



FLAT SPRAY NOZZLES

PRESSURE WASHING · CLEANING
RINSING · COOLING · COATING
WASHDOWN · PARTS WASHING
DEGREASING · MOISTENING
SURFACE PREPARATION
SNOWMAKING



FLAT SPRAY NOZZLES INTRODUCTION



MORE SIZES AND OPTIONS THAN ANY OTHER SUPPLIER

Styles:

- Conventional
- Quick-connect

Spray patterns:

- Standard
- Wide angle
- Narrow angle

Spray angles: 0° (solid stream) to 170°

Flow rate range: .003 to 1237 gpm (.013 to 4720 lpm)

Operating pressure range: up to 4000 psi (275 bar)

Connections:

- 1/8" to 2" pipe sizes
- Female and male NPT and BSPT

Materials:

- Brass
- Mild steel
- 303 stainless steel
- 316 stainless steel
- 400 series stainless steel
- Polyvinyl chloride
- Hardened stainless steel
- ProMax®
- Other specialty materials available

See Trademark Registration and Ownership, page i-1.

OPTIMIZE THE PERFORMANCE OF VEEJET® NOZZLES:

Accurately control spray line pressure with piston-type **pressure relief valves**. Minimize liquid waste caused by excessive pressure by bypassing excess liquid back to the liquid source or pump inlet.

See page F31



Use **adjustable ball fittings** for quick positioning of spray tips. Tips can be adjusted within a 50° included angle. Locking screws maintain nozzle position even when jarred or subject to vibration.

See page F23



Minimize clogging in UniJet® nozzles by trapping larger particles and preventing debris from entering the orifice by using **strainers**. Available in a wide range of materials and mesh sizes.

See page F16



FLAT SPRAY NOZZLES TABLE OF CONTENTS

VEEJET® NOZZLES:

STANDARD ANGLE SPRAY

	PAGE
H-DT, H-DU, H-U, H-VV, H-VVL and U nozzles	C4
Quick Reference Guide	C5

QUICK VEEJET® AND PROMAX® QUICK VEEJET NOZZLES:

STANDARD ANGLE SPRAY

	PAGE
QJJS miniature Quick VeeJet body	C14
QSVV miniature Quick VeeJet spray tips	C14
QJA, QJLA, QJJA and QJJLA Quick VeeJet bodies	C14
QLUA, QUA and QVVA Quick VeeJet spray tips	C14
QPPM ProMax miniature Quick VeeJet body	C15
QMVV ProMax miniature Quick VeeJet spray tips	C15
QPPA ProMax Quick VeeJet body	C15
QPTA ProMax Quick VeeJet spray tips	C15
Quick Reference Guide	C16

UNIJET® NOZZLES:

STANDARD ANGLE SPRAY

	PAGE
T and TT UniJet bodies	C24
TPU and 13802 UniJet spray tips	C24
Quick Reference Guide	C25

WASHJET® NOZZLES:

HIGH IMPACT STANDARD ANGLE SPRAY

	PAGE
MEG, WEG, MEG-SSTC, IMEG® nozzles	C32
QCMEG and QCIMEG™ nozzles	C33
Quick Reference Guide	C34

UNIJET® NOZZLES:

HIGH PRESSURE STANDARD ANGLE SPRAY

	PAGE
11430 UniJet body	C38
EG UniJet spray tips	C38
Quick Reference Guide	C39

FLOODJET® NOZZLES:

WIDE ANGLE SPRAY

	PAGE
K nozzles	C40
TEK nozzles	C40
QJA and QJJA Quick FloodJet bodies	C41
QTKA Quick FloodJet spray tips	C41
QJJS miniature Quick FloodJet body	C41
QSTK miniature Quick FloodJet spray tips	C41
T and TT UniJet bodies	C42
TK UniJet FloodJet spray tips	C42
Quick Reference Guide	C43

FLATJET® NOZZLES:

NARROW ANGLE SPRAY

	PAGE
P nozzles	C47
Quick Reference Guide	C48

ULTRA-HIGH PRESSURE NOZZLES:

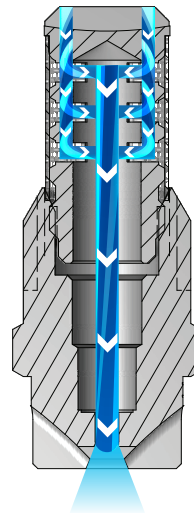
STANDARD ANGLE SPRAY

	PAGE
VS625 nozzles	C50
VS940 nozzles	C50
FS and VS spray tips	C50
58833 and 58834 bodies	C50
Quick Reference Guide	C51



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

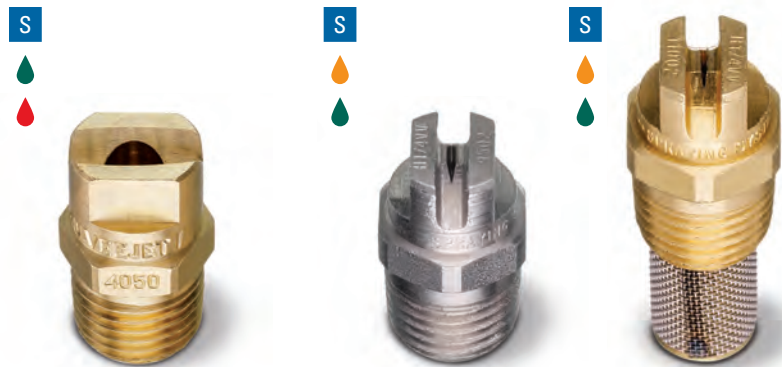


VeeJet H and U Nozzles

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

<p>S</p>  <p>H-DT 1/8" to 1/4" female conn. Flow rates below 1 gpm at 40 psi (3.8 lpm at 2.8 bar)</p>	<p>S</p>  <p>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)</p>	<p>S</p>  <p>U 1" to 2" male conn. Flow rates of 40 gpm and greater at 40 psi (151 lpm and greater at 2.8 bar)</p>
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**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.

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

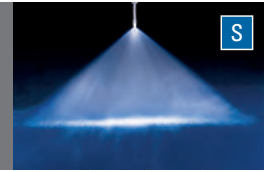


BSPT connections require the addition of a "B" prior to the inlet connection.

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.



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.



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			0.4 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°		•	•	•		•	•				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°							•				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.



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.

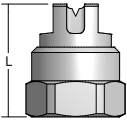
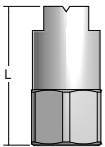
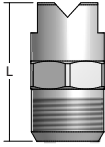
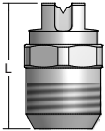


S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

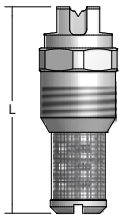
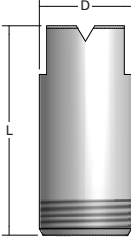
Spray Angle at 3 bar	Nozzle Type/ Inlet Conn. (in.)											Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	H-U					H-DU		U						0.4 bar	0.7 bar	1.5 bar	3 bar	6 bar	7 bar	15 bar	20 bar	35 bar	1.5 bar	3 bar	6 bar	15 bar
	1/8	1/4	3/8	1/2	3/4	1/8	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.

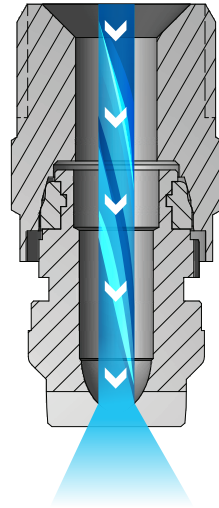
Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	H-VVL (M)	1/8	38.9	1/2	—	0.02
		1/4	31.8	9/16	—	0.03
	U (M)	1	58.8	—	33.3	0.26
		1-1/4	95.3	—	42.9	0.57
		2	136.5	—	60.3	1.93

Based on the largest/heaviest version of each type.



OVERVIEW: QUICK VEEJET AND PROMAX QUICK VEEJET

- Ideal for high-maintenance operations – bodies remain on pipe/header; quick quarter-turn removes/installs spray tips in seconds
- Automatic alignment feature saves time
- Miniature versions are ideal when smaller physical size and lower weight are important
- Flat fan type, tapered edge spray pattern
- Spray angles from 0° to 110°
- Uniform spray distribution with flow rates from .035 to 68 gpm (.14 to 255 lpm)
- Operating pressures up to 300 psi (20 bar)
- Choice of metal or ProMax. ProMax features:
 - ProMax material, a special grade of polypropylene, resists build-up and chemical attack; for use up to 150 psi (10 bar)
 - Internal O-ring provides a positive seal between the body and tip; seal remains attached to tip eliminating accidental loss
 - Optional external O-ring protects nozzle from contaminants
 - Tips are color-coded for easy flow rate identification



Quick VeeJet and ProMax Quick VeeJet 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.

