



Mini-Spinner Vessel Cleaning Nozzles

Efficient nozzles for cleaning and rinsing of small vessels for pharma, biopharma, and industrial applications

Specifications

Self-cleaning hydraulic bearing design

Operating pressure range: 10-50 psi (0.7 - 3.4 bar)

Flow range 2.1 to 4.5 gpm (7.9 to 17 Lpm)

Spray coverage: 360°, 180° up or 180° down

For general rinsing and light cleaning of vessels up to 3' (0.9m) dia.

Minimum tank opening: 1" (25mm)

Materials of construction: body PTFE or 316L, saucer PTFE, and Viton® O-ring

Maximum operating temperature 200°F (93°C)

Pipe connections 1/4", 3/8" BSPT or NPT, or tube connection butt weld 1/2"

Benefits

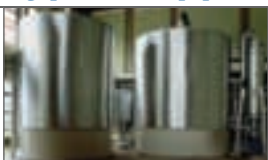
- For low flow/pressure applications
- Cost-effective
- Chemical-resistant Teflon®
- Small, liquid-driven, rotary vessel-cleaning nozzle
- Self-lubricated with cleaning fluid and self-draining
- Rotating spray head can be easily removed for inspection and maintenance

Pharma/Biopharma Options Available

Options for pharmaceutical and biopharmaceutical configurations are also available, including:

- USP Class VI materials of construction
- 20ui Ra surface finish
- Material test reports

Typical Applications



Vessel Cleaning
De-roughing/Passivating Purified Water Tanks
CIP Spray Dry
CIP Fluid Bed
Active Pharmaceutical Ingredients (API) Industry

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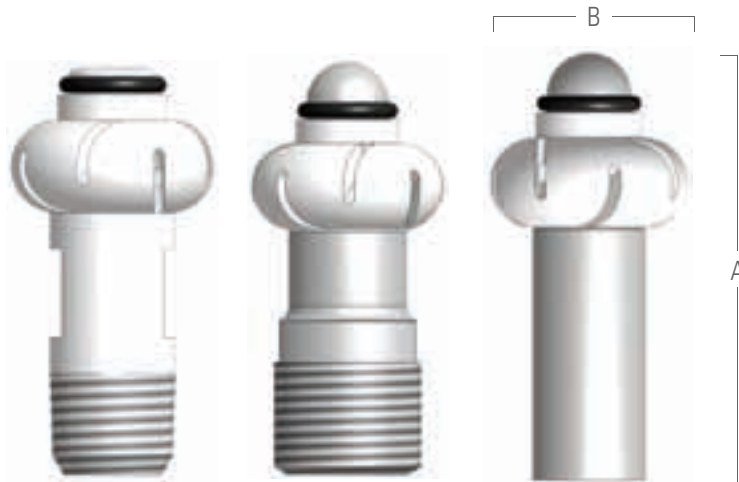
Performance Data

Nozzle No.	Capacity GPM					Capacity L/min				
	10 psi	20 psi	30 psi	40 psi	50 psi	0.7 bar	1.5 bar	2.0 bar	3.0 bar	3.4 bar
30473	2.1	2.9	3.5	4.0	4.5	7.8	11.3	13	15	17

Nozzle No.	A	B Dia.	Weight
30473-1/4-TEF	1.75 in (44.4 mm)	.87 in (22 mm)	0.5 oz
30473-3/8-316STF	1.90 in (48.3 mm)	.87 in (22 mm)	1.7 oz
30473-BW	1.90 in (48.3 mm)	.87 in (22 mm)	1.0 oz

Material Options

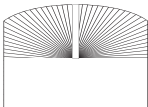
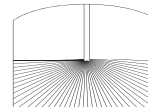
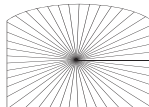
Code	Material
TEF	Teflon
TEFUSP	USP Class VI Teflon
316STF	316SS and PTFE
SSTEF6	316L and TEFUSP



Ordering Information

Mini-Spinner Nozzle				
30473				
Blank=NPT B=BSPT	Nozzle Type	Spray Pattern E (360°) A (180° Up) B (180° Down)	Inlet Connection (1/4", 3/8", BW)	Material Code

Spray Coverage

Type of Coverage	180° Up	180° Down	360°
			



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