New

ProMax® QuickJet® Spray Nozzles

for trouble-free performance and fast maintenance

Spraying Systems Co.®

Improved quick-change spray technology ensures trouble-free performance and fast maintenance

Spraying Systems Co.'s new ProMax® QuickJet® spray nozzle incorporates several new design features that help ensure trouble-free performance and fast maintenance. Among the nozzle's new features are easy-grip spray tips, a unique locking design that assures correct placement of the spray tip, and a standard seal that remains attached to the spray tip to prevent accidental loss or misplacement.

ProMax material resists chemical attack

The nozzle and tip are constructed of ProMax material, a chemically coupled, glass-reinforced engineering grade of polypropylene that combines strength and durability with chemical resistance. This material allows the nozzle to be used in many applications where other nozzle materials fail. In particular, the nozzle is ideal for many washing, rinsing, and cleaning applications where phosphates, acids, solvents and other caustic solutions are used. In addition, since the ProMax QuickJet nozzles resist caking and build-up, nozzle plugging is minimized.

No tools are required for tip installation and removal

The ProMax QuickJet nozzle has a simple, two-part assembly with a unique patented design that makes tip changing quick and effortless. Because of the easy-grip spray tips, tip installation and removal of the nozzle can be done by hand, in seconds and without tools. Removal of the tip allows inspection of the orifice condition and the tip seal. Replacing the spray tip is even easier due to a detent flexing member that's located on the spray tip. It provides a renewed "snap-in" feel whenever the tip is replaced. Plus, the spray tip always locks into the correct position due to a built-in internal stop. Spray tips are automatically aligned with a 10º offset to provide proper coverage. A standard TEFLON®-coated VITON® tip seal provides a positive seal between the body and the tip. And because this seal remains attached to the tip, accidental loss or misplacement is prevented.

VITON is a registered trademark of DuPont Dow Elastomers.
TEFLON is a registered trademark of E.I. DuPont de Nemours and Company.

A variety of spray tip choices, inlet connection sizes, and options

The ProMax® QuickJet® nozzle consists of a spray tip and a nozzle body. Quick VeeJet® flat spray tips, Quick FullJet® full cone spray tips (standard and wide angle), and Quick WhirlJet® hollow cone spray tips (standard and wide angle) are offered. Both the Quick VeeJet spray tips and Quick FullJet spray tips are color-coded by capacity. Nozzle bodies for the Quick VeeJet spray tip, Quick FullJet spray tip, and Quick WhirlJet spray tip are available with 1/4" and 3/8" NPT or BSPT (M) inlet connections. An optional external VITON O-ring is available to effectively seal out dirt and other contaminants that might make tip changeout difficult.

Type QPPA nozzle body

Optional external
VITON O-ring
(CP7717-2/17-VI)

ProMax
Quick VeeJet
spray tip

ProMax
Quick FullJet
spray tip

ProMax
Quick WhirlJet
spray tip

Choose from a wide range of capacities and spray angles

The standard ProMax Quick VeeJet flat spray tip has eight different capacities ranging from 1.0 to 7.0 gpm at 40 psi (4.6 to 32.0 l/min at 4 bar). Each capacity is available in six spray angles ranging from 25° to 95°. This gives you a selection of 48 different spray tip configurations. Maximum pressure is 200 psi (14 bar).

The ProMax Quick FullJet full cone spray tip is available with standard spray angles of 58° to 85° at 20 psi (1.5 bar) and nine capacities ranging from .19 to 2.9 gpm at 40 psi (.85 to 12.7 l/min at 4 bar). Maximum pressure is 150 psi (10 bar). Plus, the Quick FullJet full cone spray tip also has wide spray angles of 120° at 10 psi (0.7 bar) and seven capacities ranging from .51 to 2.6 gpm at 40 psi (2.3 to 11.5 l/min at 4 bar). Maximum pressure is 80 psi (6 bar).

The standard Quick WhirlJet hollow cone spray tip features spray angles of 58° to 72° at 20 psi (1.5 bar) and eight different spray capacities ranging from .10 to 3.0 gpm at 40 psi (.46 to 13.7 l/min at 4 bar). Maximum pressure is 60 psi (7 bar). The wide angle Quick WhirlJet hollow cone spray tip also has spray angles of 98° to 112° at 20 psi (1.5 bar) and four different capacities ranging from 1.0 to 3.0 gpm at 40 psi (4.6 to 13.7 l/min at 4 bar). Maximum pressure is 60 psi (7 bar).

Our miniature version is ideal for applications where space is limited

The Miniature ProMax® Quick VeeJet® spray nozzle measures slightly over 1" (2.54 cm) when mounted in a standard header. This makes the nozzle an excellent choice for applications where space is limited. It also features the same two-part assembly as the larger ProMax nozzle, which makes spray tip changing quick and effortless.

In addition to the ProMax version of the nozzle, a new KYNAR® (PVDF) version is also offered. Constructed of chemical- and corrosion-resistant KYNAR (PVDF) thermoplastic with no colorants or fillings to leach into the spray, this Miniature Quick VeeJet spray nozzle helps keep ultra-pure processing environments intact. The Miniature Quick VeeJet nozzle in KYNAR (PVDF) is offered in all the same capacities and spray angles as the Miniature ProMax nozzle series.

The Miniature Quick VeeJet nozzle is available with 1/8" or 1/4" NPT (M) or BSPT (M) inlet connections. The Miniature ProMax Quick VeeJet spray tips are color-coded by capacity and offer seven different capacity sizes ranging from .15 to .8 gpm at 40 psi (.59 to 3.2 l/min at 3 bar). The ProMax nozzle operates at a maximum pressure of 175 psi at 40°F (12 bar at 4°C) and a maximum temperature of 200°F at 50 psi (93° C at 3.5 bar), while the KYNAR (PVDF) version operates at a maximum pressure of 225 psi at 40°F (15.5 bar at 4°C).