QUICK VEEJET AND MINIATURE QUICK VEEJET OPTIONS

S



QLUA Spray Tip + QJLA Body
3/8" to 1/2" male conn.



QJLA Body
3/8" to 1/2" female conn.



QJA Body
1/8" to 1/2" female conn.



QJJA Body
1/8" to 1/2" male conn.



QJJS Body – Miniature version
1/8" to 1/4" male conn.

S



QUA Spray Tip
Flow rates of 1 to 8 gpm at 40 psi
(3.9 to 32 lpm at 2.8 bar)
Use with QJA or QJJA bodies

S



QVVA Spray Tip
Flow rates below 1 gpm at 40 psi
(3.9 lpm at 2.8 bar)
Use with QJA or QJJA bodies

S



QSVV Spray Tip – Miniature version
Flow rates below 1 gpm at 40 psi
(3.9 lpm at 2.8 bar)
Use with QJJS body

PROMAX QUICK VEEJET AND PROMAX MINIATURE QUICK VEEJET OPTIONS



OPTA Spray Tip + QPPA Body
1/4" to 3/8" male conn.
Optional external O-ring



QMVV Miniature Spray Tip + QPPM Miniature Body
1/8" to 1/4" male conn.
Options: body strainer, tip strainer and external O-ring

 <p>OPTA Spray Tip – White 1.0 gpm (3.9 lpm) Use with QPPA body</p>	 <p>OPTA Spray Tip – Grey 1.5 gpm (5.9 lpm) Use with QPPA body</p>	 <p>QMVV Spray Tip – White .10 gpm (.38 lpm) Use with QPPM body</p>	 <p>QMVV Spray Tip – Red .15 gpm (.59 lpm) Use with QPPM body</p>
 <p>OPTA Spray Tip – Black 2.0 gpm (7.9 lpm) Use with QPPA body</p>	 <p>OPTA Spray Tip – Orange 3.0 gpm (11.8 lpm) Use with QPPA body</p>	 <p>QMVV Spray Tip – Gray .20 gpm (.79 lpm) Use with QPPM body</p>	 <p>QMVV Spray Tip – Black .30 gpm (1.2 lpm) Use with QPPM body</p>
 <p>OPTA Spray Tip – Green 4.0 gpm (15.8 lpm) Use with QPPA body</p>	 <p>OPTA Spray Tip – Yellow 5.0 gpm (19.7 lpm) Use with QPPA body</p>	 <p>QMVV Spray Tip – Orange .40 gpm (1.6 lpm) Use with QPPM body</p>	 <p>QMVV Spray Tip – Green .50 gpm (2.0 lpm) Use with QPPM body</p>
 <p>OPTA Spray Tip – Blue 6.0 gpm (24 lpm) Use with QPPA body</p>	 <p>OPTA Spray Tip – Red 7.0 gpm (28 lpm) Use with QPPA body</p>	 <p>QMVV Spray Tip – Yellow .60 gpm (2.4 lpm) Use with QPPM body</p>	 <p>QMVV Spray Tip – Blue .80 gpm (3.2 lpm) Use with QPPM body</p>

Capacities at 40 psi (2.8 bar).

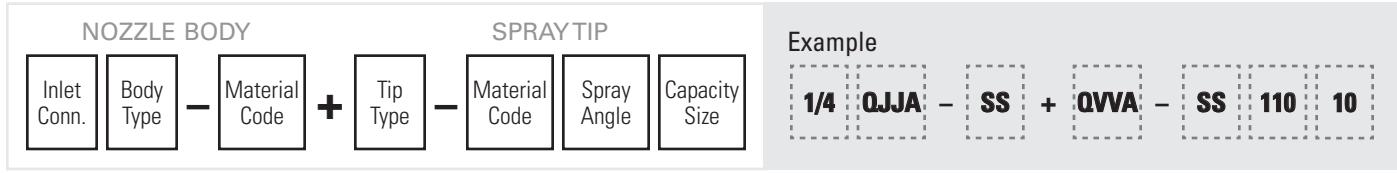
**RELATIVE DROP SIZE
IN MICRONS**

 10 to 100	 100 to 500	 500 to 1000	 1000 to 5000
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Drop size will vary based on flow rate and pressure.

ORDERING INFORMATION

METAL QUICK VEEJET



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

PROMAX QUICK VEEJET



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

Options for miniature ProMax Quick VeeJet nozzles:

1/8" conn.: Kynar body strainer: CP39212-1-KY

1/4" conn.: Kynar body strainer: CP39212-2-KY

Kynar tip strainer: CP45095

External O-ring: CP7717-2/13-VI

Optional external O-ring for standard ProMax Quick VeeJet nozzle: CP7717-2/17-VI

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
QJJS body	M	1/8 to 1/4	Brass, 303 stainless steel (SS)	-	C23
QSVV spray tip	NA	NA		C17-C22	
QJA and QJLA bodies	F	1/8 to 1/2		-	
QJJA and QJJLA bodies	M	1/8 to 1/2		-	
QLUA, QUA and QVVA spray tips	NA	NA		C17-C22	
QPPM body	M	1/8 to 1/4	ProMax	-	C17-C22
QMVV spray tips	NA	NA		C17-C22	
QPPA body	M	1/8 to 1/2		-	
QPTA spray tips	NA	NA		C17-C22	

F = female thread; M = male thread; NA = not applicable. There is no material code for brass. Leave material code blank when ordering. For ProMax, the material code is built into part number. Other materials available upon request.

For more dimensions and sizes, contact your sales engineer.

See page B16 for maximum operating pressures for ProMax QuickJet nozzles at various temperatures.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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	
				●			100	6.2	14.4	19.1	28	39	56	60	79	88	102	93	95	99	102	
		●					150	7.5	22	29	42	59	84	90	118	132	153	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	

*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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°	•	•			•		03	1.1	.43	.57	.84	1.2	1.7	1.8	2.4	2.6	3.1	70	80	87	90
	•	•			•		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
				•			100	6.2	14.4	19.1	28	39	56	60	79	88	102	75	80	83	86
				•			150	7.5	22	29	42	59	84	90	118	132	153	73	80	84	86
			•			200	8.7	29	38	56	79	112	121	158	177	204	74	80	82	85	
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
		•					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

*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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°	•	•			•		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	
		•			•		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	
				•			100	6.2	14.4	19.1	28	39	56	60	79	88	102	58	65	69	70	
				•			150	7.5	22	29	42	59	84	90	118	132	153	59	65	68	70	
			•			200	8.7	29	38	56	79	112	121	158	177	204	60	65	67	69		
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		

*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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
50°			●			●	70	5.2	10.1	13.3	19.5	28	39	42	55	62	71	46	50	54	59
				●			100	6.2	14.4	19.1	28	39	56	60	79	88	102	44	50	52	54
				●			120	6.7	17.3	23	34	47	67	72	95	106	122	44	50	53	55
				●			150	7.5	22	29	42	59	84	90	118	132	153	45	50	52	55
				●			200	8.7	29	38	56	79	112	121	158	177	204	46	50	52	55
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
		●					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	
			●			100	6.2	14.4	19.1	28	39	56	60	79	88	102	34	40	43	46	
			●			150	7.5	22	29	42	59	84	90	118	132	153	35	40	43	44	
			●			200	8.7	29	38	56	79	112	121	158	177	204	36	40	42	44	
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

*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)										Spray Angle (°)			
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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°		●			●		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	
			●			●	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	
				●			100	6.2	14.4	19.1	28	39	56	60	79	88	102	23	25	28	32	
				●			150	7.5	22	29	42	59	84	90	118	132	153	24	25	28	30	
			●			200	8.7	29	38	56	79	112	121	158	177	204	24	25	26	29		
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		

*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	Quick VeeJet Tip Type						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)				
	QSVV	QVVA	QUA	QLUA	QMVV	QPTA			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
15°			●				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
				●			100	6.2	14.4	19.1	28	39	56	60	79	88	102	13	15	17	18
				●			120	6.8	17.3	23	34	47	67	72	95	106	122	13	15	17	18
				●			150	7.5	22	29	42	59	84	90	118	132	153	14	15	17	18
				●			200	8.7	29	38	56	79	112	121	158	177	204	14	15	17	18
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				
		●	●				05	1.6	.72	.95	1.4	2.0	2.8	3.0	3.9	4.4	5.1				
		●	●				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				
				●			100	6.0	14.4	19.1	28	39	56	60	79	88	102				
				●			120	6.8	17.3	23	34	47	67	72	95	106	122				
			●			150	7.3	22	29	42	59	84	90	118	132	153					
			●			200	8.5	29	38	56	79	112	121	158	177	204					
			●			250	9.5	36	48	70	99	140	151	197	221	255					

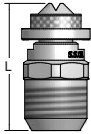
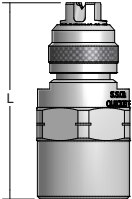
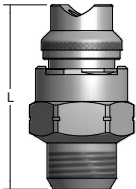
*Maximum pressure for QMVV is 12 bar.

