




Rheodyne® High Performance Fluidic Platforms

Raising the Bar in Precision Valve Technology



	TitanEX™	TitanHP™	TitanHT™
Pressure Rating	0-125 psi (0-9 bar) 	0-6000 psi (0-414 bar) 	0-15,000 psi (0-1034 bar) 
Available Liquid Ends	<ul style="list-style-type: none"> ▶ 2-position, 6-port ▶ 6-position, 7-port ▶ 10-position, 11-port ▶ 2-position, 6-port, double 3-way ▶ 2-position, 10-port 	<ul style="list-style-type: none"> ▶ 2-position, 6-port (analytical and nano) ▶ 2-position, 10-port (analytical and nano) ▶ vertical port, 2-position, 6-port ▶ 6-position, 7-port 	<ul style="list-style-type: none"> ▶ 2-position, 6-port (analytical and semi-prep) ▶ 2-position, 10-port ▶ 6-position, 7-port selector ▶ 3/7 injector with purge ▶ 10-position, 11-port ▶ 8-position, 4-port
Wetted Materials	RPC-7*	DuraLife®, DuraLife II*, Stainless Steel w/PEEK™, PEEK	DuraLife, UltraLife™*, Stainless Steel w/PEEK, PEEK
Port-to-Port Volume	1.5-32.7 µL	0.28-0.50 µL	0.2-50.9 µL
Flow Passage Diameters	0.016-0.060 in 0.41-1.5 mm	0.004-0.012 in 0.10-0.30 mm	0.006-0.060 in 0.15-1.5 mm
Operating Temperature	0-60 °C	0-60 °C	0-60 °C
Fittings	Rheodyne TitanEX fittingless connections	10-32, M4	10-32, M4, 1/4-28
Replacement Components	Core assembly module (CAM) includes rotor, stator, and driver body	Rapid Replacement Pod™, RheBuild® Kit, replacement stators	Rapid Replacement Pod, RheBuild Kit, replacement stators, rotor seals

* Rheodyne material combinations



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Suggested Applications	Solvent selection, fraction collection, dispensation, process control/monitoring, IVD sample handling and preparation	High-pressure switching, injection, column selection, nano-scale applications, sample clean-up/enrichment, multidimensional chromatography	High-pressure switching, injection, column selection, sample clean-up/enrichment, multidimensional chromatography, and very-high-pressure (VHP) applications, prep to nano-scale applications
Position Capability	Multiposition with random access	Multiposition with random access	Multiposition with random access
Optional Driver Board	Yes	Yes	Yes
Stop-to-Stop Actuation Speed	280 ms	100–280 ms	100-280 ms
Communication Protocols Available	BCD, Level Logic Pulse, Dual Pulse, I ² C, UART	BCD, Level Logic Pulse, Dual Pulse, I ² C, UART	BCD, Level Logic Pulse, Dual Pulse, I ² C, UART
PCB Power Requirements	24V @ 1 amp max	24V @ 1 amp max	Consult factory
Motor Specifications	Spark-free 7.5 degree stepper motor	Spark-free 7.5 degree stepper motor	Spark-free 1.8 degree stepper motor
Overall Dimensions	1.95 x 4.26 x 2.40 in. [49.5 x 108.2 x 61.0 mm]	1.95 x 4.87 x 2.40 in. [49.5 x 123.6 x 61.0 mm]	2.23 x 6.41 x 1.83 in. [56.6 x 162.8 x 46.6 mm]

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