The nozzle is available in seven spray angles from 25° to 110°. An optional body strainer (50 mesh) helps minimize pressure loss and an optional tip strainer (50 mesh) makes removal and cleaning of the spray tip even easier. The optional external VITON O-ring seals the body and spray tip from dirt and other contaminants.

Find out how you can reduce your spray nozzle maintenance time with the ProMax QuickJet nozzle

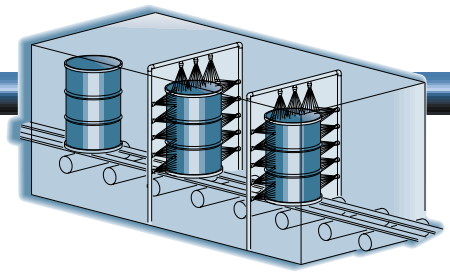
Many QuickJet nozzle users have already found that their nozzle maintenance time can be cut in half. Some have experienced even greater reductions. One customer reports that it is possible to replace twelve QuickJet nozzles in the time it previously took to replace one conventional threaded nozzle.

To learn more about the ProMax QuickJet spray nozzle, contact your local Spraying Systems Co. sales engineer or visit our Web site at www.spray.com.

Common Application Problems and Possible ProMax® Nozzle Solutions

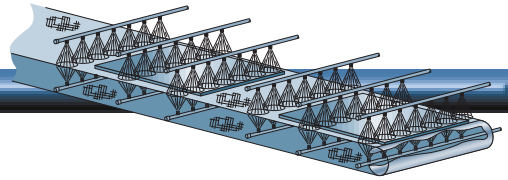
ProMax Quick VeeJet® nozzle

ProMax Quick VeeJet nozzles are used for cleaning drum exteriors prior to painting.



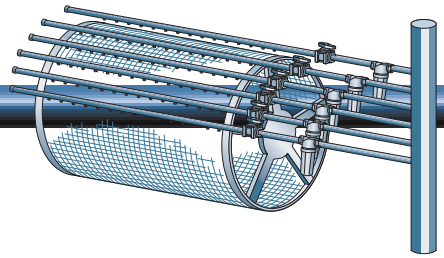
ProMax Quick FullJet® nozzle

ProMax Quick FullJet nozzles are used for degreasing television screen back covers.



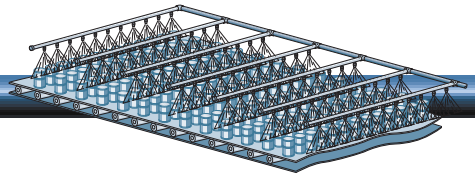
ProMax Quick WhirlJet® nozzle

ProMax Quick WhirlJet nozzles are used in the mining industry for washing rotary drum vacuum filter cake to leach out gold contents.



Miniature ProMax Quick VeeJet nozzle

Miniature ProMax Quick VeeJet nozzles are used for pretreating cans on a conveyor line during can manufacturing.



ProMax® Quick VeeJet® Spray Nozzles
Standard Angle Flat Spray Specifications

QPTA--10
1.0 gpm
(3.9 l/min)

QPTA--15
1.5 gpm
(5.9 l/min)

QPTA--20
2.0 gpm
(7.9 l/min)

QPTA--30
3.0 gpm
(11.8 l/min)

QPTA--40
4.0 gpm
(15.8 l/min)

QPTA--50
5.0 gpm
(19.7 l/min)

QPTA--60
6.0 gpm
(24 l/min)

QPTA--70
7.0 gpm
(28 l/min)

Type QPPA nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional external VITON O-ring (CP7717-2/17-VI)

ProMax Quick VeeJet spray tips with TEFLON-coated VITON tip seal

Capacities at 40 psi (3 bar).

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Angle at 40 psi						Capacity Size	Spray Tip Color	Capacity (gallons per minute)								
	25°	40°	50°	65°	80°	95°			5 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	200 psi
1/4, 3/8	•*	•	•	•	•	•	10	White	.35	.50	.71	.86	1.0	1.2	1.4	1.6	2.2
	•*	•	•	•	•	•	15	Gray	.53	.75	1.1	1.3	1.5	1.8	2.1	2.4	3.4
	•*	•	•	•	•	•	20	Black	.71	1.0	1.4	1.7	2.0	2.5	2.8	3.2	4.5
	•	•	•	•	•	•	30	Orange	1.1	1.5	2.1	2.6	3.0	3.7	4.2	4.7	6.7
	•	•	•	•	•	•	40	Green	1.4	2.0	2.8	3.5	4.0	4.9	5.7	6.3	8.9
	•	•	•	•	•	•	50	Yellow	1.8	2.5	3.5	4.3	5.0	6.1	7.1	7.9	11.2
	•	•	•	•	•	•	60	Blue	2.1	3.0	4.2	5.2	6.0	7.3	8.5	9.5	13.4
	•	•	•	•	•	•	70	Red	2.5	3.5	4.9	6.1	7.0	8.6	9.9	11.1	15.7

*Not recommended below 7 psi.

