Air-Z Legacy

TRICONTINENT
by Gardner Denver

PRODUCT OVERVIEW

> Prevention of cross contamination and carryover during sample transfer and reagent aliquoting.

> Eliminate tubing and priming normally required for liquid handling.

BASE MODEL

200 µL

1000 µL

2000 µL

5000 µL

FEATURES

> Electronic air displacement pipetting modules

> Exceptional precision and accuracy

> Can be configured for mounting to a robotic arm

> Interfaces with the M-Series motion controllers

CONFIGURED OPTIONS

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

> Disposable Tip Sizes 100 uL, 1000 uL, 2000 uL, 5000 uL

> Tip Adapter option available

> M-Series motion controller

(Shown with optional Tip Adapter and Tip)

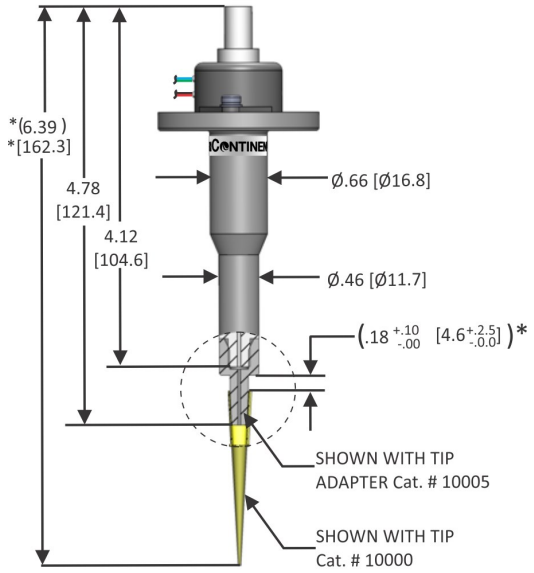
SPECIFICATIONS				
	200 µL Cat. # 0948	**1000 µL Cat. # 0949**	**2000 µL Cat. # 0950**	**5000 µL Cat. # 0951**
Tip Adapter Cat. #	10005	10006	10007	10008
Disposable Tip Cat. #	10000 (96/rack)	10001 (100/rack)	10002 (60/rack)	10003 (24/rack)
Step Resolution Per Full Step Per Half Step	 0.381 µL 0.191 µL	 1.527 µL 0.763 µL	 3.808 µL 1.904 µL	 7.616 µL 3.808 µL
Weight Z-Pump without Tip Adapter Z-Pump with Tip Adapter Z-Pump with Tip Adapter and Tip	 2.17 oz [61.6 gm] 2.49 oz [70.6 gm] 2.50 oz [70.9 gm]	 2.65 oz [75.0 gm] 3.06 oz [86.7 gm] 3.09 oz [87.6 gm]	 2.74 oz [77.8 gm] 3.12 oz [88.6 gm] 3.17 oz [90.0 gm]	 3.13 oz [88.7 gm] 4.25 oz [120.5 gm] 4.33 oz [122.7 gm]
Syringe Data Bore Stroke	 0.1721 in. [4.37 mm] 0.709 in. [18.00 mm]	 0.3441 in. [8.74 mm] 0.709 in. [18.00 mm]	 0.5441 in. [13.82 mm] 0.709 in. [18.00 mm]	 0.7694 in. [19.54 mm] 0.709 in. [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 (USING OPTIONAL M-SERIES CONTROLLER*)	
Performance (at full volume) with tip adapter and tip noted above Accuracy within Precision within	 ± 3% 1%
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.
Motor / Leadscrew Data Travel / Full Step Travel / Half Step Resistance / Phase Inductance / Phase Rated Current Rated Voltage	 0.001 in. [0.0254 mm] 0.0005 in. [0.0127 mm] 14.7 Ω 8.5 mH 0.34 A 5.0 V

