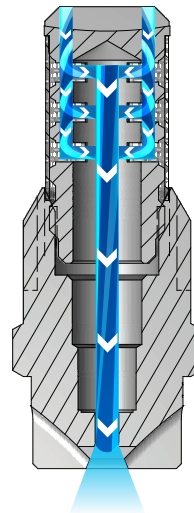


**OVERVIEW: VEEJET H AND U**

- Flat spray nozzles are ideal for use in spray headers or manifolds. They produce a fan-type, tapered-edge spray pattern to ensure even coverage when multiple nozzles are used in a series
- Solid stream (0° spray angle) available to achieve highest impact of any nozzle type
- Consistent performance over the industry's largest range of flow rates and pressures
- Some models feature an integral strainer
- High pressure/high impact versions available
- Quick-connect versions available to speed maintenance and installation



**VeeJet H and U Nozzles**

As the liquid exits through the sharp V shape cut of the orifice, it forms into a flat spray pattern. The distribution is tapered from the center of the spray.

**VEEJET H AND U NOZZLES**

- Flat fan type, tapered edge spray pattern
- One-piece design
- Spray angles from 0° to 110°
- Uniform spray distribution with flow rates from .012 to 1237 gpm (.047 to 4720 lpm)
- Operating pressures up to 500 psi (35 bar)



**H-U**  
1/8" to 3/4" male conn.  
**Flow rates of 1 gpm and greater at 40 psi**  
(3.8 lpm and greater at 2.8 bar)



**H-VV and H-VVL**  
1/8" to 1/4" male conn.  
**Flow rates below 1 gpm at 40 psi**  
(3.8 lpm at 2.8 bar)  
H-VVL includes integral strainer



**VEEJET H AND U OPTIONS**



**H-DT**  
1/8" to 1/4" female conn.  
Flow rates below 1 gpm at 40 psi  
(3.8 lpm at 2.8 bar)



**H-DU**  
1/8" to 1/4" female conn.  
Flow rates of 1 gpm and greater at 40 psi  
(3.8 lpm and greater at 2.8 bar)



**U**  
1" to 2" male conn.  
Flow rates of 40 gpm and greater at 40 psi  
(151 lpm and greater at 2.8 bar)

**RELATIVE DROP SIZE  
IN MICRONS**

10 to 100

100 to 500

500 to 1000

1000 to 5000

Drop size will vary based on flow rate and pressure.



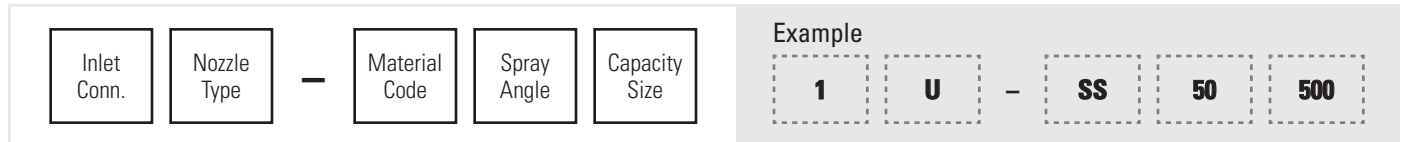
## ORDERING INFORMATION

## VEEJET H-DT, H-DU, H-U, H-VV AND H-VVL



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

## VEEJET U



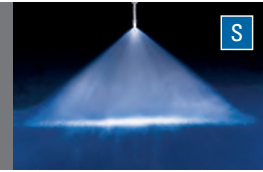
BSPT connections require the addition of a "B" prior to the inlet connection.

## QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
H-DT	F	1/8 to 1/4	Brass, 303 stainless steel (SS)	C6–C8	C13
H-DU	F	1/8 to 1/4	Brass, 303 stainless steel (SS), Polyvinyl chloride (PVC)	C9–C13	
H-U	M	1/8 to 3/4	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC)	C9–C13	
H-VV	M	1/8 to 1/4	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)	C6–C8	
H-VVL	M	1/8 to 1/4	Brass, 303 stainless steel (SS), 316 stainless steel (316SS)	C6–C8	
U	M	1 to 2	Brass, Mild steel (I), 303 stainless steel (SS)	C9–C13	

F = female thread; M = male thread. There is no material code for brass. Leave material code blank when ordering. Other materials available upon request.  
For more dimensions and sizes, contact your sales engineer.