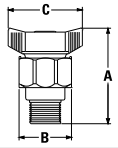
Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Angle at 3 bar						Capacity Size	Spray Tip Color	Capacity (liters per minute)								
	25°	40°	50°	65°	80°	95°			0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	14 bar
1/4, 3/8	●*	●	●	●	●	●	10	White	1.2	2.3	3.2	3.9	4.6	5.1	5.6	6.0	8.5
	●*	●	●	●	●	●	15	Gray	1.9	3.4	4.8	5.9	6.8	7.6	8.4	9.0	12.8
	●*	●	●	●	●	●	20	Black	2.5	4.6	6.5	7.9	9.1	10.2	11.2	12.1	17.1
	●	●	●	●	●	●	30	Orange	3.7	6.8	9.7	11.8	13.7	15.3	16.7	18.1	26
	●	●	●	●	●	●	40	Green	5.0	9.1	12.9	15.8	18.2	20	22	24	34
	●	●	●	●	●	●	50	Yellow	6.2	11.4	16.1	19.7	23	25	28	30	43
	●	●	●	●	●	●	60	Blue	7.5	13.7	19.3	24	27	31	33	36	51
	●	●	●	●	●	●	70	Red	8.7	16.0	23	28	32	36	39	42	60

*Not recommended below 0.5 bar.

For smaller capacity sizes, see Miniature ProMax® Quick VeeJet® nozzles on page 16.

Dimensions & Weights



Nozzle Type (Conn.)	Nozzle Inlet Conn. NPT or BSPT (M)	A	B Hex.	C	Net Weight
QPPA + QPTA	1/4, 3/8	1-3/4" (44.5 mm)	7/8" (22.2 mm)	1-1/4" (32 mm)	.37 oz. (.01 kg)

Ordering Info

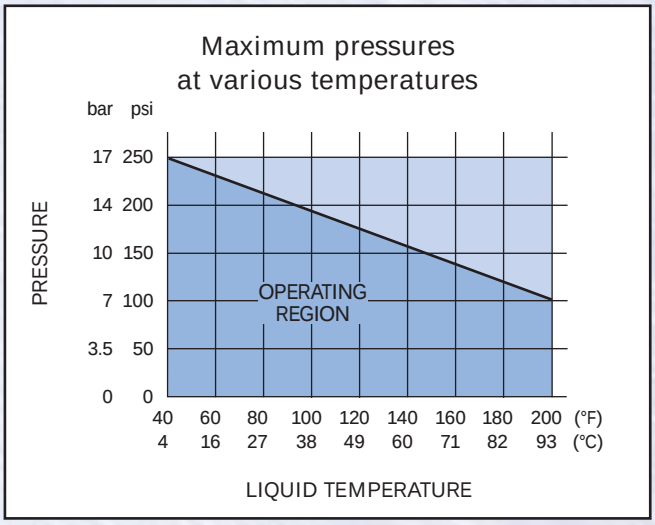
PROMAX QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP		
1/4	QPPA	+	QPTA	25	04
Inlet Conn.	Body Type		Tip Type	Spray Angle	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP		
3/8	QPPA	+	QPTA	65	10A
Inlet Conn.	Body Type		Tip Type	Spray Angle	Capacity Size

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



ProMax® Quick FullJet® Spray Nozzles
Standard Angle Full Cone Spray Specifications

QPHA1
.19 gpm
(.74 l/min)

QPHA1.5
.29 gpm
(1.1 l/min)

QPHA2
.38 gpm
(1.5 l/min)

QPHA3
.57 gpm
(2.2 l/min)

QPHA3.5
.67 gpm
(2.6 l/min)

QPHA5
.95 gpm
(3.7 l/min)

QPHA6.5
1.3 gpm
(4.8 l/min)

QPHA10
1.9 gpm
(7.4 l/min)

QPHA15
2.9 gpm
(11.2 l/min)

Capacities at 40 psi (3 bar).

Type QPPA nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional external VITON O-ring (CP7717-2/17-VI)

ProMax Quick FullJet spray tips with TEFLON-coated VITON tip seal

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Spray Tip Color	Orifice Dia. Nom.	Max. Free Passage Dia.*	Capacity (gallons per minute)										Spray Angle		
					5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	150 psi	7 psi	20 psi	80 psi
1/4, 3/8	QPHA1	Brown	.035"	.025"	—	—	.10	.14	.17	.19	.23	.26	.30	.36	—	58°	53°
	QPHA1.5	White	.045"	.025"	—	.13	.15	.21	.25	.29	.35	.40	.44	.53	52°	65°	59°
	QPHA2	Gray	.047"	.040"	.14	.17	.20	.28	.34	.38	.46	.53	.59	.70	43°	50°	46°
	QPHA3	Black	.061"	.040"	.22	.26	.30	.42	.50	.57	.69	.79	.88	1.1	52°	65°	59°
	QPHA3.5	Orange	.063"	.050"	.25	.30	.35	.48	.58	.67	.81	.92	1.0	1.3	43°	50°	46°
	QPHA5	Green	.077"	.050"	.36	.42	.50	.69	.82	.95	1.2	1.3	1.5	1.8	52°	65°	59°
	QPHA6.5	Yellow	.089"	.063"	.47	.55	.65	.89	1.1	1.3	1.5	1.7	1.9	2.3	45°	50°	46°
	QPHA10	Blue	.113"	.063"	.73	.85	1.0	1.4	1.7	1.9	2.4	2.7	3.0	3.6	58°	67°	61°
	QPHA15	Red	.141"	.063"	1.1	1.3	1.5	2.1	2.5	2.9	3.5	4.0	4.4	5.3	80°	85°	80°

