



**Spraying Systems Co.®**  
Experts in Spray Technology

## QUICK-CONNECT NOZZLE SYSTEMS

IMPROVE SPRAY SYSTEM PERFORMANCE;  
REDUCE INSTALLATION AND  
MAINTENANCE TIME



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## QUICK-CONNECT SPRAY TECHNOLOGY ENSURES TROUBLE-FREE PERFORMANCE

Keep production lines up and running by minimizing maintenance time by using our quick-connect spray nozzles. We offer the industry's broadest product line so you're sure to find a solution to meet your application requirements.

## CHOOSE FROM A WIDE RANGE OF CAPACITIES AND SPRAY ANGLES

- Flat spray, full cone and hollow cone spray patterns
- Color-coding by capacity for easy identification

## MORE BODY STYLES, MORE PIPE SIZES, MORE INLET CONNECTIONS

- ProMax QuickJet Clip-Eyelet nozzle options:
  - Single- and double-clamp versions
  - Sized to fit 1", 1-1/4", 1-1/2" or 2" pipe
  - Accepts QuickJet ProMax ball bodies and ProMax spray tips
- Clip-Eyelet nozzle options:
  - Single- and double-clamp versions
  - Sized to fit 1", 1-1/4", 1-1/2" or 2" pipe
  - Accepts Clip-Eyelet ball-type spray tips
- HP-Eyelet nozzle options:
  - Clamp on 1-1/4" or 1-1/2" pipe
  - Accepts ProMax ball bodies and ProMax spray tips; Clip-Eyelet ball-type spray tips or threaded ball and conventional threaded nozzles



INTERCHANGEABLE NOZZLE BODIES AND SPRAY TIPS

<p><b>Step 1: Choose body style.</b></p>			
	Double Clamp 150 psi (10 bar)	Single Clamp 60 psi (4 bar)	Hinged Clamp 125 psi (8.6 bar)
<p><b>Step 2: Choose spray tip style.</b> (See chart below for additional information.)</p> <p><b>Mix and match – bodies and tips are interchangeable.</b></p>			
	ProMax® QuickJet® Ball Body PLUS ProMax QuickJet Tip	Clip-Eyelet® Ball-Type Tip	Threaded Ball PLUS Threaded Nozzle

Double and single clamps are 303 stainless steel. Hinged clamp, threaded ball and tip retainers are polypropylene.

QUICK-CONNECT SPRAY TIP COMPARISON CHART

	ProMax Ball Body and ProMax QuickJet Tips	Clip-Eyelet Ball-Type Tips	Threaded Ball and Threaded Nozzles
No tools required for installation	✓	✓	✓
Automatic spray pattern alignment	✓		
Chemically-resistant material	✓	✓	✓
Color-coded by capacity	✓	✓	
<b>Performance Summary</b>			
Flat spray tips	14 capacities .20 to 7.0 gpm @ 40 psi (.79 to 28.0 l/min @ 3.0 bar) Spray angles – 25° to 110°	8 capacities 1.0 to 10.0 gpm @ 40 psi (3.9 to 39.0 l/min @ 3.0 bar) Spray angles – 15° to 80°	See our Industrial Spray Products Catalog for hundreds of threaded nozzle options in a wide range of capacities, spray angles and materials.
Full cone spray tips	17 capacities .19 to 2.9 gpm @ 40 psi (.74 to 11.2 l/min @ 3.0 bar) Spray angles – 58° to 120°	–	
Hollow cone spray tips	12 capacities .10 to 3.0 gpm @ 40 psi (.39 to 11.8 l/min @ 3.0 bar) Spray angles – 58° to 112°	4 capacities 4.5 to 9.9 gpm @ 40 psi (17.6 to 39.2 l/min @ 3.0 bar) Spray angles – 38° to 76°	
Flooding spray tips	–	6 capacities 1.0 to 8.0 gpm @ 40 psi (3.9 to 32.0 l/min @ 3.0 bar) Spray angles – 115° to 150°	

**46500A PROMAX CLIP-EYELET NOZZLE ASSEMBLY**

- Snap-on pipe connection with ProMax QuickJet ball body and spray tips
- Swivel body with 56° adjustability for quick and accurate adjustment of spray direction without disturbing pipe connection



Clip-Eyelet assemblies with ProMax QuickJet ball bodies and spray tips

- Single- and double-clamp versions
- Use with 1", 1-1/4", 1-1/2" or 2" pipe
- Inlet sizes for 9/16" (14.5 mm) or 21/32" (17 mm) dia. drill holes; retrofit seals are available for 27/32" (21 mm) dia. drill holes
- PTFE-coated Viton® tip seal provides positive seal between ball and tip; seal remains attached to tip to prevent loss
- Chemical-resistant ProMax material withstands caking, clogging and build-up
- Optional threaded ball for use with conventional nozzles
- Ideal for spraying phosphates, acids, solvents and other caustics

See pages 7 to 10 for performance data.