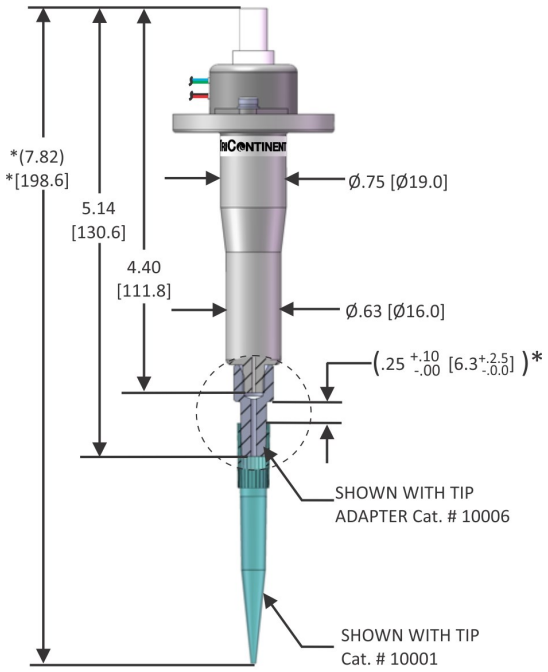
* Parameters without M-series controller dependent on customer use

Z-SERIES PUMPS ENVELOPE DRAWING

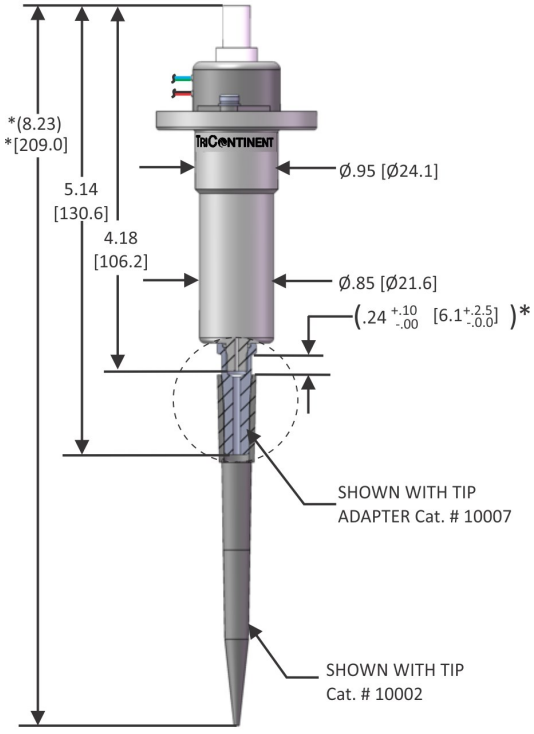
200 µL, Cat. # 0948



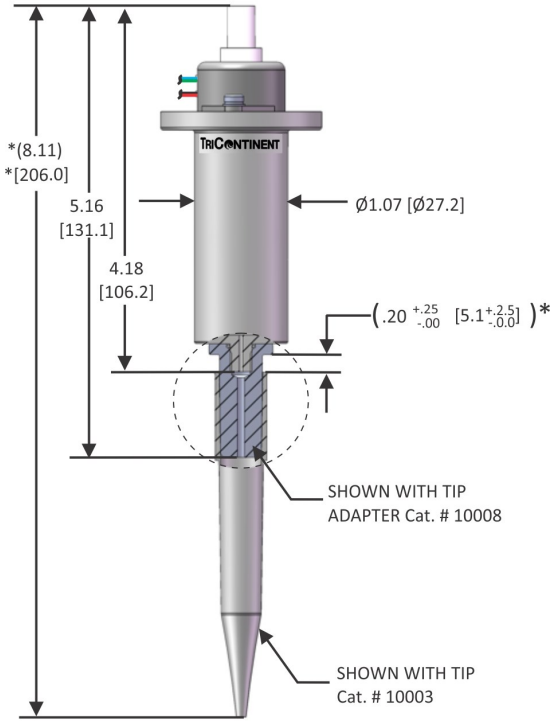
1000 µL, Cat. # 0949



2000 µL, Cat. # 0950



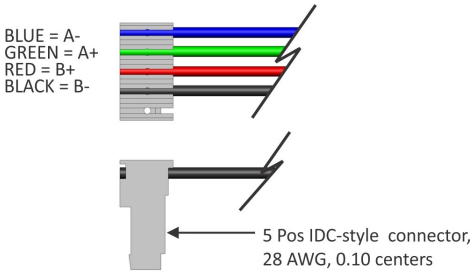
5000 µL, Cat. # 0951



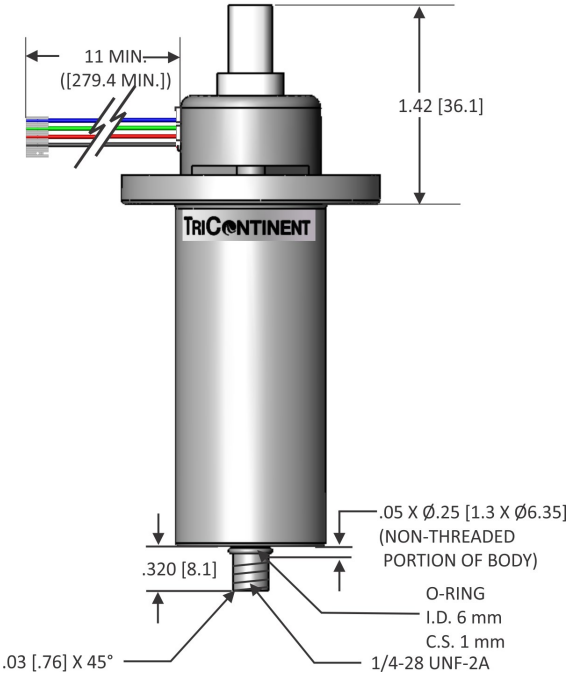
