

Z-Series Pumps with Proximity Sensor

TRICONTINENT
by Gardner Denver

FEATURES

- > Electronic air displacement pipetting modules
- > Exceptional precision and accuracy
- > Integrated homing sensor
- > Interfaces with the M-Series motion controllers

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



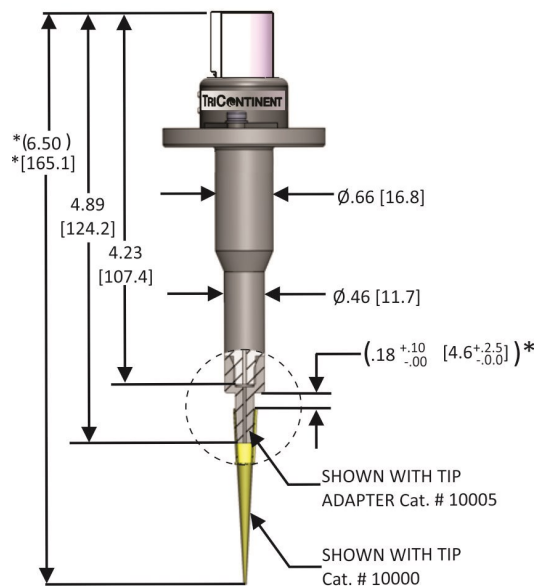
(Shown with optional
Tip Adapter and Tip)

SPECIFICATIONS				
	200 μ L Cat. # 10205	1000 μ L Cat. # 10206	2000 μ L Cat. # 10207	5000 μ L Cat. # 10208
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	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			

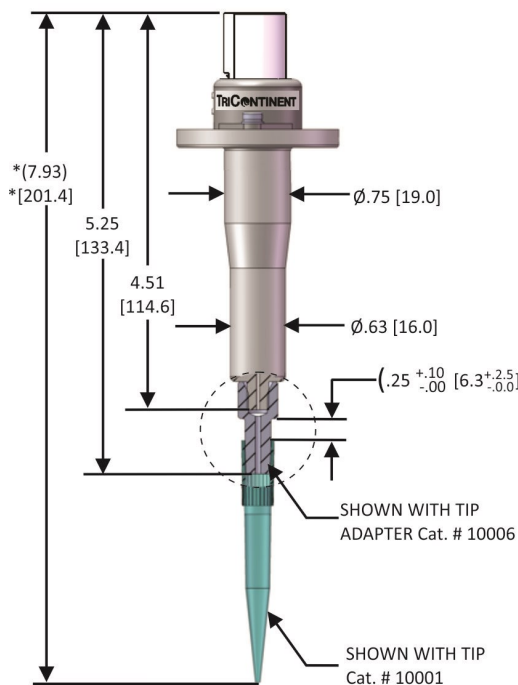
FUNCTIONAL PARAMETERS	
Performance (at full volume) with tip adapter and tip noted above Accuracy within Precision within	$\pm 3\%$ 1%
Motor/Leadscrew Data Travel/Full Step Travel/Half Step Resistance/Phase Inductance/Phase Rated Current Rated Voltage	0.001 in. [0.0254 mm] 0.0005 in. [0.0127 mm] 14.7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

