

A-range quick fulljet nozzles

S Standard angle spray W Wide angle spray

S

W



QPHA Spray Tip + QPPA Body
1/8" to 1/2" male conn.
Optional external O-ring

S

W



QPHA Spray Tip - Brown
QPHA-1 .1 gpm (.38 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - White
QPHA-1.5 .15 gpm (.57 lpm)
QPHA-2.8W .28 gpm (1.1 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Gray
QPHA-2 .2 gpm (.76 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Black
QPHA-3 .3 gpm (1.1 lpm)
QPHA-4.3W .43 gpm (1.6 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Orange
QPHA-3.5 .35 gpm (1.3 lpm)
QPHA-5.6W .56 gpm (2.1 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Green
QPHA-5 .5 gpm (1.9 lpm)
QPHA-8W .8 gpm (3.1 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Yellow
QPHA-6.5 .65 gpm (2.5 lpm)
QPHA-10W 1.0 gpm (3.8 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Beige
QPHA-8 .8 gpm (3.1 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Blue
QPHA-10 1.0 gpm (3.8 lpm)
QPHA-12W 1.2 gpm (4.6 lpm)
Use with QPPA body

S

W



QPHA Spray Tip - Red
QPHA-15 1.5 gpm (5.7 lpm)
QPHA-14W 1.4 gpm (5.3 lpm)
Use with QPPA body

Capacities at 10 psi (0.7 bar).

// Ordering Information

Metal Quick Fulljet

NOZZLE BODY

Inlet Conn.

Body Type

-

Material Code

+

Tip Type

-

Material Code

Capacity Size

Example

1/4

QJA

-

SS

+

QHA

-

SS

10

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

Metal Quick Fulljet

NOZZLE BODY

Inlet Conn.

Body Type

+

Tip Type

Capacity Size

Example

3/8

QPPA

+

QPHA

-

3

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

RELATIVE DROP SIZE
IN MICRONS

10 to 100 100 to 500 500 to 1000 1000 to 5000

Drop size will vary based on flow rate and pressure.

29 Page

Mid-crown

Nozzles

A-range quick fulljet nozzles

S Standard angle spray W Wide angle spray N Narrow angle spray

// Quick Reference Guide

Model	Connection	Connection Size (in.)	Materials	Page Number		
				Performance Data	Dimensions and Weights	
QJA and QJLA bodies	F	1/8 to 1/2	Brass, 303 stainless steel (SS)	-	B19	
QJJA and QJJLA bodies	M	1/8 to 1/2		-		
QGA, QLGA, QHA and QLHA spray tips	NS	NA		B17		
QPPA body	M	1/4 to 3/8	ProMax	-		
QPHA spray tips	NA	NA		B17		
QGA-W, QLGA-W, QHA-W and QLHA-W spray tips	NA	NA	Brass, 303 stainless steel (SS)	B18		
QPHA-W spray tips	NA	NA	ProMax			
QGA-15, QLGA-15, QGA-30 and QLGA-30 spray tips	NA	NA	Brass, 303 stainless steel (SS)			

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. Brass nozzles have Buna-N seal. Stainless steel nozzles have a seal. For more dimensions and sizes, contact your sales engineer.

// Nozzle Maximum Pressures At Various Temperatures

The recommended maximum operating pressure for ProMax Quickjet nozzles varies based on temperature. As temperature increases, the recommended operating pressure decreases. Do not use outside of operating range.

The graph plots Pressure in Bar (0 to 10.0) and Psi (0 to 150) against Liquid Temperature in °F (40 to 200) and °C (4 to 93). A shaded orange region labeled 'OPERATING RANGE' indicates the recommended use area. The upper boundary of this range starts at 10.0 Bar (150 Psi) at 40°F (4°C) and slopes downward to approximately 7.0 Bar (100 Psi) at 200°F (93°C). The lower boundary is constant at 3.5 Bar (50 Psi) across the entire temperature range.

