

Z-Series Instrument Ready Pumps

TRICONTINENT
by Gardner Denver

FEATURES

- > Electronic air displacement pipetting modules
- > Exceptional precision and accuracy
- > Can be configured for mounting to a robotic arm

CUSTOMER REQUIREMENTS

- > Drive Recommendations Pump should typically be driven with a 24 VDC bipolar chopper drive, ½ step, at rated current. Higher voltage may be required at higher step rates.

CONFIGURED OPTIONS

- > Available in 200 µL, 1000 µL, 2000 µL and 5000 µL

BASE MODEL

200 µL
1000 µL
2000 µL
5000 µL

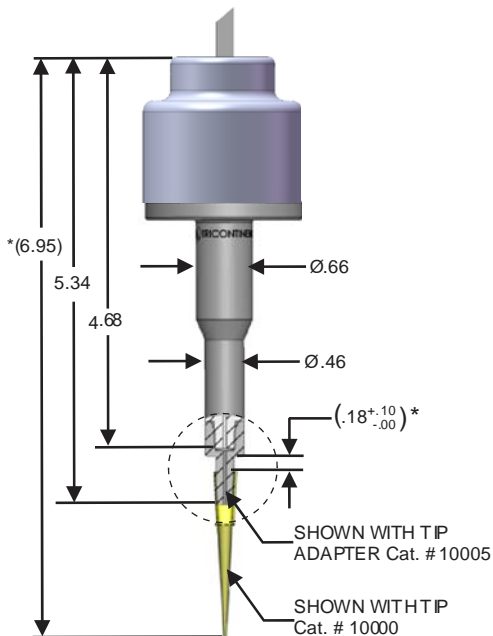


(Shown with optional Tip Adapter and Tip)

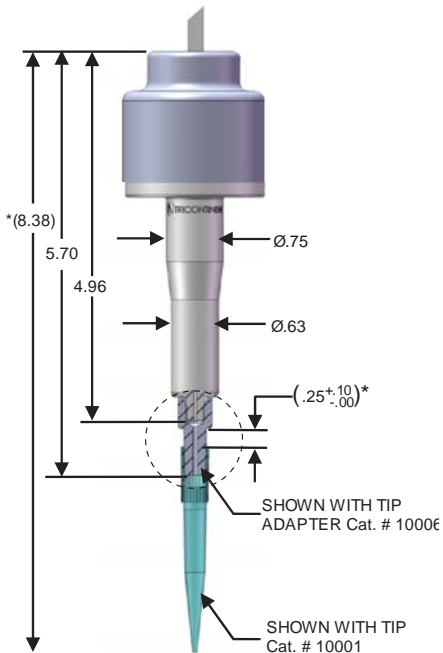
SPECIFICATIONS				
	200 μ L Cat. # 0879	1000 μ L Cat. # 0880	2000 μ L Cat. # 0881	5000 μ L Cat. # 0906
Tip Adapter Cat	10005	10006	10007	10008
Disposable Tip Cat	10000 (96/rack)	10001 (100/rack)	10002 (60/rack)	10003 (24/rack)
Step Resolution Per Full Step Per Half Step	0.381 μ L 0.191 μ L	1.527 μ L 0.763 μ L	3.808 μ L 1.904 μ L	7.616 μ L 3.808 μ L
Weight Z-Pump without Tip Adapter Z-Pump with Tip Adapter Z-Pump with Tip Adapter and Tip	4.00 oz (113.4 gm) 4.32 oz (122.5 gm) 4.33 oz (122.8 gm)	4.47 oz (126.7 gm) 4.88 oz (138.3 gm) 4.91 oz (139.2 gm)	4.57 oz (129.6 gm) 4.95 oz (140.3 gm) 5.00 oz (141.8 gm)	4.96 oz (140.6 gm) 6.08 oz (172.4 gm) 6.16 oz (174.6 gm)
Syringe Data Bore Stroke	0.1721" (4.37 mm) 0.709" (18.00 mm)	0.3441" (8.74 mm) 0.709" (18.00 mm)	0.5441" (13.82 mm) 0.709" (18.00 mm)	0.7694" (19.54 mm) 0.709" (18.00 mm)
Fluid Contact Materials (in case of accidental fluid aspiration)	Acetal, PTFE, Silicone Lubricant, Buna N, Neoprene, Borosilicate Glass and Stainless Steel			