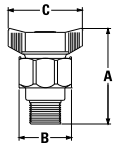
*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Spray Tip Color	Orifice Dia. Nom. mm	Max. Free Passage Dia.* mm	Capacity (liters per minute)										Spray Angle		
					0.5 bar	0.7 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	10 bar	0.5 bar	0.7 bar	6 bar
1/4, 3/8	QPHA1	Brown	.89	.64	—	.38	.54	.62	.74	.85	.94	1.0	1.1	1.3	—	58°	53°
	QPHA1.5	White	1.1	.64	.49	.57	.81	.93	1.1	1.3	1.4	1.5	1.7	1.9	52°	65°	59°
	QPHA2	Gray	1.2	1.0	.65	.76	1.1	1.2	1.5	1.7	1.9	2.0	2.2	2.6	43°	50°	46°
	QPHA3	Black	1.5	1.0	.98	1.1	1.6	1.9	2.2	2.5	2.8	3.1	3.3	3.9	52°	65°	59°
	QPHA3.5	Orange	1.6	1.3	1.1	1.3	1.9	2.2	2.6	3.0	3.3	3.6	3.9	4.5	43°	50°	46°
	QPHA5	Green	2.0	1.3	1.6	1.9	2.7	3.1	3.7	4.2	4.7	5.1	5.5	6.5	52°	65°	59°
	QPHA6.5	Yellow	2.3	1.6	2.1	2.5	3.5	4.0	4.8	5.5	6.1	6.7	7.1	8.4	45°	50°	46°
	QPHA10	Blue	2.9	1.6	3.3	3.8	5.4	6.2	7.4	8.5	9.4	10.2	11.0	13.0	58°	67°	61°
	QPHA15	Red	3.6	1.6	4.9	5.7	8.1	9.3	11.2	12.7	14.1	15.4	16.5	19.4	80°	85°	80°

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.

Dimensions & Weights



Nozzle Type (Conn.)	Nozzle Inlet Conn. NPT or BSPT (M)	A	B Hex.	C	Net Weight
QPPA + QPHA	1/4, 3/8	1-3/4" (44.5 mm)	7/8" (22.2 mm)	1-1/4" (32 mm)	.4 oz. (.01 kg)

Ordering Info

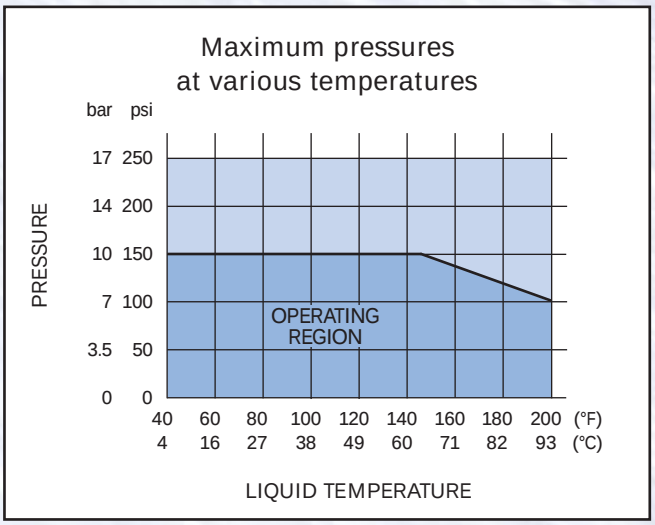
PROMAX® QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPHA	3
Inlet Conn.	Body Type		Tip Type	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
3/8	QPPA	+	QPHA	10A
Inlet Conn.	Body Type		Tip Type	Capacity Size

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



ProMax® Quick FullJet® Spray Nozzles
Wide Angle Full Cone Spray Specifications

QPHA2.8W
.51 gpm
(2.0 l/min)

QPHA4.3W
.79 gpm
(3.1 l/min)

QPHA5.6W
1.0 gpm
(4.0 l/min)

QPHA8W
1.5 gpm
(5.8 l/min)

QPHA10W
1.8 gpm
(7.2 l/min)

QPHA12W
2.2 gpm
(8.7 l/min)

QPHA14W
2.6 gpm
(10.1 l/min)

Capacities at 40 psi (3 bar).

Type QPPA nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional external VITON O-ring (CP7717-2/17-VI)

ProMax Quick FullJet spray tips with TEFLON-coated VITON tip seal

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Spray Tip Color	Orifice Dia. Nom.	Max. Free Passage Dia.*	Capacity (gallons per minute)									Spray Angle		
					5 psi	7 psi	10 psi	15 psi	20 psi	30 psi	40 psi	60 psi	80 psi	5 psi	10 psi	80 psi
1/4, 3/8	QPHA2.8W	White	.057"	.040"	—	—	.28	.33	.38	.45	.51	.61	.70	—	120°	102°
	QPHA4.3W	Black	.073"	.040"	—	—	.43	.51	.58	.70	.79	.95	1.1	—	120°	102°
	QPHA5.6W	Orange	.086"	.040"	—	.48	.56	.67	.76	.91	1.0	1.2	1.4	—	120°	102°
	QPHA8W	Green	.098"	.050"	—	.68	.80	.96	1.1	1.3	1.5	1.8	2.0	—	120°	103°
	QPHA10W	Yellow	.109"	.050"	.74	.86	1.0	1.2	1.4	1.6	1.8	2.2	2.5	112°	120°	103°
	QPHA12W	Blue	.129"	.050"	.89	1.0	1.2	1.4	1.6	1.9	2.2	2.6	3.0	114°	120°	103°
	QPHA14W	Red	.141"	.063"	1.0	1.2	1.4	1.7	1.9	2.3	2.6	3.1	3.5	114°	120°	103°