**SPECIFICATIONS**

Body Assemblies	Double-Clamp Body	Single-Clamp Body	Threaded Ball for Standard Nozzles	Cap Seal	Tip Seal	Retrofit Seal	Blank Tip
To fit 9/16" (14.5 mm) or 21/32" (17 mm) dia. drilled inlet openings	For pressures to 150 psi (10.3 bar)	For pressures to 60 psi (4 bar)	For nozzles with 1/4" male connection CP20582-1/4-PPB (NPT) CPB20582-1/4-PPB (BSPT)	CP7717-2/ 121-EPR	Provides additional seal between tip and body CP7717-2/ 17-VI, Viton	For headers with 27/32" (21 mm) dia. holes CP20580-BU SEAL, BUNA-N CP20580-VI SEAL, Viton	QPA PLUG
			For nozzles with 3/8" male connection CP20582-3/8-PPB (NPT) CPB20582-3/8-PPB (BSPT)	CP7717-2/ 121-VI, Viton			

**DIMENSIONS & WEIGHTS**

46500A	ProMax Clip-Eyelet Assembly No.	Color-Coded Body	Color-Coded Cap	To Clamp On	Dimensions			Net Weight
					A	B	C	
	46500A__-1-PP	Medium Gray	Light Gray	1" pipe	1-3/4" (44 mm)	3-1/2" (89 mm)	1-7/8" (48 mm)	2.7 oz. (.08 kg)
	46500A__-1-1/4-PP	Medium Gray	Light Gray	1-1/4" pipe	1-7/8" (48 mm)	3-11/16" (94 mm)	1-7/8" (48 mm)	2.7 oz. (.08 kg)
	46500A__-1-1/2-PPB	Black	Light Gray	1-1/2" pipe	2" (51 mm)	3-13/16" (97 mm)	1-7/8" (48 mm)	3.2 oz. (.09 kg)
	46500A__-2-PPB	Black	Light Gray	2" pipe	2-3/8" (60 mm)	4-1/16" (103 mm)	1-15/16" (49 mm)	3.2 oz. (.09 kg)

Based on largest/heaviest version of each type.

**ORDERING INFORMATION**

**PROMAX QUICKJET CLIP-EYELET NOZZLE ASSEMBLY AND SPRAY TIP**

ASSEMBLY					SPRAY TIP			Example
Nozzle Type	Clamp Design*	Inlet Dia.**	Pipe Size	Material Code	Tip Type	Spray Angle	Capacity Size	
								<b>46500A</b> <b>D</b> <b>L</b> - <b>1</b> - <b>PP</b> + <b>OPTA</b> <b>40</b>

\*Clamp Design — (no designation) indicates Single Clamp; **D** indicates Double Clamp \*\*Inlet Dia. — (no designation) indicates 9/16" (14.5 mm) dia.; **L** indicates 21/32" (17 mm) dia.

**20570 CLIP-EYELET NOZZLE ASSEMBLY**

- Snap-on pipe connection with Clip-Eyelet ball-type spray tips
- Ball-type tips allow quick and accurate adjustment of spray direction without disturbing pipe connection
- Use with 1", 1-1/4", 1-1/2" or 2" pipe
- Inlet sizes for 9/16" (14.5 mm) or 21/32" (17 mm) dia. drill holes; retrofit seals are available for 27/32" (21 mm) dia. drill holes
- Chemical- and corrosion-resistant material withstands high temperatures
- Spring-grade stainless steel single- and double-clamp versions

- Optional threaded ball for use with conventional nozzles
- Optional blank spray tip to stop the liquid flow
- Ideal for cleaning, coating and rinsing



Clip-Eyelet assemblies with Clip-Eyelet ball-type spray tips

See pages 11 to 12 for performance data.

**SPECIFICATIONS**

Body Assemblies	Double-Clamp Body	Single-Clamp Body	Threaded Ball for Standard Nozzles	Cap Seal	Retrofit Seal	Blank Tip
To fit 9/16" (14.5 mm) or 21/32" (17 mm) dia. drilled inlet openings	For pressures to 150 psi (10.3 bar)	For pressures to 60 psi (4 bar)	For nozzles with 1/4" male connection CP20582-1/4-PPB (NPT) CPB20582-1/4-PPB (BSPT)	CP7717-2/ 121-EPR	For headers with 27/32" (21 mm) dia. holes CP20580-BU SEAL, BUNA-N CP20580-VI SEAL, Viton	CT PLUG – PP
			For nozzles with 3/8" male connection CP20582-3/8-PPB (NPT) CPB20582-3/8-PPB (BSPT)	CP7717-2/ 121-VI, Viton®		

**DIMENSIONS & WEIGHTS**

20570 	Clip-Eyelet Assembly No.	Color-Coded Body	Color-Coded Cap	To Clamp On	Dimensions			Net Weight
					A	B	C	
	20570__-1-PP	Medium Gray	Light Gray	1" pipe	1-3/4" (44 mm)	2-7/8" (73 mm)	1-7/8" (48 mm)	2.7 oz. (.08 kg)
	20570__-1-1/4-PP	Medium Gray	Light Gray	1-1/4" pipe	1-7/8" (48 mm)	3-1/16" (78 mm)	1-7/8" (48 mm)	2.7 oz. (.08 kg)
	20570__-1-1/2-PPB	Black	Light Gray	1-1/2" pipe	2" (51 mm)	3-3/16" (81 mm)	1-7/8" (48 mm)	3.2 oz. (.09 kg)
	20570__-2-PPB	Black	Light Gray	2" pipe	2-3/8" (60 mm)	3-7/16" (87 mm)	1-15/16" (49 mm)	3.2 oz. (.09 kg)

Based on largest/heaviest version of each type.