FUNCTIONAL PARAMETERS	
Performance (at full volume) with tip adapter and tip noted above Accuracy within Precision within	$\pm 3\%$ 1%
Motor / Leadscrew Data Travel / Full Step Travel / Half Step Resistance / Phase Inductance / Phase Rated Current Rated Voltage	0.001" (0.0254 mm) 0.0005" (0.0127 mm) 14.7 Ω 8.5 mH 0.34 A 5.0 V

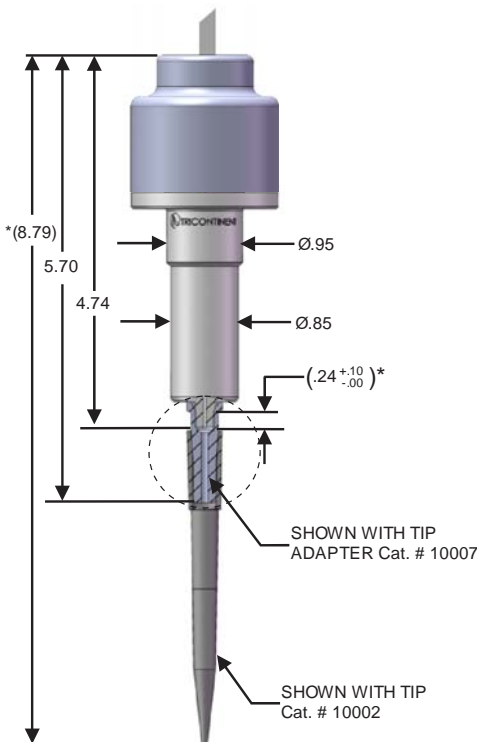
200 µL, Cat. # 0879



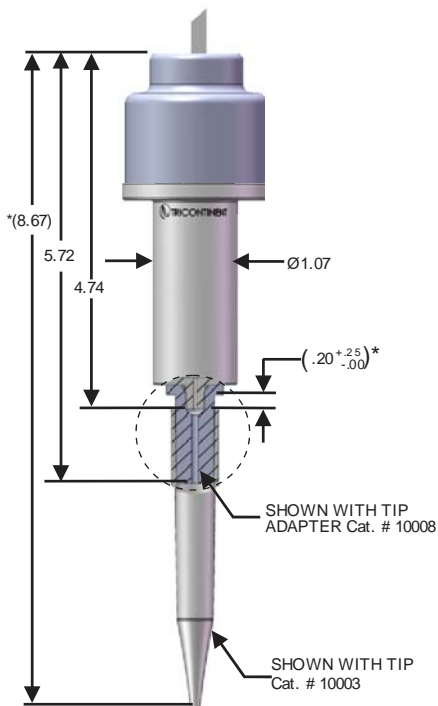
1000 µL, Cat. # 0880



2000 µL, Cat. # 0881



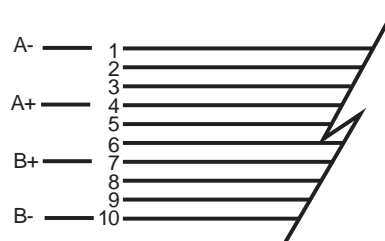
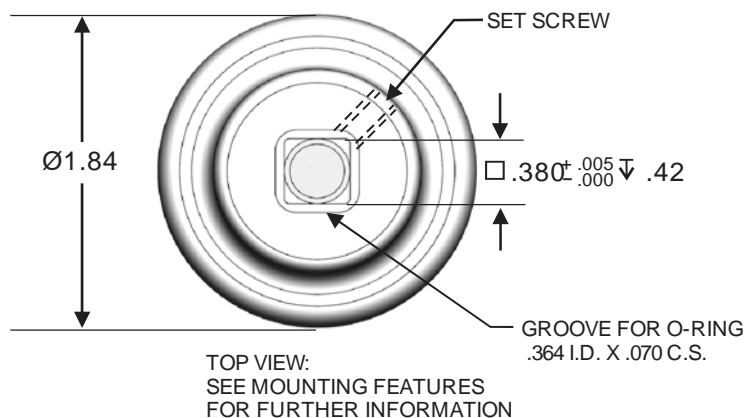
5000 µL, Cat. # 0906