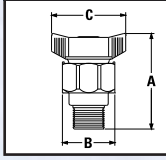
*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Spray Tip Color	Orifice Dia. Nom. mm	Max. Free Passage Dia.* mm	Capacity (liters per minute)									Spray Angle		
					0.3 bar	0.5 bar	0.7 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	0.3 bar	0.7 bar	6 bar
1/4, 3/8	QPHA2.8W	White	1.4	1.0	—	—	1.1	1.2	1.7	2.0	2.3	2.5	2.7	—	120°	102°
	QPHA4.3W	Black	1.9	1.0	—	—	1.6	1.9	2.6	3.1	3.5	3.9	4.2	—	120°	102°
	QPHA5.6W	Orange	2.2	1.0	—	1.8	2.1	2.5	3.4	4.0	4.6	5.1	5.5	—	120°	102°
	QPHA8W	Green	2.5	1.3	—	2.6	3.0	3.6	4.8	5.8	6.6	7.2	7.8	—	120°	103°
	QPHA10W	Yellow	2.8	1.3	2.6	3.3	3.8	4.5	6.0	7.2	8.2	9.1	9.8	112°	120°	103°
	QPHA12W	Blue	3.3	1.3	3.1	3.9	4.6	5.3	7.3	8.7	9.8	10.9	11.8	114°	120°	103°
	QPHA14W	Red	3.6	1.6	3.7	4.6	5.3	6.2	8.5	10.1	11.5	12.7	13.7	114°	120°	103°

*Foreign matter with maximum diameter as listed can pass through nozzle without clogging.

Dimensions & Weights



Nozzle Type (Conn.)	Nozzle Inlet Conn. NPT or BSPT (M)	A	B Hex.	C	Net Weight
QPPA + QPHAW	1/4, 3/8	1-3/4" (44.5 mm)	7/8" (22.2 mm)	1-1/4" (32 mm)	.4 oz. (.01 kg)

Ordering Info

PROMAX® QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPHA	2.8W
Inlet Conn.	Body Type		Tip Type	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
3/8	QPPA	+	QPHA	14WA
Inlet Conn.	Body Type		Tip Type	Capacity Size

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

ProMax® Quick WhirlJet® Spray Nozzles
Standard Angle Hollow Cone Spray Specifications

QPAA_

Type QPPA nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional external VITON O-ring (CP7717-2/17-VI)

ProMax Quick WhirlJet spray tips with TEFLON-coated VITON tip seal

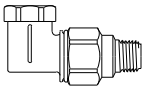
Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Inlet Dia. Nom.	Orifice Dia. Nom.	Capacity (gallons per minute)										Spray Angle		
				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
1/4, 3/8	QPAA0.5	.031"	.047"	—	—	—	.05	.07	.09	.10	.12	.14	.16	—	58°	69°
	QPAA1	.063"	.063"	—	—	—	.10	.14	.17	.20	.24	.28	.31	—	64°	76°
	QPAA2	.078"	.078"	—	.14	.17	.20	.28	.35	.40	.49	.57	.63	53°	70°	80°
	QPAA3	.094"	.094"	—	.21	.23	.30	.43	.52	.60	.73	.85	.95	55°	79°	80°
	QPAA5	.141"	.109"	—	.35	.42	.50	.70	.86	1.0	1.2	1.4	1.6	70°	75°	79°
	QPAA8	.172"	.141"	.44	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.5	65°	72°	74°
	QPAA10	.188"	.172"	.55	.72	.84	1.0	1.4	1.7	2.0	2.4	2.8	3.1	70°	76°	75°
	QPAA15	.199"	.203"	.82	1.1	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	70°	72°	75°

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Inlet Dia. Nom. mm	Orifice Dia. Nom. mm	Capacity (liters per minute)										Spray Angle		
				0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
1/4, 3/8	QPAA0.5	.79	1.2	—	.16	.23	.28	.32	.39	.46	.51	.56	.60	—	58°	69°
	QPAA1	1.6	1.6	—	.32	.46	.56	.64	.79	.91	1.0	1.1	1.2	—	64°	76°
	QPAA2	2.0	2.0	—	.64	.91	1.1	1.3	1.6	1.8	2.0	2.2	2.4	53°	70°	80°
	QPAA3	2.4	2.4	—	.97	1.4	1.7	1.9	2.4	2.7	3.1	3.3	3.6	55°	79°	80°
	QPAA5	3.6	2.8	—	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	70°	75°	79°
	QPAA8	4.4	3.6	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	65°	72°	74°
	QPAA10	4.8	4.4	2.0	3.2	4.6	5.6	6.4	7.9	9.1	19.2	11.2	12.1	70°	76°	75°
	QPAA15	6.0	5.2	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	70°	72°	75°

Dimensions & Weights



Nozzle Type	Length	Hex.	Net Weight
QPPA + QPAA	2-9/32” (58 mm)	7/8” (22.2 mm)	.45 oz. (.01 kg)

Ordering Info

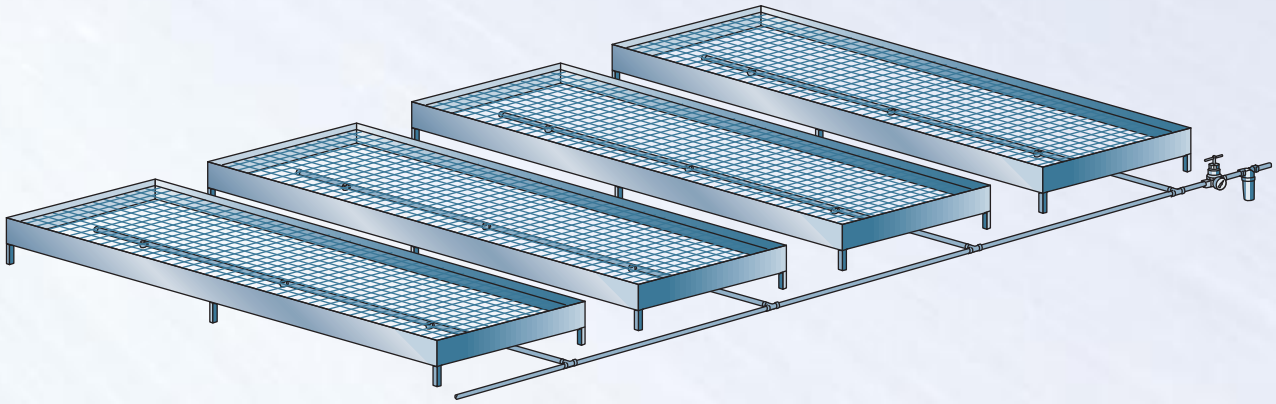
PROMAX® QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPAA	3
Inlet Conn.	Body Type		Tip Type	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPAA	3A
Inlet Conn.	Body Type		Tip Type	Capacity Size

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



ProMax Quick WhirlJet® nozzles are used to cool and humidify germination beds in a malting plant.

