

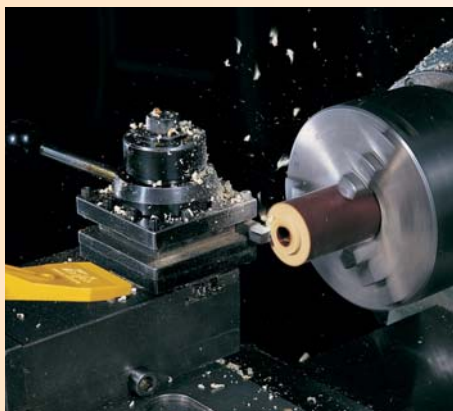


Special Purpose Nozzles • Metal Pretreatment

SPECIAL PURPOSE NOZZLES

Spray nozzles are critical in metal pretreatment applications because many types of product quality problems, including poor paint adhesion, corrosion, and uneven coating, can often be traced back to improper spraying.

Fortunately, recent advancements in spray technology have helped to minimize these problems by speeding maintenance,



reducing downtime, and improving overall spray system performance. We have an extensive line of nozzles for cleaning, conversion coating, rinsing,

blow-off, and wetting, and are likely to have a spray nozzle suitable for your requirement. Please contact us to learn how we may be able to help optimize your metal pretreatment application.

WINDJET® NOZZLES



Ideal for removing excess rinse water, speeding drying time, drying crevices, or removing particulates, WindJet air control nozzles are efficient and quiet. The nozzles may reduce air consumption costs through efficient use of compressed air, reduce

noise, and create a better quality air pattern than open pipes, drilled holes, and many other air control nozzles.

For more info, see page 436.

TANK MIXING EDUCTORS



Designed for in-tank applications, tank mixing eductors provide improved solution circulation and agitation by preventing particulates from settling in the bottom of the tank. This enhances filtration system performance and enables the use of smaller

pumps to circulate large volumes of tank solution. Tank mixing eductors are ideal for anodizing, mixing, phosphating, plating, rinsing, and stripping applications.

For more info, see page 504.



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SPECIAL PURPOSE NOZZLES

CLIP-EYELET® NOZZLES



The 20570 Clip-Eyelet is designed to ensure easy installation and minimal maintenance downtime. The assembly simply snaps onto the header using spring-grade stainless steel clamps, and fits 1", 1-1/4", 1-1/2" or 2" pipe with a 9/16" (14.3 mm) or 21/32" (16.7 mm) dia. drilled hole. The nozzle is aligned and secured with a hand twist of the cap.

- Available in single and double clamp designs.
- Glass-reinforced polypropylene construction withstands high temperatures and resists corrosion.
- Ball-type Clip-Eyelet nozzles allow the spray pattern to be directed precisely at surfaces.
- Provides consistent spray patterns, even coverage, and chemical resistance for effective cleaning, conversion coating, and rinsing.
- Maximum Pressure – Single clamp, 60 psi (4 bar); Double clamp, 150 psi (10.3 bar).
- Maximum Temperature – 180°F (82°C).

ADJUSTABLE BALL-TYPE NOZZLES



The 37235 Adjustable Ball-Type nozzle has a threaded pipe connection and permits quick, convenient positioning of the spray tip for accurate spray alignment and reduced overspraying.

- Hollow cone or flat ball-type spray tips are easily removed for cleaning and replacement. Color-coding speeds changeout.

- Retaining cap holds the tip in position, even when the nozzle is jarred or vibrated.
- ProMax® (polypropylene) body with a polyphthalamide cap and an EPDM O-ring (VITON® optional) for excellent chemical and heat resistance.
- Ideal for cleaning, conversion coating, wetting, and rinsing applications.
- Maximum Pressure – 125 psi (8.6 bar).
- Maximum Temperature – 180°F (82°C).

