126	210
60°	•	6002	1.0	.64	.91	1.4	2.3	3.9
	•	6003	1.2	.92	1.3	2.0	3.4	5.6
	•	6004	1.5	1.2	1.7	2.6	4.4	7.3
	•	6006	1.8	1.7	2.4	3.7	6.2	10.3
	•	6008	2.0	2.2	3.1	4.8	8.1	13.4
	•	6010	2.2	2.8	4.0	6.2	10.4	17.2
	•	6012	2.5	3.5	4.9	7.5	12.6	21
	•	6016	2.8	4.5	6.3	9.7	16.4	27
	•	6020	3.0	5.5	7.8	11.9	20	33
	•	6025	3.5	7.2	10.1	15.5	26	43
	•	6031	4.0	8.8	12.4	18.9	32	53
	•	6040	4.5	11.3	15.9	24	41	68
	•	6049	5.0	13.7	19.4	30	50	83
	•	6064	5.5	17.0	24.2	38.2	61	108
	•	6078	6.0	22	31	47	80	133
	•	6099	7.0	28	39	60	101	167
•	60124	8.0	35	49	75	126	210	
45°	•	4502	1.0	.64	.91	1.4	2.3	3.9
	•	4503	1.2	.92	1.3	2	3.4	5.6
	•	4504	1.5	1.2	1.7	2.6	4.4	7.3
	•	4506	1.8	1.7	2.4	3.7	6.2	10.3
	•	4508	2.0	2.2	3.1	4.8	8.1	13.4
	•	4510	2.2	2.8	4.0	6.2	10.4	17.2

Highlighted column shows the rated pressure.



PERFORMANCE DATA
FLAT SPRAY: 27149

Spray Angle at 4.0 bar	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
	27149			1.5 bar	3.0 bar	7.0 bar	20 bar	55 bar
45°	•	4512	2.5	3.5	4.9	7.5	12.6	21
	•	4516	2.8	4.5	6.3	9.7	16.4	27
	•	4520	3.0	5.5	7.8	11.9	20	33
	•	4525	3.5	7.2	10.1	15.5	26	43
	•	4531	4.0	8.8	12.4	18.9	32	53
	•	4540	4.5	11.3	15.9	24	41	68
	•	4549	5.0	13.7	19.4	30	50	83
	•	4578	6.0	22	31	48	81	135
	•	4599	7.0	28	39	60	101	167
	•	45124	8.0	35	49	75	126	210
30°	•	3002	1.0	.64	.91	1.4	2.3	3.9
	•	3003	1.2	.92	1.3	2.0	3.4	5.6
	•	3004	1.5	1.2	1.7	2.6	4.4	7.3
	•	3006	1.8	1.7	2.4	3.7	6.2	10.3
	•	3008	2.0	2.2	3.1	4.8	8.1	13.4
	•	3010	2.2	2.8	4.0	6.2	10.4	17.2
	•	3012	2.5	3.5	4.9	7.5	12.6	21
	•	3016	2.8	4.5	6.3	9.7	16.4	27
	•	3020	3.0	5.5	7.8	11.9	20	33
	•	3025	3.5	7.2	10.1	15.5	26	43
	•	3031	4.0	8.8	12.4	18.9	32	53
	•	3040	4.5	11.3	15.9	24	41	68
	•	3049	5.0	13.7	19.4	30	50	83
	•	3078	6.0	22	31	48	81	135
•	3099	7.0	28	39	60	101	167	
•	30124	8.0	35	49	75	126	210	
15°	•	1502	1.0	.64	.91	1.4	2.3	3.9
	•	1503	1.2	.92	1.3	2.0	3.4	5.6
	•	1504	1.5	1.2	1.7	2.6	4.4	7.3
	•	1506	1.8	1.7	2.4	3.7	6.2	10.3
	•	1508	2.0	2.2	3.1	4.8	8.1	13.4
	•	1510	2.2	2.8	4.0	6.2	10.4	17.2
	•	1512	2.5	3.5	4.9	7.5	12.6	21
	•	1516	2.8	4.5	6.3	9.7	16.4	27
	•	1520	3.0	5.5	7.8	11.9	20	33
	•	1525	3.5	7.2	10.1	15.5	26	43
	•	1531	4.0	8.8	12.4	18.9	32	53
	•	1540	4.5	11.3	15.9	24	41	68

Highlighted column shows the rated pressure.



**PERFORMANCE DATA
FLAT SPRAY: 27149**

Spray Angle at 4.0 bar	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
	27149			1.5 bar	3.0 bar	7.0 bar	20 bar	55 bar
15°	•	1549	5.0	13.7	19.4	30	50	83
	•	1578	6.0	22	31	48	81	135
	•	1599	7.0	28	39	60	101	167
	•	15124	8.0	35	49	75	126	210
0° (solid stream)	•	00004	.3	.11	.16	.24	.41	.68
	•	00007	.4	.20	.28	.42	.71	1.2
	•	00009	.5	.25	.36	.54	.92	1.5
	•	0001	.6	.36	.51	.78	1.3	2.2
	•	00015	.89	.40	.57	.90	1.4	2.5
	•	0002	1.0	.64	.91	1.4	2.3	3.9
	•	0003	1.2	.92	1.3	2.0	3.4	5.6
	•	0004	1.5	1.2	1.7	2.6	4.4	7.3
	•	0006	1.8	1.7	2.4	3.7	6.2	10.3
	•	0008	1.9	2.2	3.1	4.8	8.1	13.4
	•	0010	2.2	2.8	4.0	6.2	10.4	17.2
	•	0012	2.4	3.5	4.9	7.5	12.6	21
	•	0020	3.2	5.5	7.8	11.9	20	33

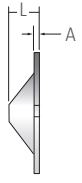
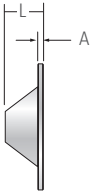


Highlighted column shows the rated pressure.

**PERFORMANCE DATA
SOLID STREAM SPRAY: 39350, 48546, 50790, 39485**

Spray Angle at 40 bar	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
			1.5 bar	3.0 bar	7.0 bar	20 bar	55 bar
0° (solid stream)	00003	.38	.08	.12	.18	.31	.49
	00005	.51	.14	.20	.30	.51	.85
	00008	.64	.23	.32	.48	.82	1.4
	00011	.76	.39	.55	.84	1.40	2.4
	00015	.89	.50	.71	1.09	1.80	3.1
	00020	1.02	.64	.91	1.40	2.30	3.9
	00025	1.14	.78	1.11	1.70	2.85	4.8

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	L (mm)	D (Dia.) (mm)	Thickness A (mm)
	27149	7.1 (max)	26.6	1.1
	39350 and 48546	8.1	25.9	1.1
	50790	5.6	26.4	1.5
	50790-1	5.6	26.6	1.5
	39485	5.6	26.6	1.5

All ShowerJet nozzles are installed with a standard gasket which is included, CP28624-001.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

PERFORMANCE DATA
SOLID STREAM: 48460, 19124, P36503, 56740, 48277, 21280, 39458, 22812, 20094

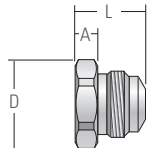
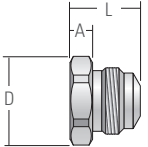
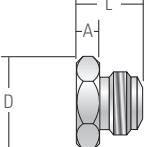
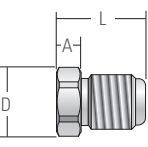
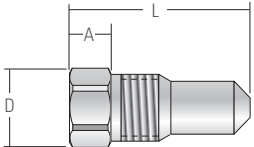
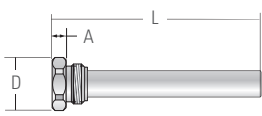
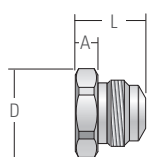
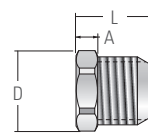
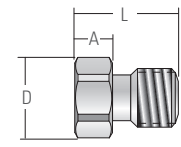
Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								
		3.0 bar	4.0 bar	5.0 bar	7.0 bar	15.0 bar	30 bar	40 bar	50 bar	60 bar
14	.36	.12	.13	.15	.17	.25	.37	.42	.47	.51
28	.71	.42	.48	.54	.63	.93	1.3	1.5	1.7	1.9
33	.84	.62	.73	.81	.95	1.4	2.0	2.4	2.7	2.9
40	1.02	.89	1.0	1.1	1.4	2.0	2.8	3.2	3.6	3.9
55	1.4	1.6	1.9	2.1	2.4	3.6	5.0	5.8	6.5	7.0
70	1.78	2.7	3.1	3.5	4.2	6.1	8.8	10.0	11.0	13.0
94	2.39	4.5	5.2	5.9	7.0	10.0	15.0	18.0	20	22
125	3.18	7.3	8.5	9.6	11.0	17.0	25	30	33	37

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

METRIC UNITS

DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	L (mm)	A (mm)	Hex. (mm)	D (Dia.) (mm)
	48460	9/16"-24 NEF	14.1	4.0	17.5	19.1
	19124	9/16"-24 NEF	14.1	4.9	6.4	19.1
	P36503	1/4 BSPP	14.1	4.9	17.5	19.1
	56740	1/8 BSPP	16.8	4.3	11.1	12.3
	48277	1/8	28.6	6.4	11.1	12.3
	21280	9/16"-24 NEF	Varies	4.9	17.5	19.1
	39458	9/16"-24 NEF	Varies	4.9	17.5	19.1
	22812	1/8	11.2	3.3	11.1	12.3
	20094	1/4"-28 UNF	11.2	4.1	7.9	8.7

PERFORMANCE DATA
SOLID STREAM SPRAY: DK, DJ, 48284, 25834

Spray Angle at 3.0 bar	Nozzle Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)							
	DK	DJ	25834	48284			1.0 bar	2.0 bar	3.0 bar	4.0 bar	5.0 bar	6.0 bar	7.0 bar	10.0 bar
110°		•			11006	–	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.3
95°		•			9504	–	.91	1.3	1.6	1.8	2	2.2	2.4	2.9
90°	•	•			9001	–	.23	.32	.39	.46	.51	.56	.6	.72
	•	•			90016	.79	.36	.52	.63	.73	.82	.89	.96	1.2
	•	•			90026	–	.59	.84	1.03	1.2	1.33	1.5	1.6	1.88
	•	•			90054	1.6	1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9
	•	•			9013	2.4	3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4
	•	•			9024	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
80°	•	•			80032	1.2	.73	1.0	1.3	1.5	1.6	1.8	1.9	2.3
	•	•			80054	1.6	1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9
	•	•			8008	1.9	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8
	•	•			80084	1.9	1.9	2.7	3.3	3.8	4.3	4.7	5.1	6.1
	•	•			8013	2.4	3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4
	•	•			8024	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
	•	•			8033	4.0	7.5	10.6	13.0	15.0	16.8	18.4	19.9	24
	•	•			8035	–	8.0	11.3	13.8	16.0	17.9	19.6	21.1	25.2
70°	•	•			8054	4.7	12.3	17.4	21.3	25	28	30.2	33	39
	•	•			70023	1.0	.52	.74	.91	1.0	1.2	1.3	1.4	1.5
68°	•	•			6824	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
	•	•			6840	–	9.1	12.9	15.8	18.2	20	22	24	29
	•	•			6870	5.5	16.0	23	28	32	36	39	42	50
65°	•	•			650050	–	.11	.16	.2	.23	.25	.28	.3	.36
	•	•			65054	1.6	1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9
	•	•			6513	2.4	3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4
	•	•			6519	2.8	4.3	6.1	7.5	8.7	9.7	10.6	11.5	13.7
	•	•			6533	4.0	7.5	10.6	13.0	15.0	16.8	18.4	19.9	24
	•	•			6550	4.7	11.4	16.1	19.7	23	25	28	30	36
	•	•			6570	5.5	16.0	23	28	32	36	39	42	50
	•	•			6585	–	19.4	27	34	39	43	47	51	61
60°	•	•			60054	1.6	1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9
	•	•			5824	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
58°	•	•			5833	4.0	7.5	10.6	13.0	15.0	16.8	18.4	19.9	24
	•	•			55054	1.6	1.2	1.7	2.1	2.5	2.8	3.0	3.3	3.9
55°	•	•			5508	1.9	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8
	•	•			50033	1.2	.75	1.1	1.3	1.5	1.7	1.8	2.0	2.4
50°	•	•			50084	–	1.9	2.7	3.3	3.8	4.3	4.7	5.1	6.1
	•	•			5013	–	3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4
	•	•			5024	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
	•	•												

Highlighted column shows the rated pressure.



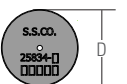
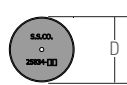


PERFORMANCE DATA
SOLID STREAM SPRAY: DK, DJ, 48284, 25834

Spray Angle at 3.0 bar	Nozzle Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)							
	DK	DJ	25834	48284			1.0 bar	2.0 bar	3.0 bar	4.0 bar	5.0 bar	6.0 bar	7.0 bar	10.0 bar
50°	•	•			5033	4.0	7.5	10.6	13.0	15.0	16.8	18.4	19.9	24
	•	•			5037	—	8.4	11.9	14.6	16.9	18.9	21	22	27
	•	•			5040	—	9.1	12.9	15.8	18.2	20	22	24	29
	•	•			5050	—	11.4	16.1	19.7	23	25	28	30	36
43°	•	•			4308	1.9	1.8	2.6	3.2	3.6	4.1	4.5	4.8	5.8
	•	•			4313	2.4	3	4.2	5.1	5.9	6.6	7.3	7.8	9.4
40°	•	•			4024	—	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
	•	•			4047	4.7	10.7	15.1	18.6	21	24	26	28	34
	•	•			4070	5.5	16.0	23	28	32	36	39	42	50
	•	•			4085	6.4	19.4	27	34	39	43	47	51	61
	•	•			4086	—	19.6	28	34	39.2	44	48	52	62
35°	•	•			3513	—	3.0	4.2	5.1	5.9	6.6	7.3	7.8	9.4
	•	•			3580	6.4	18.2	26	32	36	41	45	48	58
25°	•	•			2510	—	2.3	3.2	3.9	4.6	5.1	5.6	6	7.2
	•	•			2524	3.2	5.5	7.7	9.5	10.9	12.2	13.4	14.5	17.3
0° (solid stream)	•	•	•	•	00012	.025	.27	.39	.47	.55	.61	.67	.72	.86
	•	•	•	•	00015	.031	.34	.48	.59	.68	.76	.83	.90	1.08
	•	•	•	•	00016	.034	.37	.52	.63	.73	.82	.89	1.0	1.2
	•	•	•	•	00023	.040	.50	.70	.90	1.1	1.2	1.3	1.4	1.6
	•	•	•	•	00051	.060	1.2	1.6	2.0	2.3	2.6	2.9	3.1	3.7
	•	•	•	•	0006	.065	1.4	1.9	2.4	2.8	3.1	3.4	3.6	4.3
	•	•	•	•	0008	.070	1.8	2.6	3.2	3.7	4.1	4.5	4.8	5.8
	•	•	•	•	0024	.125	5.5	7.5	9.5	10.5	12.2	13.4	14.5	17.3
	•	•	•	•	0033	.156	7.5	10.5	13.0	15.0	16.8	18.4	19.9	24
	•	•			All others									

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	D (Dia.) (mm)	Thickness (mm)
	DK	—	14.73	3.2
	DJ	5/8"-18	15.87	3.2
	48284	—	14.83	3.2
	25834	—	16	2.41

PERFORMANCE DATA
FLAT AND SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090,
38332, 38490, 49905, 72370

Spray Angle at 2.8 bar	Capacity Size	Flow Rate Capacity (liters per minute)													
		1.5 bar	2.0 bar	2.5 bar	3.0 bar	3.5 bar	4.0 bar	4.5 bar	5.0 bar	5.5 bar	6.0 bar	7.0 bar	8.0 bar	10.0 bar	15.0 bar
130°	13016	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1
120°	12008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1
100°	10011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7
	10020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7
80°	8003	.84	.97	1.1	1.2	1.3	1.4	1.45	1.5	1.6	1.7	1.8	1.9	2.2	2.6
	8005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	8011	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	5.9	6.1	6.6	7.1	7.9	9.7
	8019	5.3	6.1	6.8	7.5	8.1	8.7	9.2	9.7	10.2	10.6	11.5	12.2	13.7	16.8
	8030	8.4	9.7	10.8	11.8	12.8	13.7	14.5	15.3	16.0	16.7	18.1	19.3	22	26
	8036	10.0	11.6	13.0	14.2	15.3	16.4	17.4	18.3	19.2	20	22	23	26	32
	8046	12.8	14.8	16.6	18.2	19.6	21	22	23	25	26	28	30	33	41
60°	6005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	6012	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.4	6.7	7.2	7.7	8.6	10.6
	6014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4
	6016	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1
	6020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7
	6025	7.0	8.1	9.0	9.9	10.7	11.4	12.1	12.7	13.4	14.0	15.1	16.1	18.0	22
	6031	8.7	10.0	11.2	12.2	13.2	14.1	15.0	15.8	16.6	17.3	18.7	20	22	27
	6038	10.6	12.2	13.7	15	16.2	17.3	18.4	19.4	20	21	23	24	27	34
	6050	13.2	16.3	18.9	19.7	23	23	27	25	30	28	36	40	42	48
50°	5032	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.1	17.9	19.3	21	23	28
45°	4516	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.6	8.9	9.6	10.3	11.5	14.1
	4525	7.0	8.1	9.0	9.9	10.7	11.4	12.1	12.7	13.4	14.0	15.1	16.1	18.0	22
	4542	11.7	13.5	15.1	16.6	17.9	19.1	20	21	22	23	25	27	30	37
40°	4008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1
	4012	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.4	6.7	7.2	7.7	8.6	10.6
	4013	3.6	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5
	4014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4
	4020	5.6	6.4	7.2	7.9	8.5	9.1	9.7	10.2	10.7	11.2	12.1	12.9	14.4	17.7
	4032	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.1	17.9	19.3	21	23	28
	4045	12.6	14.5	16.2	17.8	19.2	21	22	23	24	25	27	29	32	40
30°	3005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	3013	3.6	4.2	4.7	5.1	5.5	5.9	6.3	6.6	6.9	7.3	7.8	8.4	9.4	11.5
	3014	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.5	7.8	8.4	9.0	10.1	12.4
	3040	11.2	12.9	14.4	15.8	17.1	18.2	19.3	20	21	22	24	26	29	35

Highlighted column shows the rated pressure.