ProMax® Quick WhirlJet® Spray Nozzles
Wide Angle Hollow Cone Spray Specifications

QPAA_W

Type QPPA nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional external VITON O-ring (CP7717-2/17-VI)

ProMax Quick WhirlJet spray tips with TEFLON-coated VITON tip seal

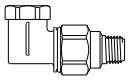
Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Inlet Dia. Nom.	Orifice Dia. Nom.	Capacity (gallons per minute)										Spray Angle		
				3 psi	5 psi	7 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	7 psi	20 psi	80 psi
1/4, 3/8	QPAA5W	.136"	.129"	—	.35	.42	.50	.70	.86	1.0	1.2	1.4	1.6	125°	112°	98°
	QPAA8W	.177"	.156"	.44	.57	.67	.80	1.1	1.4	1.6	2.0	2.3	2.5	112°	100°	87°
	QPAA10W	.196"	.177"	.55	.72	.84	1.0	1.4	1.7	2.0	2.4	2.8	3.1	111°	97°	89°
	QPAA15W	.242"	.213"	.82	1.1	1.3	1.5	2.1	2.6	3.0	3.7	4.2	4.7	110°	98°	90°

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Tip Number	Inlet Dia. Nom. mm	Orifice Dia. Nom. mm	Capacity (liters per minute)										Spray Angle		
				0.2 bar	0.5 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	0.5 bar	1.5 bar	6 bar
1/4, 3/8	QPAA5W	3.5	3.3	—	1.6	2.3	2.8	3.2	3.9	4.6	5.1	5.6	6.0	125°	112°	98°
	QPAA8W	4.5	4.0	1.6	2.6	3.6	4.5	5.2	6.3	7.3	8.2	8.9	9.6	112°	100°	87°
	QPAA10W	5.0	4.5	2.0	3.2	4.6	5.6	6.4	7.9	9.1	10.2	11.2	12.1	111°	97°	89°
	QPAA15W	6.1	5.4	3.1	4.8	6.8	8.4	9.7	11.8	13.7	15.3	16.7	18.1	110°	98°	90°

Dimensions & Weights



Nozzle Type	Length	Hex.	Net Weight
QPPA + QPAAW	2-9/32" (58 mm)	7/8" (22.2 mm)	.45 oz. (.01 kg)

Ordering Info

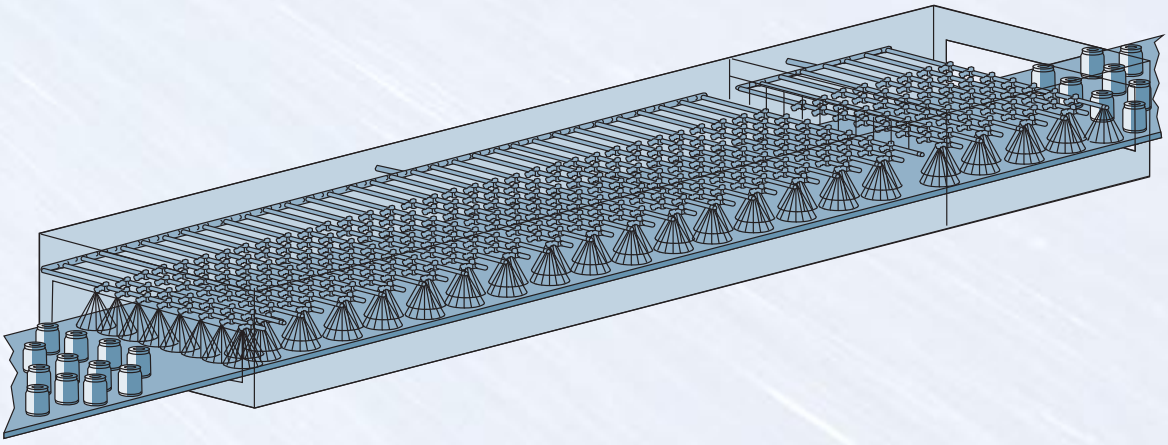
PROMAX® QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPAA	5W
Inlet Conn.	Body Type		Tip Type	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP	
1/4	QPPA	+	QPAA	5WA
Inlet Conn.	Body Type		Tip Type	Capacity Size

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



ProMax Quick WhirlJet® nozzles are used to heat and cool jelly jars during the pasteurization process.

Miniature ProMax® Quick VeeJet® Flat Spray Nozzles Specifications

QMVV--015
.15 gpm
(.59 l/min)

QMVV--01
1.0 gpm
(.39 l/min)

QMVV--02
.20 gpm
(.79 l/min)

QMVV--03
.30 gpm
(1.2 l/min)

QMVV--04
.40 gpm
(1.6 l/min)

QMVV--05
.50 gpm
(2.0 l/min)

QMVV--06
.60 gpm
(2.4 l/min)

QMVV--08
.80 gpm
(3.2 l/min)

Capacities at 40 psi (3 bar).

Optional KYNAR body strainer* (CP39212-1-KY [1/8"] or CP39212-2-KY [1/4"])

Type QPPM nozzle bodies available in 1/4" and 3/8" sizes with NPT or BSPT threads

Optional KYNAR tip strainer* (CP45095-KY)

Optional external VITON O-ring (CP7717-2/13-VI)

ProMax Miniature Quick VeeJet spray tips with TEFLON-coated VITON tip seal

*50 mesh — use of both tip and body strainers is not recommended.