**ORDERING INFORMATION**

**CLIP-EYELET NOZZLE ASSEMBLY AND SPRAY TIP**

ASSEMBLY					SPRAY TIP			
Nozzle Type	Clamp Design*	Inlet Dia.**	Pipe Size	Material Code	Tip Type	Spray Angle	Capacity Size	Mat. Code
Example					20570 D L - 1 - PP + CT 40 10 - PP			

\*Clamp Design — (no designation) indicates Single Clamp; **D** indicates Double Clamp \*\*Inlet Dia.—(no designation) indicates 9/16" (14.5 mm) dia.; **L** indicates 21/32" (17 mm) dia.

**38625 HP-EYELET ASSEMBLY**

- Hinged body attaches to spray header with one hand-tightened screw; standard screwdrivers or Allen wrenches can be used
- Screw can be installed from either side of the assembly and remains attached when loosened to prevent loss



HP-Eyelet assemblies for use with QuickJet ProMax ball body and spray tips, Clip-Eyelet ball-type spray tips or threaded ball and threaded nozzles

- Use with 1-1/4" or 1-1/2" pipe
- Inlet size for 9/16" (14.5 mm) dia. drill holes; retrofit seals are available for 21/32" (17 mm) or 27/32" (21 mm) dia. drill holes
- Materials resist scale, chemical attack and chemical build-up. (Body is ProMax, cap is polyphthalamide, seal and O-ring are EPDM. Viton® option available for seal and O-ring)
- Accepts ProMax® QuickJet® ball body and spray tips; Clip-Eyelet® ball-type spray tips or threaded ball and threaded nozzles
- Optional blank spray tip to stop the liquid flow

See pages 7 to 12 for spray tip performance data. See Industrial Spray Products Catalog 75 for performance data for threaded nozzles.

**SPECIFICATIONS**

Threaded Ball for Standard Nozzles	Retrofit Seal	Blank Tip
For nozzles with 1/4" male connection CP20582-1/4-PPB (NPT) CPB20582-1/4-PPB (BSPT)	For headers with 21/32" (17 mm) dia. holes CP20579-BU SEAL, BUNA-N CP20579-VI SEAL, Viton	QPA PLUG or CT PLUG - PP
For nozzles with 3/8" male connection CP20582-3/8-PPB (NPT) CPB20582-3/8-PPB (BSPT)	For headers with 27/32" (21 mm) dia. holes CP20580-BU SEAL, BUNA-N CP20580-VI SEAL, Viton	

**DIMENSIONS & WEIGHTS**

38625 	Hinged Split-Eyelet Body Assembly	To Clamp On	Dimensions				Net Weight
			A	B	C	D	
	38625-1-1/4-PP	1-1/4" pipe	1-1/4" (32 mm)	4-3/16" (106 mm)	3-1/4" (83 mm)	1-3/4" (44 mm)	3.9 oz. (.11 kg)
	38625-1-1/2-PP	1-1/2" pipe	1-11/32" (34 mm)	4-5/16" (110 mm)	3-1/2" (89 mm)	1-3/4" (44 mm)	3.9 oz. (.11 kg)

Based on largest/heaviest version of each type.

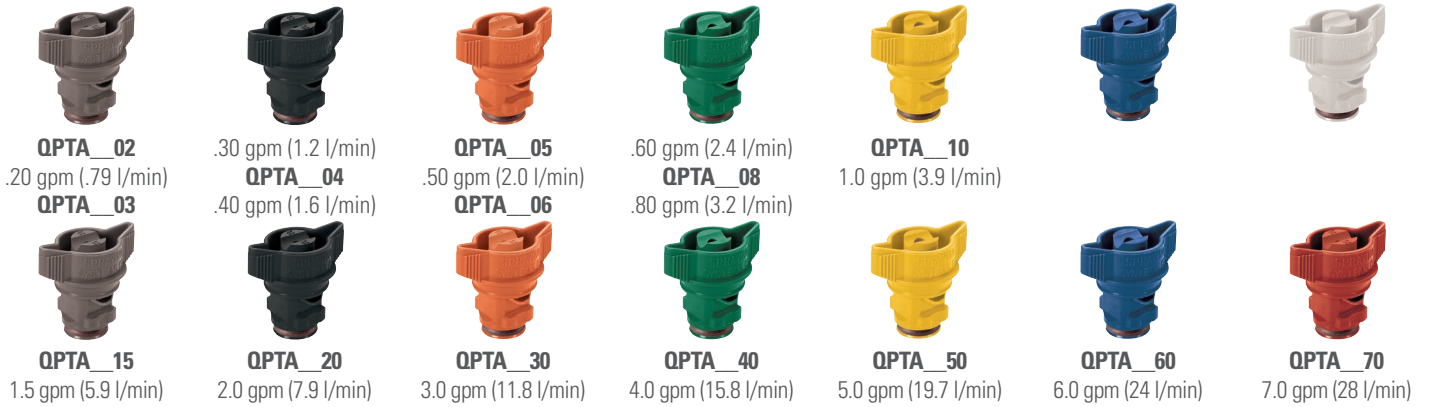
**ORDERING INFORMATION: PROMAX HP-EYELET NOZZLE ASSEMBLY AND SPRAY TIP**

ASSEMBLY			SPRAY TIP			Example														
Nozzle Type	Pipe Size	Mat. Code	+	ProMax Ball No.	+	Tip Type	Spray Angle	Capacity Size	+	38625	-	1-1/4	-	PP	+	CP46679-PP	+	QPTA	25	02