PERFORMANCE DATA

FLAT SPRAY PATTERN

Inlet Conn. NPT or BSPT (M)	Spray Angle at 3 bar						Cap. Size	Tip Color	Capacity (liters per minute)						
	15°	25°	40°	50°	65°	80°			0.3 bar	.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar
1/4, 3/8, 1/2	—	—	—	—	CT6510-PP	CT8010-PP	10	Beige	1.2	1.9	2.3	2.8	3.2	3.9	4.6
	—	—	CT4020-PP	CT5020-PP	CT6520-PP	—	20	Light Blue	2.5	3.8	4.6	5.6	6.5	7.9	9.1
	—	CT2530-PP	CT4030-PP	CT5030-PP	CT6530-PP	—	30	Orange	3.7	5.7	6.8	8.4	9.7	11.8	13.7
	—	—	CT4040-PP	CT5040-PP	CT6540-PP	CT8040-PP	40	Green	5.0	7.6	9.1	11.2	12.9	15.8	18.2
	CT1550-PP	—	CT4050-PP	CT5050-PP	CT6550-PP	—	50	Yellow	6.2	9.5	11.4	14.0	16.1	19.7	23
	—	CT2560-PP	CT4060-PP	CT5060-PP	CT6560-PP	CT8060-PP	60	Blue	7.5	11.4	13.7	16.7	19.3	24	27
	CT1570-PP	CT2570-PP	CT4070-PP	CT5070-PP	CT6570-PP	CT8070-PP	70	Red	8.7	13.3	16.0	19.5	23	28	32
	CT15100-PP	CT25100-PP	CT40100-PP	CT50100-PP	CT65100-PP	CT80100-PP	100	Brown	12.5	19.1	23	28	32	39	46



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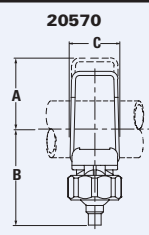
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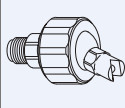
SPECIAL PURPOSE NOZZLES

HOLLOW CONE SPRAY PATTERN

Tip and Vane Sub-assembly No.	Capacity (liters per minute)							Spray Angle		
	0.35 bar	.7 bar	1 bar	1.5 bar	2 bar	3 bar	4 bar	0.5 bar	1.5 bar	4 bar
CA15-30.1-PP	6.2	8.8	10.4	12.6	14.5	17.6	20.2	46°	49°	51°
CA25-30.1-PP	7.5	10.7	12.7	15.4	17.6	21.4	24.6	45°	47°	50°
CA50-50.1-PP	13.5	19.0	22.7	27.8	32.0	39.2	45.2	38°	46°	48°
CA50-50.3-PP	13.5	19.0	22.7	27.6	31.8	38.7	44.4	75°	75°	76°

DIMENSIONS & WEIGHTS

20570 	Clip-Eyelet Assembly No.	Color-Coded Body	Cap Color	To Clamp On	Dimensions			Net Weight (kg)
					A (mm)	B (mm)	C (mm)	
	20570__-1-PP	Medium Gray	Light Gray	1" pipe	44	67	48	.07
	20570__-1-1/4-PP	Medium Gray	Light Gray	1-1/4" pipe	48	71	48	
	20570__-1-1/2-PPB	Black	Light Gray	1-1/2" pipe	48	75	48	.08
	20570__-2-PPB	Black	Light Gray	2" pipe	48	81	49	

37235 	Nozzle Type	Length (mm)	Dia. (mm)	Net Weight (kg)
	37235	68.3	17.5	.03

Based on largest/heaviest version of each type.

ORDERING INFO

CLIP-EYELET® NOZZLE ASSEMBLY AND SPRAY TIP								
NOZZLE BODY					SPRAY TIP			
20570	D	L	- 1 -	PP	+	CT	50 30	- PP
Nozzle Type	*Clamp Design	*Inlet Dia.	Pipe Size	Material Code		Tip Type	Spray Angle	Capacity Size
								Material Code

*Clamp Design — (no designation) indicates Single Clamp; D indicates Double Clamp
Inlet Dia. — (no designation) indicates 9/16" (14.3 mm) dia.; L indicates 21/32" (16.7 mm) dia.

ADJUSTABLE BALL-TYPE NOZZLE ASSEMBLY WITH TIP						
NOZZLE BODY			SPRAY TIP			
37235	- 3/8 -	PP	+	CT	50 30	- PP
Nozzle Type	Inlet Conn.	Material Code		Tip Type	Spray Angle	Capacity Size
						Material Code



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SPECIAL PURPOSE NOZZLES

PROMAX® CLIP-EYELET® NOZZLES



The 46500A ProMax Clip-Eyelet nozzle combines a snap-on pipe installation with a quick-connect ProMax spray tips for fast, easy maintenance. An adjustable, swivel-type ball provides a quick change of the spray's direction. It fits 1", 1-1/4", 1-1/2", or 2" pipe with a 9/16" (14.3 mm) or 21/32" (16.7 mm) dia. drilled hole.

- Available in single and double clamp designs.