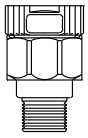
Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Angle at 40 psi							Capacity Size	Spray Tip Color	Capacity (gallons per minute)								
	25°	40°	50°	65°	80°	95°	110°			5 psi	10 psi	20 psi	30 psi	40 psi	60 psi	80 psi	100 psi	175 psi
1/8, 1/4						•	•	015	Red	.05	.07	.11	.13	.15	.18	.21	.24	.31
	•	•	•	•	•	•	•	01	White	.03	.05	.07	.09	.10	.12	.14	.16	.22
	•	•	•	•	•	•	•	02	Gray	.07	.10	.14	.17	.20	.25	.28	.32	.42
	•	•	•	•	•	•	•	03	Black	.11	.15	.21	.26	.30	.37	.42	.47	.63
	•	•	•	•	•	•	•	04	Orange	.14	.20	.28	.35	.40	.49	.57	.63	.84
	•	•	•	•	•	•	•	05	Green	.18	.25	.35	.43	.50	.61	.71	.79	1.0
	•	•	•	•	•	•	•	06	Yellow	.21	.30	.42	.52	.60	.73	.85	.95	1.3
	•	•	•	•	•	•	•	08	Blue	.28	.40	.56	.69	.80	.98	1.1	1.3	1.7

Performance Data

Nozzle Inlet Conn. NPT or BSPT (M)	Spray Angle at 3 bar							Capacity Size	Spray Tip Color	Capacity (liters per minute)								
	25°	40°	50°	65°	80°	95°	110°			0.3 bar	1 bar	2 bar	3 bar	4 bar	5 bar	6 bar	7 bar	12 bar
1/8, 1/4						●	●	015	Red	.19	.34	.48	.59	.68	.76	.84	.90	1.2
	●	●	●	●	●	●	●	01	White	.12	.23	.32	.39	.46	.51	.56	.60	.80
	●	●	●	●	●	●	●	02	Gray	.25	.46	.64	.79	.91	1.0	1.1	1.2	1.6
	●	●	●	●	●	●	●	03	Black	.37	.68	.97	1.2	1.4	1.5	1.7	1.8	2.4
	●	●	●	●	●	●	●	04	Orange	.50	.91	1.3	1.6	1.8	2.0	2.2	2.4	3.2
	●	●	●	●	●	●	●	05	Green	.62	1.1	1.6	2.0	2.3	2.5	2.8	3.0	3.9
	●	●	●	●	●	●	●	06	Yellow	.75	1.4	1.9	2.4	2.7	3.1	3.3	3.6	4.7
	●	●	●	●	●	●	●	08	Blue	1.0	1.8	2.6	3.2	3.6	4.1	4.5	4.8	6.3

Dimensions & Weights



Nozzle Type	Length	Hex.	Net Weight
QPPM + QMVV	1-3/16" (30 mm)	5/8" (15.9 mm)	.13 oz. (3.7 g.)

Ordering Info

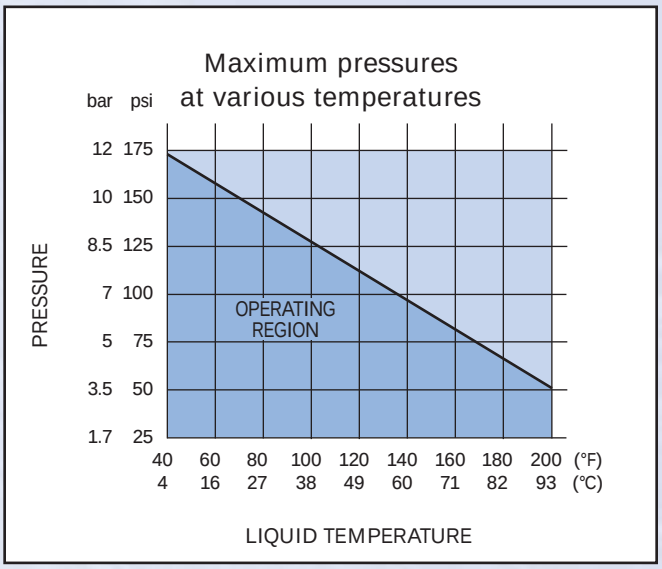
PROMAX® QUICKJET® COMPLETE NOZZLE WITHOUT EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP		
1/4	QPPM	+	QMVV	50	02
Inlet Conn.	Body Type		Tip Type	Spray Angle	Capacity Size

PROMAX QUICKJET COMPLETE NOZZLE WITH EXTERNAL O-RING

NOZZLE BODY			SPRAY TIP		
1/8	QPPM	+	QMVV	25	02A
Inlet Conn.	Body Type		Tip Type	Spray Angle	Capacity Size

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



Other products offered in ProMax® material

ProMax Adjustable Ball-Type Nozzle ensures accurate alignment without overspray

The No. 37235-- ProMax Adjustable Ball-Type nozzle combines a threaded pipe connection with an adjustable, swivel-type ball for added versatility. You can adjust the spray direction quickly and easily, without disturbing the pipe connection. Spray alignment can be finely tuned to minimize overspray or direct sprays to targeted areas.

The nozzle is constructed of a glass-filled polypropylene body and polyphthalamide cap with an EPDM O-ring (VITON optional). Maximum operating pressure is 125 psi (8.6 bar). Inlet connections — 1/4", 3/8", and 1/2" NPT or BSPT (M) are offered.

