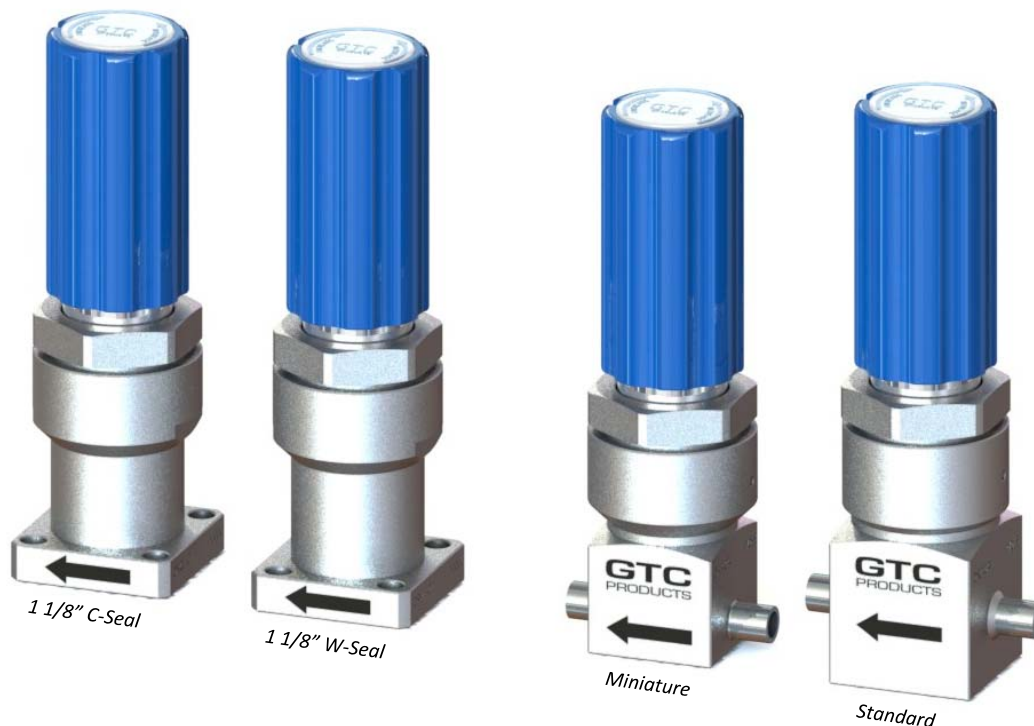


UHP Pressure Regulators

Surface Mount, Miniature, and Standard Series



GTC Features

- Metal Diaphragm Type
- High Flow Capacity
- Multiple Outlet Pressure Ranges; 30, 60, 100, and 150 psig
- Three Body Types; Surface Mount C-Seal (DRC1 & DRW1), Miniature (DR1), and Standard (DR2)

Technical Data

Specification	R103	R106	R110	R115
Outlet Pressure Range	Vac to 30 psig (-.7 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	500 / 1000 psig (34 / 69 bar)			
Flow Coefficient	0.25 Cv comparative performance*			
Operating Temperature	-20° to 150° F (-29° to 66° C)			
Helium Leak Rate - Inboard	1 x 10 ⁻⁹ scc/s He			
Wetted Surface Roughness	< 10 Ra Average			
Wetted Surface Chemistry	Cr/Fe ≥ 2.0, CrO/FeO ≥ 3.0			
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

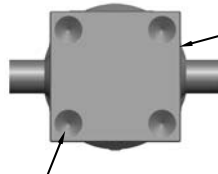
Specification	DRC1	DRW1	DR1	DR2
Overall Height (H)	4.04" [103 mm]	4.14" [105 mm]	4.04" [103 mm]	4.28" [109 mm]
Tube Stub Height (H2)	-	-	0.20" [5.1 mm]	0.44" [11.1 mm]
Tube Stub Length (L)	-	-	0.705" [17.9 mm]	0.80" [20.3 mm]
Welded Face Seal Length (L)	-	-	1.30" [33 mm]	1.39" [35 mm]



C-Seal DRC1
1.12" [28.5 mm] sq.

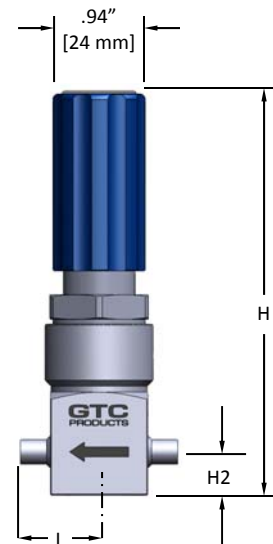


W-Seal DRW1
1.12" [28.5 mm] sq.



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 - Vac 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
- DRC1 - Surface Mount, 1 1/8" C-Seal
- DRW1 - Surface Mount, 1 1/8" W-Seal

1 2 3 4
Ports

Options

VS - Vespel™ Seat

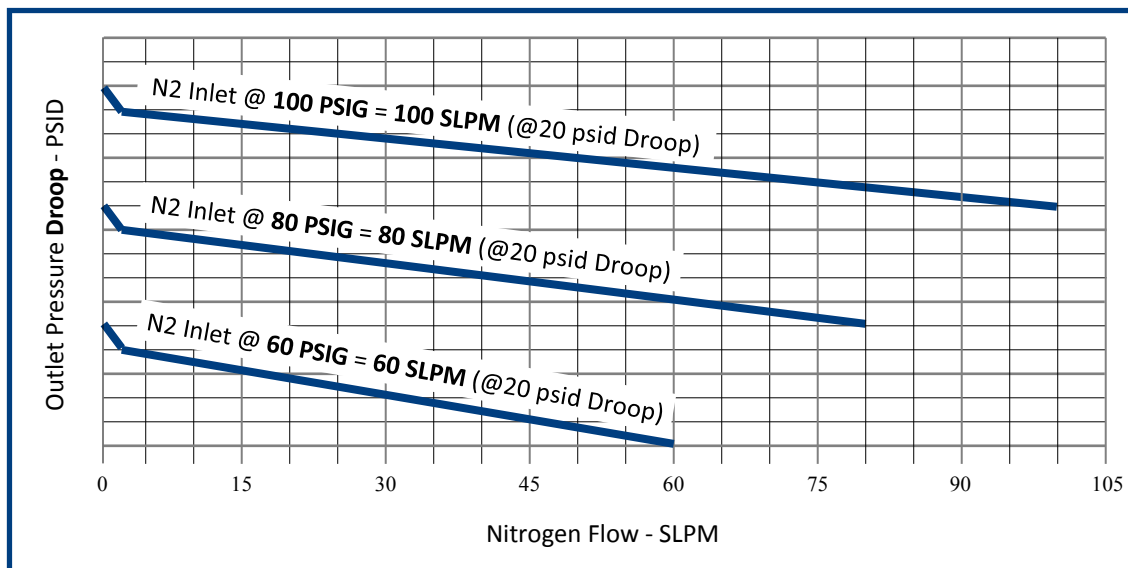
DR1/DR2 Connections

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

Porting

- 2A - for DR1 and DR2 Series
- 01 - for DRC1 and DRW1 Series

Flow Chart



GTC PRODUCTS
www.gtc-products.com

TEESING