**HP-EYELET NOZZLE ASSEMBLY AND SPRAY TIP**

ASSEMBLY			SPRAY TIP				Example											
Nozzle Type	Pipe Size	Mat. Code	+	Tip Type	Spray Angle	Capacity Size	Mat. Code	+	38625	-	1-1/4	-	PP	+	CT	50	30	PP

PROMAX QUICK VEEJET SPRAY TIPS STANDARD ANGLE FLAT SPRAY



Capacities at 40 psi (3 bar). Use with ProMax ball.

PERFORMANCE DATA: STANDARD ANGLE

Spray Angle at 40 psi (3 bar)							Capacity Size	Spray Tip Color	Capacity – gallons per minute (liters per minute)											
									5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)		
25°	40°	50°	65°	80°	95°	110°														
•*	•	•	•	•	•	•	02	Gray	.07 (.25)	.10 (.46)	.14 (.64)	.17 (.79)	.20 (.91)	.25 (1.0)	.28 (1.1)	.32 (1.2)	.35 (1.3)	.39 (1.4)		
•*	•	•	•	•	•	•	03	Black	.11 (.37)	.15 (.68)	.21 (.97)	.26 (1.2)	.30 (1.4)	.37 (1.5)	.42 (1.7)	.47 (1.8)	.53 (1.9)	.58 (2.2)		
•*	•	•	•	•	•	•	04	Orange	.14 (.50)	.20 (.91)	.28 (1.3)	.35 (1.6)	.40 (1.8)	.49 (2.0)	.57 (2.2)	.63 (2.4)	.71 (2.6)	.77 (2.9)		
•	•	•	•	•	•	•	05	Green	.18 (.62)	.25 (1.1)	.35 (1.6)	.43 (2.0)	.50 (2.3)	.61 (2.5)	.71 (2.8)	.79 (3.0)	.88 (3.2)	.97 (3.6)		
•	•	•	•	•	•	•	06	Yellow	.21 (.75)	.30 (1.4)	.42 (1.9)	.52 (2.4)	.60 (2.7)	.73 (3.1)	.85 (3.3)	.95 (3.6)	1.1 (3.9)	1.2 (4.3)		
•	•	•	•	•	•	•	08	Blue	.28 (1.0)	.40 (1.8)	.56 (2.6)	.69 (3.2)	.80 (3.6)	.98 (4.1)	1.1 (4.5)	1.3 (4.8)	1.4 (5.2)	1.5 (5.8)		
•	•	•	•	•	•		10	White	–	.50 (2.3)	.71 (3.2)	.86 (3.9)	1.0 (4.6)	1.2 (5.1)	1.4 (5.6)	1.6 (6.0)	1.8 (6.4)	1.9 (7.2)		
•	•	•	•	•	•		15	Gray	–	.75 (3.4)	1.1 (4.8)	1.3 (5.9)	1.5 (6.8)	1.8 (7.6)	2.1 (7.6)	2.4 (9.0)	2.7 (9.7)	2.9 (10.8)		
•	•	•	•	•	•		20	Black	–	1.0 (4.6)	1.4 (6.5)	1.7 (7.9)	2.0 (9.1)	2.5 (10.2)	2.8 (10.2)	3.2 (12.1)	3.5 (12.9)	3.9 (14.4)		
•	•	•	•	•	•		30	Orange	1.1 (3.7)	1.5 (6.8)	2.1 (9.7)	2.6 (11.8)	3.0 (13.7)	3.7 (15.3)	4.2 (15.3)	4.7 (18.1)	5.3 (19.3)	5.8 (22)		
•	•	•	•	•	•		40	Green	1.4 (5.0)	2.0 (9.1)	2.8 (12.9)	3.5 (15.8)	4.0 (18.2)	4.9 (20)	5.7 (20)	6.3 (24)	7.1 (26)	7.7 (29)		
•	•	•	•	•	•		50	Yellow	1.8 (6.2)	2.5 (11.4)	3.5 (16.1)	4.3 (19.7)	5.0 (23)	6.1 (25)	7.1 (25)	7.9 (30)	8.8 (32)	9.7 (36)		
•	•	•	•	•	•		60	Blue	2.1 (7.5)	3.0 (13.7)	4.2 (19.3)	5.2 (24)	6.0 (27)	7.3 (31)	8.5 (31)	9.5 (36)	10.6 (39)	11.6 (43)		
•	•	•	•	•	•		70	Red	2.5 (8.7)	3.5 (16.0)	4.9 (23)	6.1 (28)	7.0 (32)	8.6 (36)	9.9 (36)	11.1 (42)	12.4 (45)	13.6 (50)		

\*Not recommended below 7 psi (0.5 bar).