**Maximum pressure for QPTA is 15 bar.

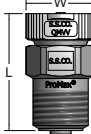

Highlighted column shows the rated pressure.



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	W (Width) (mm)	Net Weight (kg)
	QJJS (M) + QSVV	1/8, 1/4	27.8	9/16	–	0.03
	QJA (F) + QVVA	1/8, 1/4, 3/8, 1/2	54.8	1	–	0.06
	QJJA (M) + QVVA	1/8, 1/4, 3/8, 1/2	53.0	7/8	–	0.08
	QJA (F) + QUA	1/8, 1/4, 3/8, 1/2	50.8	1	–	0.11
	QJJA (M) + QUA	1/8, 1/4, 3/8, 1/2	48.4	7/8	–	0.11
	QJLA (F) + QLUA	3/8, 1/2	58.7	1-1/8	–	0.13
	QJJLA (M) + QLUA	3/8, 1/2	58.7	1-1/8	–	0.13

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	W (Width) (mm)	Net Weight (kg)
	QPPM (M) + QMVV	1/8, 1/4	30.2	5/8	17.5	0.01
	QPPA (M) + QPTA	1/8, 1/4, 3/8, 1/2	44.5	7/8	31.8	0.01

Based on the largest/heaviest version of each type.

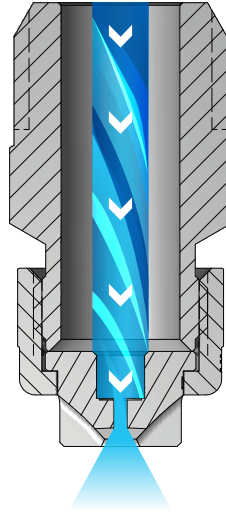
BODY TYPES

Inlet Conn. (in.)	Quick VeeJet and ProMax Quick VeeJet Bodies						
	Conn. F		Conn. M				
	QJA	QJLA	QJJS	QJJA	QJJLA	QPPM	QPPA
1/8	•		•	•		•	•
1/4	•		•	•		•	•
3/8	•	•		•	•		•
1/2	•	•		•	•		•



OVERVIEW: UNIJET

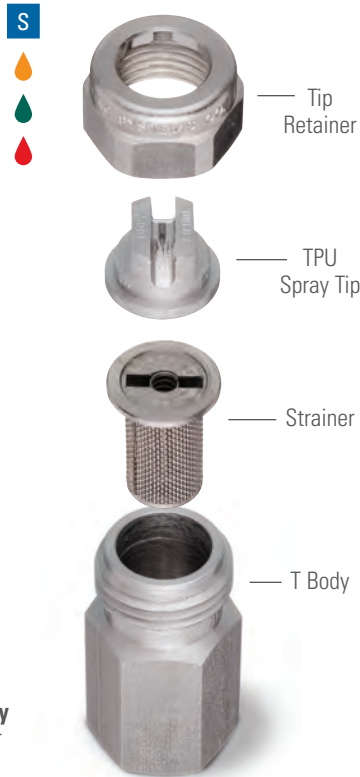
- A large choice of interchangeable spray tips, body types/sizes, materials, spray angles, flow rates and accessories allows use of different components in a single header to match performance to different operations
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced
- Design allows easy tip change out in place – remove tips by unscrewing the retainer cap
- Recessed orifices to protect against damage
- Flat fan type, tapered edge spray pattern
- Spray angles from 0° to 110°
- Uniform spray distribution with flow rates from .003 to 25 gpm (.013 to 94 lpm)
- Operating pressures up to 500 psi (35 bar)



UniJet VeeJet® 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.

UNIJET OPTIONS



TPU Spray Tip + T Body
Use with screen strainer and tip retainer



TT Body/Cap
1/8" to 1/2" male conn.



T Body/Cap
1/8" to 1/2" female conn.



13802 Spray Tip
Self-aligning tip
Wrench flats on top of tip
Straight alignment flats connection
Use with self-aligning T or TT bodies

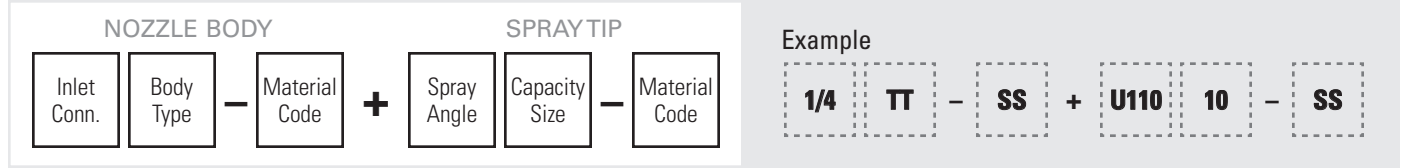
**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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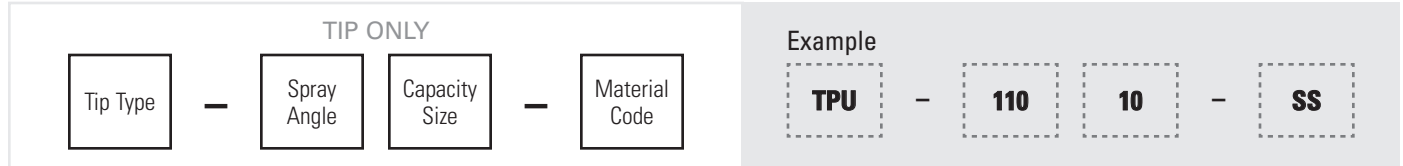
Drop size will vary based on flow rate and pressure.

ORDERING INFORMATION

UNIJET



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



UniJet nozzle assemblies include a pre-sized wire mesh based on orifice diameter. When ordering just a UniJet spray tip, the mesh is not included. See Accessories, page F6 for a mesh selection guide and ordering information.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
T body	F	1/8 to 1/2	Brass, 303 stainless steel (SS)	–	C31
TT body	M			–	
TPU spray tip	NA	NA	Brass, 303 stainless steel (SS)	C25–C31	
13802 spray tip	NA	NA	Brass, 303 stainless steel (SS), 316 stainless steel (316 SS)	C25–C31	

F = female thread; M = male thread; NA = not applicable. 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	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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

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

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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°	●	●	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	
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

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

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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°	●	●	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	
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

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

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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°	●	●	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
	●	●	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	

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

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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°	●	●	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
	●	●	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

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

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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
25°	●	●	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
	●	●	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	

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

Highlighted column shows the rated pressure.



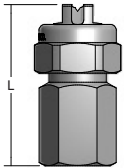
S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Spray Angle at 3 bar	UniJet Tip Type		Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)									Spray Angle (°)			
	13802	TPU			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
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					

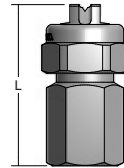
Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	T (F) + TPU TT (M) + TPU	1/4	40.9	13/16	0.06

Based on the largest/heaviest version of each type.

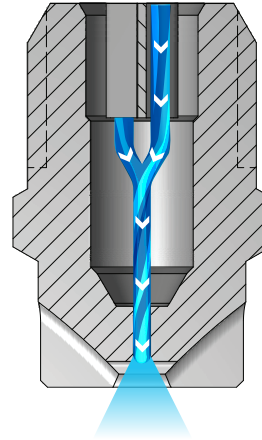
Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	T (F) + 13802 TT (M) + 13802	1/4	48.0	13/16	0.06

Based on the largest/heaviest version of each type.



OVERVIEW: WASHJET

- High-impact sprays and high pressure operation ensure optimal cleaning – ideal for pressure washing
- Long wear life – 400 series stainless steel material
- Flat spray nozzles provide an even edge fan type spray pattern
- Uniform spray distribution from .27 to 78 gpm (1.0 to 290 lpm) by using optional internal guide vane to stabilize liquid turbulence
- Spray angles from 0° (solid stream) to 65° for MEG, WEG and MEG-SSTC; 0° to 80° for IMEG
- Operating pressures from 300 to 4000 psi (20 to 275 bar)
- MEG-SSTC nozzles have tungsten carbide orifice inserts for maximum erosion resistance
- IMEG® versions are ideal for critical, demanding operations
Features:
 - Patented design that optimizes fluid dynamics by minimizing turbulence
 - Higher impact per unit area than MEG nozzles



WashJet Nozzles
As the liquid exits through the rounded U shape of the orifice, it forms into a flat spray pattern. The distribution is even at pressures above 300 psi (20 bar).