Page 30

A-range quick fulljet nozzles

S Performance Data: Standard angle spray

Inlet Conn. (in.)	Quick FullJet Tip Type					Capacity Size	Orifice Dia. Nom. (in.)	Max.Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)								Spray Angle (°)		
	QGA	QLGA	QHA	QLHA	QPHA				7 psi	10 psi	20 psi	40 psi	70 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
1/8, 1/4, 3/8, 1/2	•				•	1	.031	.025	-	.10	.14	.19	.24	.26	.29	.35	-	58	53
	•				•	1.5	.047	.025	.13	.15	.21	.28	.37	.39	.43	.52	52	65	59
	•				•	2	.047	.040	.17	.20	.28	.38	.49	.52	.58	.70	43	50	46
	•					2.5	.053	.040	.21	.25	.34	.47	.61	.65	.72	.87	43	50	46
	•				•	3	.063	.040	.25	.30	.41	.57	.73	.78	.87	1.0	52	65	59
	•		•		•	3.5	.063	.050	.30	.35	.48	.66	.86	.91	1.0	1.2	43	50	46
	•					4	.067	.050	.34	.40	.55	.76	.98	1.0	1.2	1.4	48	55	50
	•				•	5	.078	.050	.42	.50	.69	.95	1.2	1.3	1.4	1.7	52	65	59
1/4, 3/8, 1/2	•		•		•	6.5	.094	.063	.55	.65	.89	1.2	1.6	1.7	1.9	2.3	45	50	46
					•	8	.096	.063	.68	.80	1.1	1.5	2.0	2.1	2.3	2.8	54	65	61
	•		•		•	10	.109	.063	.85	1.0	1.4	1.9	2.4	2.6	2.9	3.5	58	67	61
					•	15	.141	.063	1.3	1.5	2.1	2.8	3.7	3.9	4.3	5.2	80	85	80
3/8, 1/2	•					9.5	.109	.094	.81	.95	1.3	1.8	2.3	2.5	2.7	3.3	45	50	46
	•			•		15	.141	.094	1.3	1.5	2.1	2.8	3.7	3.9	4.3	5.2	64	67	61
	•					20	.156	.109	1.7	2.0	2.8	3.8	4.9	5.2	5.8	7.0	76	80	73
	•			•		22	.188	.109	1.9	2.2	3.0	4.2	5.4	5.7	6.3	7.6	87	90	82
1/2		•				16	.141	.125	1.4	1.6	2.2	3.0	3.9	4.2	4.6	5.6	48	50	46
		•				20	.161	.125	1.7	2.0	2.8	3.8	4.9	5.2	5.8	7.0	62	65	59
		•		•		25	.188	.125	2.1	2.5	3.4	4.7	6.1	6.5	7.2	8.7	64	67	61
		•				30	.189	.141	2.5	3.0	4.1	5.7	7.3	7.8	8.7	10.4	69	72	66
		•				32	.203	.141	2.7	3.2	4.4	6.1	7.8	8.3	9.2	11.1	72	75	68
		•				40	.250	.141	3.4	4.0	5.5	7.6	9.8	10.4	11.5	13.9	88	91	83
		•				50	.266	.156	4.2	5.0	6.9	9.5	12.2	13.0	14.4	17.4	91	94	86

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

A-range quick fulljet nozzles

W Performance Data: Wide angle spray

Inlet Conn. (in.)	Quick FullJet Tip Type					Capacity Size	Orifice Dia. Nom. (in.)	Max.Free Passage Dia. (in.)	Flow Rate Capacity (gallons per minute)						Spray Angle (°)		
	QGA-W	QLGA-W	QHA-W	QLHA-W	QPHA-W				7 psi	10 psi	15 psi	40 psi	70 psi	80 psi	5 psi	10 psi	80 psi
1/8, 1/4, 3/8, 1/2	•		•		•	2.8W	.063	.040	-	.28	.33	.52	.66	.70	-	120	102
	•				•	4.3W	.078	.040	-	.43	.51	.79	1.0	1.1	-	120	102
	•		•		•	5.6W	.094	.040	.48	.56	.67	1.0	1.3	1.4	-	120	102
	•		•		•	8W	.094	.050	.68	.80	.96	1.5	1.9	2.0	-	120	103
1/4, 3/8, 1/2	•		•		•	10W	.109	.050	.85	1.0	1.2	1.8	2.4	2.5	112	120	103
	•		•		•	12W	.125	.050	1.0	1.2	1.4	2.2	2.8	3.0	114	120	103
	•		•		•	14W	.141	.063	1.2	1.4	1.7	2.6	3.3	3.5	114	120	103
3/8, 1/2	•					17W	.156	.063	1.5	1.7	2.0	3.1	4.0	4.2	114	120	103
	•			•		20W	.172	.094	1.7	2.0	2.4	3.7	4.7	5.0	114	120	104
	•					24W	.188	.094	2.1	2.4	2.9	4.4	5.7	6.0	114	120	104
	•					27W	.203	.109	2.3	2.7	3.2	5.0	6.4	6.7	114	120	106
1/2		•				30W	.219	.109	2.6	3.0	3.6	5.5	7.1	7.5	114	120	108
		•				35W	.234	.125	3.0	3.5	4.2	6.4	8.2	8.7	114	120	108
		•				40W	.250	.125	3.4	4.0	4.8	7.4	9.4	10.0	114	120	108
		•				45W	.250	.141	3.8	4.5	5.4	8.3	10.6	11.2	114	120	110
		•				50W	.266	.156	4.3	5.0	6.0	9.2	11.8	12.5	114	120	112