PERFORMANCE DATA

FLAT AND SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090, 38332, 38490, 49905, 72370

Spray Angle at 2.8 bar	Capacity Size	Flow Rate Capacity (liters per minute)													
		1.5 bar	2.0 bar	2.5 bar	3.0 bar	3.5 bar	4.0 bar	4.5 bar	5.0 bar	5.5 bar	6.0 bar	7.0 bar	8.0 bar	10.0 bar	15.0 bar
20°	2012	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.4	6.7	7.2	7.7	8.6	10.6
15°	1506	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3
0° (solid stream)	000012	.03	.04	.04	.05	.05	.06	.06	.06	.06	.07	.07	.08	.09	.11
	000026	.07	.08	.09	.1	.11	.12	.125	.13	.14	.15	.16	.17	.19	.23
	000053	.15	.17	.19	.21	.23	.24	.26	.27	.28	.3	.32	.34	.38	.47
	00007	.2	.23	.25	.28	.3	.32	.34	.36	.37	.39	.42	.45	.5	.62
	0001	.28	.32	.36	.39	.43	.46	.48	.51	.53	.56	.6	.64	.72	.88
	00017	.47	.55	.61	.67	.72	.77	.82	.87	.91	.95	1.0	1.1	1.2	1.5
	0002	.56	.64	.72	.79	.85	.91	.97	1.0	1.07	1.1	1.2	1.3	1.4	1.8
	00025	.7	.81	.9	.99	1.0	1.1	1.2	1.3	1.34	1.4	1.5	1.6	1.8	2.2
	00032	.89	1.0	1.2	1.3	1.4	1.5	1.55	1.6	1.7	1.8	1.9	2.1	2.3	2.8
	00043	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.2	2.3	2.4	2.6	2.8	3.1	3.8
	0005	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.7	2.8	3.0	3.2	3.6	4.4
	0006	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.2	3.3	3.6	3.9	4.3	5.3
0008	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5	4.8	5.2	5.8	7.1	
0010	2.8	3.2	3.6	3.9	4.3	4.6	4.8	5.1	5.3	5.6	6.0	6.4	7.2	8.8	

Highlighted column shows the rated pressure.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.



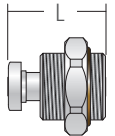
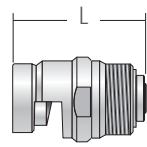
DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length (mm)	D (Dia.) (mm)	Hex. (mm)
	20210	1-1/8"-20 UN	41.4	42.2	38.1
	20235	3/4"-20 UNEF	35.6	31.8	25.4
	26225	3/4"-20 UNEF	35.6	27.7	25.4
	26411	3/4" BSPP	35.6	42.2	38.1
	36090	M28 x 1.5	41.4	42.2	38.1
	38332	3/4"	39.1	29.7	27.0
	38490	1-1/8"-20 UN	41.4	42.2	38.1

METRIC UNITS



DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length (mm)	D (Dia.) (mm)	Hex. (mm)
	49905	1-1/8"-20 UN	41.4	42.2	38.1
	49905-1	M28" x 1.5	41.4	42.2	38.1
	72370	1/2"	35.3	22.2	20.9 flats

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

PERFORMANCE DATA
SOLID STREAM SPRAY: 38170, 38171, 48461, 72242, 39610

Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Capacity (liters per minute)					
38170	38171	48461	72242	39610			7 bar	10 bar	30 bar	50 bar	60 bar	70 bar
3/8	1/8	1/8	1/8	M10								
				•	10	.25	.07	.09	.15	.19	.21	.22
•	•	•	•	•	15	.38	.17	.21	.36	.46	.50	.54
•	•	•	•	•	20	.51	.31	.36	.63	.82	.89	.96
•	•	•	•	•	25	.64	.48	.57	.99	1.3	1.4	1.5
				•	27.5	.69	.57	.67	1.1	1.5	1.6	1.7
•	•	•	•	•	30	.76	.69	.82	1.4	1.8	2.0	2.2
				•	32	.81	.78	.92	1.5	2.0	2.2	2.3
•	•	•	•	•	35	.89	.93	1.1	1.9	2.5	2.7	3.0
•	•	•	•	•	40	1.0	1.2	1.5	2.5	3.3	3.6	3.9
•	•	•	•	•	45	1.1	1.5	1.9	3.2	4.1	4.5	4.9
•	•				50	1.3	1.9	2.3	4.0	5.1	5.6	6.0
•	•				60	1.5	2.8	3.3	5.7	7.3	8.0	8.7

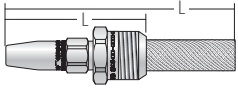
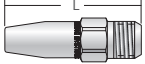

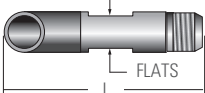
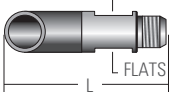
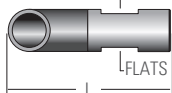
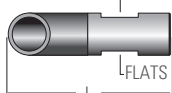
48461 and 72242 are only available with ruby orifice.

PERFORMANCE DATA
SOLID STREAM SPRAY: 58035-2, 56795-2

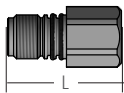
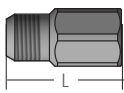
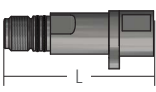

Conn. Size (in.)	Nozzle Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)					
	58035-2	56795-2			7 bar	10 bar	20 bar	30 bar	50 bar	70 bar
1/8	•	•	10	.25	.15	.18	.25	.31	.39	.46
	•	•	15	.38	.35	.41	.59	.72	.93	1.1
	•	•	20	.51	.62	.74	1.1	1.3	1.7	2.0
	•	•	25	.64	.92	1.1	1.5	1.9	2.5	2.9
	•	•	30	.76	1.4	1.6	2.3	2.8	3.7	4.3
	•	•	35	.89	1.8	2.2	3.1	3.8	4.9	5.8



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	D (Dia.) (mm)	Hex./Flats (mm)
	38170	3/8 male	39.0 with strainer 85.9	21.0	19.1
	38171	1/8 male	39.0	12.2	11.0
	48461	1/8 male	39.0	12.2	11.0
	72242	1/8 male	53.2	10.7	8.4
	39610	M10 x 0.75 male	62.2	14.0	10.2
	56795-2	1/8 male/female	53.1	13.4	10.8
	58035-2	1/8 male/female	51.3	13.4	10.8

ADAPTER DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	Outlet Conn. (in.)	L (mm)	D (Dia.) (mm)	Hex./Flats (mm)
	115425	M10	1/8 female	26.0	–	12.7
	115427	1/8 male	M10 female	25.4	–	12.7
	39290	M10 x 0.75 male	1/8 female	43.5	13.2	10.0, 12.0 Flats
	87529	1/8, 1/4 M10 x 0.75	1/8, 1/4 M10 x 0.75	49.0	0.98 25.0	21.0 Flats 19.0 Hex

PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	H-VV		H-VVL		H-DT				0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar
	1/8	1/4	1/8	1/4	1/8	1/4															
110°	•	•	•	•			01	.66	.14	.19	.28	.39	.56	.60	.88	1.0	1.3	94	110	121	124
	•	•	•	•			015	.81	.22	.29	.42	.59	.84	.90	1.3	1.5	2.0	97	110	121	124
	•	•	•	•		•	02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	98	110	120	123
	•	•	•	•		•	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	99	110	120	123
	•	•	•	•	•	•	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	100	110	119	122
	•	•	•	•		•	05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	100	110	118	122
	•	•	•	•	•	•	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	101	110	117	122
	•	•	•	•		•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	102	110	117	121
	•	•	•	•	•	•	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	103	110	117	119
	•	•	•	•		•	15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	104	110	117	118
95°	•		•		•		0050	.46	–	–	.14	.20	.28	.30	.44	.51	.67	81	95	105	113
	•	•	•	•			01	.66	.14	.19	.28	.39	.56	.60	.88	1.0	1.3	81	95	105	113
	•		•	•			015	.81	.22	.29	.42	.59	.84	.90	1.3	1.5	2.0	82	95	105	113
	•	•	•	•	•	•	02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	82	95	105	113
	•	•	•	•		•	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	83	95	104	111
	•	•	•	•	•	•	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	84	95	103	108
	•	•	•	•	•		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	84	95	102	107
	•	•	•	•	•	•	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	86	95	101	106
	•				•		065	1.6	.94	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8	86	95	101	106
•	•	•	•	•	•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	87	95	100	105	
80°	•	•	•	•			0050	.46	–	–	.14	.20	.28	.30	.44	.51	.67	61	80	95	101
	•	•	•	•			0067	.53	–	.13	.19	.26	.37	.40	.59	.68	.90	67	80	94	99
	•	•	•	•	•	•	01	.66	–	.19	.28	.39	.56	.60	.88	1.0	1.3	68	80	89	92
		•	•	•		•	015	.81	–	.29	.42	.59	.84	.90	1.3	1.5	2.0	68	80	89	92
	•	•	•	•	•	•	02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	69	80	88	91
	•	•	•	•	•	•	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	70	80	87	90
	•	•	•	•	•	•	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	71	80	86	89
	•	•	•	•	•	•	05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	71	80	86	89
	•	•	•	•	•	•	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	72	80	85	88
	•				•	•	07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	72	80	85	88
	•	•	•	•	•	•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	72	80	84	87
	•		•	•	•	09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	73	80	84	87	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	H-VV		H-VVL		H-DT				0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar
	1/8	1/4	1/8	1/4	1/8	1/4															
73°	•	•	•	•	•		0077	.58	–	.15	.21	.30	.43	.46	.68	.78	1.0	53	73	86	92
	•	•	•	•			0154	.81	.22	.29	.43	.61	.86	.93	1.4	1.6	2.1	55	73	84	88
		•		•			0231	.97	.33	.44	.64	.91	1.3	1.4	2.0	2.4	3.1	56	73	83	87
	•	•	•	•			0308	1.2	.44	.59	.86	1.2	1.7	1.9	2.7	3.1	4.2	58	73	82	86
		•		•			0462	1.4	.67	.88	1.3	1.8	2.6	2.8	4.1	4.7	6.2	60	73	80	84
	•		•				0770	1.8	1.1	1.5	2.1	3.0	4.3	4.6	6.8	7.8	10.4	64	73	77	82
65°	•		•				0017	.28	–	–	.047	.067	.095	.10	.15	.17	.23	44	65	77	86
	•		•				0033	.38	–	–	.092	.13	.18	.20	.29	.34	.45	47	65	76	83
	•	•	•	•	•		0067	.53	–	.13	.19	.26	.37	.40	.59	.68	.90	50	65	75	81
	•	•	•	•	•	•	01	.66	–	.19	.28	.39	.56	.60	.88	1.0	1.3	51	65	74	80
	•	•	•	•			015	.81	–	.29	.42	.59	.84	.90	1.3	1.5	2.0	51	65	74	80
	•	•	•	•	•	•	02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	52	65	73	79
	•		•				025	.99	.36	.48	.70	.99	1.4	1.5	2.2	2.5	3.4	52	65	73	79
	•	•	•	•	•	•	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	53	65	72	78
	•	•	•	•	•	•	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	53	65	72	76
	•	•	•	•	•	•	05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	53	65	72	76
		•			•	•	055	1.5	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	53	65	72	76
	•	•		•	•	•	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	54	65	72	75
		•			•	•	07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	54	65	71	75
	•	•	•	•	•	•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	55	65	71	74
•				•	•	09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	55	65	71	74	
50°	•	•	•	•			01	.66	–	.19	.28	.39	.56	.60	.88	1.0	1.3	37	50	59	65
	•	•	•	•			02	.89	–	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	39	50	57	63
	•	•	•	•		•	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	40	50	56	62
	•	•	•	•		•	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	42	50	56	61
	•	•	•	•		•	05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	44	50	56	61
	•					•	055	1.5	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	44	50	56	61
	•	•	•	•		•	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	45	50	56	60
	•	•				•	07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	45	50	56	60
	•	•	•	•		•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	45	50	55	60
		•			•	•	09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	45	50	55	59
40°	•	•	•	•	•		01	.66	–	–	.28	.39	.56	.60	.88	1.0	1.3	26	40	52	59
	•	•	•	•	•		015	.81	–	–	.42	.59	.84	.90	1.3	1.5	2.0	27	40	52	59
	•	•	•	•	•	•	02	.89	–	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	29	40	51	58
	•	•	•	•	•	•	03	1.1	–	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	30	40	50	57
	•	•	•	•	•	•	04	1.3	–	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	30	40	50	56

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-VV, H-VVL AND H-DT

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-VV		H-VVL		H-DT				0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
	1/8	1/4	1/8	1/4	1/8	1/4																
40°	•	•	•	•	•	•	05	1.4	–	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	31	40	49	55	
	•	•			•	•	055	1.5	–	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	31	40	49	55	
	•	•	•	•	•	•	06	1.5	–	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	31	40	49	55	
	•	•			•	•	065	1.6	–	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8	31	40	48	54	
	•	•			•	•	07	1.7	–	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	31	40	48	54	
	•	•	•	•	•	•	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	31	40	47	53	
	•						085	1.8	1.2	1.6	2.4	3.4	4.7	5.1	7.5	8.7	11.5	32	40	46	50	
	•	•			•	•	09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	32	40	46	50	
25°	•	•	•	•	•		01	.66	–	–	.28	.39	.56	.60	.88	1.0	1.3	14	25	34	42	
	•	•	•	•	•	•	02	.89	–	–	.56	.79	1.1	1.2	1.8	2.0	2.7	15	25	33	40	
	•	•	•	•	•	•	03	1.1	–	–	.84	1.2	1.7	1.8	2.6	3.1	4.0	15	25	33	40	
	•	•	•	•	•	•	04	1.3	–	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	16	25	32	39	
				•	•	•	045	1.3	–	.86	1.3	1.8	2.5	2.7	4.0	4.6	6.1	16	25	32	39	
	•	•	•	•	•	•	05	1.4	–	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	16	25	32	39	
	•	•			•	•	055	1.5	–	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	16	25	31	38	
	•	•	•	•	•	•	06	1.5	–	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	17	25	31	38	
	•	•			•	•	065	1.6	–	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8	17	25	31	38	
	•	•	•		•	•	07	1.7	–	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	17	25	31	38	
	•	•					075	1.7	–	1.4	2.1	3.0	4.2	4.5	6.6	7.6	10.1	17	25	31	38	
	•	•	•	•	•	•	08	1.8	–	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	17	25	31	38	
	•						085	1.8	–	1.6	2.4	3.4	4.7	5.1	7.5	8.7	11.5	18	25	31	37	
•	•			•	•	09	1.9	–	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	17	25	31	37		
				•		15	2.4	–	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	18	25	31	37		
15°	•	•		•			01	.66	–	–	–	.39	.56	.60	.88	1.0	1.3	–	15	24	28	
	•		•		•	•	02	.89	–	–	.56	.79	1.1	1.2	1.8	2.0	2.7	6	15	22	27	
	•	•	•	•	•	•	03	1.1	–	–	.84	1.2	1.7	1.8	2.6	3.1	4.0	6	15	22	27	
	•	•	•	•	•	•	04	1.3	–	–	1.1	1.6	2.2	2.4	3.5	4.1	5.4	7	15	21	26	
	•	•	•	•	•	•	05	1.4	–	–	1.4	2.0	2.8	3.0	4.4	5.1	6.7	7	15	21	26	
	•	•			•	•	055	1.5	–	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	7	15	21	26	
	•	•	•	•	•	•	06	1.5	–	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	8	15	21	26	
	•	•			•	•	065	1.6	–	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8	8	15	20	25	
		•			•	•	07	1.7	–	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	8	15	20	25	
	•	•	•	•	•	•	08	1.8	–	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	9	15	20	25	
	•	•			•	•	085	1.8	–	1.6	2.4	3.4	4.7	5.1	7.5	8.7	11.5	9	15	19	24	
	•	•			•	•	09	1.9	–	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	9	15	19	24	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-DU		U					0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
	1/8	1/4	1	1-1/4	2																
95°	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	89	95	100	105	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	90	95	100	105	
		•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	90	95	100	105	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	91	95	101	105	
		•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	92	95	100	105	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	93	95	99	103	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	93	95	99	103	
80°		•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	93	95	99	103	
	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	73	80	84	87	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	74	80	83	86	
	•	•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	74	80	83	86	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	74	80	83	86	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	74	80	83	86	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	74	80	83	85	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	75	80	83	85	
		•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	75	80	83	86	
65°			•			500	13.4	72	95	140	197	279	302	441	510	674	78	80	81	83	
			•			580	14.5	84	111	162	229	324	350	512	591	782	78	80	81	83	
	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	56	65	71	74	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	56	65	70	73	
	•	•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	57	65	70	73	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	58	65	69	72	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	59	65	68	72	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	60	65	68	71	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	60	65	68	71	
50°	•	•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	60	65	68	71	
			•	•		500	13.4	72	95	140	197	279	302	441	510	674	60	65	66	68	
			•			580	14.5	84	111	162	229	324	350	512	591	782	61	65	66	68	
	•					02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	39	50	57	63	
	•					03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	40	50	56	62	
	•					04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	42	50	56	61	
•					05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	44	50	56	61		
•					055	1.5	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	44	50	56	61		
•					06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	45	50	56	60		

PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)				
	H-DU		U					0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
	1/8	1/4	1	1-1/4	2																
50°	•					07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	45	50	56	60	
	•					08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	45	50	55	60	
	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	45	50	55	59	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	45	50	55	59	
		•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	45	50	55	59	
		•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	45	50	55	59	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	46	50	54	59	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	46	50	54	59	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	46	50	54	59	
		•				70	5.1	10.1	13.3	19.5	28	39	42	62	71	94	46	50	54	59	
				•	•		500	13.4	72	95	140	197	279	302	441	510	674	49	50	51	54
				•			580	14.5	84	111	162	229	324	350	512	591	782	49	50	51	53
					•		750	16.4	108	143	209	296	419	452	662	765	1011	49	50	51	53
					•		1000	19.0	144	191	279	395	558	603	883	1019	1349	49	50	51	53
				•	1500	23.2	216	286	419	592	838	905	1324	1529	2023	49	50	51	52		
				•	2000	26.8	288	381	558	790	1117	1206	1766	2039	2697	49	50	51	52		
40°	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	32	40	45	48	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	32	40	45	48	
	•	•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	32	40	45	48	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	33	40	45	48	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	34	40	45	48	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	35	40	45	48	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	35	40	45	48	
		•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	35	40	45	48	
				•		500	13.4	72	95	140	197	279	302	441	510	674	38	40	41	45	
25°	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	18	25	31	37	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	18	25	31	37	
	•	•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	19	25	31	37	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	20	25	30	36	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	21	25	29	35	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	21	25	29	35	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	22	25	29	35	
		•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	22	25	29	35	
				•	•		500	13.4	72	95	140	197	279	302	441	510	674	24	25	26	29
					•		750	16.4	108	143	209	296	419	452	662	765	1011	24	25	26	28
					•		1000	19.0	144	191	279	395	558	603	883	1019	1349	24	25	26	28

Highlighted column shows the rated pressure.