WASHJET OPTIONS

S



MEG

1/8" to 1/4" male conn.

S



WEG

1/8" to 1/4" female conn.

S



MEG-SSTC

1/4" male conn.

S



IMEG

1/8" to 1/4" male conn.

ORDERING INFORMATION

WASHJET MEG, WEG, MEG-SSTC AND IMEG WITH GUIDE VANE

Inlet Conn.	Nozzle Type	–	Spray Angle	Capacity Size	Example
					1/4 MEG – 15 04

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

WASHJET MEG, WEG, MEG-SSTC AND IMEG WITHOUT GUIDE VANE

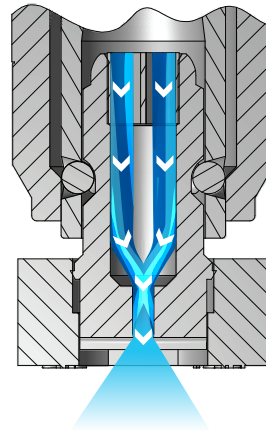
Inlet Conn.	Nozzle Type	–	Spray Angle	Capacity Size	Example
					1/4 SAMEG – 15 04

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



OVERVIEW: QUICK-CONNECT WASHJET

- QCMEG and QCIMEG fit in Parker® ST fitting or equivalent
- Color-coded nozzle guards for easy spray angle identification
- Locating ribs on nozzle guards for fast alignment and easy spray pattern direction
- High impact sprays and high pressure operation ensure effective cleaning
- Long wear life – 400 series stainless steel material
- Uniform spray distribution from .55 to 15 gpm (2.0 to 57 lpm) by using optional internal guide vane to stabilize liquid turbulence
- Spray angles from 0° (solid stream) to 40°
- QCIMEG versions are ideal for critical, demanding operations. Features:
 - Patented design that optimizes fluid dynamics by minimizing turbulence
 - Higher impact per unit area than QCMEG nozzles



Quick-Connect WashJet Nozzles

As the liquid exits through the rounded U shape of the orifice, it forms into a flat spray pattern. The distribution is even at pressures above 300 psi (20 bar).

QUICK-CONNECT WASHJET OPTIONS



QCMEG
1/4" quick-connect



QCIMEG
1/4" quick-connect

ORDERING INFORMATION

QUICK-CONNECT WASHJET QCMEG AND QCIMEG WITH GUIDE VANE

Nozzle Type	—	Spray Angle	Capacity Size	Example
				QCMEG — 15 05

QUICK-CONNECT WASHJET QCMEG AND QCIMEG WITHOUT GUIDE VANE

Nozzle Type	—	Spray Angle	Capacity Size	Example
				SAQCMEG — 15 05

RELATIVE DROP SIZE IN MICRONS

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
MEG	M	1/8 to 1/4	Hardened stainless steel	C34–C35	C37
WEG	F	1/8 to 1/4		C35	
MEG-SSTC	M	1/4		C34–C35	
IMEG®	M	1/8 to 1/4		C36	
QCMEG	NA	NA		C36	
QCIMEG	NA	NA		C37	

F = female thread; M = male thread; NA = not applicable. Material is built into part number for ordering. For more dimensions and sizes, contact your sales engineer.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY



Nozzle Type and Spray Angle																	Capacity Size	Flow Rate Capacity (liters per minute)												
1/8 MEG					1/4 MEG					1/4 MEG-SSTC								3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar				
0°*	5°	15°	25°	40°	50°	65°	0°*	5°	15°	25°	40°	50°	65°	0°*	5°	15°	25°	40°	50°	65°										
									●					●	●	●					01	.39	1.0	1.3	1.6	2.0	2.3	2.7	3.0	3.2
									●												015	.59	1.5	2.0	2.4	3.1	3.4	4.0	4.5	4.8
●	●	●	●	●			●	●	●	●	●		●	●	●	●	●				02	.79	2.0	2.7	3.2	4.1	4.6	5.4	5.9	6.4
													●								025	.99	2.5	3.4	4.0	5.1	5.7	6.7	7.4	8.1
●		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●		●	●	03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7
									●	●	●										035	1.4	3.6	4.7	5.6	7.1	8.0	9.4	10.4	11.3
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3
●		●	●	●	●		●	●	●	●	●	●	●								065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23
●		●	●	●	●		●	●	●	●	●	●	●								075	3.0	7.6	10.1	12.1	15.3	17.1	20	22	24
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26
●		●	●	●	●		●	●	●	●	●	●	●								085	3.4	8.7	11.5	13.7	17.3	19.4	23	25	27
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	09	3.6	9.2	12.1	14.5	18.3	21	24	27	29
		●	●				●		●		●										095	3.8	9.7	12.8	15.3	19.4	22	26	28	31
●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	10	3.9	10.2	13.5	16.1	20	23	27	30	32
●			●				●		●	●	●										11	4.3	11.2	14.8	17.7	22	25	30	33	35
●		●	●																		115	4.5	11.7	15.5	18.5	23	26	31	34	37
●				●			●	●	●	●	●	●	●	●	●	●	●	●	●	●	12	4.7	12.2	16.2	19.3	24	27	32	36	39
●							●		●	●	●										125	4.9	12.7	16.9	20	25	28	34	37	40

*0° = Solid Stream.
Highlighted column shows the rated pressure.

S PERFORMANCE DATA: **STANDARD ANGLE SPRAY**

Nozzle Type and Spray Angle																	Capacity Size	Flow Rate Capacity (liters per minute)														
1/8 MEG							1/4 MEG							1/4 MEG-SSTC							3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar			
0°*	5°	15°	25°	40°	50°	65°	0°*	5°	15°	25°	40°	50°	65°	0°*	5°	15°		25°	40°	50°										65°		
•							•		•	•	•											13	5.1	13.3	17.5	21	27	30	35	39	42	
	•								•	•													14	5.5	14.3	18.9	23	29	32	38	42	45
•		•	•				•	•	•	•	•	•	•	•		•		•		•			15	5.9	15.3	20	24	31	34	40	45	48
		•					•		•														16	6.3	16.3	22	26	33	36	43	48	52
							•		•	•	•				•								18	7.1	18.3	24	29	37	41	49	53	58
•							•	•	•	•	•	•	•	•	•								20	7.9	20	27	32	41	46	54	59	64
							•	•	•	•	•												25	9.9	25	34	40	51	57	67	74	81
							•	•	•	•	•		•										30	11.8	31	40	48	61	68	81	89	97
							•		•	•	•												35	13.8	36	47	56	71	80	94	104	113
							•	•	•	•	•												40	15.8	41	54	64	82	91	108	119	129
							•		•	•	•												50	19.7	51	67	81	102	114	135	149	161
							•		•	•	•												60	24	61	81	97	122	137	162	178	193
							•																70	28	71	94	113	143	160	189	208	226
							•																80	32	82	108	129	163	182	216	238	258
							•																90	36	92	121	145	183	205	243	267	290

*0° = Solid Stream.

Highlighted column shows the rated pressure.

S PERFORMANCE DATA: **STANDARD ANGLE SPRAY**

Nozzle Type and Spray Angle														Capacity Size	Flow Rate Capacity (liters per minute)																	
1/8 WEG							1/4 WEG								3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar									
0°*	5°	15°	25°	40°	50°	65°	0°*	5°	15°	25°	40°	50°	65°																			
		•	•	•																		03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7	
•		•	•	•	•	•	•			•	•	•		•									04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9
		•	•	•						•	•	•											045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5
•		•	•	•	•	•	•	•		•	•	•	•	•		•							05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1
•		•	•	•	•	•	•	•		•	•												055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7
•		•	•	•	•	•	•	•		•	•	•											06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3
				•						•													065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21
•		•	•	•	•	•	•	•		•	•	•		•									07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23
•		•	•	•	•	•	•	•		•	•	•											08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26
•		•	•	•																			085	3.4	8.7	11.5	13.7	17.3	19.4	23	25	27
•		•	•	•	•	•	•	•		•	•	•											09	3.6	9.2	12.1	14.5	18.3	21	24	27	29
			•																				095	3.8	9.7	12.8	15.3	19.4	22	26	28	31
•		•	•	•	•	•	•	•		•	•	•											10	3.9	10.2	13.5	16.1	20	23	27	30	32
							•																15	5.9	15.3	20	24	31	34	40	45	48
		•																					16	6.3	16.3	22	26	33	36	43	48	52
•																							20	7.9	20	27	32	41	46	54	59	64
							•																30	11.8	31	40	48	61	68	81	89	97

*0° = Solid Stream.