**PROMAX QUICK FULLJET SPRAY TIPS STANDARD ANGLE FULL CONE SPRAY**



**QPHA-1**

.19 gpm (.74 l/min)



**QPHA-1.5**

.29 gpm (1.1 l/min)



**QPHA-2**

.38 gpm (1.5 l/min)



**QPHA-3**

.57 gpm (2.2 l/min)



**QPHA-3.5**

.67 gpm (2.6 l/min)



**QPHA-5**

.95 gpm (3.7 l/min)



**QPHA-6.5**

1.3 gpm (4.8 l/min)



**QPHA-8**

1.5 gpm (6.8 l/min)



**QPHA-10**

1.9 gpm (7.4 l/min)



**QPHA-15**

2.9 gpm (11.2 l/min)

Capacities at 40 psi (3 bar). Use with ProMax ball.

**PERFORMANCE DATA: STANDARD ANGLE**

Spray Tip Number	Spray Tip Color	Orifice Dia. Nom. in. (mm)	Max. Free Passage Dia.* in. (mm)	Capacity – gallons per minute (liters per minute)										Spray Angle		
				5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	7 psi (0.5 bar)	20 psi (2 bar)	80 psi (6 bar)
QPHA-1	Brown	.035 (.89)	.025 (.64)	– (.26)	.10 (.45)	.14 (.62)	.17 (.74)	.19 (.85)	.23 (.94)	.26 (1.0)	.30 (1.1)	.34 (1.2)	.36 (1.3)	–	58°	53°
QPHA-1.5	White	.045 (1.1)	.025 (.64)	– (.38)	.15 (.67)	.21 (.93)	.25 (1.1)	.29 (1.3)	.35 (1.4)	.40 (1.5)	.44 (1.7)	.49 (1.8)	.53 (1.9)	52°	65°	59°
QPHA-2	Gray	.047 (1.2)	.040 (1.0)	.14 (.50)	.20 (.87)	.28 (1.2)	.34 (1.5)	.38 (1.7)	.46 (1.9)	.53 (2.0)	.59 (2.2)	.65 (2.4)	.70 (2.6)	43°	50°	46°
QPHA-3	Black	.061 (1.5)	.040 (1.0)	.22 (.79)	.30 (1.4)	.42 (1.9)	.50 (2.2)	.57 (2.5)	.69 (2.8)	.79 (3.1)	.88 (3.3)	1.0 (3.6)	1.1 (3.9)	52°	65°	59°
QPHA-3.5	Orange	.063 (1.6)	.050 (1.3)	.25 (.92)	.35 (1.6)	.48 (2.2)	.58 (2.6)	.67 (3.0)	.81 (3.3)	.92 (3.6)	1.0 (3.9)	1.2 (4.2)	1.3 (4.5)	43°	50°	46°
QPHA-5	Green	.077 (2.0)	.050 (1.3)	.36 (1.3)	.50 (2.2)	.69 (3.1)	.82 (3.7)	.95 (4.2)	1.2 (4.7)	1.3 (5.1)	1.5 (5.5)	1.7 (6.0)	1.8 (6.5)	52°	65°	59°
QPHA-6.5	Yellow	.089 (2.3)	.063 (1.6)	.47 (1.7)	.65 (2.9)	.89 (4.0)	1.1 (4.8)	1.3 (5.5)	1.5 (6.1)	1.7 (6.7)	1.9 (7.1)	2.1 (7.8)	2.3 (8.4)	45°	50°	46°
QPHA-8	Beige	.096 (2.4)	.063 (1.6)	.58 (2.0)	.80 (3.6)	1.1 (4.9)	1.3 (6.0)	1.5 (6.8)	1.8 (7.5)	2.1 (8.2)	2.3 (8.8)	2.6 (9.6)	2.9 (10.4)	54°	65°	61°
QPHA-10	Blue	.113 (2.9)	.063 (1.6)	.73 (2.6)	1.0 (4.5)	1.4 (6.2)	1.7 (7.4)	1.9 (8.5)	2.4 (9.4)	2.7 (10.2)	3.0 (11.0)	3.3 (12.0)	3.6 (13.0)	58°	67°	61°
QPHA-15	Red	.141 (3.6)	.063 (1.6)	1.1 (3.9)	1.5 (6.8)	2.1 (9.3)	2.5 (11.2)	2.9 (12.7)	3.5 (14.1)	4.0 (15.4)	4.4 (16.5)	4.9 (18.0)	5.3 (19.4)	80°	85°	80°

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





PROMAX QUICK FULLJET SPRAY TIPS WIDE ANGLE FULL CONE SPRAY



**QPHA-2.8W**

.51 gpm (2.0 l/min)



**QPHA-4.3W**

.79 gpm (3.1 l/min)



**QPHA-5.6W**

1.0 gpm (4.0 l/min)



**QPHA-8W**

1.5 gpm (5.8 l/min)



**QPHA-10W**

1.8 gpm (7.2 l/min)



**QPHA-12W**

2.2 gpm (8.7 l/min)



**QPHA-14W**

2.6 gpm (10.1 l/min)

Capacities at 40 psi (3 bar). Use with ProMax ball.