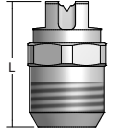
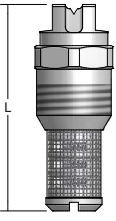
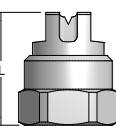
PERFORMANCE DATA
STANDARD ANGLE SPRAY: H-DU AND U

Spray Angle at 3 bar	Nozzle Type/ Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-DU		U					0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
	1/8	1/4	1	1-1/4	2																
15°	•	•				10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	10	15	19	24	
	•	•				15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	10	15	19	24	
	•	•				20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	10	15	19	23	
	•	•				30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	10	15	19	21	
	•	•				40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	10	15	18	21	
		•				50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	11	15	18	21	
		•				60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	11	15	18	21	
		•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	11	15	18	21	
				•		500	13.4	72	95	140	197	279	302	441	510	674	14	15	16	17	
				•		1000	19.0	144	191	279	395	558	603	883	1019	1349	14	15	16	17	
0°		•				03	1.0	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	0 (solid stream)				
	•	•				04	1.2	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4					
	•	•				05	1.3	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7					
	•	•				055	1.4	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4					
	•	•				06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1					
	•	•				065	1.5	.94	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8					
	•	•				07	1.6	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4					
	•	•				08	1.7	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8					
	•	•				09	1.8	1.2	1.6	2.4	3.4	4.7	5.1	7.5	8.7	11.5					
	•	•				10	1.8	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1					
		•				12	1.9	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5					
	•	•				15	2.1	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2					
	•	•				20	2.3	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20					
	•	•				30	2.7	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27					
		•				40	3.3	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40					
		•				50	3.8	5.8	7.6	11.2	15.8	22	24	35	41	54					
		•				60	4.2	7.2	9.5	14.0	19.7	28	30	44	51	67					
		•				70	4.6	8.6	11.4	16.8	24	34	36	53	61	81					
				•	•	570	14.2	82	109	159	225	318	344	503	581	769					
				•		1000	18.8	144	191	279	395	558	603	883	1019	1349					
			•		1100	19.7	159	210	307	434	614	663	971	1121	1483						
			•		1400	22.2	202	267	391	553	782	844	1236	1427	1888						
			•		1800	25.2	259	343	503	711	1005	1086	1589	1835	2427						
				•	2000	26.5	288	381	558	790	1117	1206	1766	2039	2697						
				•	3500	35.1	505	667	977	1382	1954	2111	3090	3568	4720						

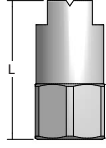
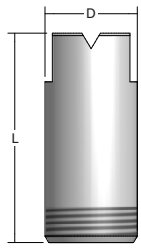
Highlighted column shows the rated pressure.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	H-VV	1/8 male	19.1	1/2	–	0.01
		1/4 male	19.8	5/8	–	0.02
	H-VVL	1/8 male	28.6	1/2	–	0.02
		1/4 male	28.6	5/8	–	0.04
	H-DT	1/8 female	25.4	9/16	–	0.01
		1/4 female	25.4	9/16	–	0.02

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	H-DU	1/8 female	38.9	1/2	–	0.02
		1/4 female	31.8	9/16	–	0.03
	U	1 male	58.8	–	33.3	0.26
		1-1/4 male	95.3	–	42.9	0.57
		2 male	136.5	–	60.3	1.93

Based on the largest/heaviest version of each type.

METRIC UNITS

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
110°		●	●	01	.66	.14	.19	.28	.39	.56	.60	.79	.88	1.0	94	110	121	124	
		●	●	015	.81	.22	.29	.42	.59	.84	.90	1.2	1.3	1.5	97	110	121	124	
		●	●	02	.91	.29	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	98	110	120	123	
		●	●	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	99	110	120	123	
		●	●	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	100	110	119	122	
		●	●	05	1.4	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	100	110	118	122	
		●	●	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	101	110	117	122	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	102	110	117	121	
		●	●	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	103	110	117	119	
		●	●	15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	104	110	117	118	
	●	●	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	105	110	117	118		
95°		●	●	01	.66	.14	.19	.28	.39	.56	.60	.79	.88	1.0	81	95	105	113	
		●	●	015	.81	.22	.29	.42	.59	.84	.90	1.2	1.3	1.5	82	95	105	113	
		●	●	02	.91	.29	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	82	95	105	113	
		●	●	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	83	95	104	111	
		●	●	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	84	95	103	108	
		●	●	05	1.4	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	84	95	102	107	
		●	●	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	86	95	101	106	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	87	95	100	105	
		●		10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	89	95	100	105	
		●		15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	90	95	100	105	
		●		20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	90	95	100	105	
		●		30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	91	95	101	105	
		●		40	3.8	5.8	7.6	11.2	15.8	22	24	32	35	41	92	95	100	105	
		●		50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	93	95	99	103	
	●		60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	93	95	99	103		
	●		70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	93	95	99	103		
	●	●	150	6.2	14.4	19.1	28	39	56	60	79	88	102	93	95	99	102		
80°		●	●	0050	.46	–	–	.14	.20	.28	.30	.39	.44	.51	61	80	95	101	
		●	●	0067	.53	–	.13	.19	.26	.37	.40	.53	.59	.68	67	80	94	99	
		●	●	01	.66	–	.19	.28	.39	.56	.60	.79	.88	1.0	68	80	89	92	
		●	●	015	.81	.22	.29	.42	.59	.84	.90	1.2	1.3	1.5	68	80	89	92	
		●	●	02	.91	.29	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	69	80	88	91	
		●	●	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	70	80	87	90	

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
80°		●	●	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	71	80	86	89	
		●	●	05	1.4	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	71	80	86	89	
		●	●	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	72	80	85	88	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	72	80	84	87	
	●			10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	73	80	84	87	
	●			15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	74	80	83	86	
	●			20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	74	80	83	86	
	●			30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	74	80	83	86	
	●			40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	74	80	83	86	
	●			50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	74	80	83	85	
	●			60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	75	80	83	85	
	●			70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	75	80	83	86	
73°		●	●	0023	.30	–	–	.064	.091	.13	.14	.18	.20	.23	50	73	89	97	
		●	●	0039	.41	–	.074	.11	.15	.22	.24	.31	.34	.40	53	73	87	93	
		●	●	0077	.58	–	.15	.21	.30	.43	.46	.61	.68	.78	53	73	86	92	
		●	●	0116	.71	.17	.22	.32	.46	.65	.70	.92	1.0	1.2	54	73	85	90	
		●	●	0154	.81	.22	.29	.43	.61	.86	.93	1.2	1.4	1.6	55	73	84	88	
		●	●	0231	.96	.33	.44	.64	.91	1.3	1.4	1.8	2.0	2.4	56	73	83	87	
		●	●	0308	1.1	.44	.59	.86	1.2	1.7	1.9	2.4	2.7	3.1	58	73	82	86	
		●	●	0385	1.2	.56	.73	1.1	1.5	2.1	2.3	3.0	3.4	3.9	59	73	81	85	
		●	●	0462	1.4	.67	.88	1.3	1.8	2.6	2.8	3.6	4.1	4.7	60	73	80	84	
		●	●	0616	1.6	.89	1.2	1.7	2.4	3.4	3.7	4.9	5.4	6.3	63	73	79	83	
		●	●	0770	1.7	1.1	1.5	2.1	3.0	4.3	4.6	6.1	6.8	7.8	64	73	77	82	
		●	●	0924	1.9	1.3	1.8	2.6	3.6	5.2	5.6	7.3	8.2	9.4	65	73	77	80	
65°		●	●	0017	.28	–	–	.047	.067	.095	.10	.13	.15	.17	44	65	77	86	
		●	●	0025	.33	–	–	.070	.099	.14	.15	.20	.22	.25	45	65	77	84	
		●	●	0033	.38	–	–	.092	.13	.18	.20	.26	.29	.34	47	65	76	83	
		●	●	0050	.46	–	–	.14	.20	.28	.30	.39	.44	.51	48	65	75	82	
		●	●	0067	.53	–	.13	.19	.26	.37	.40	.53	.59	.68	50	65	75	81	
		●	●	01	.66	–	.19	.28	.39	.56	.60	.79	.88	1.0	51	65	74	80	
		●	●	015	.81	–	.29	.42	.59	.84	.90	1.2	1.3	1.5	51	65	74	80	
		●	●	02	.91	.29	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	52	65	73	79	
		●	●	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	53	65	72	78	
		●	●	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	53	65	72	76	
		●	●	05	1.4	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	53	65	72	76	

Highlighted column shows the rated pressure.

METRIC UNITS



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
65°		●	●	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	54	65	72	75	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	55	65	71	74	
	●			10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	56	65	71	74	
	●			15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	56	65	70	73	
	●			20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	57	65	70	73	
	●			30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	58	65	69	72	
	●			40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	59	65	68	72	
	●			50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	60	65	68	71	
	●			60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	60	65	68	71	
	●			70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	60	65	68	71	
50°		●	●	0017	.28	–	–	.047	.067	.095	.10	.13	.15	.17	27	50	65	74	
		●	●	0025	.33	–	–	.070	.099	.14	.15	.20	.22	.25	29	50	64	71	
		●	●	0033	.38	–	–	.092	.13	.18	.20	.26	.29	.34	30	50	62	68	
		●	●	0050	.46	–	–	.14	.20	.28	.30	.39	.44	.51	32	50	60	66	
		●	●	0067	.53	–	–	.19	.26	.37	.40	.53	.59	.68	35	50	60	66	
		●	●	01	.66	–	.19	.28	.39	.56	.60	.79	.88	1.0	37	50	59	65	
		●	●	015	.81	–	.29	.42	.59	.84	.90	1.2	1.3	1.5	38	50	58	64	
		●	●	02	.91	–	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	39	50	57	63	
		●	●	03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	40	50	56	62	
		●	●	04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	42	50	56	61	
		●	●	05	1.4	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	44	50	56	61	
		●	●	06	1.5	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	45	50	56	60	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	45	50	55	60	
	●			10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	45	50	55	59	
	●			15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	45	50	55	59	
	●			20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	45	50	55	59	
	●			30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	45	50	55	59	
	●			40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	46	50	54	59	
	●			50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	46	50	54	59	
	●			60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	46	50	54	59	
●			70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	46	50	54	59		
40°		●	●	0017	.28	–	–	.047	.067	.095	.10	.13	.15	.17	21	40	54	61	
		●	●	0025	.33	–	–	.070	.099	.14	.15	.20	.22	.25	22	40	53	60	
		●	●	0033	.38	–	–	.092	.13	.18	.20	.26	.29	.34	22	40	53	60	
		●	●	0050	.46	–	–	.14	.20	.28	.30	.39	.44	.51	22	40	53	60	

Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
40°		●	●	0067	.53	–	–	.19	.26	.37	.40	.53	.59	.68	24	40	53	60	
		●	●	01	.66	–	–	.28	.39	.56	.60	.79	.88	1.0	26	40	52	59	
		●	●	015	.81	–	–	.42	.59	.84	.90	1.2	1.3	1.5	27	40	52	59	
		●	●	02	.91	–	.38	.56	.79	1.1	1.2	1.6	1.8	2.0	29	40	51	58	
		●	●	03	1.1	–	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	30	40	50	57	
		●	●	04	1.3	–	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	30	40	50	56	
		●	●	05	1.4	–	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	31	40	49	55	
		●	●	06	1.5	–	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	31	40	49	55	
		●	●	08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	31	40	47	53	
		●		10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	32	40	45	48	
		●		15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	32	40	45	48	
		●		20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	32	40	45	48	
		●		30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	33	40	45	48	
		●		40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	34	40	45	48	
		●		50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	35	40	45	48	
		●		60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	35	40	45	48	
		●		70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	35	40	45	48	
25°		●	●	0017	.28	–	–	–	.067	.095	.10	.13	.15	.17	–	25	35	47	
		●	●	0025	.33	–	–	–	.099	.14	.15	.20	.22	.25	–	25	35	45	
		●	●	0033	.38	–	–	–	.13	.18	.20	.26	.29	.34	–	25	34	44	
		●	●	0050	.46	–	–	–	.20	.28	.30	.39	.44	.51	–	25	34	43	
		●	●	0067	.53	–	–	–	.26	.37	.40	.53	.59	.68	–	25	34	42	
		●	●	01	.66	–	–	.28	.39	.56	.60	.79	.88	1.0	14	25	34	42	
		●	●	015	.81	–	–	.42	.59	.84	.90	1.2	1.3	1.5	15	25	34	41	
		●	●	02	.91	–	–	.56	.79	1.1	1.2	1.6	1.8	2.0	15	25	33	40	
		●	●	03	1.1	–	–	.84	1.2	1.7	1.8	2.4	2.6	3.1	15	25	33	40	
		●	●	04	1.3	–	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1	16	25	32	39	
		●	●	05	1.4	–	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	16	25	32	39	
		●	●	06	1.5	–	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1	17	25	31	38	
		●	●	08	1.8	–	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2	17	25	31	38	
		●		10	2.0	–	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	18	25	31	37	
		●		15	2.4	–	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	18	25	31	37	
		●		20	2.8	–	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	19	25	31	37	
		●		30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	20	25	30	36	
	●		40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	21	25	29	35		

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
25°	●			50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	21	25	29	35	
	●			60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	22	25	29	35	
	●			70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	22	25	29	35	
15°		●	●	0017	.28	–	–	–	.067	.095	.10	.13	.15	.17	–	15	30	37	
		●	●	0025	.33	–	–	–	.099	.14	.15	.20	.22	.25	–	15	28	34	
		●	●	0033	.38	–	–	–	.13	.18	.20	.26	.29	.34	–	15	27	32	
		●	●	0050	.46	–	–	–	.20	.28	.30	.39	.44	.51	–	15	26	30	
		●	●	0067	.53	–	–	–	.26	.37	.40	.53	.59	.68	–	15	25	29	
		●	●	01	.66	–	–	–	.39	.56	.60	.79	.88	1.0	–	15	24	28	
		●	●	015	.81	–	–	–	.59	.84	.90	1.2	1.3	1.5	–	15	23	27	
		●	●	02	.91	–	–	.56	.79	1.1	1.2	1.6	1.8	2.0	6	15	22	27	
		●	●	03	1.1	–	–	.84	1.2	1.7	1.8	2.4	2.6	3.1	6	15	22	27	
		●	●	04	1.3	–	–	1.1	1.6	2.2	2.4	3.2	3.5	4.1	7	15	21	26	
		●	●	05	1.4	–	–	1.4	2.0	2.8	3.0	3.9	4.4	5.1	7	15	21	26	
		●	●	06	1.5	–	–	1.7	2.4	3.4	3.6	4.7	5.3	6.1	8	15	21	26	
		●	●	08	1.8	–	–	2.2	3.2	4.5	4.8	6.3	7.1	8.2	9	15	20	25	
		●			10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2	10	15	19	24
		●			15	2.4	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3	10	15	19	24
		●			20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20	10	15	19	23
		●			30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31	10	15	19	21
		●			40	3.9	5.8	7.6	11.2	15.8	22	24	32	35	41	10	15	18	21
		●			50	4.4	7.2	9.5	14.0	19.7	28	30	39	44	51	11	15	18	21
		●			60	4.8	8.6	11.4	16.8	24	34	36	47	53	61	11	15	18	21
	●			70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	11	15	18	21	
0°		●	●	0009	.20	.013	.017	.025	.036	.050	.054	.071	.079	.092	0 (solid stream)				
		●	●	0012	.25	.017	.023	.034	.047	.067	.072	.095	.11	.12					
		●	●	0019	.30	.027	.036	.053	.075	.11	.11	.15	.17	.19					
		●	●	0021	.33	.030	.040	.059	.083	.12	.13	.17	.19	.21					
		●	●	0050	.48	.072	.095	.14	.20	.28	.30	.39	.44	.51					
		●	●	0067	.58	.097	.13	.19	.26	.37	.40	.53	.59	.68					
		●	●	01	.71	.14	.19	.28	.39	.56	.60	.79	.88	1.0					
		●	●	015	.86	.22	.29	.42	.59	.84	.90	1.2	1.3	1.5					
		●	●	02	.99	.29	.38	.56	.79	1.1	1.2	1.6	1.8	2.0					
		●	●	03	1.2	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1					
		●	●	04	1.4	.58	.76	1.1	1.6	2.2	2.4	3.2	3.5	4.1					

Highlighted column shows the rated pressure.