Highlighted column shows the rated pressure.



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type	Spray Angle at 3 bar								Capacity Size	Flow Rate Capacity (liters per minute)											
		IMEG®	5°	10°	15°	25°	40°	50°	65°		80°	3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar	250 bar	275 bar
1/8, 1/4	●	●	●	●	●	●	●	●	●	●	03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7	10.8	11.3
	●	●	●	●	●	●	●	●	●	●	035	1.4	3.6	4.7	5.6	7.1	8.0	9.4	10.4	11.3	12.6	13.2
	●	●	●	●	●	●	●	●	●	●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9	14.4	15.1
	●	●	●	●	●	●	●	●	●	●	045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5	16.2	17.0
	●	●	●	●	●	●	●	●	●	●	05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1	18.0	18.9
	●	●	●	●	●	●	●	●	●	●	055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7	19.8	21
	●	●	●	●	●	●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3	22	23
	●	●	●	●	●	●	●	●	●	●	065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21	23	25
	●	●	●	●	●	●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23	25	26
	●	●	●	●	●	●	●	●	●	●	075	3.0	7.6	10.1	12.1	15.3	17.1	20	22	24	27	28
●	●	●	●	●	●	●	●	●	●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26	29	30	

Highlighted column shows the rated pressure.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Nozzle Type	Spray Angle at 3 bar				Capacity Size	Flow Rate Capacity (liters per minute)										
	0°* (Red)	15° (Yellow)	25° (Green)	40° (White)		3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar	250 bar	275 bar
●			●	●	02	.79	2.0	2.7	3.2	4.1	4.6	5.4	5.9	6.4	7.2	7.6
●	●	●	●		03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7	10.8	11.3
●	●	●	●	●	035	1.4	3.6	4.7	5.6	7.1	8.0	9.4	10.4	11.3	12.6	13.2
●	●	●	●	●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9	14.4	15.1
●	●	●	●	●	045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5	16.2	17.0
●	●	●	●	●	05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1	18.0	18.9
●	●	●	●	●	055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7	19.8	21
●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3	22	23
●	●	●	●	●	065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21	23	25
●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23	25	26
●	●	●	●	●	075	3.0	7.6	10.1	12.1	15.3	17.1	20	22	24	27	28
●	●	●	●	●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26	29	30
●		●	●	●	09	3.6	9.2	12.1	14.5	18.3	21	24	27	29	32	34
●	●	●	●	●	10	3.9	10.2	13.5	16.1	20	23	27	30	32	36	38
●	●	●	●	●	12	4.7	12.2	16.2	19.3	24	27	32	36	39	43	45
●		●		●	15	5.9	15.3	20	24	31	34	40	45	48	54	57

*0° = Solid Stream.

Highlighted column shows the rated pressure.

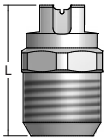
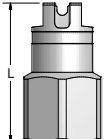
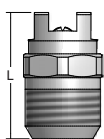


S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

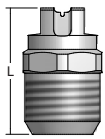
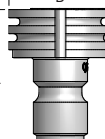
Nozzle Type	Spray Angle at 3 bar				Capacity Size	Flow Rate Capacity (liters per minute)										
	10° (Orange)	15° (Yellow)	25° (Green)	40° (White)		3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar	200 bar	250 bar	275 bar
●			●	●	02	.79	2.0	2.7	3.2	4.1	4.6	5.4	5.9	6.4	7.2	7.6
●	●	●	●	●	03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7	10.8	11.3
●	●	●	●	●	035	1.4	3.6	4.7	5.6	7.1	8.0	9.4	10.4	11.3	12.6	13.2
●	●	●	●	●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9	14.4	15.1
●	●	●	●	●	045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5	16.2	17.0
●	●	●	●	●	05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1	18.0	18.9
●	●	●	●	●	055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7	19.8	21
●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3	22	23
●	●	●	●	●	065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21	23	25
●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23	25	26
●	●	●	●	●	075	3.0	7.6	10.1	12.1	15.3	17.1	20	22	24	27	28
●	●	●	●	●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26	29	30
●		●	●	●	09	3.6	9.2	12.1	14.5	18.3	21	24	27	29	32	34

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Flats (mm)	Net Weight (kg)
	MEG (M)	1/8	25.4	9/16	-	7.9	0.02
		1/4	25.4	9/16	-	10.3	0.02
	WEG (F)	1/8	28.6	1/2	-	7.9	0.03
		1/4	28.6	5/8	-	7.9	0.02
	MEG-SSTC (M)	1/4	23.0	9/16	-	10.3	0.02

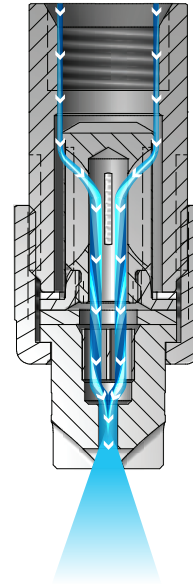
Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Flats (mm)	Net Weight (kg)
	IMEG® (M)	1/8	22.2	1/2	-	7.9	0.02
		1/4	23.0	9/16	-	10.3	0.02
	QCIMEG/ QCIMEG	-	31.0	-	24.6	-	0.02

Based on the largest/heaviest version of each type.

OVERVIEW: UNIJET HIGH PRESSURE SPRAY NOZZLE

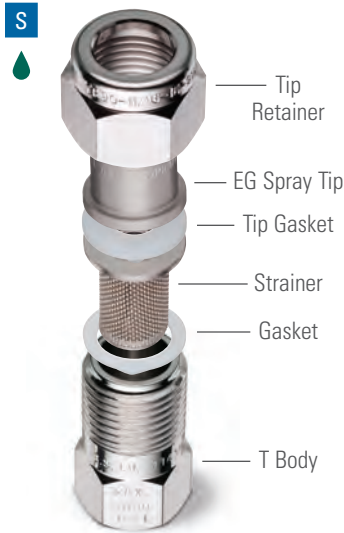
- Designed for operations requiring higher impact
- Save on nozzle replacement costs – bodies can be reused, only spray tips are replaced
- Design allows easy tip change out – remove tips by unscrewing the retainer cap
- Flat spray nozzles provide an even edge fan type spray pattern
- Spray angles from 0° to 65°
- Uniform spray distribution across the entire spray pattern and flow rates from .41 to 17.3 gpm (1.5 to 64 lpm)
- Operating pressures from 300 to 3000 psi (20 to 200 bar) – higher than standard tips
- Body assembly consists of high pressure nozzle body, strainer, tip gasket and high pressure tip retainer



UniJet High Pressure Nozzles

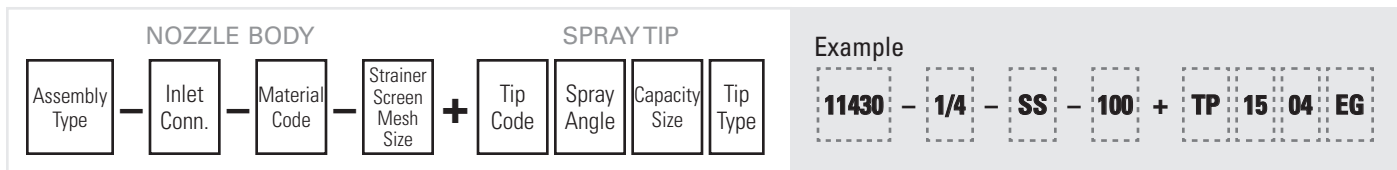
As the liquid exits through the rounded U shape of the orifice, it forms into a flat spray pattern. The distribution is even at pressures above 300 psi (20 bar).