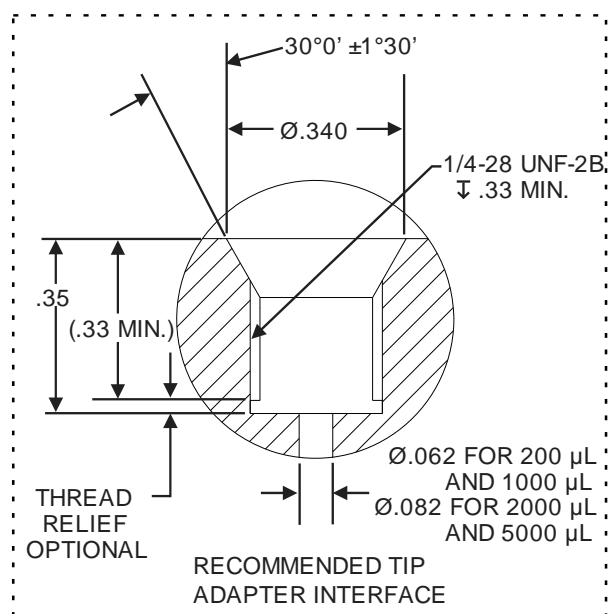
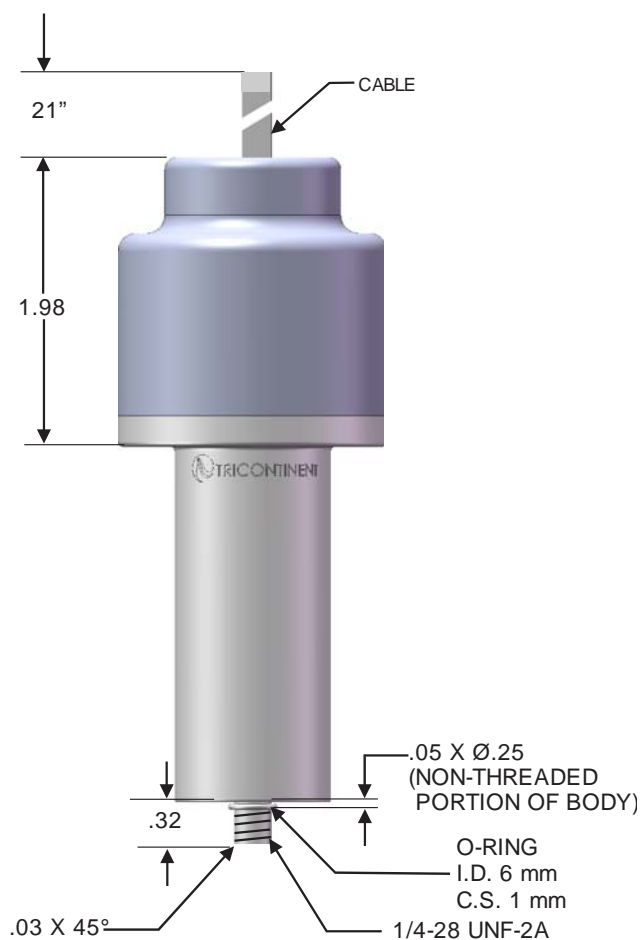
*Note: Each tip is designed to seal within the reference gap dimension shown. Customers should perform their own testing to determine optimum force/location for sealing and tip stripping.