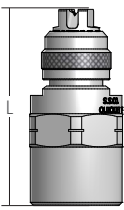
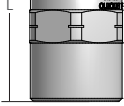
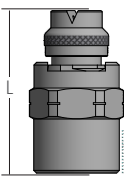



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: QUA, QVVA AND 58106

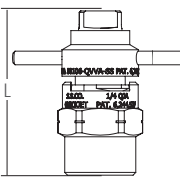
Spray Angle at 3 bar	Quick VeeJet Tip Type			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QUA	QVVA	58106			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	12 bar	15 bar	20 bar	1.5 bar	3 bar	6 bar	15 bar	
0°	●	●	●	05	1.6	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1	0 (solid stream)				
	●	●	●	06	1.7	.86	1.1	1.7	2.4	3.4	3.6	4.7	5.3	6.1					
	●	●	●	08	2.0	1.2	1.5	2.2	3.2	4.5	4.8	6.3	7.1	8.2					
	●			10	2.2	1.4	1.9	2.8	3.9	5.6	6.0	7.9	8.8	10.2					
	●			15	2.7	2.2	2.9	4.2	5.9	8.4	9.0	11.8	13.2	15.3					
	●			20	3.1	2.9	3.8	5.6	7.9	11.2	12.1	15.8	17.7	20					
	●			30	3.6	4.3	5.7	8.4	11.8	16.8	18.1	24	26	31					
	●			40	4.1	5.8	7.6	11.2	15.8	22	24	32	35	41					
	●			50	4.2	7.2	9.5	14.0	19.7	28	30	39	44	51					
	●			60	4.6	8.6	11.4	16.8	24	34	36	47	53	61					
	●			70	5.0	10.1	13.3	19.5	28	39	42	55	62	71					
	●			80	5.3	11.5	15.3	22	32	45	48	63	71	82					

Highlighted column shows the rated pressure.

ASSEMBLY DIMENSIONS AND WEIGHTS

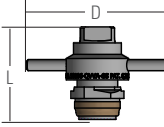
Nozzle	Tip/Body Type	Conn. Size (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	QVVA + QJA	1/8, 1/4, 3/8, 1/2 female	54.8	1	0.06
	QVVA + QJJA	1/8, 1/4, 3/8, 1/2 male	53.0	1	0.08
	QUA + QJA	1/8, 1/4, 3/8, 1/2 female	50.8	1	0.11
	QUA + QJJA	1/8, 1/4, 3/8, 1/2 male	48.4	1	0.11

Based on the largest/heaviest version of each type.

Nozzle	Tip/Body Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	58106 - QVVA + QJA	1/8, 1/4, 3/8, 1/2 female	54.5	2	0.06

Based on the largest/heaviest version of each type.

SPRAY TIP DIMENSIONS

Nozzle	Nozzle Type	L (mm)	D (Dia.) (mm)
	58106*	31.8	50.8

*58106 fits on any QuickJet body.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
110°	•	•	•		0033	.38	-	-	.092	.13	.18	.20	.29	.34	.45	91	110	116	121	
	•	•	•		0050	.46	-	-	.14	.20	.28	.30	.44	.51	.67	91	110	118	124	
	•	•	•		0067	.53	-	-	.19	.26	.37	.40	.59	.68	.90	92	110	118	124	
	•	•	•		01	.66	.14	.19	.28	.39	.56	.60	.88	1.0	1.3	94	110	121	124	
	•	•	•		015	.81	.22	.29	.42	.59	.84	.90	1.3	1.5	2.0	97	110	121	124	
	•	•	•		02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	98	110	120	123	
	•	•	•		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	99	110	120	123	
	•	•	•		04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	100	110	119	122	
	•	•	•		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	100	110	118	122	
	•	•	•		06	1.6	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	101	110	117	122	
	•	•	•		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	102	110	117	121	
	•	•	•		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	102	110	117	121	
	•	•		•	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	103	110	117	119	
	•	•		•	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	103	110	117	119	
	•	•		•	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	104	110	117	118	
	•	•		•	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	105	110	117	118	
	•	•		•	30	2.9	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	105	110	117	118	
95°	•	•	•		01	.66	.14	.19	.28	.39	.56	.60	.88	1.0	1.3	81	95	105	113	
	•	•	•		015	.81	.22	.29	.42	.59	.84	.90	1.3	1.5	2.0	82	95	105	113	
	•	•	•		02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	82	95	105	113	
	•	•	•		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	83	95	104	111	
	•	•	•		04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	84	95	103	108	
	•	•	•		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	84	95	102	107	
	•	•	•		06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	86	95	101	106	
	•	•	•		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	86	95	101	106	
	•	•	•		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	87	95	100	105	
	•	•	•		09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	89	95	100	105	
	•	•		•	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	89	95	100	105	
	•	•		•	11	2.1	1.6	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8	89	95	100	105	
	•	•		•	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	89	95	100	105	
	•	•		•	13	2.3	1.9	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	89	95	100	105	
	•	•		•	14	2.4	2.0	2.7	3.9	5.5	7.8	8.4	12.4	14.3	18.9	89	95	100	105	
	•	•		•	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	90	95	100	105	
	•	•		•	16	2.5	2.3	3.1	4.5	6.3	8.9	9.6	14.1	16.3	22	90	95	100	105	
	•	•		•	18	2.7	2.6	3.4	5.0	7.1	10.1	10.9	15.9	18.3	24	90	95	100	105	
	•	•		•	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	90	95	100	105	
	•	•		•	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	91	95	101	105	
•	•		•	40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	92	95	100	105		
•	•		•	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	93	95	99	103		
•	•		•	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	93	95	99	103		
•	•		•	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	93	95	99	103		

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
80°	•	•	•		0050	.46	–	–	.14	.20	.28	.30	.44	.51	.67	61	80	95	101	
	•	•	•		0067	.53	–	.13	.19	.26	.37	.40	.59	.68	.90	67	80	94	99	
	•	•	•		01	.66	–	.19	.28	.39	.56	.60	.88	1.0	1.3	68	80	89	92	
	•	•	•		015	.81	–	.29	.42	.59	.84	.90	1.3	1.5	2.0	68	80	89	92	
	•	•	•		02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	69	80	88	91	
	•	•	•		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	70	80	87	90	
	•	•	•		04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	71	80	86	89	
	•	•	•		045	1.4	.65	.86	1.3	1.8	2.5	2.7	4.0	4.6	6.1	71	80	86	89	
	•	•	•		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	71	80	86	89	
	•	•	•		06	1.6	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	72	80	85	88	
	•	•	•		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	72	80	85	88	
	•	•	•		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	72	80	84	87	
	•	•	•		09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	73	80	84	87	
	•	•		•	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	73	80	84	87	
	•	•		•	11	2.1	1.6	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8	73	80	83	86	
	•	•		•	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	73	80	83	86	
	•	•		•	13	2.3	1.9	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	73	80	83	86	
	•	•		•	14	2.4	2.0	2.7	3.9	5.5	7.8	8.4	12.4	14.3	18.9	73	80	83	86	
	•	•		•	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	74	80	83	86	
	•	•		•	16	2.5	2.3	3.1	4.5	6.3	8.9	9.6	14.1	16.3	22	74	80	83	86	
•	•		•	17	2.6	2.5	3.2	4.7	6.7	9.5	10.3	15.0	17.3	23	74	80	83	86		
•	•		•	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	74	80	83	86		
•	•		•	25	3.1	3.6	4.8	7.0	9.9	14.0	15.1	22	25	34	74	80	83	86		
•	•		•	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	74	80	83	86		
•	•		•	40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	74	80	83	86		
•	•		•	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	74	80	83	85		
•	•		•	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	75	80	83	85		
•	•		•	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	75	80	83	86		
73°	•	•	•		0023	.30	–	–	.064	.091	.13	.14	.20	.23	.31	50	73	89	97	
	•	•	•		0039	.41	–	.074	.11	.15	.22	.24	.34	.40	.53	53	73	87	93	
	•	•	•		0077	.58	–	.15	.21	.30	.43	.46	.68	.78	1.0	53	73	86	92	
	•	•	•		0116	.71	.17	.22	.32	.46	.65	.70	1.0	1.2	1.6	54	73	85	90	
	•	•	•		0154	.81	.22	.29	.43	.61	.86	.93	1.4	1.6	2.1	55	73	84	88	
	•	•	•		0231	.96	.33	.44	.64	.91	1.3	1.4	2.0	2.4	3.1	56	73	83	87	
	•	•	•		0308	1.1	.44	.59	.86	1.2	1.7	1.9	2.7	3.1	4.2	58	73	82	86	
	•	•	•		0385	1.2	.56	.73	1.1	1.5	2.1	2.3	3.4	3.9	5.2	59	73	81	85	
	•	•	•		0462	1.4	.67	.88	1.3	1.8	2.6	2.8	4.1	4.7	6.2	60	73	80	84	
	•	•	•		0616	1.6	.89	1.2	1.7	2.4	3.4	3.7	5.4	6.3	8.3	63	73	79	83	
	•	•	•		0770	1.8	1.1	1.5	2.1	3.0	4.3	4.6	6.8	7.8	10.4	64	73	77	82	
	•	•	•		0924	1.9	1.3	1.8	2.6	3.6	5.2	5.6	8.2	9.4	12.5	65	73	77	80	

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
65°	•	•	•		0017	.28	-	-	.047	.067	.095	.10	.15	.17	.23	44	65	77	86	
	•	•	•		0025	.33	-	-	.070	.099	.14	.15	.22	.25	.34	45	65	77	84	
	•	•	•		0033	.38	-	-	.092	.13	.18	.20	.29	.34	.45	47	65	76	83	
	•	•	•		0050	.46	-	-	.14	.20	.28	.30	.44	.51	.67	48	65	75	82	
	•	•	•		0067	.53	-	.13	.19	.26	.37	.40	.59	.68	.90	50	65	75	81	
	•	•	•		01	.66	-	.19	.28	.39	.56	.60	.88	1.0	1.3	51	65	74	80	
	•	•	•		015	.81	-	.29	.42	.59	.84	.90	1.3	1.5	2.0	51	65	74	80	
	•	•	•		02	.89	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	52	65	73	79	
	•	•	•		025	.99	.36	.48	.70	.99	1.4	1.5	2.2	2.5	3.4	52	65	73	79	
	•	•	•		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	53	65	72	78	
	•	•	•		035	1.2	.50	.67	.98	1.4	2.0	2.1	3.1	3.6	4.7	53	65	72	78	
	•	•	•		04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	53	65	72	76	
	•	•	•		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	53	65	72	76	
	•	•	•		055	1.5	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	53	65	72	76	
	•	•	•		06	1.6	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	54	65	72	75	
	•	•	•		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	54	65	72	75	
	•	•	•		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	55	65	71	74	
	•	•	•		09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	55	65	71	74	
	•	•		•	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	56	65	71	74	
	•	•		•	11	2.1	1.6	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8	56	65	71	74	
•	•		•	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	56	65	71	74		
•	•		•	13	2.3	1.9	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	56	65	71	74		
•	•		•	14	2.4	2.0	2.7	3.9	5.5	7.8	8.4	12.4	14.3	18.9	56	65	71	74		
•	•		•	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	56	65	70	73		
•	•		•	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	57	65	70	73		
•	•		•	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	58	65	69	72		
•	•		•	40	3.8	5.8	7.6	11.2	15.8	22	24	35	41	54	59	65	68	72		
•	•		•	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	60	65	68	71		
•	•		•	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	60	65	68	71		
•	•		•	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	60	65	68	71		
50°	•	•	•		0017	.28	-	-	.047	.067	.095	.10	.15	.17	.23	27	50	65	74	
	•	•	•		0025	.33	-	-	.070	.099	.14	.15	.22	.25	.34	29	50	64	71	
	•	•	•		0033	.38	-	-	.092	.13	.18	.20	.29	.34	.45	30	50	62	68	
	•	•	•		0050	.46	-	-	.14	.20	.28	.30	.44	.51	.67	32	50	60	66	
	•	•	•		0067	.53	-	-	.19	.26	.37	.40	.59	.68	.90	35	50	60	66	
	•	•	•		01	.66	-	.19	.28	.39	.56	.60	.88	1.0	1.3	37	50	59	65	
	•	•	•		015	.81	-	.29	.42	.59	.84	.90	1.3	1.5	2.0	38	50	58	64	
	•	•	•		02	.89	-	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	39	50	57	63	

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
50°	●	●	●		025	.99	.36	.48	.70	.99	1.4	1.5	2.2	2.5	3.4	40	50	57	63	
	●	●	●		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	40	50	56	62	
	●	●	●		035	1.2	.50	.67	.98	1.4	2.0	2.1	3.1	3.6	4.7	40	50	56	61	
	●	●	●		04	1.3	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	42	50	56	61	
	●	●	●		05	1.4	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	44	50	56	61	
	●	●	●		06	1.5	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	45	50	56	60	
	●	●	●		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	45	50	56	60	
	●	●	●		075	1.7	1.1	1.4	2.1	3.0	4.2	4.5	6.6	7.6	10.1	45	50	55	60	
	●	●	●		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	45	50	55	60	
	●	●	●		09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	45	50	55	59	
	●	●		●	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	45	50	55	59	
	●	●		●	13	2.3	1.9	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	45	50	55	59	
	●	●		●	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	45	50	55	59	
	●	●		●	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	45	50	55	59	
	●	●		●	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	45	50	55	59	
	●	●		●	40	3.8	5.8	7.6	11.2	15.8	22	24	35	41	54	46	50	54	59	
	●	●		●	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	46	50	54	59	
	●	●		●	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	46	50	54	59	
●	●		●	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	46	50	54	59		
40°	●	●	●		0017	.28	–	–	.047	.067	.095	.10	.15	.17	.23	21	40	54	61	
	●	●	●		0025	.33	–	–	.070	.099	.14	.15	.22	.25	.34	22	40	53	60	
	●	●	●		0033	.38	–	–	.092	.13	.18	.20	.29	.34	.45	22	40	53	60	
	●	●	●		0050	.46	–	–	.14	.20	.28	.30	.44	.51	.67	22	40	53	60	
	●	●	●		0067	.53	–	–	.19	.26	.37	.40	.59	.68	.90	24	40	53	60	
	●	●	●		01	.66	–	–	.28	.39	.56	.60	.88	1.0	1.3	26	40	52	59	
	●	●	●		015	.81	–	–	.42	.59	.84	.90	1.3	1.5	2.0	27	40	52	59	
	●	●	●		02	.89	–	.38	.56	.79	1.1	1.2	1.8	2.0	2.7	29	40	51	58	
	●	●	●		025	.99	–	.48	.70	.99	1.4	1.5	2.2	2.5	3.4	29	40	51	58	
	●	●	●		03	1.1	–	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0	30	40	50	57	
	●	●	●		04	1.3	–	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	30	40	50	56	
	●	●	●		05	1.4	–	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	31	40	49	55	
	●	●	●		055	1.5	–	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	31	40	49	55	
	●	●	●		06	1.6	–	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	31	40	49	55	
	●	●	●		07	1.7	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	31	40	49	55	
	●	●	●		08	1.8	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	31	40	47	53	
	●	●	●		09	1.9	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	32	40	45	48	
	●	●		●	10	2.0	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	32	40	45	48	
	●	●		●	11	2.1	1.6	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8	32	40	45	48	
	●	●		●	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	32	40	45	48	
●	●		●	13	2.3	1.9	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	32	40	45	48		
●	●		●	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	32	40	45	48		
●	●		●	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	32	40	45	48		

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
40°	•	•		•	25	3.1	3.6	4.8	7.0	9.9	14.0	15.1	22	25	34	32	40	45	48	
	•	•		•	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	33	40	45	48	
	•	•		•	40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	34	40	45	48	
	•	•		•	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	35	40	45	48	
	•	•		•	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	35	40	45	48	
	•	•		•	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	35	40	45	48	
25°	•	•	•		0017	.28	-	-	-	.067	.095	.10	.15	.17	.23	-	25	35	47	
	•	•	•		0025	.33	-	-	-	.099	.14	.15	.22	.25	.34	-	25	35	45	
	•	•	•		0033	.38	-	-	-	.13	.18	.20	.29	.34	.45	-	25	34	44	
	•	•	•		0050	.46	-	-	-	.20	.28	.30	.44	.51	.67	-	25	34	43	
	•	•	•		0067	.53	-	-	-	.26	.37	.40	.59	.68	.90	-	25	34	42	
	•	•	•		01	.66	-	-	.28	.39	.56	.60	.88	1.0	1.3	14	25	34	42	
	•	•	•		015	.81	-	-	.42	.59	.84	.90	1.3	1.5	2.0	15	25	34	41	
	•	•	•		02	.89	-	-	.56	.79	1.1	1.2	1.8	2.0	2.7	15	25	33	40	
	•	•	•		03	1.1	-	-	.84	1.2	1.7	1.8	2.6	3.1	4.0	15	25	33	40	
	•	•	•		04	1.3	-	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4	16	25	32	39	
	•	•	•		05	1.4	-	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7	16	25	32	39	
	•	•	•		055	1.5	-	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4	16	25	32	39	
	•	•	•		06	1.6	-	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1	17	25	31	38	
	•	•	•		07	1.7	-	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4	17	25	31	38	
	•	•	•		08	1.8	-	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8	17	25	31	38	
	•	•	•		09	1.9	-	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1	17	25	31	38	
	•	•		•	10	2.0	-	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5	18	25	31	37	
	•	•		•	13	2.3	-	2.5	3.6	5.1	7.3	7.8	11.5	13.3	17.5	18	25	31	37	
	•	•		•	15	2.5	-	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	18	25	31	37	
	•	•		•	20	2.8	-	3.8	5.6	7.9	11.2	12.1	17.7	20	27	19	25	31	37	
•	•		•	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	20	25	30	36		
•	•		•	40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	21	25	29	35		
•	•		•	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	21	25	29	35		
•	•		•	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	22	25	29	35		
•	•		•	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	22	25	29	35		
15°	•	•	•		0017	.28	-	-	-	.067	.095	.10	.15	.17	.23	-	15	30	37	
	•	•	•		0025	.33	-	-	-	.099	.14	.15	.22	.25	.34	-	15	28	34	
	•	•	•		0033	.38	-	-	-	.13	.18	.20	.29	.34	.45	-	15	27	32	
	•	•	•		0050	.46	-	-	-	.20	.28	.30	.44	.51	.67	-	15	26	30	
	•	•	•		0067	.53	-	-	-	.26	.37	.40	.59	.68	.90	-	15	25	29	
	•	•	•		01	.66	-	-	-	.39	.56	.60	.88	1.0	1.3	-	15	24	28	
	•	•	•		015	.81	-	-	-	.59	.84	.90	1.3	1.5	2.0	-	15	23	27	
	•	•	•		02	.89	-	-	.56	.79	1.1	1.2	1.8	2.0	2.7	6	15	22	27	
	•	•	•		03	1.1	-	-	.84	1.2	1.7	1.8	2.6	3.1	4.0	6	15	22	27	
	•	•	•		04	1.3	-	-	1.1	1.6	2.2	2.4	3.5	4.1	5.4	7	15	21	26	
	•	•	•		05	1.4	-	-	1.4	2.0	2.8	3.0	4.4	5.1	6.7	7	15	21	26	
	•	•	•		055	1.5	-	-	1.5	2.2	3.1	3.3	4.9	5.6	7.4	7	15	21	26	