UNIJET HIGH PRESSURE SPRAY NOZZLE



EG Spray Tip + 11430 Assembly
Use with gasket, screen strainer, tip gasket and high pressure tip retainer

**ORDERING INFORMATION
UNIJET HIGH PRESSURE**



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

**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
11430 body assembly	F	1/4	303 stainless steel (SS)	–	C39
EG spray tip	NA	NA	Hardened stainless steel	C39	

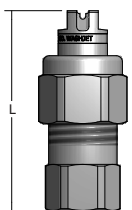
F = female thread; NA = not applicable. No material code is required for hardened stainless steel. Leave material code blank when ordering.
For more dimensions and sizes, contact your sales engineer.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

UniJet Tip Type	Spray Angle at 3 bar						Capacity Size	Flow Rate Capacity (liters per minute)								
	EG	0°*	15°	25°	40°	50°		65°	3 bar	20 bar	35 bar	50 bar	80 bar	100 bar	140 bar	170 bar
●	●						015	.59	1.5	2.0	2.4	3.1	3.4	4.0	4.5	4.8
●	●						02	.79	2.0	2.7	3.2	4.1	4.6	5.4	5.9	6.4
●	●	●	●				03	1.2	3.1	4.0	4.8	6.1	6.8	8.1	8.9	9.7
●	●	●	●	●		●	04	1.6	4.1	5.4	6.4	8.2	9.1	10.8	11.9	12.9
●	●	●	●	●			045	1.8	4.6	6.1	7.3	9.2	10.3	12.1	13.4	14.5
●	●	●	●	●			05	2.0	5.1	6.7	8.1	10.2	11.4	13.5	14.9	16.1
●	●	●	●	●			055	2.2	5.6	7.4	8.9	11.2	12.5	14.8	16.3	17.7
●	●	●	●	●	●	●	06	2.4	6.1	8.1	9.7	12.2	13.7	16.2	17.8	19.3
●	●		●				065	2.6	6.6	8.8	10.5	13.3	14.8	17.5	19.3	21
●	●	●	●	●	●	●	07	2.8	7.1	9.4	11.3	14.3	16.0	18.9	21	23
●	●	●	●	●		●	08	3.2	8.2	10.8	12.9	16.3	18.2	22	24	26
●	●	●	●	●		●	09	3.6	9.2	12.1	14.5	18.3	21	24	27	29
●	●	●	●	●	●		10	3.9	10.2	13.5	16.1	20	23	27	30	32
●	●		●				11	4.3	11.2	14.8	17.7	22	25	30	33	35
●			●				12	4.7	12.2	16.2	19.3	24	27	32	36	39
●	●	●		●			13	5.1	13.3	17.5	21	27	30	35	39	42
●	●						14	5.5	14.3	18.9	23	29	32	38	42	45
●		●	●	●			15	5.9	15.3	20	24	31	34	40	45	48
●	●			●	●		20	7.9	20	27	32	41	46	54	59	64

*0° = Solid Stream.
Other body types may be available. Contact representative for further information.
Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

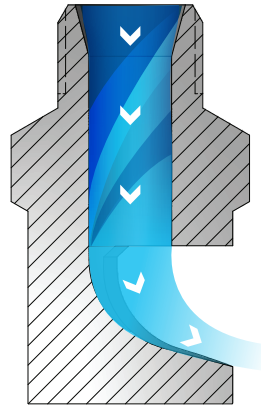
Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	Net Weight (kg)
	11430 (F) + EG	1/4	56.3	13/16	0.10

Based on the largest/heaviest version of each type.



OVERVIEW: FLOODJET

- Ideal for operations requiring wide coverage
- Wide angle, deflected type flat fan spray pattern
- Use when nozzles can be mounted horizontally
- Orifice is protected from damage and is designed to minimize clogging
- Spray angles from 73° to 153°
- Uniform spray distribution from .04 to 110 gpm (.14 to 410 lpm)
- Operating pressures up to 60 psi (4 bar)
- TEK provides a tapered edge spray pattern to eliminate heavy edges while maintaining the wide spray pattern



FloodJet Nozzles

As liquid passes through the nozzle, it hits the deflector surface and spreads out to form a flat spray pattern. The distribution is even from the center of the spray. The deflector surface enables the formation of very wide spray angles compared to other flat spray nozzles.

FLOODJET OPTIONS



K

1/8" to 1" male conn.



TEK

1/8" to 1/4" male conn.

ORDERING INFORMATION

FLOODJET K

Inlet Conn.	Nozzle Type	—	Material Code	Capacity Size	Example
					1/8 K — SS 2

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

FLOODJET TEK

Inlet Conn.	Nozzle Type	—	Material Code	Capacity Size	Example
					1/8 TEK — SS 2

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

**RELATIVE DROP SIZE
IN MICRONS**

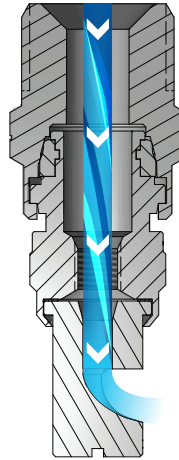
10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.



OVERVIEW: QUICK FLOODJET

- Ideal for high-maintenance operations – bodies remain on pipe/header; quick quarter-turn removes/installs spray tips in seconds
- Automatic alignment feature saves time
- Miniature versions are ideal when smaller physical size and lower weight are required
- Wide angle, deflected type flat fan spray pattern
- Spray angles from 73° to 153°
- Uniform spray distribution with flow rates from .01 to 14.7 gpm (.037 to 55 lpm)
- Operating pressures up to 60 psi (4 bar)



Quick FloodJet Nozzles

As liquid passes through the nozzle, it hits the deflector surface and spreads out to form a flat spray pattern. The distribution is even from the center of the spray. The deflector surface enables the formation of very wide spray angles compared to other flat spray nozzles.

**QUICK FLOODJET
OPTIONS**



QTKA Spray Tip + QJA Body
1/8" to 1/2" female conn.
Use with QJA or QJJA body



QJJA Body
1/8" to 1/2" male conn.



QJJS Body
Miniature version
1/8" to 1/4" male conn.



QSTK Spray Tip
Miniature version
Flow rates below 1 gpm at 40 psi
(3.9 lpm at 2.8 bar)
Use with seal and QJJS body

ORDERING INFORMATION

QUICK FLOODJET

NOZZLE BODY			SPRAY TIP			
Inlet Conn.	Body Type	Material Code	+	Tip Type	Material Code	Capacity Size

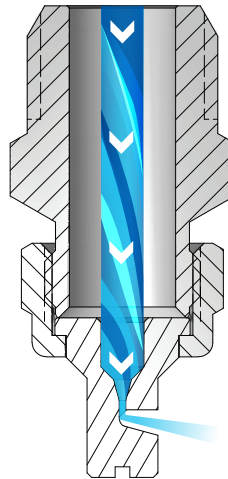
Example						
3/8	QJA	SS	+	QTKA	SS	1.5

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



OVERVIEW: UNIJET® FLOODJET

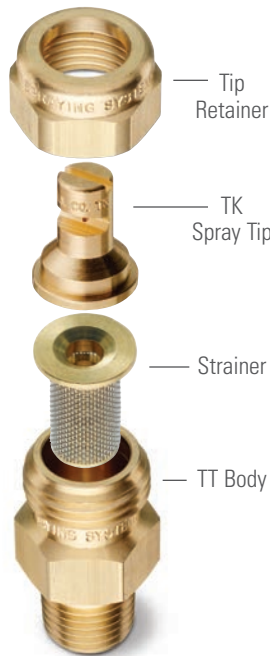
- A large choice of interchangeable spray tips, body types/ sizes, materials, spray angles, flow rates and accessories allows use of different components in a single header to match performance to different operations
- Design allows easy tip change out in place – remove tips by unscrewing the retainer cap
- Wide angle, deflected type flat fan spray pattern
- Spray angles from 73° to 153°
- Uniform spray distribution with flow rates from .06 to 12.2 gpm (.28 to 46 lpm)
- Operating pressures up to 60 psi (4 bar)
- Assembly consists of nozzle body, strainer, spray tip and tip retainer



UniJet FloodJet Nozzles

As liquid passes through the nozzle, it hits the deflector surface and spreads out to form a flat spray pattern. The distribution is even from the center of the spray. The deflector surface enables the formation of very wide spray angles compared to other flat spray nozzles.

**UNIJET FLOODJET
OPTIONS**



TK Spray Tip + TT Body
Use with screen strainer and tip retainer
1/8" to 1/2" male conn.



ORDERING INFORMATION

UNIJET FLOODJET

NOZZLE BODY			SPRAY TIP			
Inlet Conn.	Body Type	Material Code	+	Tip Type	Material Code	Capacity Size

Example
1/4 TT - SS + TK - SS 2

UniJet nozzle assemblies include a pre-sized wire mesh based on orifice diameter. When ordering just a UniJet spray tip, the mesh is not included. See Accessories, page F6 for a mesh selection guide and ordering information.

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

**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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Drop size will vary based on flow rate and pressure.

QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
K nozzle	M	1/8 to 1	Brass, 303 stainless steel (SS), 316 stainless steel (316SS), Polyvinyl chloride (PVC) Brass, 303 stainless steel (SS)	C43-C44	C46
TEK nozzle	M	1/8 to 1/4		C44	
QJA body	F	1/8 to 1/2		—	
QJJA body	M	1/8 to 1/2		—	
QTKA spray tip	NA	NA		C45	
QJJS body	M	1/8 or 1/4		—	
QSTK spray tip	NA	NA		C45	
T body	F	1/8 to 1/2		—	
TT body	M	1/8 to 1/2		—	
TK spray tip	NA	NA		C45-C46	

F = female thread; M = male thread; NA = not applicable. 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.