S PERFORMANCE DATA:  
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (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.



**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (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.



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



**S** PERFORMANCE DATA:  
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (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	
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.



**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)										Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-U					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	3/8	1/2	3/4	1/8	1/4	1	1-1/4	2																
110°		●									20	2.8	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27	105	110	117	118	
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	
		●	●	●			●				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	93	95	99	103	
				●							80	5.5	11.5	15.3	22	32	45	48	71	82	108	93	95	99	102	
				●							100	6.2	14.4	19.1	28	39	56	60	88	102	135	93	95	99	102	
			●							150	7.5	22	29	42	59	84	90	132	153	202	93	95	99	102		
				●						400	12.0	58	76	112	158	223	241	353	408	539	93	95	99	102		
80°	●	●	●	●		●	●				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	
			●	●							100	6.2	14.4	19.1	28	39	56	60	88	102	135	75	80	83	86	
			●	●							150	7.5	22	29	42	59	84	90	132	153	202	73	80	84	86	
				●	●						200	8.7	29	38	56	79	112	121	177	204	270	74	80	82	85	
				●	●						400	12.0	58	76	112	158	223	241	353	408	539	78	80	81	83	
								●		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		
65°	●	●	●			●	●				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	
	●	●									12	2.1	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2	56	65	71	73	
	●	●	●	●		●	●				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	
	●										25	3.1	3.6	4.8	7.0	9.9	14.0	15.1	22	25	34	57	65	69	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	

Highlighted column shows the rated pressure.



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



**S** PERFORMANCE DATA:  
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)										Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-U					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	3/8	1/2	3/4	1/8	1/4	1	1-1/4	2																
65°		•	•	•		•	•				70	5.2	10.1	13.3	19.5	28	39	42	62	71	94	60	65	68	71	
			•	•							100	6.2	14.4	19.1	28	39	56	60	88	102	135	58	65	69	70	
			•	•							150	7.5	22	29	42	59	84	90	132	153	202	59	65	68	70	
				•	•						200	8.7	29	38	56	79	112	121	177	204	270	60	65	67	69	
					•						250	9.5	36	48	70	99	140	151	221	255	337	60	65	67	69	
					•						300	10.4	43	57	84	118	168	181	265	306	405	60	65	67	69	
						•					400	12.0	58	76	112	158	223	241	353	408	539	60	65	67	69	
									•	•	500	13.4	72	95	140	197	279	302	441	510	674	60	65	66	68	
50°										•	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	
										•	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	
			•	•							80	5.5	11.5	15.3	22	32	45	48	71	82	108	45	50	53	58	
				•							85	5.7	12.3	16.2	24	34	47	51	75	87	115	45	50	53	57	
				•							90	5.8	13.0	17.2	25	36	50	54	79	92	121	45	50	53	56	
				•	•						100	6.2	14.4	19.1	28	39	56	60	88	102	135	44	50	52	54	
				•							110	6.5	15.9	21	31	43	61	66	97	112	148	45	50	53	54	
				•							120	6.7	17.3	23	34	47	67	72	106	122	162	44	50	53	55	
				•							135	7.2	19.5	26	38	53	75	81	119	138	182	45	50	52	55	
			•	•						150	7.5	22	29	42	59	84	90	132	153	202	45	50	52	55		
				•						200	8.7	29	38	56	79	112	121	177	204	270	46	50	52	55		
				•						250	9.7	36	48	70	99	140	151	221	255	337	46	50	52	55		
					•					400	12.0	58	76	112	158	223	241	353	408	539	46	50	52	55		

Highlighted column shows the rated pressure.