PERFORMANCE DATA: WIDE ANGLE

Spray Tip Number	Spray Tip Color	Orifice Dia. Nom. in. (mm)	Max. Free Passage Dia.* in. (mm)	Capacity – gallons per minute (liters per minute)										Spray Angle		
				5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	5 psi (0.3 bar)	10 psi (1 bar)	80 psi (6 bar)
QPHA-2.8W	White	.057 (1.4)	.040 (1.0)	–	.28 (1.2)	.38 (1.7)	.45 (2.0)	.51 (2.3)	.61 (2.5)	.70 (2.7)	.77 (2.9)	.84 (3.1)	.91 (3.4)	–	120°	102°
QPHA-4.3W	Black	.073 (1.9)	.040 (1.0)	–	.43 (1.9)	.58 (2.6)	.70 (3.1)	.79 (3.5)	.95 (3.9)	1.1 (4.2)	1.2 (4.5)	1.3 (4.8)	1.4 (5.3)	–	120°	102°
QPHA-5.6W	Orange	.086 (2.2)	.040 (1.0)	–	.56 (2.5)	.76 (3.4)	.91 (4.0)	1.0 (4.6)	1.2 (5.1)	1.4 (5.5)	1.5 (5.9)	1.7 (6.2)	1.8 (6.9)	–	120°	102°
QPHA-8W	Green	.098 (2.5)	.050 (1.3)	–	.80 (3.6)	1.1 (4.8)	1.3 (5.8)	1.5 (6.6)	1.8 (7.2)	2.0 (7.8)	2.2 (8.4)	2.5 (8.9)	2.7 (9.8)	–	120°	103°
QPHA-10W	Yellow	.109 (2.8)	.050 (1.3)	.74 (2.6)	1.0 (4.5)	1.4 (6.0)	1.6 (7.2)	1.8 (8.2)	2.2 (9.1)	2.5 (9.8)	2.7 (10.5)	3.0 (11.1)	3.3 (12.2)	112°	120°	103°
QPHA-12W	Blue	.129 (3.3)	.050 (1.3)	.89 (3.1)	1.2 (5.3)	1.6 (7.3)	1.9 (8.7)	2.2 (9.8)	2.6 (10.9)	3.0 (11.8)	3.3 (12.6)	3.6 (13.4)	3.9 (14.8)	114°	120°	103°
QPHA-14W	Red	.141 (3.6)	.063 (1.6)	1.0 (3.7)	1.4 (6.2)	1.9 (8.5)	2.3 (10.1)	2.6 (11.5)	3.1 (12.7)	3.5 (13.7)	3.9 (14.7)	4.3 (15.6)	4.6 (17.2)	114°	120°	103°

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



**PROMAX QUICK WHIRLJET SPRAY TIPS  
STANDARD ANGLE HOLLOW CONE SPRAY**



QPAA-\_\_

**PROMAX QUICK WHIRLJET SPRAY TIPS  
WIDE ANGLE HOLLOW CONE SPRAY**



QPAA-\_\_W

Use with ProMax ball.

**PERFORMANCE DATA: STANDARD ANGLE**

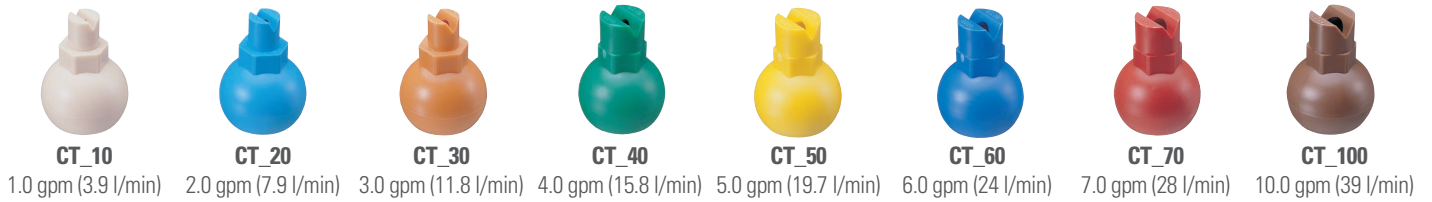
Spray Tip Number	Inlet Dia. Nom. in. (mm)	Orifice Dia. Nom. in. (mm)	Capacity – gallons per minute (liters per minute)										Spray Angle		
			5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	7 psi (0.5 bar)	20 psi (2 bar)	80 psi (6 bar)
QPAA-0.5	.031 (.79)	.047 (1.2)	– (.12)	.05 (.23)	.07 (.32)	.09 (.39)	.10 (.46)	.12 (.51)	.14 (.56)	.16 (.60)	.18 (.64)	.19 (.72)	–	58°	69°
QPAA-1	.063 (1.6)	.063 (1.6)	– (.25)	.10 (.46)	.14 (.64)	.17 (.79)	.20 (.91)	.24 (1.0)	.28 (1.1)	.31 (1.2)	.35 (1.3)	.39 (1.4)	–	64°	76°
QPAA-2	.078 (2.0)	.078 (2.0)	.14 (.50)	.20 (.91)	.28 (1.3)	.35 (1.6)	.40 (1.8)	.49 (2.0)	.57 (2.2)	.63 (2.4)	.71 (2.6)	.77 (2.9)	53°	70°	80°
QPAA-3	.094 (2.4)	.094 (2.4)	.21 (.74)	.30 (1.4)	.43 (1.9)	.52 (2.4)	.60 (2.7)	.73 (3.1)	.85 (3.3)	.95 (3.6)	1.1 (3.9)	1.2 (4.3)	55°	79°	80°
QPAA-5	.141 (3.6)	.109 (2.8)	.35 (1.2)	.50 (2.3)	.70 (3.2)	.86 (3.9)	1.0 (4.6)	1.2 (5.1)	1.4 (5.6)	1.6 (6.0)	1.8 (6.4)	1.9 (7.2)	70°	75°	79°
QPAA-8	.172 (4.4)	.141 (3.6)	.57 (2.0)	.80 (3.6)	1.1 (5.2)	1.4 (6.3)	1.6 (7.3)	2.0 (8.2)	2.3 (8.9)	2.5 (9.6)	2.8 (10.3)	3.1 (11.5)	65°	72°	74°
QPAA-10	.188 (4.8)	.172 (4.4)	.72 (2.4)	1.0 (4.6)	1.4 (6.4)	1.7 (7.9)	2.0 (9.1)	2.4 (10.2)	2.8 (11.2)	3.1 (12.1)	3.5 (12.9)	3.9 (14.4)	70°	76°	75°
QPAA-15	.199 (6.0)	.203 (5.2)	1.1 (3.8)	1.5 (6.8)	2.1 (9.7)	2.6 (11.8)	3.0 (13.7)	3.7 (15.3)	4.2 (16.7)	4.7 (18.1)	5.3 (19.3)	5.8 (22)	70°	72°	75°