The ProMax Adjustable Ball-Type nozzle accepts the ProMax ball for use with ProMax FullJet®, VeeJet® and WhirlJet® tips, a threaded ball for spray nozzles with 1/4" and 3/8" NPT or BSPT (M) inlet connections, or a blank tip. It offers adjustability up to 56º.

Ordering Info

ASSEMBLY NO.	PROMAX BALL	SPRAY TIP		
37235-3/8-PP	+CP46679-PP	+QPTA	25	02
Assembly No.	Ball No.	Tip Type	Spray Angle	Capacity Size

ProMax Clip-Eyelet® Nozzle

The No. 46500A-- ProMax Clip-Eyelet nozzle combines a "snap-on" pipe connection with easy-to-install and replace spray tips for added versatility. An adjustable, swivel-type ball makes fast work of changing the direction of the spray without disturbing the pipe connection. Spray alignment can be finely tuned to minimize overspray.

The ProMax Clip-Eyelet nozzle accepts the ProMax ball for use with ProMax FullJet and VeeJet tips. The flat spray VeeJet tips are automatically locked into alignment each and every time.

The nozzle is constructed of ProMax material which makes it well suited for spraying phosphates, acids, solvents, and other caustics. It is ideal for cleaning, rinsing, coating, and wetting applications. It operates at a maximum pressure of 60 psi (4 bar) and at a maximum temperature of 180°F (82°C). Body sizes are available to clamp on 1", 1-1/4", 1-1/2", and 2" pipes.

Ordering Info

ASSEMBLY NO.		SPRAY TIP		
46500A-1-1/4-PP	+	QPTA	25	02
Assembly No.		Tip Type	Spray Angle	Capacity Size

ProMax® HP Eyelet's unique design speeds changeout

The No. 38625-- ProMax HP Eyelet is the first pipe-mounted assembly of its kind that can be easily installed and removed by hand. The assembly's hinged body only requires one screw for hand tightening to the spray header. The screw may be installed from either side of the assembly for easy access. It also remains attached to the assembly when loosened to eliminate the chance of misplacing the screw.

The nozzle is constructed of glass-filled polypropylene body and polyphthalamide cap with EPDM O-Ring (Viton optional). This design also prevents rotation when the retaining cap is removed or tightened. It operates at a maximum pressure of 125 psi (8.6 bar) and a maximum temperature of 180°F (82°C). It accepts the ProMax ball for use with ProMax FullJet®, VeeJet® and WhirlJet® tips, a threaded ball for spray nozzles with 1/4" and 3/8" NPT or BSPT (M) inlet connections, or a blank tip. It also offers adjustability up to 56°. Body sizes are available to clamp on 1-1/4" and 1-1/2" pipes.

Ordering Info

ASSEMBLY NO.	PROMAX BALL	SPRAY TIP		
38625-1-1/4-PP	+CP46679-PP	+QPTA	25	02
Assembly No.	Ball No.	Tip Type	Spray Angle	Capacity Size

Reduce maintenance time with ProMax QuickJet® nozzle adapters

The ProMax QuickJet adapters can convert any nozzle with a standard male connection or UniJet® style tip into a ProMax QuickJet style unit.

Constructed of ProMax material, the QPA adapter fits standard nozzles with 1/8", 1/4" or 3/8" NPT or BSPT (M) inlet connections. The QPAxT adapter accepts all UniJet spray tips, strainers and tip retainers.

Used with the ProMax QuickJet body, the adapter provides all the benefits of quick-change technology. Maintenance downtime is reduced since no tools are required for installation and removal. Plus, the nozzles or spray tips are automatically locked into alignment. As a result, quality control problems due to misaligned nozzles or tips are a thing of the past.

Ordering Info

ADAPTER NO.		
QPA	x	1/8
Adapter No.		Inlet Conn.

Optional accessories are also offered for the ProMax nozzle

Additional accessories are also available from Spraying Systems Co. for the ProMax nozzle. The QPA plug can be used to conveniently shut off individual nozzles. And a threaded ball (CP20582-1/4-PPB and CP20582-3/8-PPB) accepts a variety of conventional spray nozzles. For more information on these products, request a copy of *Industrial Spray Products Catalog 60* from your local Spraying Systems Co. sales engineer.

Other helpful resources and product information for specifying spray nozzles

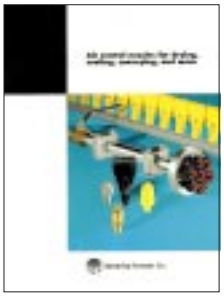
Industrial Spray Products Catalog 60

Our new 484-page catalog features tens of thousands of spray system solutions — including our extensive line of air atomizing nozzles. You'll find design features, performance data, dimensions and weights, and ordering information, all in a readable and easy-to-follow format. *Request Catalog 60.*

Metal Pre-Treatment Bulletin

This 12-page bulletin includes information on spray nozzles for improving finished product quality in the surface treatment process. Included are applications and specifications on many spray nozzles and accessories designed for surface treatment. *Request Bulletin No. 354.*

Air Control Nozzles Bulletin



Information on Spraying Systems Co.'s full line of air blow-off nozzles is contained in this bulletin. Highlighted are performance data, complete air and steam capabilities, materials of construction and more. *Request Bulletin No. 357.*

Quick-Connect Nozzles Bulletin

This newly revised bulletin highlights Spraying Systems Co.'s expanded line of quick-connect nozzles. The time-saving installation and maintenance features of this nozzle including a "snap-on" pipe connection and easy-to-install and replace spray tips, are described in detail. *Request Bulletin No. 513*

Spray Nozzle Maintenance Handbook

This 52-page handbook is packed with tips for keeping your spray system in peak operating condition. Included are sections on common nozzle problems, their causes and detection, application problems, and recommended maintenance procedures. *Request Technical Manual No. 403A.*

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