**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)										Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-U					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	3/8	1/2	3/4	1/8	1/4	1	1-1/4	2																
50°								●	●		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	
		●									80	5.5	11.5	15.3	22	32	45	48	71	82	108	35	40	44	47	
			●	●							100	6.2	14.4	19.1	28	39	56	60	88	102	135	34	40	43	46	
			●	●							150	7.5	22	29	42	59	84	90	132	153	202	35	40	43	44	
				●							200	8.7	29	38	56	79	112	121	177	204	270	36	40	42	44	
								●		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	
			●	●							100	6.2	14.4	19.1	28	39	56	60	88	102	135	23	25	28	32	
			●	●							150	7.5	22	29	42	59	84	90	132	153	202	24	25	28	30	
				●							200	8.7	29	38	56	79	112	121	177	204	270	24	25	26	29	
									●	●	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°	●	●				●	●				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	

Highlighted column shows the rated pressure.



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



Spraying Systems Co.®

**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)										Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	H-U					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	3/8	1/2	3/4	1/8	1/4	1	1-1/4	2																
15°	●	●	●			●	●				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	
			●	●							100	6.2	14.4	19.1	28	39	56	60	88	102	135	13	15	17	18	
			●								120	6.7	17.3	23	34	47	67	72	106	122	162	13	15	17	18	
				●							150	7.5	22	29	42	59	84	90	132	153	202	14	15	17	18	
					●					●	200	8.7	29	38	56	79	112	121	177	204	270	14	15	17	18	
									●	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					
	●										085	1.8	1.2	1.6	2.4	3.4	4.7	5.1	7.5	8.7	11.5					
	●	●				●	●				09	1.8	1.3	1.7	2.5	3.6	5.0	5.4	7.9	9.2	12.1					
	●	●				●	●				10	1.9	1.4	1.9	2.8	3.9	5.6	6.0	8.8	10.2	13.5					
		●					●				12	2.1	1.7	2.3	3.4	4.7	6.7	7.2	10.6	12.2	16.2					
	●	●				●	●				15	2.3	2.2	2.9	4.2	5.9	8.4	9.0	13.2	15.3	20					
	●	●	●			●	●				20	2.7	2.9	3.8	5.6	7.9	11.2	12.1	17.7	20	27					
	●	●				●	●				30	3.3	4.3	5.7	8.4	11.8	16.8	18.1	26	31	40					
	●	●				●	●				40	3.8	5.8	7.6	11.2	15.8	22	24	35	41	54					
		●					●				50	4.2	7.2	9.5	14.0	19.7	28	30	44	51	67					
		●					●				60	4.6	8.6	11.4	16.8	24	34	36	53	61	81					
		●	●				●				70	5.0	10.1	13.3	19.5	28	39	42	62	71	94					
		●	●								80	5.3	11.5	15.3	22	32	45	48	71	82	108					
		●								100	6.0	14.4	19.1	28	39	56	60	88	102	135						
		●								120	6.8	17.3	23	34	47	67	72	106	122	162						
			●							150	7.3	22	29	42	59	84	90	132	153	202						
				●						165	7.7	24	31	46	65	92	100	146	168	223						
					●					200	8.5	29	38	56	79	112	121	177	204	270						

Highlighted column shows the rated pressure.



**S** PERFORMANCE DATA:  
**STANDARD ANGLE SPRAY**

Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)										Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	H-U					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	3/8	1/2	3/4	1/8	1/4	1	1-1/4	2															
0°			●	●							250	9.5	36	48	70	99	140	151	221	255	337	0 Solid Stream			
					●						350	11.1	50	67	98	138	195	211	309	357	472				
									●	●		570	14.2	82	109	159	225	318	344	503	581		769		
					●							700	15.7	101	133	195	276	391	422	618	714		944		
									●			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	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	H-DT (F)	1/8	19.1	1/2	-	0.01
		1/4	19.8	5/8	-	0.02
	H-DU (F)	1/8	28.6	1/2	-	0.02
		1/4	28.6	5/8	-	0.04
	H-U (M)	1/8	25.4	9/16	-	0.01
		1/4	25.4	9/16	-	0.02
		3/8	31.8	11/16	-	0.04
		1/2	38.1	7/8	-	0.06
		3/4	50.8	1-1/16	-	0.14
	H-VV (M)	1/8	22.2	1/2	-	0.01
		1/4	23.0	9/16	-	0.02

Based on the largest/heaviest version of each type.

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

Based on the largest/heaviest version of each type.