Z-SERIES PUMPS WITH PROXIMITY SENSOR ENVELOPE DRAWING

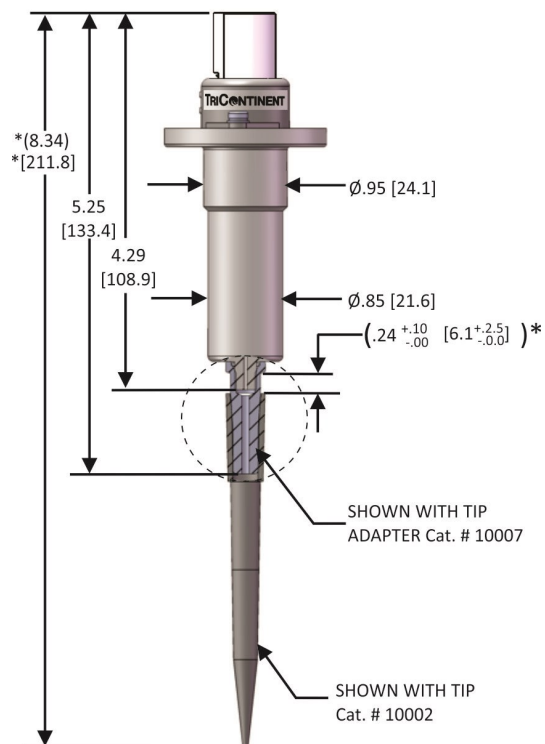
200 µL, Cat. # 10205



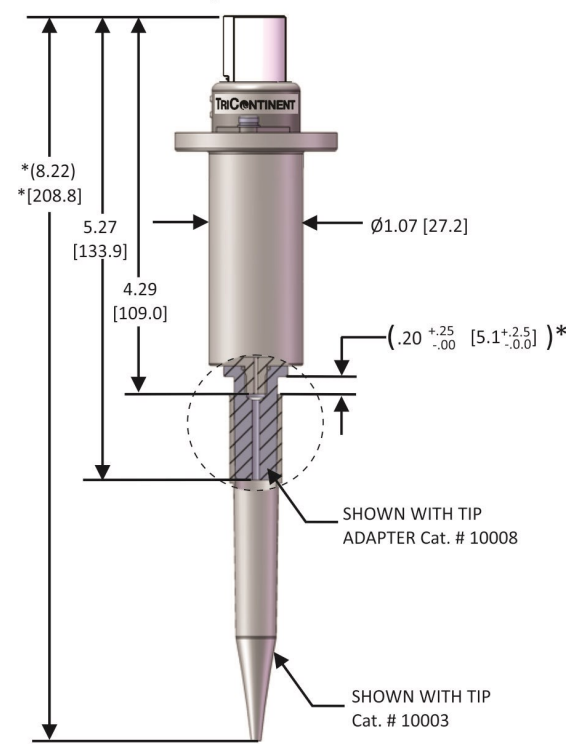
1000 µL, Cat. # 10206



2000 µL, Cat. # 10207

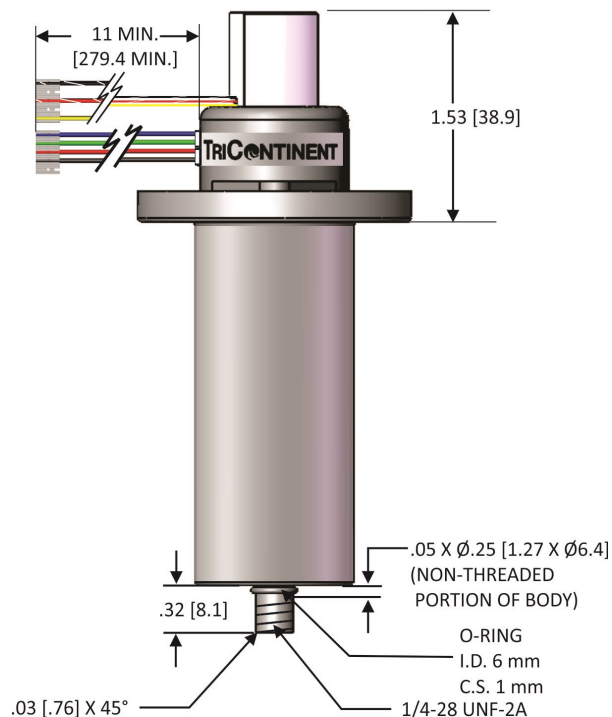


5000 µL, Cat. # 10208



*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.

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



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

AIR DISPLACEMENT PUMP SOLUTIONS FOR OEMS WORLDWIDE

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