**PERFORMANCE DATA: WIDE ANGLE**

Spray Tip Number	Inlet Dia. Nom. in. (mm)	Orifice Dia. Nom. in. (mm)	Capacity – gallons per minute (liters per minute)										Spray Angle		
			5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	7 psi (0.5 bar)	20 psi (2 bar)	80 psi (6 bar)
QPAA-5W	.136 (3.5)	.129 (3.3)	.35 (1.2)	.50 (2.3)	.70 (3.2)	.86 (3.9)	1.0 (4.6)	1.2 (5.1)	1.4 (5.6)	1.6 (6.0)	1.8 (6.4)	1.9 (7.2)	125°	112°	98°
QPAA-8W	.177 (4.5)	.156 (4.0)	.57 (2.0)	.80 (3.6)	1.1 (5.2)	1.4 (6.3)	1.6 (7.3)	2.0 (8.2)	2.3 (8.9)	2.5 (9.6)	2.8 (10.3)	3.1 (11.5)	112°	100°	87°
QPAA-10W	.196 (5.0)	.177 (4.5)	.72 (2.4)	1.0 (4.6)	1.4 (6.4)	1.7 (7.9)	2.0 (9.1)	2.4 (10.2)	2.8 (11.2)	3.1 (12.1)	3.5 (12.9)	3.9 (14.4)	111°	97°	89°
QPAA-15W	.242 (6.1)	.213 (5.4)	1.1 (3.8)	1.5 (6.8)	2.1 (9.7)	2.6 (11.8)	3.0 (13.7)	3.7 (15.3)	4.2 (16.7)	4.7 (18.1)	5.3 (19.3)	5.8 (22)	110°	98°	90°



### CLIP-EYELET BALL-TYPE SPRAY TIPS STANDARD ANGLE FLAT SPRAY



### CLIP-EYELET BALL-TYPE FLOODING SPRAY TIPS EXTRA WIDE ANGLE FLAT SPRAY



### PERFORMANCE DATA: STANDARD ANGLE

Spray Angle at 40 psi (3 bar)						Capacity Size	Spray Tip Color	Capacity – gallons per minute (liters per minute)									
15°	25°	40°	50°	65°	80°			5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)
				•	•	10	Beige	.35 (1.2)	.50 (2.3)	.71 (3.2)	.86 (3.9)	1.0 (4.6)	1.2 (5.1)	1.4 (5.6)	1.6 (6.0)	1.8 (6.4)	1.9 (7.2)
		•	•	•		20	Light Blue	.71 (2.5)	1.0 (4.6)	1.4 (6.5)	1.7 (7.9)	2.0 (9.1)	2.5 (10.2)	2.8 (11.2)	3.2 (12.1)	3.5 (12.9)	3.9 (14.4)
	•	•	•	•		30	Orange	1.1 (3.7)	1.5 (6.8)	2.1 (9.7)	2.6 (11.8)	3.0 (13.7)	3.7 (15.3)	4.2 (16.8)	4.7 (18.1)	5.3 (19.3)	5.8 (22)
		•	•	•	•	40	Green	1.4 (5.0)	2.0 (9.1)	2.8 (12.9)	3.5 (15.8)	4.0 (18.2)	4.9 (20)	5.7 (22)	6.3 (24)	7.1 (26)	7.7 (29)
•		•	•	•		50	Yellow	1.8 (6.2)	2.5 (11.4)	3.5 (16.1)	4.3 (19.7)	5.0 (23)	6.1 (25)	7.1 (28)	7.9 (30)	8.8 (32)	9.7 (36)
	•	•	•	•	•	60	Blue	2.1 (7.5)	3.0 (13.7)	4.2 (19.3)	5.2 (24)	6.0 (27)	7.3 (31)	8.5 (34)	9.5 (36)	10.6 (39)	11.6 (43)
•	•	•	•	•	•	70	Red	2.5 (8.7)	3.5 (16.0)	4.9 (23)	6.1 (28)	7.0 (32)	8.6 (36)	9.9 (39)	11.1 (42)	12.4 (45)	13.6 (50)
•	•	•	•	•	•	100	Brown	3.5 (12.5)	5.0 (23)	7.1 (32)	8.6 (39)	10.0 (46)	12.2 (51)	14.1 (56)	15.8 (60)	17.7 (64)	19.4 (72)