- Glass-reinforced polypropylene construction withstands high temperatures and resists corrosion.
- Flat spray tips are automatically locked into alignment.
- Spray direction can be fine tuned to minimize overspray.
- Provides consistent spray patterns, even coverage, and chemical resistance for effective cleaning, conversion coating and rinsing.
- Maximum Pressure – Single clamp, 60 psi (4 bar); Double clamp, 150 psi (10.3 bar).
- Maximum Temperature – 180°F (82°C).

For information on ProMax VeeJet® spray tips, see Section C; ProMax FullJet® spray tips, see Section B; ProMax WhirlJet® spray tips, see Section D.

PROMAX HP EYELET NOZZLES



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.

- Screw may be installed from either side of the assembly for easy access. Remains attached to the assembly when loosened to eliminate the chance of misplacing the screw.
- Hinged body is molded from ProMax, a chemically coupled, glass-reinforced polypropylene material that combines strength with chemical resistance. The seal and O-ring are made of EPDM, the cap and clamp screw from polyphthalamide.
- Maximum pressure of 125 psi (8.6 bar).
- Maximum temperature of 180°F (82°C).

OPTIONAL ACCESSORIES

RETROFIT SEALS



CP20579 for 16.7 mm dia.
CP20580 for 21 mm dia.

Retrofit seals fit existing hole diameters of 21/32" (16.7 mm) or 27/32" (21 mm). For use with the Clip-Eyelet nozzle, ProMax Clip-Eyelet nozzle, ProMax HP Eyelet, and Adjustable Ball-Type nozzle. Available in Buna-N® and VITON® materials.

THREADED BALL



CP20582-1/4-PPB
CP20582-3/8-PPB

The threaded ball accepts a wide variety of conventional spray nozzles. For use with the Clip-Eyelet nozzle, ProMax Clip-Eyelet nozzle, ProMax HP Eyelet, and Adjustable Ball-Type nozzle.

BLANK SPRAY TIPS



QPA Plug

For stopping liquid flow. For use with the ProMax Clip-Eyelet nozzle and ProMax HP Eyelet.

For more info, see page 35.

PROMAX BALL



CP46679-PP

For use with the ProMax HP Eyelet, the ProMax QuickJet® ball accepts ProMax VeeJet®, FullJet®, and WhirlJet® spray tips.



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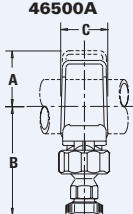
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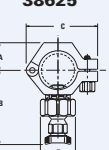


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SPECIAL PURPOSE NOZZLES

DIMENSIONS & WEIGHTS

 46500A	ProMax® Clip-Eyelet® Assembly No.	Color-Coded Body	Cap Color	To Clamp On	Dimensions			Net Weight (kg)
					A (mm)	B (mm)	C (mm)	
	46500A__-1-PP	Medium Gray	Light Gray	1" pipe	44	67	48	.08
	46500A__-1-1/4-PP	Medium Gray	Light Gray	1-1/4" pipe	48	71	48	
	46500A__-1-1/2-PPB	Black	Light Gray	1-1/2" pipe	48	75	48	.09
	46500A__-2-PPB	Black	Light Gray	2" pipe	48	81	49	

 38625	Hinged Split-Eyelet Body Assembly	To Clamp Dia.	A (mm)	B (mm)	C (mm)	D (mm)
			38625-1-1/4-PP	1-1/4" pipe	84.1	31.4
38625-1-1/2-PP	1-1/2" pipe	87.3	34.1	88.9	44.4	

Based on largest/heaviest version of each type.

ORDERING INFO

COMPLETE PROMAX CLIP-EYELET NOZZLE ASSEMBLY								
NOZZLE BODY					SPRAY TIP			
46500A	D	L	- 1 -	PP	+	QPTA	40	10
Nozzle Type	*Clamp Design	*Inlet Dia.	Pipe Size	Material Code		Tip Size	Spray Angle	Capacity Size

*Clamp Design — (no designation) indicates Single Clamp; D indicates Double Clamp
Inlet Dia. — (no designation) indicates 9/16" (14.3 mm) dia.; L indicates 21/32" (16.7 mm) dia.

STANDARD NOZZLE ASSEMBLY AND SPRAY TIP										
NOZZLE BODY			PROMAX BALL		SPRAY TIP					
38625	- 1-1/4 -	PP	+	CP46679	- PP	+	QPTA	50	30	- PP
Nozzle Type	Pipe Size	Material Code		Ball Type	Material Code		Tip Type	Spray Angle	Capacity Size	Material Code



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