Other body types may be available. Contact your sales engineer for further information.
Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 13802, TPU, 58102 AND 49803

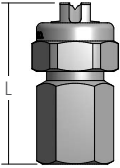
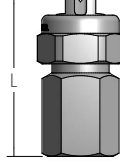
Spray Angle at 3 bar	UniJet Tip Type				Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	13802	TPU	58102	49803			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar	
15°	●	●	●		06	1.6	-	-	1.7	2.4	3.4	3.6	5.3	6.1	8.1	8	15	21	26	
	●	●	●		07	1.7	-	-	2.0	2.8	3.9	4.2	6.2	7.1	9.4	8	15	21	26	
	●	●	●		08	1.8	-	-	2.2	3.2	4.5	4.8	7.1	8.2	10.8	9	15	20	25	
	●	●	●		09	1.9	-	-	2.5	3.6	5.0	5.4	7.9	9.2	12.1	9	15	20	25	
	●	●		●	10	2.0	-	-	2.8	3.9	5.6	6.0	8.8	10.2	13.5	10	15	19	24	
	●	●		●	11	2.1	-	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8	10	15	19	24	
	●	●		●	12	2.2	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	10	15	19	24	
	●	●		●	15	2.5	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20	10	15	19	24	
	●	●		●	20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	10	15	19	23	
	●	●		●	30	3.4	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40	10	15	19	21	
	●	●		●	40	3.9	5.8	7.6	11.2	15.8	22	24	35	41	54	10	15	18	21	
	●	●		●	50	4.4	7.2	9.5	14.0	19.7	28	30	44	51	67	11	15	18	21	
	●	●		●	60	4.8	8.6	11.4	16.8	24	34	36	53	61	81	11	15	18	21	
●	●		●	70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	11	15	18	21		
0°	●	●			0009	.20	.013	.017	.025	.036	.050	.054	.079	.092	.12	0 (solid stream)				
	●	●			0012	.25	.017	.023	.034	.047	.067	.072	.11	.12	.16					
	●	●			0019	.30	.027	.036	.053	.075	.11	.11	.17	.19	.26					
	●	●			0021	.33	.030	.040	.059	.083	.12	.13	.19	.21	.28					
	●	●			0033	.41	.048	.063	.092	.13	.18	.20	.29	.34	.45					
	●	●			0050	.48	.072	.095	.14	.20	.28	.30	.44	.51	.67					
	●	●			0067	.58	.097	.13	.19	.26	.37	.40	.59	.68	.90					
	●	●			01	.71	.14	.19	.28	.39	.56	.60	.88	1.0	1.3					
	●	●			015	.86	.22	.29	.42	.59	.84	.90	1.3	1.5	2.0					
	●	●			02	.99	.29	.38	.56	.79	1.1	1.2	1.8	2.0	2.7					
	●	●			03	1.2	.43	.57	.84	1.2	1.7	1.8	2.6	3.1	4.0					
	●	●			04	1.4	.58	.76	1.1	1.6	2.2	2.4	3.5	4.1	5.4					
	●	●			045	1.5	.65	.86	1.3	1.8	2.5	2.7	4.0	4.6	6.1					
	●	●			05	1.6	.72	.95	1.4	2.0	2.8	3.0	4.4	5.1	6.7					
	●	●			055	1.7	.79	1.0	1.5	2.2	3.1	3.3	4.9	5.6	7.4					
	●	●			06	1.7	.86	1.1	1.7	2.4	3.4	3.6	5.3	6.1	8.1					
	●	●			065	1.8	.94	1.2	1.8	2.6	3.6	3.9	5.7	6.6	8.8					
	●	●			07	1.9	1.0	1.3	2.0	2.8	3.9	4.2	6.2	7.1	9.4					
	●	●			08	2.0	1.2	1.5	2.2	3.2	4.5	4.8	7.1	8.2	10.8					
	●	●			09	2.1	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1					
	●	●			10	2.2	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5					
	●	●			11	2.3	1.6	2.1	3.1	4.3	6.1	6.6	9.7	11.2	14.8					
	●	●			12	2.4	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2					
	●	●			15	2.7	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20					
●	●			20	3.1	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27						
●	●			30	3.6	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40						
●	●			40	4.1	5.8	7.6	11.2	15.8	22	24	35	41	54						

Other body types may be available. Contact your sales engineer for further information.

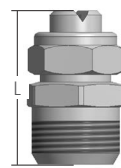
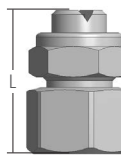
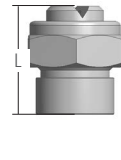
Highlighted column shows the rated pressure.



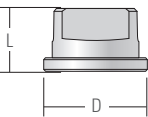
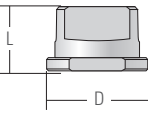
ASSEMBLY DIMENSIONS AND WEIGHTS:

Nozzle	Tip/Body Type	Conn. Size (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	TPU + T (female) TPU + TT (male)	1/8, 1/4, 3/8, 1/2	40.9	13/16	0.06
	13802 + T (female) 13802 TT (male) +	1/8, 1/4, 3/8, 1/2	48.0	13/16	0.06

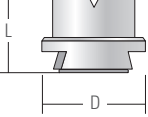
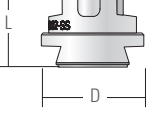
Based on the largest/heaviest version of each type.

Nozzle	Tip/Body Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	49803/58102 + 50868	1/4	37.6	3/4	0.07
	49803/58102 + 50869	1/4	37.3	3/4	0.06
	49803/58102 + 49801	Butt Weld	32.5	-	0.06

SPRAY TIP DIMENSIONS:

Spray Tip	Spray Tip Type	L (mm)	D (Dia.) (mm)	Wrench Flats (mm)	Dovetail Flats (mm)
	TPU	9.5	15.1	7.9	-
	13802	9.5	15.1	7.9	12.6

Based on the largest/heaviest version of each type.

Spray Tip	Spray Tip Type	L (mm)	D (Dia.) (mm)	Wrench Flats (mm)	Dovetail Flats (mm)
	49803	11.7	14.7	-	10.4
	58102	12.5	14.7	7.9	10.4

Based on the largest/heaviest version of each type.
Dovetail spray tips can be used on a variety of body types.

PERFORMANCE DATA
STANDARD ANGLE SPRAY TIPS: 45824

Nozzle Type/ Conn. Size (in.)		Orifice Dia. Nom. (mm)	Capacity Size	Flow Rate Capacity (liters per minute)*
45824				7 bar
1-1/4	1-1/2			
●	●	19.1	750	227
●	●	22.3	875	303
●	●	25.4	1000	378
●	●	28.6	1125	492
●	●	31.8	1250	568

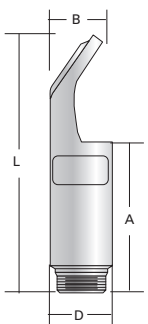
*Reference flow rates measured at 7 bar using water. Field studies indicate black liquor flow rates are approximately 50% of water flow rates. Spray angle 130°
Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY: U

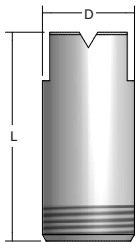
Spray Angle at 40 psi	Nozzle Type/ Conn. Size (in.)	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	U			0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar
	1-1/4															
65°	●	500	13.4	72	95	140	197	279	302	441	510	674	60	65	66	68
	●	500	13.4	72	95	140	197	279	302	441	510	674	49	50	51	54
50°	●	750	16.4	108	143	209	296	419	452	662	765	1011	49	50	51	53
	●	1000	19.0	144	191	279	395	558	603	883	1019	1349	49	50	51	53
25°	●	500	13.4	72	95	140	197	279	302	441	510	674	24	25	26	29
	●	750	16.4	108	143	209	296	419	452	662	765	1011	24	25	26	28
	●	1000	19.0	144	191	279	395	558	603	883	1019	1349	24	25	26	28
15°	●	500	13.4	72	95	140	197	279	302	441	510	674	14	15	16	17
	●	1000	19.0	144	191	279	395	558	603	883	1019	1349	14	15	16	17

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size (in.)	L (mm)	A (mm)	B (mm)	D (Dia.) (mm)	Net Weight (kg)
	45824	1-1/4	210	123	35.3	50.8	2.1

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size (in.)	L (mm)	D (Dia.) (mm)	Net Weight (kg)
	U	1-1/4	95.3	42.9	0.57

Based on the largest/heaviest version of each type.

PERFORMANCE DATA
WIDE ANGLE SPRAY: QSTK, QTKA

Conn. Size (in.)	Quick FloodJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			
	QSTK	QTKA			0.2 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
1/8, 1/4, 3/8, 1/2	●		.25	.43	–	–	–	.14	.16	.20	.23	–	83	117
	●	●	.50	.58	–	–	–	.28	.32	.39	.46	–	89	122
	●	●	.75	.74	–	–	.29	.42	.48	.59	.68	–	106	125
	●	●	1	.84	–	–	.38	.56	.64	.79	.91	–	109	128
	●	●	1.5	1.0	–	.48	.57	.84	.97	1.2	1.4	73	108	125
	●	●	2	1.2	–	.64	.76	1.1	1.3	1.6	1.8	83	113	129
	●	●	2.5	1.3	–	.81	.95	1.4	1.6	2.0	2.3	98	122	133
	●	●	3	1.4	–	.97	1.1	1.7	1.9	2.4	2.7	86	112	126
	●	●	4	1.7	–	1.3	1.5	2.2	2.6	3.2	3.6	97	123	132
	●	●	5	1.9	1.0	1.6	1.9	2.8	3.2	3.9	4.6	114	128	142
		●	7.5	2.3	1.5	2.4	2.9	4.2	4.8	5.9	6.8	101	119	134
		●	10	2.7	2.0	3.2	3.8	5.6	6.4	7.9	9.1	115	133	145
		●	12	2.9	2.4	3.9	4.6	6.7	7.7	9.5	10.9	128	139	153
		●	15	3.3	3.1	4.8	5.7	8.4	9.7	11.8	13.7	98	113	123
		●	18	3.6	3.7	5.8	6.9	10.1	11.6	14.2	16.4	106	120	131
	●	20	3.8	4.1	6.4	7.6	11.2	12.9	15.8	18.2	110	122	133	
3/8, 1/2		●	30	4.6	6.1	9.7	11.4	16.8	19.3	24	27	100	110	121
		●	40	5.3	8.2	12.9	15.3	22	26	32	36	111	126	136
		●	45	5.6	9.2	14.5	17.2	25	29	36	41	115	130	140
		●	60	6.5	12.2	19.3	23	34	39	47	55	120	134	142

Highlighted column shows the rated pressure.

PERFORMANCE DATA
WIDE ANGLE SPRAY: TK

Conn. Size (in.)	UniJet® FloodJet Tip Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			
	TK			0.2 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
1/4	●	.50	.58	–	–	–	.28	.32	.39	.46	–	89	122
	●	.75	.74	–	–	.29	.42	.48	.59	.68	–	106	125
	●	1	.84	–	–	.38	.56	.64	.79	.91	–	109	128
	●	1.5	1.0	–	.48	.57	.84	.97	1.2	1.4	73	108	125
	●	2	1.2	–	.64	.76	1.1	1.3	1.6	1.8	83	113	129
	●	2.5	1.3	–	.81	.95	1.4	1.6	2.0	2.3	98	122	133
	●	3	1.4	–	.97	1.1	1.7	1.9	2.4	2.7	86	112	126
	●	4	1.7	–	1.3	1.5	2.2	2.6	3.2	3.6	97	123	132
	●	5	1.9	1.0	1.6	1.9	2.8	3.2	3.9	4.6	114	128	142

Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.



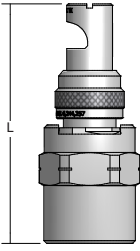
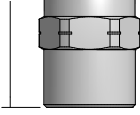
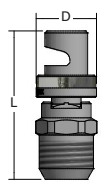
**PERFORMANCE DATA
 WIDE ANGLE SPRAY: TK**

Conn. Size (in.)	UniJet® FloodJet Tip Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)							Spray Angle (°)		
	TK			0.2 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
1/4	●	7.5	2.3	1.5	2.4	2.9	4.2	4.8	5.9	6.8	101	119	134
	●	10	2.7	2.0	3.2	3.8	5.6	6.4	7.9	9.1	115	133	145
	●	12	2.9	2.4	3.9	4.6	6.7	7.7	9.5	10.9	128	139	153
	●	15	3.3	3.1	4.8	5.7	8.4	9.7	11.8	13.7	98	113	123
	●	18	3.6	3.7	5.8	6.9	10.1	11.6	14.2	16.4	106	120	131
	●	20	3.8	4.1	6.4	7.6	11.2	12.9	15.8	18.2	110	122	133
	●	24	4.1	4.9	7.7	9.2	13.4	15.5	19.0	22	115	131	144
	●	30	4.6	6.1	9.7	11.4	16.8	19.3	24	27	100	110	121
	●	40	5.3	8.2	12.9	15.3	22	26	32	36	111	126	136
	●	50	5.9	10.2	16.1	19.1	28	32	39	46	117	131	140

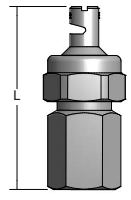
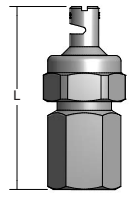
Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	QJA + QTKA	1/8, 1/4, 3/8, 1/2 female	64.3	1	—	0.14
	QJJA + QTKA	1/8, 1/4, 3/8, 1/2 male	61.9	7/8	—	0.13
	QJJS + QSTK	1/8, 1/4, 3/8, 1/2 male	37.3	9/16	15.1	0.04

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	T + TK	1/4 female	50.8	13/16	—	0.07
	TT + TK	1/4 male	50.8	13/16	—	0.06

Based on the largest/heaviest version of each type.



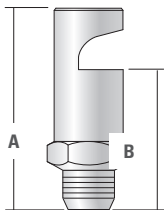
PERFORMANCE DATA
WIDE ANGLE SPRAY: K, 11499, 13063

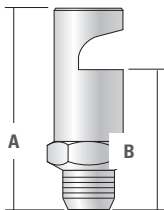
Nozzle Type			Conn. Size (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			
K	11499	13063	1/8	1/4	3/8	1/2	3/4	1			0.2 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
•			•						.25	.43	–	–	–	.14	.16	.20	.23	–	83	117
•			•						.50	.58	–	–	–	.28	.32	.39	.46	–	89	122
•			•						.75	.74	–	–	.29	.42	.48	.59	.68	–	106	125
•			•						1	.84	–	–	.38	.56	.64	.79	.91	–	103	128
•			•						1.5	1.0	–	.48	.57	.84	.97	1.2	1.4	73	103	125
•	•	•	•	•					2	1.2	–	.64	.76	1.1	1.3	1.6	1.8	83	113	129
•	•		•	•					2.5	1.3	–	.81	.95	1.4	1.6	2.0	2.3	98	122	133
•	•		•	•					3	1.4	–	.97	1.1	1.7	1.9	2.4	2.7	86	112	126
•	•	•	•						4	1.7	–	1.3	1.5	2.2	2.6	3.2	3.6	97	123	132
•	•	•	•	•					5	1.9	1.0	1.6	1.9	2.8	3.2	3.9	4.6	114	128	142
•	•	•	•	•					7.5	2.3	1.5	2.4	2.9	4.2	4.8	5.9	6.8	101	119	134
•	•	•	•	•					10	2.7	2.0	3.2	3.8	5.6	6.4	7.9	9.1	115	133	145
•			•	•					12	2.9	2.4	3.9	4.6	6.7	7.7	9.5	10.9	128	139	153
•	•		•	•					15	3.3	3.1	4.8	5.7	8.4	9.7	11.8	13.7	98	113	123
•	•		•	•					18	3.6	3.7	5.8	6.9	10.1	11.6	14.2	16.4	106	120	131
•			•	•					20	3.8	4.1	6.4	7.6	11.2	12.9	15.8	18.2	110	122	133
•			•						22	3.9	4.5	7.1	8.4	12.3	14.2	17.4	20	113	125	136
•			•						24	4.1	4.9	7.7	9.2	13.4	15.5	19.0	22	115	131	144
•			•						27	4.4	5.5	8.7	10.3	15.1	17.4	21	25	119	135	148
•				•					30	4.6	6.1	9.7	11.4	16.8	19.3	24	27	100	110	121
•				•					35	5.0	7.1	11.3	13.3	19.5	23	28	32	105	118	128
•				•	•				40	5.3	8.2	12.9	15.3	22	26	32	36	111	126	136
•				•					45	5.6	9.2	14.5	17.2	25	29	36	41	115	130	140
•					•				50	5.9	10.2	16.1	19.1	28	32	39	46	117	131	140
•					•				60	6.5	12.2	19.3	23	34	39	47	55	120	134	142
•					•				70	7.0	14.3	23	27	39	45	55	64	123	137	146
•					•				80	7.5	16.3	26	31	45	52	63	73	127	138	149
•						•			90	8.1	18.3	29	34	50	58	71	82	120	133	140
•						•			100	8.5	20	32	38	56	64	79	91	123	136	145
•						•			110	8.9	22	35	42	61	71	87	100	125	138	148
•						•			120	9.3	24	39	46	67	77	95	109	129	143	150
•						•			140	10.0	29	45	53	78	90	111	128	118	127	135
•						•			160	10.7	33	52	61	89	103	126	146	121	130	137
•						•			180	11.4	37	58	69	101	116	142	164	124	133	139
•						•			210	12.3	43	68	80	117	135	166	191	128	139	145
•							•		300	14.8	61	97	114	168	193	237	274	110	128	135
•							•		450	18.0	92	145	172	251	290	355	410	118	132	138

Highlighted column shows the rated pressure.