W PERFORMANCE DATA:
WIDE ANGLE SPRAY



Nozzle Type	Inlet Conn. (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)								Spray Angle (°)		
	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	

Highlighted column shows the rated pressure.



W PERFORMANCE DATA:
WIDE ANGLE SPRAY

Nozzle Type	Inlet Conn. (in.)						Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)							Spray Angle (°)		
	K	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
●		●					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.

W PERFORMANCE DATA:
WIDE ANGLE SPRAY

Inlet Conn. (in.)	Nozzle Type	Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)							Spray Angle (°)		
				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	●	2	1.2	–	.64	.76	1.1	1.3	1.6	1.8	85	125	134
	●	3	1.5	–	.97	1.1	1.7	1.9	2.4	2.7	85	125	136
	●	5	1.9	1.0	1.6	1.9	2.8	3.2	3.9	4.6	85	127	147
	●	10	2.7	2.0	3.2	3.8	5.6	6.4	7.9	9.1	85	130	150
1/4	●	15	3.3	3.1	4.8	5.7	8.4	9.7	11.8	13.7	90	130	138
	●	20	3.8	4.1	6.4	7.6	11.2	12.9	15.8	18.2	107	130	138

Highlighted column shows the rated pressure.



**W PERFORMANCE DATA:
WIDE ANGLE SPRAY**

Inlet Conn. (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.

**W PERFORMANCE DATA:
WIDE ANGLE SPRAY**

Inlet Conn. (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.



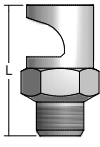
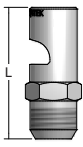
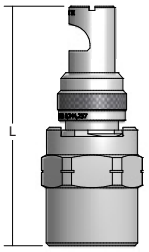
W PERFORMANCE DATA:
WIDE ANGLE SPRAY

Inlet Conn. (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

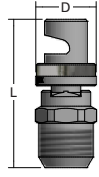
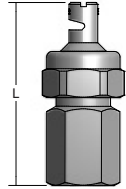
Other body types may be available. Contact your sales engineer for further information.

Highlighted column shows the rated pressure.

DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	K (M)	1/8	31.0	9/16	–	0.03
		1/4	34.1	9/16	–	0.03
		3/8	44.5	11/16	–	0.06
		1/2	50.8	7/8	–	0.11
		3/4	65.0	1-1/2	–	0.20
		1	92.1	1-7/8	–	0.91
	TEK (M)	1/8	28.6	7/16	–	0.02
		1/4	38.6	9/16	–	0.04
	QJA (F) + QTKA	1/8, 1/4, 3/8, 1/2	64.3	1	–	0.14
	QJJA (M) + QTKA	1/8, 1/4, 3/8, 1/2	61.9	7/8	–	0.13

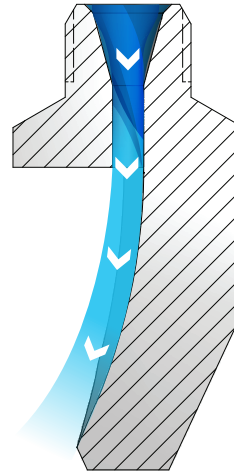
Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	QJJS (M) + QSTK	1/8, 1/4, 3/8, 1/2	37.3	9/16	15.1	0.04
	T (F) + TK	1/4	50.8	13/16	–	0.07
	TT (M) + TK	1/4	50.8	13/16	–	0.06

Based on the largest/heaviest version of each type.

OVERVIEW: FLATJET

- Provides higher impact than other narrow angle nozzles
- Deflected type flat fan spray pattern
- Ideal for conveyor cleaning
- Spray angles from 15° to 50°
- Uniform spray distribution from .24 to 39 gpm (.91 to 144 lpm)
- Operating pressures up to 150 psi (10 bar)



FlatJet Nozzles

As liquid passes through the nozzle, it hits the deflector surface and spreads out to form a flat spray pattern. The distribution is even from the center of the spray. The combination of medium- to large-flow rates and narrow spray angles produce a high impact spray.

FLATJET OPTIONS



ORDERING INFORMATION

FLATJET P

Inlet Conn.	Nozzle Type	—	Material Code	Spray Angle	Capacity Size	Example
						3/8 P — SS 50 60

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

RELATIVE DROP SIZE IN MICRONS



Drop size will vary based on flow rate and pressure.



QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
P	M	1/8 to 3/4	Brass, Mild steel (I), 303 stainless steel (SS), 316 stainless steel (316SS)	C48-C49	C48-C49

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.

N PERFORMANCE DATA:
NARROW 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 (°)			Dimensions			
		P	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	

Highlighted column shows the rated pressure.



N PERFORMANCE DATA:
NARROW ANGLE SPRAY

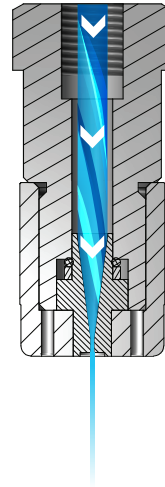
Spray Angle (°) at 3 bar	Nozzle Type	Inlet Conn. (in.)					Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)					Spray Angle (°)			Dimensions				
		P	1/8	1/4	3/8	1/2			3/4	1 bar	1.5 bar	3 bar	6 bar	7 bar	10 bar	1 bar	3 bar	7 bar	A Length (mm)	B Deflection Angle (°)	C Bar Size (mm sq.)
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
25	●		●				40	3.8	9.1	11.2	15.8	22	24	29	15	25	34	65	25	19.1	.11
15	●		●				10	1.9	–	2.8	3.9	5.6	6.0	7.2	–	15	23	47.5	22	15.9	.06
	●		●				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.



OVERVIEW: ULTRA-HIGH PRESSURE FS AND VS

- Ultra-high pressure, high impact flat spray or solid stream
- Operating pressures are up to 10 times higher than other high pressure nozzles – up to 60,000 psi (4000 bar)
- Traditional and quick-connect options;
 - Save on nozzle replacement costs – nozzle bodies can be reused – only spray tips are replaced
- Long wear life – nozzles are hardened stainless steel. Spray tips are available with extra hard sapphire inserts for maximum wear resistance
- Spray angles from 0° to 45°
- Uniform spray distribution from 0.03 to 78 gpm (0.11 to 295 lpm)
- Nozzle bodies include O-ring, gasket (58833 only) and tip retainer



Ultra-High Pressure Nozzles

As liquid passes through the engineered orifice, a very high impact spray pattern is produced in either zero degree (solid stream) or flat spray pattern.

FS AND VS OPTIONS

VS010 Spray Tip + 58834 Body
Operating pressure up to 20,000 psi (1400 bar)

VS625
1/4" male conn.
Operating pressure up to 17,500 psi (1200 bar)

<p>VS940 1/16" male conn. Operating pressure up to 15,000 psi (1000 bar)</p>	<p>58833 Body 3/8" to 1/2" male or female conn.</p>
<p>VS020 Spray Tip Use with 58834 nozzle body Operating pressure up to 30,000 psi (2000 bar)</p>	<p>VS051 Spray Tip No threads* Operating pressure up to 60,000 psi (4000 bar)</p>
*Customer supplies holder	
<p>FS013 Spray Tip Use with 58834 nozzle body Operating pressure up to 30,000 psi (2000 bar)</p>	<p>FS020 Spray Tip Use with 58833 nozzle body Operating pressure up to 30,000 psi (2000 bar)</p>

**RELATIVE DROP SIZE
IN MICRONS**

10 to 100	100 to 500	500 to 1000	1000 to 5000
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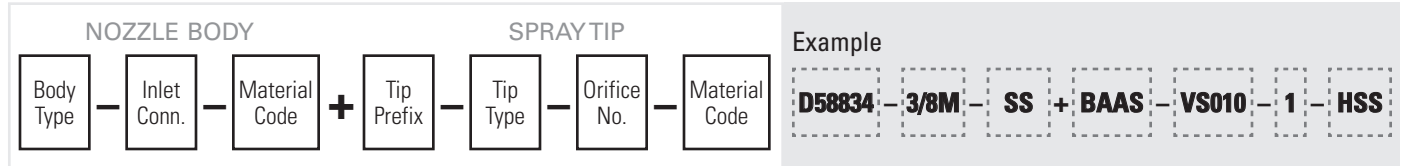
Drop size will vary based on flow rate and pressure.

