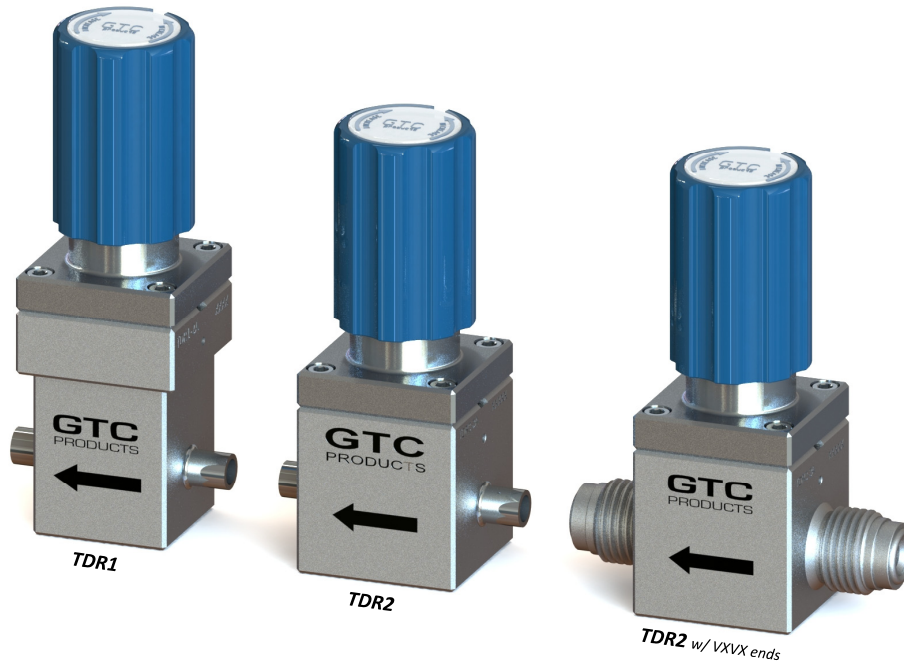


UHP Tied-Diaphragm Pressure Regulators

Miniature Series



GTC Features

- Compact Body with High Flow Capacity
- High Pressure Rated - 1000 psig max inlet
- Tied-Diaphragm yields Positive Shut-Off Feature
- Replaceable Capsule Design for Easy Serviceability

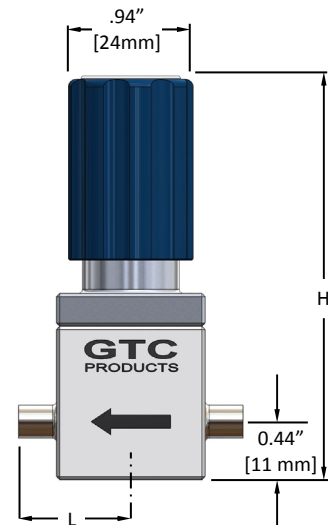
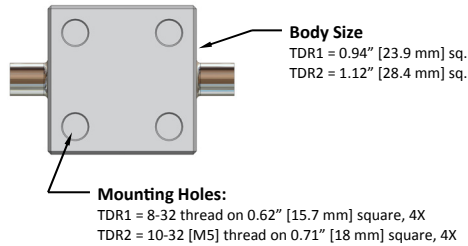
Technical Data

Specification	R103	R106	R110	R115
Outlet Pressure Range	Vac to 30 psig (Vac to 2 bar)	0 to 60 psig (0 to 4 bar)	0 to 100 psig (0 to 7 bar)	0 to 150 psig (0 to 10 bar)
Maximum Inlet Pressure	1000 psig (69 bar)			
Proof / Burst Pressure	150% / 300% of operating pressures			
Flow Coefficient	0.25 Cv comparative performance*			
Operating Temperature	-20° to 160° F			
Supply Pressure Effect	2.5 psig outlet pressure increase per 100 psig inlet pressure decrease			
Helium Leak Rate - Inboard	1 x 10 ⁻⁹ scc/s He			
Wetted Surface	Electropolish 10 Ra Max			
Wetted Surface Body Mat'l	316L VAR Stainless Steel			
Wetted Surface Other Mat'l	Diaphragm: Elgiloy™, Seat: PCTFE (optional Vespel™)			

* Flow Capacity is comparable to other manufacturers Cv of .25. Actual calculated Cv is .06. Refer to flow charts to compare.

Dimensions

Specification	TDR1	TDR2
Overall Height (H)	3.48" [88 mm]	3.05" [77 mm]
Tube Stub Length (L)	0.755" [19.2 mm]	0.845" [21.5 mm]
Welded Face Seal Length (L)	1.35" [34.3 mm]	1.44" [36.6 mm]
Integral Male Face Seal Length(L)	n/a	1.15" [36.6 mm]



Ordering Information: R110-TDR2-2A-TXTX-VS

Outlet Pressure Range

- R103 - Vac to 30 psig
- R106 - 0 to 60 psig
- R110 - 0 to 100 psig
- R115 - 0 to 150 psig

Body Series

- TDR1 - MicroBlok Series
- TDR2 - Miniature Series

1 2 3 4
Ports

Options

VS - Vespel™ Seat

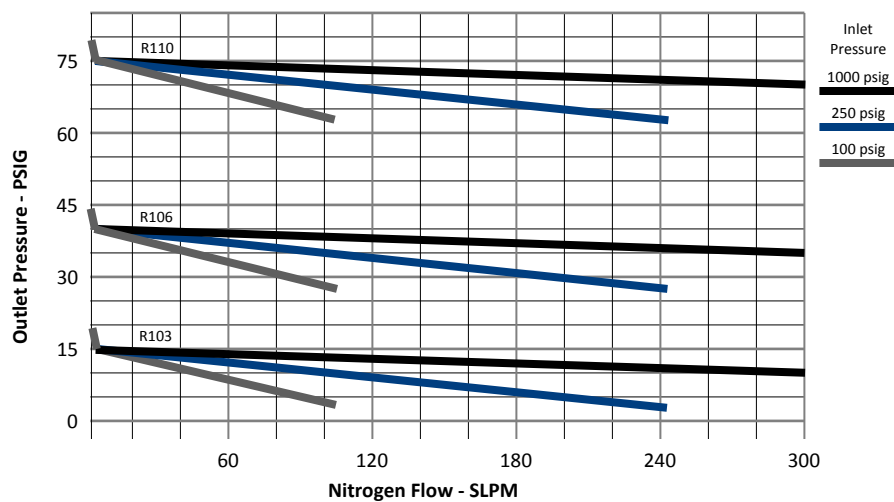
TDR1/TDR2 Connections

- X - (No port)
- T - 1/4" Tube Stub
- 6 - 3/8" Tube Stub
- M - 1/4" Swivel Male Face Seal
- F - 1/4" Female Face Seal
- V - 1/4" Integral Male Face Seal

Porting

2A - 2 port, Inline

Flow Chart



GTC PRODUCTS

www.gtc-products.com