### PERFORMANCE DATA: EXTRA WIDE ANGLE

Capacity Size	Spray Tip Color	Equiv. Orifice Dia. in. (mm)	Capacity – gallons per minute (liters per minute)										Spray Angle		
			5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	7 psi (0.5 bar)	20 psi (2 bar)	60 psi (4 bar)
5	Gray	0.078 (2.0)	0.35 (1.2)	0.5 (2.3)	0.71 (3.2)	0.87 (3.9)	1.0 (4.6)	1.2 (5.1)	1.4 (5.6)	1.6 (6.1)	1.8 (6.5)	1.9 (7.3)	124°	143°	156°
10	White	0.105 (2.7)	0.71 (2.5)	1.0 (4.6)	1.4 (6.4)	1.7 (7.9)	2.0 (9.1)	2.4 (10.2)	2.8 (11.2)	3.2 (12)	3.5 (12.9)	3.9 (14.4)	150°	162°	174°
18	Light Blue	0.140 (3.6)	1.3 (4.5)	1.8 (8.2)	2.5 (11.6)	3.1 (14.2)	3.6 (16.4)	4.4 (18.3)	5.1 (20)	5.7 (22)	5.7 (23)	7.0 (26)	152°	162°	174°
24	Purple	0.162 (4.1)	1.7 (6)	2.4 (10.9)	3.4 (15.5)	4.2 (19)	4.8 (22)	5.9 (24)	6.8 (27)	7.6 (29)	7.6 (31)	9.3 (35)	136°	147°	156°
30	Orange	0.181 (4.6)	2.1 (7.5)	3.0 (13.7)	4.2 (19.3)	5.2 (24)	6.0 (27)	7.3 (31)	8.5 (34)	9.5 (36)	9.5 (39)	11.6 (43)	149°	169°	178°
40	Green	0.209 (5.3)	2.8 (10)	4.0 (18.2)	5.7 (26)	6.9 (32)	8.0 (36)	9.8 (41)	11.3 (45)	12.7 (48)	12.7 (52)	15.5 (58)	155°	168°	174°

**CLIP-EYELET BALL-TYPE SPRAY TIPS STANDARD ANGLE HOLLOW CONE SPRAY**



**CA15-30.1**

4.5 gpm (17.6 l/min)



**CA25-30.1**

5.4 gpm (21.4 l/min)



**CA50-50.1**

9.9 gpm (39.2 l/min)



**CA50-50.3**

9.8 gpm (38.7 l/min)

Capacities at 40 psi (3 bar).

**PERFORMANCE DATA: STANDARD ANGLE**

Capacity Size	Capacity – gallons per minute (liters per minute)										Spray Angle at 40 psi (3 bar)		
	5 psi (0.3 bar)	10 psi (1 bar)	20 psi (2 bar)	30 psi (3 bar)	40 psi (4 bar)	60 psi (5 bar)	80 psi (6 bar)	100 psi (7 bar)	125 psi (8 bar)	150 psi (10 bar)	7 psi (0.5 bar)	20 psi (2 bar)	60 psi (5 bar)
15-30.1	1.6 (5.8)	2.3 (10.4)	3.2 (14.5)	3.9 (17.6)	4.5 (20.2)	5.4 (22.5)	6.3 (24.5)	7.0 (26.4)	7.8 (28.2)	8.6 (31.3)	46°	49°	51°
25-30.1	2.0 (7.1)	2.8 (12.7)	3.9 (17.6)	4.7 (21.4)	5.4 (24.6)	6.6 (27.3)	7.6 (29.8)	8.4 (32.1)	9.4 (34.2)	10.2 (38.0)	45°	47°	50°
50-50.1	3.5 (12.5)	5.0 (22.7)	7.0 (32.0)	8.6 (39.2)	9.9 (45.2)	12.1 (50.5)	14.0 (55.3)	15.7 (59.7)	17.5 (63.8)	19.2 (71.3)	38°	46°	48°
50-50.3	3.5 (12.7)	5.0 (22.7)	7.1 (31.8)	8.5 (38.7)	9.8 (44.4)	11.9 (49.5)	13.8 (54.1)	15.4 (58.3)	17.2 (62.2)	18.8 (69.3)	75°	75°	76°

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