DIMENSIONS AND WEIGHTS



Nozzle	Nozzle Type	Conn. Size/Type (in.)	A (mm)	B (mm)	Hex. (in.)	Net Weight (kg)	
	K	1/8 male	32.5	18.6	7/16	.01	
		1/4 male	34.1	21.8	9/16	.03	
		3/8 male	44.5	25.4	11/16	.06	
		1/2 male	50.8	30.2	7/8	.11	
		3/4 male	65.1	39.7	1-1/2	.40	
		1 male	90.1	55.6	1-7/8	.91	
	11499		1/8 male	40.5	28.2	9/16	.01
	13063		1/8 male	40.5	31.8	7/16	.01

Based on the largest/heaviest version of each type.

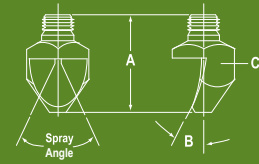
METRIC UNITS

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
NARROW ANGLE SPRAY: P

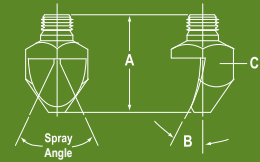


Spray Angle at 3 bar	Nozzle Type P	Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			Dimensions			
		1/8	1/4	3/8	1/2	3/4			1 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	1 bar	3 bar	7 bar	A Length (mm)	B Deflection Angle (°)	C Bar Size (mm sq.)	Net Weight (kg)
50°	•		•				05	1.3	1.1	1.4	2.0	2.8	3.0	3.6	33	50	60	31	60	15.9	.03
	•		•				10	1.9	2.3	2.8	3.9	5.6	6.0	7.2	34	50	60	31	60	15.9	.03
	•		•	•			25	3.0	5.7	7.0	9.9	14.0	15.1	18.0	42	50	59	41.5	42	19.1	.09
	•		•	•			40	3.8	9.1	11.2	15.8	22	24	29	39	50	60	47	45	19.1	.09
	•			•			60	4.6	13.7	16.8	24	34	36	43	42	50	53	55	37	25.4	.14
	•			•			100	5.9	23	28	39	56	60	72	43	50	55	72	40	31.8	.33
	•			•			125	6.6	28	35	49	70	75	90	38	50	59	72	38	31.8	.31
	•			•			160	7.5	36	45	63	89	96	115	44	50	55	72	37	31.8	.31
	•			•			200	8.4	46	56	79	112	121	144	46	50	53	72	32	31.8	.31
40°	•			•			40	3.8	9.1	11.2	15.8	22	24	29	31	40	50	60.5	35	22.2	.14
	•			•			50	4.2	11.4	14.0	19.7	28	30	36	31	40	49	63.5	33	25.4	.20
	•			•			60	4.6	13.7	16.8	24	34	36	43	32	40	49	72	33	25.4	.23
	•			•			70	5.0	16.0	19.5	28	39	42	50	32	40	49	75.5	29	25.4	.26
	•			•			80	5.3	18.2	22	32	45	48	58	32	40	48	77	26	25.4	.26
	•			•			90	5.6	21	25	36	50	54	65	34	40	44	77	28	25.4	.23
	•			•			100	5.9	23	28	39	56	60	72	35	40	44	86.5	28	25.4	.26
35°	•	•					04	1.2	.91	1.1	1.6	2.2	2.4	2.9	20	35	41	23	40	11.1	.01
	•		•				10	1.9	2.3	2.8	3.9	5.6	6.0	7.2	18	35	39	36.5	36	15.9	.06
	•		•	•			20	2.7	4.6	5.6	7.9	11.2	12.1	14.4	24	35	40	42	30	19.1	.06
	•			•			25	3.0	5.7	7.0	9.9	14.0	15.1	18.0	24	35	39	49	28	19.1	.09
	•			•			30	3.3	6.8	8.4	11.8	16.8	18.1	22	26	35	41	52.5	28	19.1	.09
	•			•			40	3.8	9.1	11.2	15.8	22	24	29	28	35	38	58	26	22.2	.11
	•			•			50	4.2	11.4	14.0	19.7	28	30	36	31	35	38	63.5	23	22.2	.14
	•				•		60	4.6	13.7	16.8	24	34	36	43	29	35	39	73	27	25.4	.23
	•				•		80	5.3	18.2	22	32	45	48	58	26	35	40	81	24	25.4	.26
	•				•		100	5.9	23	28	39	56	60	72	26	35	40	89	19	25.4	.26
	•					•	160	7.5	36	45	63	89	96	115	26	35	40	114	23	31.8	.57
	•					•	200	8.4	46	56	79	112	121	144	25	35	40	122	22	31.8	.57

Highlighted column shows the rated pressure.



**PERFORMANCE DATA
NARROW ANGLE SPRAY: P**



Spray Angle at 3 bar	Nozzle Type	Conn. Size (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			Dimensions			
		1/8	1/4	3/8	1/2	3/4			1 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	1 bar	3 bar	7 bar	A Length (mm)	B Deflection Angle (°)	C Bar Size (mm sq.)	Net Weight (kg)
25°	●		●				40	3.8	9.1	11.2	15.8	22	24	29	15	25	34	65	25	19.1	.11
	●		●				10	1.9	–	2.8	3.9	5.6	6.0	7.2	–	15	23	47.5	22	15.9	.06
15°	●		●				20	2.7	–	5.6	7.9	11.2	12.1	14.4	–	15	19	54	19	15.9	.06
	●			●			30	3.3	6.8	8.4	11.8	16.8	18.1	22	6	15	24	72	25	19.1	.11
	●			●			40	3.8	9.1	11.2	15.8	22	24	29	8	15	21	92	18	22.2	.23
	●			●			50	4.2	11.4	14.0	19.7	28	30	36	9	15	20	90.5	15	22.2	.17
	●				●		60	4.6	13.7	16.8	24	34	36	43	10	15	19	125	14	25.4	.34
	●				●		80	5.3	18.2	22	32	45	48	58	11	15	18	130	14	25.4	.34
	●					●	100	5.9	23	28	39	56	60	72	11	15	18	131	14	25.4	.40
	●						200	8.4	46	56	79	112	121	144	12	15	18	165	14	31.8	.73

Highlighted column shows the rated pressure.

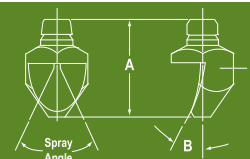
**PERFORMANCE DATA
NARROW ANGLE SPRAY: 115220**

Spray Angle at 3 bar	Nozzle Type	Conn. Size (in.)	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						Spray Angle (°)			Dimensions		
					1 bar	1.5 bar	3 bar	5.5 bar	7 bar	10 bar	15 bar	40 bar	100 bar	A Length (mm)	B Deflection Angle (°)	C Bar Size (mm sq.)
35°	●	●	20	2.7	4.6	5.6	7.9	10.7	12.1	14.4	42	50	59	62	45	22.2
	●	●	30	3.3	6.8	8.4	11.8	16.0	18.1	22	42	50	59	62	45	22.2
	●	●	40	3.8	9.1	11.2	15.8	21	24	29	39	50	60	62	45	22.2
50°	●	●	20	2.7	4.6	5.6	7.9	10.7	12.1	14.4	24	35	40	73	28	22.2
	●	●	30	3.3	6.8	8.4	11.8	16.0	18.1	22	26	35	41	73	28	22.2
	●	●	40	3.8	9.1	11.2	15.8	21.0	24	29	28	35	38	73	28	22.2

Highlighted column shows the rated pressure.



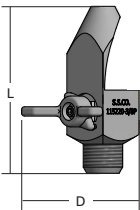
PERFORMANCE DATA
NARROW ANGLE SPRAY: QLPA



Spray Angle at 3 bar	Nozzle Type	Conn. Size (in.)		Capacity Size	Equiv. Orifice Dia. (mm)	Capacity (liters per minute)										Spray Angle (°)			Dimensions			
		3/8	1/2			1	1.5	2	3	4	6	7	10	15	40	100	A Length (mm)	B Deflection Angle (°)	C Bar Size (mm sq.)	Net Weight (kg)		
50°	●	●	●	60	4.6	13.7	16.8	19.3	24	27	34	36	43	42	50	53	81	37	25.4	.23		
				125	6.6	28	35	40	49	57	70	75	90	38	50	59	98	38	32	.24		
35°	●	●	●	60	4.6	13.7	16.8	19.3	24	27	34	36	43	29	35	39	98	27	25.4	.23		
				80	5.3	18.2	22	26	32	36	45	48	58	26	35	40	106	24	32	.24		

Highlighted column shows the rated pressure.

DIMENSIONS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	D (Dia.) (mm)
	115220	3/8	72.6	51.1

Based on the largest/heaviest version of each type.

PERFORMANCE DATA
STANDARD ANGLE SPRAY: AX, BX

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
	AX	BX				0.2 bar	0.4 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.7 bar	1.5 bar	6 bar
1/8	●	●	.5	.79	1.2	–	–	.19	.23	.28	.32	.39	.46	.56	.60	39	58	69
	●	●	1	1.6	1.6	–	–	.38	.46	.56	.64	.79	.91	1.1	1.2	41	64	76
	●	●	2	2.0	2.0	–	.58	.76	.91	1.1	1.3	1.6	1.8	2.2	2.4	52	61	69
	●	●	3	2.4	2.4	–	.86	1.1	1.4	1.7	1.9	2.4	2.7	3.4	3.6	52	64	77
	●	●	5	3.2	3.2	1.0	1.4	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	56	67	76
	●	●	8	4.0	4.0	1.6	2.3	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	56	65	70
	●	●	10	4.4	4.4	2.0	2.9	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	55	65	72
1/4	●	●	1	1.6	1.6	–	–	.38	.46	.56	.64	.79	.91	1.1	1.2	47	53	67
	●	●	2	2.0	2.0	–	–	.76	.91	1.1	1.3	1.6	1.8	2.2	2.4	56	62	71
	●	●	3	2.4	2.4	–	.86	1.1	1.4	1.7	1.9	2.4	2.7	3.4	3.6	51	65	78
	●	●	5	3.6	3.6	1.0	1.4	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	63	73	79
	●	●	8	4.0	4.0	1.6	2.3	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	61	69	73
	●	●	10	4.8	4.4	2.0	2.9	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	63	70	74
	●	●	15	5.9	5.2	3.1	4.3	5.7	6.8	8.4	9.7	11.8	13.7	16.8	18.1	63	71	72
3/8	●	●	5	3.6	3.2	1.0	1.4	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	64	73	79
	●	●	8	4.4	4.0	1.6	2.3	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	62	70	74
	●	●	10	5.2	4.4	2.0	2.9	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	64	72	75
	●	●	15	5.9	5.6	3.1	4.3	5.7	6.8	8.4	9.7	11.8	13.7	16.8	18.1	64	72	74
	●	●	20	7.1	6.4	4.1	5.8	7.6	9.1	11.2	12.9	15.8	18.2	22	24	63	70	74
	●	●	25	7.5	7.5	5.1	7.2	9.5	11.4	14.0	16.1	19.7	23	28	30	63	70	74
	●	●	30	8.3	7.9	6.1	8.6	11.4	13.7	16.8	19.3	24	27	34	36	63	70	74
1/2	●	●	25	9.5	6.4	5.1	7.2	9.5	11.4	14.0	16.1	19.7	23	28	30	63	66	71
	●	●	30	9.5	7.5	6.1	8.6	11.4	13.7	16.8	19.3	24	27	34	36	67	71	75
	●	●	40	9.5	9.1	8.2	11.5	15.3	18.2	22	26	32	36	45	48	72	76	78
	●	●	50	9.5	11.1	10.2	14.4	19.1	23	28	32	39	46	56	60	74	79	82
	●	●	60	9.5	13.1	12.2	17.3	23	27	34	39	47	55	67	72	77	82	86
3/4	●	●	40	12.7	7.9	8.2	11.5	15.3	18.2	22	26	32	36	45	48	70	73	74
	●	●	50	12.7	9.5	10.2	14.4	19.1	23	28	32	39	46	56	60	72	75	77
	●	●	60	12.7	11.1	12.2	17.3	23	27	34	39	47	55	67	72	74	76	79
	●	●	70	12.7	12.7	14.3	20	27	32	39	45	55	64	78	84	76	79	83
	●	●	80	12.7	14.3	16.3	23	31	36	45	52	63	73	89	96	78	82	84
	●	●	90	12.7	14.7	18.3	26	34	41	50	58	71	82	101	109	81	84	84
	●	●	100	12.7	15.9	20	29	38	46	56	64	79	91	112	121	83	86	86
	●	●	110	12.7	17.1	22	32	42	50	61	71	87	100	123	133	85	88	88
	●	●	120	12.7	18.3	24	35	46	55	67	77	95	109	134	145	87	90	90

Intermediate capacities: Caps are interchangeable for in-between capacities within each pipe size group. Request Data Sheets 3055, 3986 and 3987.
Spray dimension data: Request Data Sheets 15350 and 15362.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: CX

Conn. Size (in.)	Nozzle Type CX	Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)												Spray Angle (°)		
					0.2 bar	0.3 bar	0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar
1	●	7	17.5	11.5	17.1	21	24	27	32	38	47	54	66	76	93	101	64	65	66
	●	8	17.5	12.7	19.5	24	28	31	36	44	53	62	76	87	107	115	65	66	67
	●	9	17.5	14.3	22	27	31	35	41	49	60	69	85	98	120	130	66	67	69
	●	10	17.5	15.5	24	30	34	39	46	54	67	77	94	109	133	144	67	69	71
	●	12	17.5	17.1	29	36	41	46	55	65	80	92	113	131	160	173	70	73	75
	●	15	17.5	20.6	37	45	52	58	68	82	100	116	142	163	200	216	76	79	81
1-1/4	●	10	21.4	14.3	24	30	34	39	46	54	67	77	94	109	133	144	65	67	67
	●	12	21.4	16.3	29	36	41	46	55	65	80	92	113	131	160	173	68	70	71
	●	14	21.4	18.3	34	42	48	54	64	76	93	108	132	153	187	202	71	73	75
	●	16	21.4	20.2	39	48	55	62	73	87	107	123	151	174	214	231	74	75	77
	●	20	21.4	24.2	49	60	69	77	91	109	133	154	189	218	267	288	76	77	79
1-1/2	●	16	27.8	17.5	39	48	55	62	73	87	107	123	151	174	214	231	64	67	69
	●	20	27.8	21.8	49	60	69	77	91	109	133	154	189	218	267	288	69	72	74
	●	25	27.8	25.8	61	75	86	96	114	136	167	193	236	272	334	360	72	74	76
	●	30	27.8	28.6	73	90	103	116	137	163	200	231	283	327	400	432	74	76	78
2	●	30	36.5	23.8	73	90	103	116	137	163	200	231	283	327	400	432	66	67	70
	●	35	36.5	27.0	85	104	121	135	160	191	234	270	330	381	467	505	68	70	73
	●	40	36.5	30.2	97	119	138	154	182	218	267	308	378	436	534	577	70	72	75
	●	45	36.5	32.9	110	134	155	173	205	245	300	347	425	490	601	649	72	74	78
	●	50	36.5	36.1	122	149	172	193	228	272	334	385	472	545	667	721	74	77	82
	●	60	36.5	39.7	146	179	207	231	274	327	400	462	566	654	801	865	77	79	84
2-1/2	●	60	47.6	36.1	146	179	207	231	274	327	400	462	566	654	801	865	67	68	71
	●	70	47.6	40.5	171	209	241	270	319	381	467	539	661	763	934	1009	69	71	74
	●	80	47.6	44.1	195	239	276	308	365	436	534	616	755	872	1068	1153	71	73	77
	●	90	47.6	47.6	219	269	310	347	410	490	601	694	849	981	1201	1297	73	75	80
	●	100	47.6	50.8	244	298	345	385	456	545	667	771	944	1090	1335	1442	77	79	83

Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: CF, CRC

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
	CF	CRC				0.2 bar	0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.5 bar	1.5 bar	4 bar
1-1/4		●	10-45	21.4	13.1	24	34	39	46	67	77	94	109	133	144	45	49	52
		●	12-45	21.4	14.3	29	41	46	55	80	92	113	131	160	173	45	49	51
		●	14-45	21.4	16.7	34	48	54	64	93	108	132	153	187	202	45	48	51
		●	16-45	21.4	19.1	39	55	62	73	107	123	151	174	214	231	45	48	50
		●	20-45	21.4	22.2	49	69	77	91	133	154	189	218	267	288	45	47	49
2		●	30-45	36.5	23.8	73	103	116	137	200	231	283	327	400	432	45	49	52
		●	35-45	36.5	27.0	85	121	135	160	234	270	330	381	467	505	45	49	51
		●	40-45	36.5	30.2	97	138	154	182	267	308	378	436	534	577	45	48	50
		●	45-45	36.5	32.1	110	155	173	205	300	347	425	490	601	649	45	48	50
		●	50-45	36.5	34.9	122	172	193	228	334	385	472	545	667	721	45	47	49
		●	55-45	36.5	36.9	134	190	212	251	367	424	519	599	734	793	45	47	49
3		●	70	57.2	34.9	171	241	270	319	467	539	661	763	934	1009	65	66	69
		●	85	57.2	40.1	207	293	327	388	567	655	802	926	1134	1225	67	68	71
		●	100	57.2	44.5	244	345	385	456	667	771	944	1090	1335	1442	69	72	74
		●	120	57.2	52.4	292	414	462	547	801	925	1133	1308	1602	1730	71	73	77
		●	140	57.2	58.7	341	482	539	638	934	1079	1321	1526	1869	2018	73	75	80
		●	70-45	57.2	34.9	171	241	270	319	467	539	661	763	934	1009	45	49	52
		●	85-45	57.2	40.1	207	293	327	388	567	655	802	926	1134	1225	45	49	51
		●	100-45	57.2	44.5	244	345	385	456	667	771	944	1090	1335	1442	45	48	51
		●	120-45	57.2	51.2	292	414	462	547	801	925	1133	1308	1602	1730	45	48	50
		●	140-45	57.2	58.7	341	482	539	638	934	1079	1321	1526	1869	2018	45	47	49
4	●	●	150	79.4	50.8	366	517	578	684	1001	1156	1416	1635	2002	2162	66	67	70
	●	●	175	79.4	59.1	426	603	674	798	1168	1349	1652	1907	2336	2523	68	70	71
	●	●	200	79.4	68.3	487	689	771	912	1335	1541	1888	2180	2669	2883	70	72	74
	●	●	225	79.4	74.6	548	775	867	1026	1502	1734	2123	2452	3003	3244	72	74	77
	●	●	250	79.4	82.6	609	862	963	1140	1668	1926	2359	2724	3337	3604	74	76	81
	●	●	275	79.4	92.1	670	948	1060	1254	1835	2119	2595	2997	3670	3964	78	80	83
	●	●	150-45	79.4	50.8	366	517	578	684	1001	1156	1416	1635	2002	2162	45	49	52
	●	●	175-45	79.4	59.1	426	603	674	798	1168	1349	1652	1907	2336	2523	45	49	51
	●	●	200-45	79.4	68.3	487	689	771	912	1335	1541	1888	2180	2669	2883	45	48	51
	●	●	225-45	79.4	74.6	548	775	867	1026	1502	1734	2123	2452	3003	3244	45	48	50
	●	●	250-45	79.4	82.6	609	862	963	1140	1668	1926	2359	2724	3337	3604	45	47	49
	6	●		250	124	62.3	609	862	963	1140	1668	1926	2359	2724	3337	3604	65	67
●			300	124	69.9	731	1034	1156	1368	2002	2312	2831	3269	4004	4325	66	68	70
●			350	124	76.2	853	1206	1349	1596	2336	2697	3303	3814	4671	5046	68	70	72
●			400	124	82.6	975	1378	1541	1824	2669	3082	3775	4359	5339	5767	70	73	75
●			450	124	88.1	1097	1551	1734	2051	3003	3468	4247	4904	6006	6487	72	75	77
●			500	124	97.2	1218	1723	1926	2279	3337	3853	4719	5449	6673	7208	74	76	79
●			550	124	108	1340	1895	2119	2507	3670	4238	5191	5994	7341	7929	76	79	83
●			625	124	130	1523	2154	2408	2849	4171	4816	5899	6811	8342	9010	78	81	86
●			440-65	124	88.1	1072	1516	1695	2006	2936	3391	4153	4795	5873	6343	60	61	62
●			550-65	124	108	1340	1895	2119	2507	3670	4238	5191	5994	7341	7929	64	65	66
●		625-65	124	130	1523	2154	2408	2849	4171	4816	5899	6811	8342	9010	65	66	67	



PERFORMANCE DATA

HOLLOW CONE
WHIRLJET® NOZZLES

METRIC UNITS

PERFORMANCE DATA
STANDARD ANGLE SPRAY: D

Conn. Size (in.)	Nozzle Type D	Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)												Spray Angle (°)		
					0.2 bar	0.3 bar	0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.7 bar	1.5 bar	4 bar
1/2	●	3	11.1	7.9	7.3	9.0	10.3	11.6	13.7	16.3	20	23	28	33	40	43	62	65	67
	●	4	11.1	9.9	9.7	11.9	13.8	15.4	18.2	22	27	31	38	44	53	58	68	71	73
	●	5	11.1	11.9	12.2	14.9	17.2	19.3	23	27	33	39	47	54	67	72	74	77	80
	●	7	11.1	13.9	17.1	21	24	27	32	38	47	54	66	76	93	101	77	80	83
3/4	●	4	14.3	9.1	9.7	11.9	13.8	15.4	18.2	22	27	31	38	44	53	58	63	66	67
	●	5	14.3	10.7	12.2	14.9	17.2	19.3	23	27	33	39	47	54	67	72	67	69	70
	●	6	14.3	12.3	14.6	17.9	21	23	27	33	40	46	57	65	80	86	71	73	77
	●	7	14.3	13.9	17.1	21	24	27	32	38	47	54	66	76	93	101	73	75	80
	●	10	14.3	16.7	24	30	34	39	46	54	67	77	94	109	133	144	77	80	84

Highlighted column shows the rated pressure.

PERFORMANCE DATA
STANDARD ANGLE SPRAY: AP, LAP, LBP

Nozzle Type/ Conn. Size (in.)					Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
AP		LAP		LBP				0.2 bar	0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.7 bar	1.5 bar	6 bar
1/4	3/8	3/8	1/2	3/8																
●	●				2	2.0	2.0	–	.57	.64	.75	1.1	1.3	1.6	1.8	2.2	2.4	53	70	80
●	●				2-3	2.0	2.4	–	.69	.77	.89	1.3	1.5	1.9	2.2	2.7	2.9	61	76	83
●	●				2-5	2.0	2.8	–	.80	.90	1.1	1.6	1.8	2.2	2.6	3.1	3.4	63	81	90
●	●				2-8	2.0	3.6	–	.98	1.1	1.2	1.8	2.1	2.6	3.0	3.7	4.0	71	87	95
●	●				2-10	2.0	4.4	–	1.1	1.2	1.4	2.0	2.3	2.8	3.3	4.0	4.3	72	94	104
●	●				2-15	2.0	5.2	–	1.2	1.3	1.5	2.2	2.5	3.1	3.6	4.4	4.7	77	100	111
●	●				2-20	2.0	6.0	–	1.3	1.4	1.7	2.5	2.8	3.5	4.0	4.9	5.3	81	103	113
●	●				3-2	2.4	2.0	–	.75	.84	1.0	1.5	1.7	2.1	2.4	2.9	3.1	58	67	76
●	●				3	2.4	2.4	–	.87	.97	1.2	1.7	1.9	2.4	2.7	3.3	3.6	55	79	80
●	●				3-5	2.4	2.8	–	1.1	1.2	1.4	2.0	2.3	2.8	3.3	4.0	4.3	72	82	86
●	●				3-8	2.4	3.6	–	1.3	1.4	1.7	2.5	2.8	3.5	4.0	4.9	5.3	73	88	92
●	●				3-10	2.4	4.4	–	1.4	1.5	1.8	2.7	3.1	3.8	4.4	5.4	5.8	81	94	97
●	●				3-15	2.4	5.2	–	1.6	1.8	2.1	3.1	3.5	4.3	5.0	6.1	6.6	83	93	100
●	●				3-20	2.4	6.0	–	1.8	2.0	2.4	3.5	4.0	4.9	5.7	6.9	7.5	90	100	107
●	●				5-2	3.6	2.0	–	–	–	1.4	2.0	2.3	2.8	3.3	4.0	4.3	49	61	67
●	●				5-3	3.6	2.4	–	–	1.3	1.6	2.3	2.6	3.2	3.7	4.6	4.9	57	68	69
●	●				5	3.6	2.8	–	1.4	1.6	2.2	2.8	3.2	3.9	4.6	5.6	6.0	70	75	79
●	●				5-8	3.6	3.6	–	1.7	1.9	2.3	3.3	3.9	4.7	5.5	6.7	7.2	80	78	82
●	●				5-10	3.6	4.4	–	2.0	2.2	2.5	3.7	4.3	5.3	6.1	7.5	8.1	80	87	89
●	●				5-15	3.6	5.2	–	2.3	2.6	3.1	4.5	5.2	6.3	7.3	8.9	9.6	83	91	95
●	●				5-20	3.6	6.0	–	2.5	2.8	3.3	4.8	5.5	6.8	7.8	9.6	10.4	88	98	102
●	●				8-5	4.4	2.8	–	1.7	1.9	2.2	3.3	3.9	4.7	5.5	6.7	7.2	60	68	71

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: AP, LAP, LBP

Nozzle Type/ Conn. Size (in.)					Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
AP		LAP		LBP				0.2 bar	0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.7 bar	1.5 bar	6 bar
1/4	3/8	3/8	1/2	3/8																
●	●				8	4.4	3.6	1.6	2.3	2.6	3.1	4.5	5.2	6.3	7.3	8.9	9.6	65	72	74
●	●				8-10	4.4	4.4	1.9	2.7	3.0	3.5	5.2	6.1	7.4	8.6	10.5	11.3	73	81	81
●	●				8-15	4.4	5.2	2.2	3.1	3.5	4.1	6.1	7.1	8.7	10.0	12.3	13.3	78	84	87
●	●				8-20	4.4	6.0	2.4	3.4	3.9	4.6	6.7	7.7	9.5	10.9	13.4	14.5	84	89	92
●	●				10-5	4.8	2.8	–	–	2.1	2.5	3.6	4.2	5.1	5.9	7.3	7.8	55	64	67
●	●				10-8	4.8	3.6	–	2.5	2.8	3.3	4.8	5.5	6.8	7.8	9.6	10.4	60	64	66
●	●				10	4.8	4.4	2.0	2.8	3.2	3.8	5.6	6.4	7.9	9.1	11.2	12.1	70	76	75
●	●				10-15	4.8	5.2	2.4	3.4	3.9	4.6	6.7	7.7	9.5	10.9	13.4	14.5	76	81	79
●	●				10-20	4.8	6.0	2.9	4.1	4.5	5.3	7.8	9.0	11.1	12.8	15.6	16.9	78	85	98
●	●				15-5	6.0	2.8	–	–	–	2.9	4.2	4.9	6.0	6.9	8.5	9.2	52	65	60
●	●				15-8	6.0	3.6	–	–	3.2	3.8	5.6	6.4	7.9	9.1	11.2	12.1	55	68	64
●	●				15-10	6.0	4.4	–	3.5	3.9	4.6	6.7	7.7	9.5	10.9	13.4	14.5	65	75	71
●	●				15	6.0	5.2	3.1	4.4	4.8	5.7	8.4	9.7	11.8	13.7	16.7	18.1	70	72	75
●	●				15-20	6.0	6.0	3.5	4.9	5.5	6.5	9.5	11.0	13.4	15.5	19.0	21	78	80	82
		●			20-5	6.4	3.2	–	–	–	3.1	4.6	5.4	6.6	7.6	9.3	10.0	33	40	55
		●			20-8	6.4	4.4	–	–	3.5	4.1	6.1	7.1	8.7	10.0	12.3	13.3	40	47	60
		●			20-10	6.4	4.8	–	4.0	4.5	5.3	7.8	9.0	11.1	12.8	15.6	16.9	39	55	65
		●			20-15	6.4	6.0	3.7	5.2	5.8	6.9	10.0	11.6	14.2	16.4	20	22	55	63	68
		●			20	6.4	6.4	4.1	5.8	6.4	7.6	11.2	12.9	15.8	18.2	22	24	59	66	70
		●			20-25	6.4	7.5	5.1	7.2	8.1	9.6	14.0	16.1	19.7	23	28	30	60	73	77
		●			20-40	6.4	9.1	5.9	8.3	9.3	11.0	16.2	18.7	23	26	32	35	80	82	86
		●			20-50	6.4	11.1	7.1	10.0	11.3	13.4	19.5	23	28	32	39	42	83	90	97
		●			20-60	6.4	13.1	8.2	11.6	12.9	15.3	22	26	32	36	45	48	86	94	99
		●			25-8	7.1	4.4	–	–	–	4.6	6.7	7.7	9.5	10.9	13.4	14.5	27	42	57
		●			25-10	7.1	4.8	3.1	4.4	4.8	5.7	8.4	9.7	11.7	13.7	16.7	18.1	35	50	59
		●			25-15	7.1	6.0	3.9	5.5	6.1	7.2	10.6	12.2	15.0	17.3	21	23	44	57	64
		●			25-20	7.1	6.4	4.5	6.4	7.1	8.4	12.3	14.2	17.4	20	25	27	53	63	68
		●			25	7.1	7.5	5.1	7.2	8.1	9.6	14.0	16.1	19.7	23	28	30	60	70	74
		●			25-40	7.1	9.1	6.5	9.2	10.3	12.2	17.9	21	25	29	36	39	69	73	79
		●			25-50	7.1	11.1	8.0	11.3	12.6	14.9	22	25	31	36	44	47	76	81	85
		●			25-60	7.1	13.1	9.2	13.0	14.5	17.2	25	29	36	41	50	54	83	86	92
		●	●	●	40-8	9.1	4.4	–	–	–	5.7	8.4	9.7	11.8	13.7	16.7	18.1	30	41	48
		●	●	●	40-10	9.1	4.8	–	–	5.8	6.9	10.0	11.6	14.2	16.4	20	22	34	45	53
		●	●	●	40-15	9.1	6.0	4.9	6.9	7.7	9.1	13.4	15.5	18.9	22	27	29	44	48	57
		●	●	●	40-20	9.1	6.4	5.5	7.8	8.7	10.3	15.1	17.4	21	25	30	33	45	52	59
		●	●	●	40-25	9.1	7.5	6.5	9.2	10.3	12.2	17.9	21	25	29	36	39	48	56	61
		●	●	●	40	9.1	9.1	8.2	11.6	12.9	15.3	22	26	32	36	45	48	67	71	73
		●	●	●	40-50	9.1	11.1	10.2	14.4	16.1	19.0	28	32	39	46	56	60	68	80	84
		●	●	●	40-50.1	9.1	10.7	10.2	14.4	16.1	19.0	28	32	39	46	56	60	40	47	50
		●	●	●	40-60	9.1	13.1	12.2	17.3	19.3	23	33	39	47	55	67	72	80	86	90

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: BD

Conn. Size (in.)	Nozzle Type BD	Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)											Spray Angle (°)		
					0.2 bar	0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
3/8	●	2	2.4	2.0	.41	.58	.64	.76	.91	1.1	1.3	1.6	1.8	2.2	2.4	51	60	70
	●	3	2.4	2.4	.61	.86	.97	1.1	1.4	1.7	1.9	2.4	2.7	3.4	3.6	52	64	77
	●	5	2.8	3.2	1.0	1.4	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	56	67	76
	●	8	4.0	4.0	1.6	2.3	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	56	65	70
	●	10	4.0	4.4	2.0	2.9	3.2	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	55	65	72
	●	20-10	4.0*	4.4	–	4.0	4.5	5.3	6.4	7.8	9.0	11.1	12.8	15.6	16.9	61	65	67
1/2	●	5	3.2	3.6	1.0	1.4	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	63	73	79
	●	8	4.0	4.0	1.6	2.3	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	61	69	73
	●	10	4.4	4.4	2.0	2.9	3.2	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	63	70	74
	●	15	4.4*	5.2	3.1	4.3	4.8	5.7	6.8	8.4	9.7	11.8	13.7	16.8	18.1	60	67	70
	●	20	4.8*	6.0	4.1	5.8	6.4	7.6	9.1	11.2	12.9	15.8	18.2	22	24	63	65	69
	●	25	5.2*	7.1	5.1	7.2	8.1	9.5	11.4	14.0	16.1	19.7	23	28	30	59	63	68
3/4	●	5	3.6	3.2	1.0	1.4	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.6	6.0	64	73	79
	●	8	4.4	4.0	1.6	2.3	2.6	3.1	3.6	4.5	5.2	6.3	7.3	8.9	9.6	62	70	74
	●	10	5.2	4.4	2.0	2.9	3.2	3.8	4.6	5.6	6.4	7.9	9.1	11.2	12.1	64	72	75
	●	15	6.4	5.6	3.1	4.3	4.8	5.7	6.8	8.4	9.7	11.8	13.7	16.8	18.1	64	72	74
	●	20	7.1	6.4	4.1	5.8	6.4	7.6	9.1	11.2	12.9	15.8	18.2	22	24	63	70	74
	●	25	7.1	7.5	5.1	7.2	8.1	9.5	11.4	14.0	16.1	19.7	23	28	30	63	70	74
	●	50-50.3	7.1*	9.5	10.2	13.3	16.1	19.1	23	28	32	39	46	56	60	70	72	73
1-1/2	●	40	9.5*	7.9	8.2	11.5	12.9	15.3	18.2	22	26	32	36	45	48	70	73	74
	●	50	9.5*	9.5	10.2	13.3	16.1	19.1	23	28	32	39	46	56	60	72	75	77
	●	60	9.5*	11.1	12.2	17.3	19.3	23	27	34	39	47	55	67	72	74	76	79
	●	70	9.5*	12.7	14.3	20	23	27	32	39	45	55	64	78	84	76	79	83
	●	80	9.5*	14.3	16.3	23	26	31	36	45	52	63	73	89	96	78	82	84
	●	90	9.5*	14.7	18.3	26	29	34	41	50	58	71	82	101	109	81	84	84
	●	100	9.5*	15.9	20	29	32	38	46	56	64	79	91	112	121	83	86	86
	●	110	9.5*	17.1	22	32	35	42	50	61	71	87	100	123	133	85	88	88
	●	120	9.5*	18.3	24	35	39	46	55	67	77	95	109	134	145	87	90	90