Z-SERIES INSTRUMENT READY PUMP INTERFACE DETAILS

Dimensions/Features noted are typical for any size, Z-Series Pump (5000 µl shown)

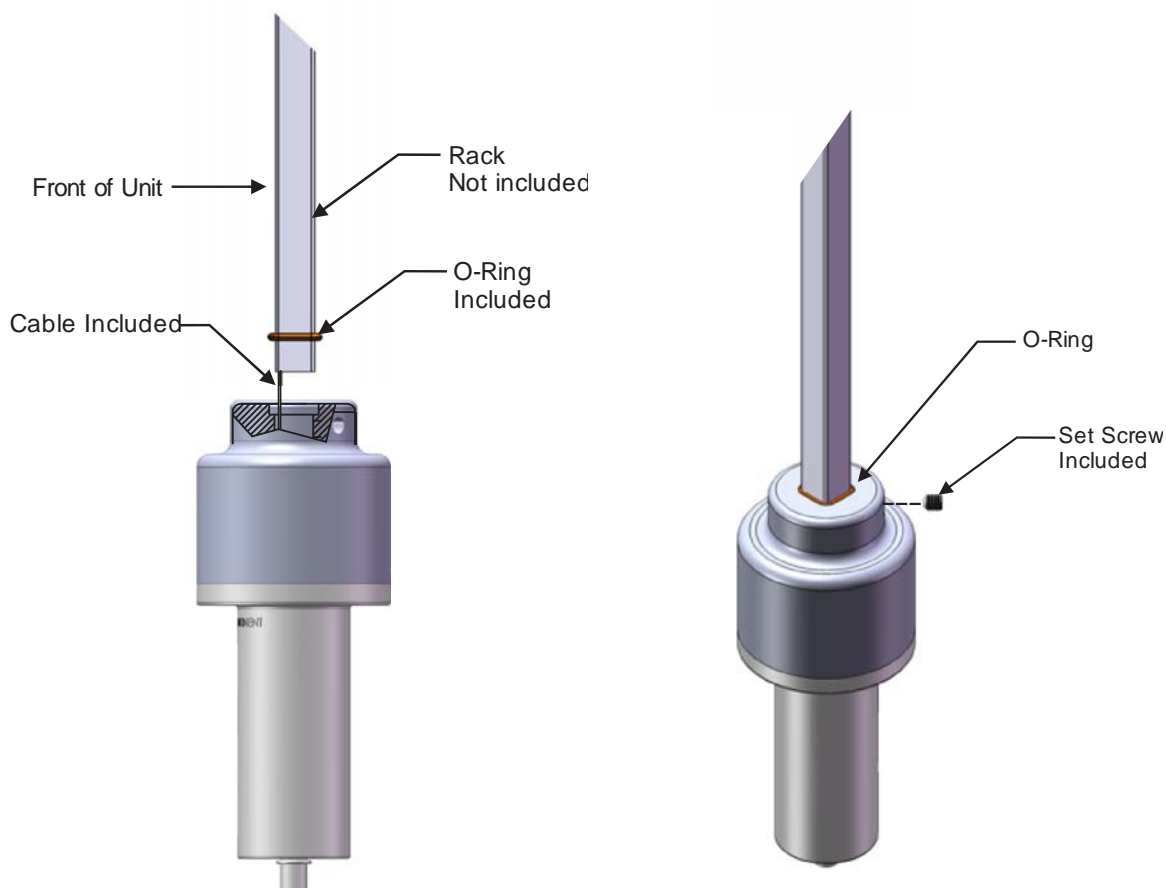
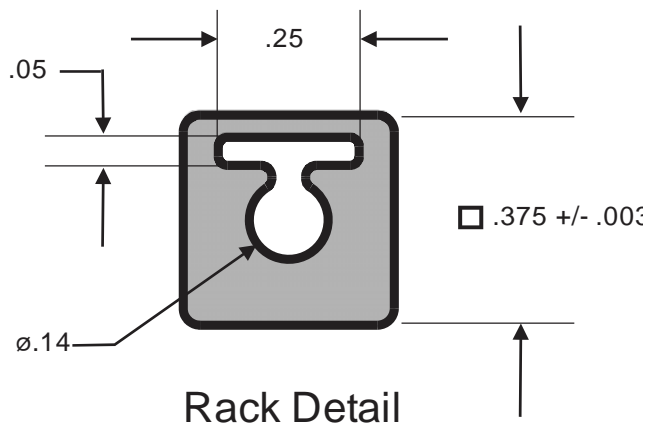


Cable Pin Out
Silver Side Up



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AIR DISPLACEMENT PUMP SOLUTIONS FOR OEMS WORLDWIDE

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