ORDERING INFORMATION

ULTRA-HIGH PRESSURE VS625 AND VS940

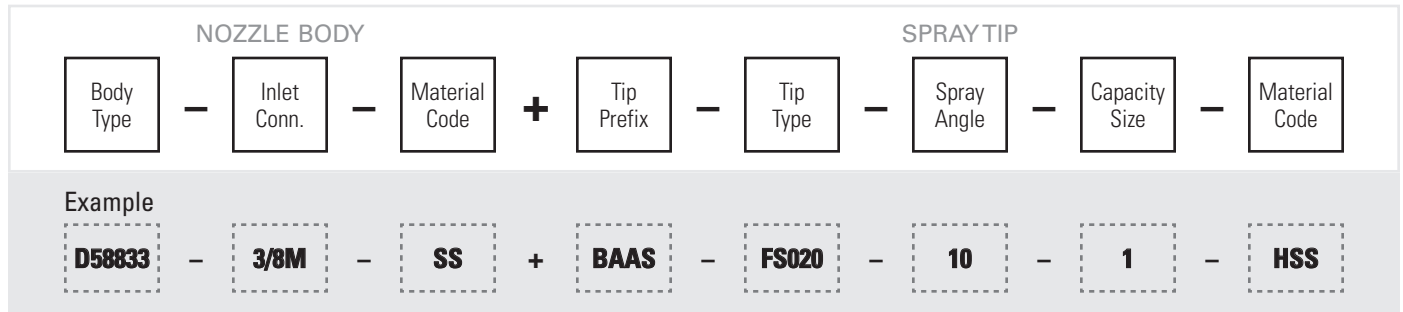


ULTRA-HIGH PRESSURE D58834 BODY WITH FS013, VS010 OR VS020 SPRAY TIP*



*Note: VS051 is available as a spray tip only.

ULTRA-HIGH PRESSURE D58833 BODY WITH FS020 SPRAY TIP



QUICK REFERENCE GUIDE

Model	Connection	Connection Size (in.)	Materials	Page Number	
				Performance Data	Dimensions and Weights
VS625 nozzle	M	1/4	Stainless steel with sapphire insert (SSAP)	C52	C54
VS940 nozzle	M	1/16		C52	
VS010 spray tip	NA	NA	Hardened stainless steel (HSS)	C52	
VS020 spray tip	NA	NA	Stainless steel with sapphire insert (SSAP)	C53	
VS051 spray tip	NA	NA		C53	
FS013 spray tip	NA	NA	Hardened stainless steel (HSS)	C53	
FS020 spray tip	NA	NA		C53	
58833 body	M, F	3/8 to 1/2	Stainless steel (SS)	-	
58834 body	M, F	3/8 to 1/2		-	

F = female thread; M = male thread; NA = not applicable.
For more dimensions and sizes, contact your sales engineer.

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Nozzle Type	Inlet Conn. (in.)	Spray Angle	Orifice No.	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)			
					100 bar	500 bar	750 bar	1200 bar
VS625	1/4	0°	0.25	0.25	0.34	0.75	0.92	1.2
			0.5	0.5	1.3	3.0	3.7	4.6
			0.75	0.75	3.0	6.7	8.2	10.4
			1	1	5.3	12.0	14.6	18.5
			1.5	1.5	12.0	27	33	42
			2	2	21	48	59	74
			2.5	2.5	33	74	91	116

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Nozzle Type	Inlet Conn. (in.)	Spray Angle	Orifice No.	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)		
					500 bar	750 bar	1000 bar
VS940	1/16	0°	0.5	0.5	3.0	3.7	4.2
			0.75	0.75	6.7	8.3	9.5
			1	1	12.0	14.7	16.9
			1.5	1.5	27	33	38
			2	2	48	59	68
			2.5	2.5	75	92	105

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Tip Type	Spray Angle	Orifice No.	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)						
				100 bar	250 bar	500 bar	750 bar	1000 bar	1200 bar	1400 bar
VS010	0°	1	1	6.4	10.0	14.2	17.4	20	22	24
		1.5	1.5	14.6	23	33	40	46	51	55
		2	2	25	40	56	69	79	88	94
		2.5	2.5	40	64	90	111	128	140	151
		3	3	61	97	137	167	193	211	228
		3.5	3.5	80	126	178	200	252	276	298



S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Tip Type	Spray Angle	Orifice No.	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
				500 bar	750 bar	1000 bar	1500 bar	2000 bar
VS020	0°							
●		0.5	0.5	3.0	3.7	4.2	5.2	6.0
●		0.75	0.75	6.7	8.3	9.5	11.7	13.4
●		1	1	12.0	14.7	16.9	21	24
●		1.5	1.5	27	33	38	47	54
●		2	2	48	59	68	83	96
●	2.5	2.5	75	92	105	129	149	

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

Tip Type	Spray Angle	Orifice No.	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)			
				1000 bar	2000 bar	3000 bar	4000 bar
VS051	0°						
●		0.1	0.1	0.13	0.18	0.22	0.25
●		0.25	0.25	0.78	1.1	1.4	1.6
●		0.5	0.5	3.1	4.4	5.4	6.3
●		0.75	0.75	7.1	10.0	12.2	14.1
●	1	1	12.5	17.7	22	25	

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

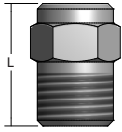
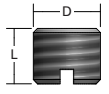
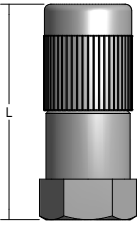
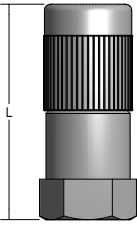
Tip Type	Spray Angle at 20 bar			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
	10°	20°	45°			100 bar	500 bar	750 bar	1000 bar	2000 bar
FS013										
●	●	●	–	0.54	0.32	0.54	1.2	1.5	1.7	2.4
●	●	●	–	1	0.45	1.0	2.2	2.7	3.2	4.5
●	●	●	–	1.5	0.55	1.5	3.4	4.1	4.7	6.7
●	●	●	●	2	0.65	2.0	4.5	5.5	6.3	9.0
●	●	●	●	3	0.80	3.0	6.7	8.2	9.5	13.4

S PERFORMANCE DATA:
STANDARD ANGLE SPRAY

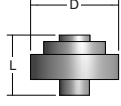
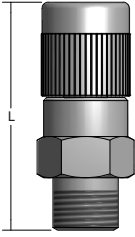
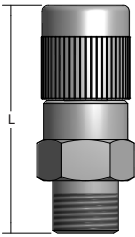
Tip Type	Spray Angle at 20 bar			Capacity Size	Equiv. Orifice Dia. (mm)	Flow Rate Capacity (liters per minute)				
	10°	20°	45°			100 bar	500 bar	750 bar	1000 bar	2000 bar
FS020										
●	●	●	●	4.5	1.0	4.5	10.1	12.3	14.2	20
●	●	●	●	11	1.5	11.0	25	30	35	49
●	●	●	●	19	2.0	19.0	43	52	60	85
●	●	●	●	28	2.5	28	63	77	89	125
●	●	●	●	40	3.0	40	89	110	127	179



DIMENSIONS AND WEIGHTS

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (mm)	Hex. (in.)	D (Dia.) (mm)	Net Weight (kg)
	VS625	1/4 (M)	22	9/16	—	0.02
	VS940	1/16 (M)	6.5	—	7.9	0.002
	58834 (M) + FS013	3/8	70	1-1/16	—	0.27
	58834 (F) + FS013	3/8	70	1-1/16	—	0.27
	58834 (M) + FS013	1/2	70	1-1/16	—	0.27
	58834 (F) + FS013	1/2	70	1-1/16	—	0.27
	58833 (M) + FS020	3/8	70	1-1/16	—	0.28
	58833 (F) + FS020	3/8	70	1-1/16	—	0.28
	58833 (M) + FS020	1/2	70	1-1/16	—	0.28
	58833 (F) + FS020	1/2	70	1-1/16	—	0.28

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)
	VS051 spray tip	—	5.8	—	9.5	0.002
	58834 (M) + VS010	3/8	73	1-1/16	—	0.28
	58834 (F) + VS010	3/8	73	1-1/16	—	0.28
	58834 (M) + VS010	1/2	73	1-1/16	—	0.28
	58834 (F) + VS010	1/2	73	1-1/16	—	0.28
	58834 (M) + VS020	3/8	73	1-1/16	—	0.28
	58834 (F) + VS020	3/8	73	1-1/16	—	0.28
	58834 (M) + VS020	1/2	73	1-1/16	—	0.28
	58834 (F) + VS020	1/2	73	1-1/16	—	0.28

Based on the largest/heaviest version of each type.