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

N Performance Data: Narrow angle spray

Body Inlet Conn. (in.)	Quick FullJet Tip type				Capacity Size	Orifice Dia. Nom. (in.)	Flow Rate Capacity (gallons per minute)										Spray Angle (°)			
	QGA-15	QGA-30	QLGA-15	QLGA-30			10 psi	15 psi	20 psi	40 psi	80 psi	100 psi	150 psi	200 psi	300 psi	10 psi	15 psi	40 psi	100 psi	
1/8, 1/4, 3/8, 1/2	•				1507	.063	.35	.43	.49	.70	.99	1.1	1.4	1.6	1.9	13	14	15	15	
	•				1514	.094	.70	.86	.99	1.4	2.0	2.2	2.7	3.1	3.8	13	14	15	15	
1/4, 3/8, 1/2	•				1530	.125	1.5	1.8	2.1	3.0	4.2	4.7	5.8	6.7	8.2	13	14	15	15	
3/8, 1/2	•				1550	.172	2.5	3.1	3.5	5.0	7.1	7.9	9.7	11.2	13.7	13	14	15	15	
1/2			•		1590	.219	4.5	5.5	6.4	9.0	12.7	14.2	17.4	20	25	13	14	15	15	
1/8, 1/4, 3/8, 1/2		•			3001.4	.031	.070	.086	.099	.14	.20	.22	.27	.31	.38	11	17	30	31	
		•			3002.5	.031	.13	.15	.18	.25	.35	.40	.48	.56	.68	12	17	30	32	
		•			3004	.047	.20	.24	.28	.40	.57	.63	.77	.89	1.1	20	26	30	32	
		•			3007	.063	.35	.43	.49	.70	.99	1.1	1.4	1.6	19	20	23	30	30	
1/4, 3/8, 1/2		•			3009	.078	.45	.55	.64	.90	1.3	1.4	1.7	2.0	2.5	20	23	30	30	
3/8, 1/2				•	3014	.094	.70	.86	.99	1.4	2.0	2.2	2.7	3.1	3.8	20	25	30	30	

Highlighted column shows the rated pressure.

A-range quick fulljet nozzles

S Standard angle spray **W** Wide angle spray **N** Narrow angle spray

// Dimensions And Weights

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	QJA (F) + QGA	1/8, 1/4 3/8, 1/2	2.352	1	-	4.2
	QJA (F) + QGA-W	1/8, 1/4 3/8, 1/2	2.662	1	-	4.3
	QJLA (F) + QLGA	3/8, 1/2	3.078	1-1/8	-	8.7
	QJLA (F) + QLGA-W	3/8, 1/2	3.265	1-1/8	-	9.3
	QJJA (M) + QGA	1/8, 1/4 3/8, 1/2	2.250	7/8	-	3.8
	QJJA (M) + QGA-W	1/8, 1/4 3/8, 1/2	2.565	7/8	-	4.2
	QJLLA (M) + QLGA	3/8, 1/2	3.115	1-1/8	-	8.2
	QJLLA (M) + QLGA-W	3/8, 1/2	3.290	1-1/8	-	8.9
	QJA (F) + QHA	1/8, 1/4 3/8, 1/2	1.980	1	-	3.8
	QJA (F) + QHA-W	1/8, 1/4 3/8, 1/2	1.895	1	-	3.5
	QJLA (F) + QLHA	3/8, 1/2	2.368	1-1/8	-	5.9
	QJLA (F) + QLHA-W	3/8, 1/2	2.140	1-1/8	-	5
	QJJA (M) + QHA	1/8, 1/4 3/8, 1/2	1.773	7/8	-	3.2
	QJJA (M) + QHA-W	1/8, 1/4 3/8, 1/2	1.802	7/8	-	3.5
	QJLLA (M) + QLHA	3/8, 1/2	2.375	1-1/8	-	5.4
	QJLLA (M) + QLHA-W	3/8, 1/2	2.171	1-1/8	-	5

Based on the largest/heaviest version of each type.

Nozzle	Nozzle Type	Inlet Conn. (in.)	L (in.)	Hex. (in.)	W (Width) (in.)	Net Weight (oz.)
	QPPA (M) + QPHA or QPHA-W	1/8, 1/4 3/8, 1/2	1.899	7/8	1.250	0.5
	QJA (F) + QGA-15 or QGA-30	1/8, 1/4 3/8, 1/2	2.736	1	-	5.5
	QJLA (F) + QLGA-15 or QLGA-30	3/8, 1/2	3.425	1-1/8	-	9.7
	QJJA (M) + QGA-15 or QGA-30	1/8, 1/4 3/8, 1/2	2.635	7/8	-	4.6
	QJLLA (M) + QLGA-15 or QLGA-30	3/8, 1/2	3.465	1-1/8	-	9.2

Based on the largest/heaviest version of each type.

Body Types

Inlet Conn. (in.)	Quickjet and ProMax Quickjet Bodies				
	Conn. F		Conn. M		
	QJA	QJLA	QJJA	QJLLA	QPPA
1/8	•		•		•
1/4	•		•		•
3/8	•	•	•	•	•
1/2	•	•	•	•	•