*Note: Each tip is designed to seal within the reference gap dimension shown. Customers should perform their own testing to determine optimum force/location for sealing and tip stripping.

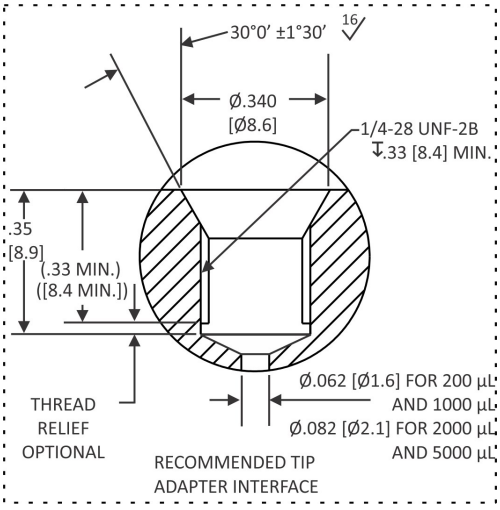
Z-SERIES PUMP INTERFACE DETAILS

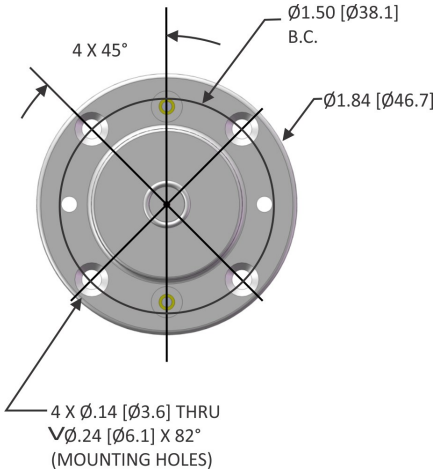
Dimensions/Features noted are typical for any size, Z-Series Pump (5000 µL shown)



WIRE PIN OUT







Note: Dimensions in inches [mm] unless otherwise specified.

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