

# UHP Pressure Regulators

*Miniature and Standard Series*



## GTC Features

- Metal Non-Tied Diaphragm Type
- High Flow Capacity
- Multiple Outlet Pressure Ranges; 30, 60, 100, and 150 psig

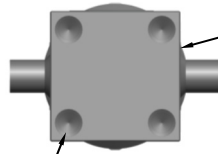
## Technical Data

Specification	R103	R106	R110	R115
Outlet Pressure Range	0 to 30 psig (0 to 2 bar)	5 to 60 psig (.3 to 4 bar)	20 to 100 psig (1.4 to 7 bar)	20 to 150 psig (1.4 to 10 bar)
Maximum Inlet Pressure	250 psig (17 bar)			
Proof / Burst Pressure	150% / 300% of operating pressures			
Flow Coefficient	0.25 Cv comparative performance*			
Operating Temperature	-20° to 150° F (-29° to 66° C)			
Helium Leak Rate - Inboard	1 x 10 <sup>-9</sup> scc/s He			
Wetted Surface Roughness	10 Ra Max			
Wetted Surface Chemistry	Cr/Fe ≥ 1.5, CrO/FeO ≥ 2.0			
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

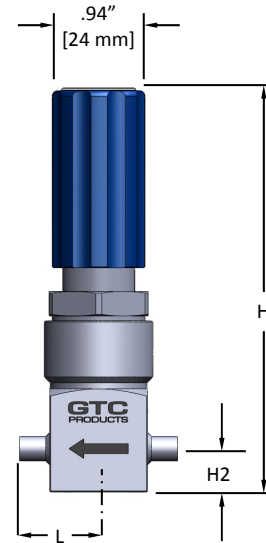
Specification	DR1	DR2
Overall Height (H)	4.04" [103 mm]	4.28" [109 mm]
Tube Stub Height (H2)	0.20" [5.1 mm]	0.44" [11.1 mm]
Tube Stub Length (L)	0.705" [17.9 mm]	0.80" [20.3 mm]
Welded Face Seal Length (L)	1.30" [33 mm]	1.39" [35 mm]



**Body Size**  
 DR1 = 0.87" [22.1 mm] sq.  
 DR2 = 0.99" [25.1 mm] sq.

**Mounting Holes:**

DR1 = 8-32 thread on 0.60" [15.2 mm] square, 4X  
 DR2 = 10-32 [M5] thread on 0.71" [18 mm] square, 4X



## Ordering Information: R110-DR2-2A-TXTX-VS

### Outlet Pressure Range

- R103** - 0 to 30 psig
- R106** - 5 to 60 psig
- R110** - 20 to 100 psig
- R115** - 20 to 150 psig

### Body Series

- DR1** - Miniature Series
- DR2** - Standard Series

1 2 3 4  
 Ports

### Options

**VS** - Vespel™ Seat

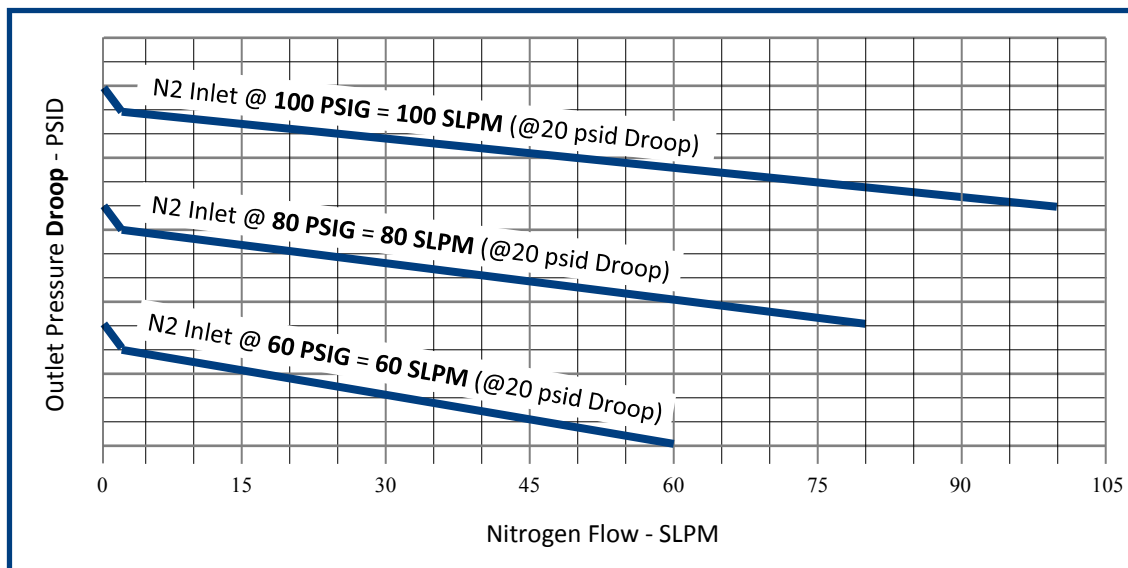
### DR1/DR2 Connections

- X** - (No port)
- T** - 1/4" Tube Stub
- M** - 1/4" Male Face Seal
- F** - 1/4" Female Face Seal

### Porting

**2A** - 2 port, Inline

## Flow Chart



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