*Dual inlets, each in diameter specified.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
STANDARD ANGLE SPRAY: BDM

Conn. Size (in.)	Nozzle Type BDM	Capacity Size	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
				0.7 bar	1.5 bar	3 bar	7 bar	15 bar	20 bar	25 bar	35 bar	1.5 bar	7 bar	35 bar
3/8	●	2-0.5	1.2	–	–	.63	.96	1.4	1.6	1.8	2.2	–	52	45
	●	2-1	1.6	–	.61	.87	1.3	1.9	2.2	2.5	3.0	53	65	50
	●	2	2.0	.76	1.1	1.6	2.4	3.5	4.1	4.6	5.4	60	69	62
	●	3-2	2.0	.84	1.2	1.7	2.7	3.9	4.5	5.0	5.9	57	68	58
	●	3	2.4	1.1	1.7	2.4	3.6	5.3	6.1	6.8	8.1	64	75	64
	●	5	3.2	1.9	2.8	3.9	6.0	8.8	10.2	11.4	13.5	73	78	72
	●	10-2	2.0	1.3	2.0	2.8	4.2	6.2	7.1	8.0	9.4	30	46	40
	●	20-10	4.4	5.3	7.8	11.1	16.9	25	29	32	38	61	60	49

Maximum recommended operating pressure is 500 psi (34.5 bar).
Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



PERFORMANCE DATA
WIDE ANGLE SPRAY: AX-W, BX-W

Conn. Size (in.)	Nozzle Type		Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
	AX-W	BX-W				0.4 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	0.7 bar	1.5 bar	6 bar	
1/8	●	●	0.5-0.5W	.79	1.2	–	–	.19	.23	.28	.32	.39	.46	.56	103	117	98	
	●	●	1-1W	1.6	1.6	–	–	.39	.46	.56	.64	.79	.91	1.1	110	125	110	
	●	●	2-3W	2.0	2.8	–	.81	.97	1.1	1.4	1.6	2.0	2.3	2.8	114	114	97	
	●	●	3-3W	2.4	2.8	–	.97	1.2	1.4	1.7	1.9	2.4	2.7	3.3	114	114	97	
	●	●	3-5W	2.4	3.2	–	1.1	1.3	1.5	1.9	2.2	2.7	3.1	3.8	116	110	95	
	●	●	2-10W	2.0	4.4	–	1.3	1.6	1.9	2.3	2.6	3.2	3.7	4.6	130	135	120	
	●	●	5-5W	3.2	3.2	–	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.5	116	110	92	
	●	●	5-10W	3.2	4.4	1.9	2.1	2.5	3.0	3.6	4.2	5.1	5.9	7.3	126	121	95	
	●	●	8-10W	4.0	4.4	2.6	2.9	3.5	4.1	5.0	5.8	7.1	8.2	10.0	124	112	90	
1/4	●	●	1-1W	1.6	1.6	–	–	.39	.46	.56	.64	.79	.91	1.1	110	117	111	
	●	●	1-5W	1.6	3.2	–	–	.65	.77	.95	1.1	1.3	1.5	1.9	100	123	124	
	●	●	1-10W	1.6	4.4	–	–	.81	.96	1.2	1.4	1.7	1.9	2.3	140	144	139	
	●	●	1-15W	1.6	5.6	–	–	.93	1.1	1.3	1.5	1.9	2.2	2.7	105	128	132	
	●	●	2-5W	2.0	3.2	–	1.1	1.3	1.5	1.9	2.2	2.7	3.1	3.8	118	123	113	
	●	●	2-10W	2.0	4.4	–	1.3	1.6	1.9	2.3	2.6	3.2	3.7	4.6	138	136	126	
	●	●	5-5W	3.6	3.2	–	1.6	1.9	2.3	2.8	3.2	3.9	4.6	5.6	114	113	104	
	●	●	5-10W	3.6	4.4	1.9	2.1	2.5	3.0	3.6	4.2	5.1	5.9	7.3	130	130	119	
	●	●	5-15W	3.6	5.6	2.2	2.5	3.0	3.5	4.3	5.0	6.1	7.0	8.6	130	132	120	
	●	●	8-10W	4.0	4.4	2.6	2.9	3.5	4.1	5.0	5.8	7.1	8.2	10.0	129	122	103	
	●	●	10-10W	4.8	4.4	2.9	3.2	3.8	4.6	5.6	6.4	7.9	9.1	11.2	120	108	95	
	●	●	8-15W	4.0	5.6	3.1	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.3	129	122	107	
	●	●	10-15W	4.8	5.6	3.5	3.9	4.7	5.5	6.7	7.7	9.5	10.9	13.4	120	108	97	
	●	●	15-15W	6.0	5.6	4.3	4.8	5.7	6.8	8.4	9.7	11.8	13.7	16.7	101	95	88	
3/8	●	●	5-10W	3.6	4.4	1.9	2.1	2.5	3.0	3.6	4.2	5.1	5.9	7.3	130	123	102	
	●	●	5-15W	3.6	5.6	2.2	2.5	3.0	3.5	4.3	5.0	6.1	7.0	8.6	138	131	112	
	●	●	8-10W	4.4	4.4	2.6	2.9	3.5	4.1	5.0	5.8	7.1	8.2	10.0	122	110	96	
	●	●	10-10W	5.2	4.4	2.9	3.2	3.8	4.6	5.6	6.4	7.9	9.1	11.2	116	108	93	
	●	●	8-15W	4.4	5.6	3.1	3.5	4.2	5.0	6.1	7.1	8.7	10.0	12.3	133	120	105	
	●	●	10-15W	5.2	5.6	3.5	3.9	4.7	5.5	6.7	7.7	9.5	10.9	13.4	126	115	100	
	●	●	8-25W	4.4	7.5	3.8	4.2	5.0	5.9	7.3	8.4	10.3	11.9	14.5	122	118	109	
	●	●	10-20W	5.2	6.0	4.0	4.5	5.4	6.4	7.8	9.0	11.1	12.8	15.6	118	112	102	
	●	●	15-15W	6.0	5.6	4.3	4.8	5.7	6.8	8.4	9.7	11.8	13.7	16.7	116	106	95	
	●	●	15-20W	6.0	6.0	4.9	5.5	6.6	7.7	9.5	11.0	13.4	15.5	19.0	113	108	98	
	●	●	20-20W	7.1	6.0	5.7	6.4	7.6	9.1	11.2	12.9	15.8	18.2	22	106	102	95	
	●	●	15-30W	6.0	7.9	6.4	7.1	8.5	10.0	12.3	14.2	17.4	20	25	116	110	102	
	●	●	25-25W	7.5	7.5	7.2	8.1	9.7	11.4	14.0	16.1	19.7	23	28	105	100	93	
	●	●	25-30W	7.5	7.9	8.0	9.0	10.8	12.8	15.6	18.0	22	26	31	105	101	94	
1/2	●	●	50-50W	9.5	11.1	14.4	16.1	19.2	23	28	32	39	46	56	110	102	93	

Intermediate capacities: Caps are interchangeable for in-between capacities within each pipe size group. Request Data Sheets 3055, 3986 and 3987.
Spray dimension data: Request Data Sheets 15350 and 15362.

Highlighted column shows the rated pressure.



PERFORMANCE DATA
WIDE ANGLE SPRAY: LAP-W, LBP-W

Nozzle Type/ Conn. Size (in.)			Capacity Size	Inlet Dia. Nom. (mm)	Orifice Dia. Nom. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)		
LAP-W		LBP-W				0.2 bar	0.4 bar	0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
3/8	1/2	3/8																
●			20-8W	6.4	4.4	–	–	3.5	4.1	6.1	7.1	8.7	10.0	12.3	13.3	99	96	86
●			20-10W	6.4	4.8	–	3.2	4.5	5.3	7.8	9.0	11.1	12.8	15.6	16.9	101	98	88
●			20-15W	6.4	5.6	3.7	5.2	5.8	6.9	10.0	11.6	14.2	16.4	20	22	104	100	91
●			20-20W	6.4	6.4	4.1	5.8	6.4	7.6	11.2	12.9	15.8	18.2	22	24	106	101	93
●			20-25W	6.4	7.1	5.1	7.2	8.1	9.6	14.0	16.1	19.7	23	28	30	109	104	95
●			20-40W	6.4	8.7	5.9	8.3	9.3	11.0	16.2	18.7	23	26	32	35	110	107	98
●			20-50W	6.4	10.3	7.1	10.0	11.3	13.4	19.5	23	28	32	39	42	111	108	100
●			25-8W	7.1	4.4	–	–	–	4.6	6.7	7.7	9.5	10.9	13.4	14.5	–	89	78
●			25-10W	7.1	4.8	–	–	4.8	5.7	8.4	9.7	11.8	13.7	16.7	18.1	100	92	81
●			25-15W	7.1	5.6	–	4.3	6.1	7.2	10.6	12.2	15.0	17.3	21	23	102	96	85
●			25-20W	7.1	6.4	4.5	6.4	7.1	8.4	12.3	14.2	17.4	20	25	27	104	99	88
●			25-25W	7.1	7.1	5.1	7.2	8.1	9.6	14.0	16.1	19.7	23	28	30	107	102	91
●			25-40W	7.1	8.7	6.5	9.2	10.3	12.2	17.9	21	25	29	36	39	109	105	94
●			25-50W	7.1	10.3	8.0	11.3	12.6	14.9	22	25	31	36	44	47	110	108	99
●	●	●	40-10W	9.1	4.8	–	–	5.8	6.9	10.0	11.6	14.2	16.4	20	22	95	85	80
●	●	●	40-15W	9.1	5.6	4.9	6.9	7.7	9.1	13.4	15.5	18.9	22	27	29	97	88	82
●	●	●	40-20W	9.1	6.4	5.5	7.8	8.7	10.3	15.1	17.4	21	25	30	33	100	94	88
●	●	●	40-25W	9.1	7.1	6.5	9.2	10.3	12.2	17.9	21	25	29	36	39	103	97	91
●	●	●	40-40W	9.1	8.7	8.1	11.5	12.9	15.3	22	26	32	36	45	48	106	99	93
●	●	●	40-50W	9.1	10.3	10.2	14.4	16.1	19.0	28	32	39	46	56	60	109	101	96

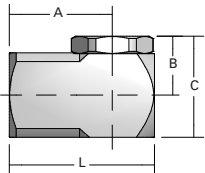
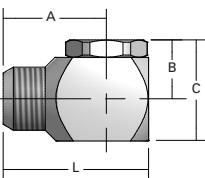
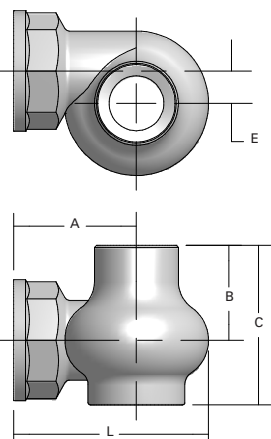
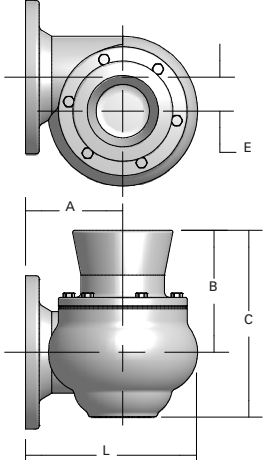
Highlighted column shows the rated pressure.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Net Weight (kg)
	AX AX-W	1/8 female	25.4	17.5	11.9	19.8	–	0.04
		1/4 female	31.8	22.2	13.5	23.0	–	0.08
		3/8 female	37.3	26.2	17.5	28.6	–	0.12
		1/2 female	49.2	34.9	21.4	39.8	–	0.25
		3/4 female	55.6	34.9	39.7	31.8	–	0.31
	BX BX-W	1/8 male	30.2	22.2	16.6	34.9	–	0.04
		1/4 male	34.9	25.4	13.5	39.7	–	0.07
		3/8 male	39.7	28.6	17.5	39.7	–	0.11
		1/2 male	49.2	34.9	21.4	49.2	–	0.20
		3/4 male	57.2	41.3	39.7	31.8	–	0.30
	CX	1 female	66.7	44.5	31.8	46.8	8.7	0.31
		1-1/4 female	77.8	52.4	33.3	55.6	11.1	0.57
		1-1/2 female	93.7	61.9	38.1	73.0	14.3	0.79
		2 female	115.1	93.7	53.6	93.7	18.3	1.36
		2-1/2 female	140.5	88.9	68.0	114.3	11.9	1.93
	CF	4 Flange	209.6	111.9	235.0	314.3	39.7	51.71
		6 Flange	311.2	174.6	220.7	338.1	61.9	57.15

Based on the largest/heaviest version of each type.

DIMENSIONS AND WEIGHTS

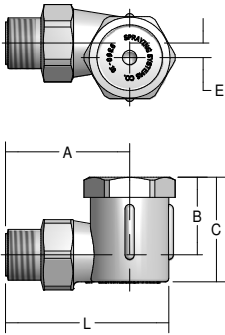
METRIC UNITS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Net Weight (kg)
	CRC	1-1/4 female	86.5	54.0	53.2	77.8	10.3	1.02
		2 female	123.0	81.0	77.8	118.3	18.3	2.27
		3 female	176.2	112.7	150.8	213.5	28.6	8.62
		4 female	228.6	141.3	231.8	311.2	39.7	18.14
	D	1/2 male	58.7	44.5	18.3	33.3	6.4	0.14
		3/4 male	69.1	50.8	23.8	42.1	7.9	0.21
	AP AP-W	1/4 female	36.5	25.4	22.0	29.4	4.0	0.01
		3/8 female	37.3	27.8	22.0	29.4	4.0	0.01
	LAP LAP-W	3/8 female	48.4	32.5	30.0	40.5	4.9	0.02
		1/2 female	51.6	35.7	30.0	40.5	4.9	0.02

Based on the largest/heaviest version of each type.

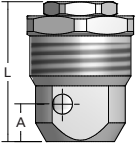
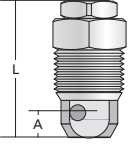


DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	A (mm)	B (mm)	C (mm)	E (mm)	Net Weight (kg)
	LBP LBP-W	53.2 male	39.7	31.4	40.5	4.9	0.02	0.6

Based on the largest/heaviest version of each type.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. (in.)	A (mm)	Net Weight (kg)
	BD	3/8 male	31.8	11/16	6.7	0.03
		1/2 male	37.3	7/8	8.0	0.06
		3/4 male	44.5	1-1/16	9.5	0.11
		1-1/2 male	66.7	2	8.0	0.60
	BDM	3/8 male	32.5	11/16	6.7	0.01

Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

Call your local spray expert for application assistance or to place an order.

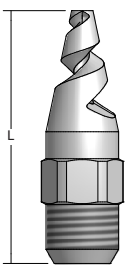
PERFORMANCE DATA
STANDARD ANGLE SPRAY

Conn. Size (in.)	Nozzle Type	Spray Angle at 0.7 bar					Capacity Size	Orifice Dia. Nom. (mm)	Max. Free Passage Dia. (mm)	Flow Rate Capacity (liters per minute)					
		BSJ	50°	60°	90°	120°				180°	0.4 bar	0.7 bar	1.5 bar	3 bar	7 bar
1/4	•	•	•	•	•	•	07	2.4	2.4	2.0	2.7	3.9	5.5	8.4	16.0
	•	•	•	•	•	•	13	3.2	3.2	3.7	5.0	7.3	10.3	15.7	30
	•	•	•	•	•	•	20	4.0	3.2	5.8	7.6	11.2	15.8	24	46
3/8	•	•	•	•	•	•	30	4.8	3.2	8.6	11.4	16.8	24	36	68
	•	•	•	•	•	•	40	5.6	3.2	11.5	15.3	22	32	48	91
	•	•	•	•	•	•	53	6.4	3.2	15.3	20	30	42	64	121
1/2	•	•	•	•	•	•	82	7.9	3.2	24	31	46	65	99	187
	•	•	•	•	•	•	120	9.5	4.8	35	46	67	95	145	274
	•	•	•	•	•	•	164	11.1	4.8	47	63	92	129	198	374
3/4	•	•	•	•	•	•	210	12.7	4.8	61	80	117	166	253	479
1	•	•	•	•	•	•	340	15.9	6.4	98	130	190	268	410	775
	•	•	•	•	•	•	470	19.1	6.4	136	179	262	371	567	1071
1-1/2	•	•	•	•	•	•	640	22.2	7.9	185	244	357	505	772	1459
	•	•	•	•	•	•	820	25.4	7.9	236	313	458	647	989	1869
	•	•	•	•	•	•	960	28.6	7.9	277	366	536	758	1158	2188
2	•	•	•	•	•	•	1400	34.9	11.1	404	534	782	1105	1689	3191
	•	•	•	•	•	•	1780	38.1	11.1	513	679	994	1406	2147	4057

Maximum Free Passage Diameter is the maximum diameter as listed of foreign matter that can pass through the nozzle without clogging. For all 1/4" and 3/8" connections, optimum spray angle is achieved at 40 psi (2.8 bar). *Maximum operating pressure depends on material, size and application. Contact your local sales engineer for specific recommendations.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Conn. Size/Type (in.)	L (mm)	Hex. / flats (in.)	Net Weight (kg)
	BSJ	1/4 male	49.2	9/16	0.03
		3/8 male	47.6	11/16	0.05
		1/2 male	63.5	7/8	0.09
		3/4 male	69.9	1-1/16	0.14
		1 male	92.1	1-3/8	0.31
		1-1/2 male	111.1	2	0.77
		2 male	174.6	2-1/2	1.36

Based on the largest/heaviest version of each type.

PLACING YOUR ORDER

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