

HIGH PURITY INLINE GAS VALVES

20,000 SERIES

0 to 350 PSIG



APPLICATIONS

- Point-of-Use Services or High Purity Gases
- High Purity Gas Bulk Distribution Systems
- Bulk Gas Filtration & Regulator Skids



FEATURES

- Electro-polished Wetted Surface 10-15 RA
- Tube Extensions supplied with Heat Number & Material Test Reports (MTR)
- Tested Bellow Seal Design for Proven Cycle Life
- Low Profile Design
- 1/4" Purge Connections are Face Seal Male (Standard)
- All Valves are Serialized for Traceability
- Cleaned for High Purity Gas Service
- Double Bagged Package



OPTIONS

- Cold Box Cuff
- Bonnet Flange Purge (Overseat)
- Down Stream 1/4" MNPT Purge
- Control Tips
- Instrumentation and Accessories



OPERATING RANGES

Temperature..... -22° F to +180° F
 (-30°C to +82°C)

Max. Operating Pressure 350 PSIG



TECHNICAL DATA

All Major Structural Components are 300 Series Stainless Steel

Materials of Construction:

All Wetted Material 316L Stainless Steel
 Seat Material Kel-F
 Bonnet Seal Nickel
 Handwheel Anodized Aluminum

Testing:

Seat Leakage Rated 1x10⁻⁹scc GHe/sec
 Excluding Permeation of
 Kel-F Standard
 Production 1x10⁻⁹
 GHe/sec

Helium Leak Test Performed with 100% Helium

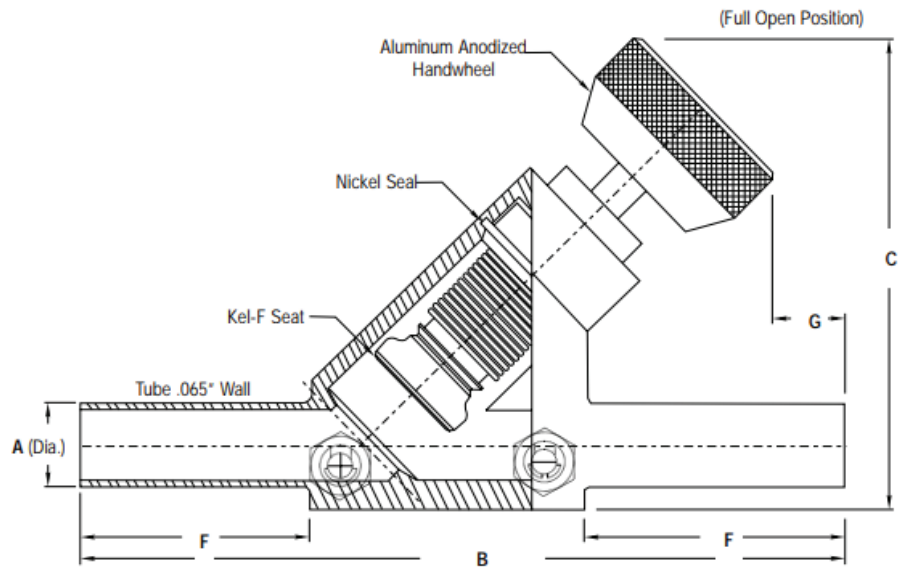
Proof Pressure 385 PSIG

External Leakage 1x10⁻⁹scc GHe/sec

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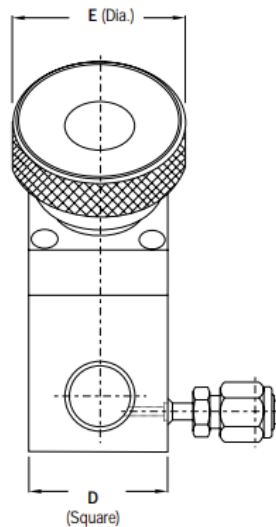


DIMENSIONS & SPECIFICATIONS



DIMENSIONS

A	B	C	E	F	G
0.75"	10.5"	6.25"	2.0"	3.50"	1.00"
1.00"	10.5"	6.25"	2.0"	3.50"	1.00"
1.50"	11.0"	6.25"	2.0"	3.75"	1.25"
1.50"	12.5"	6.50"	2.5"	4.00"	2.00"
2.00"	12.5"	6.50"	2.5"	4.00"	2.00"



PART NUMBER, Cv AND WEIGHTS

Valve Size	Assembly Part Number	Seat Size	Calculated Flow Cv	Actual Test Results				Weight Approx.
				Full Open	Extracted Seat			
				Liq. Cv	Gas Cv	Liq. Cv	Gas Cv	
3/4"	13439	1.125"	10	-	-	-	-	6.0 lbs
1"	13442	1.125"	17	25.2	27.97	42.4	38.53	6.0 lbs
1-1/2"	13445	1.125"	21	-	-	-	-	6.0 lbs
1-1/2"	13448	1.562"	66	40.4	49.16	49.16	74.14	9.0 lbs
2"	13451	1.562"	79	-	-	-	-	9.0 lbs

Please consult your Distributor, Representative or our factory for information on special connections, alternate materials and larger sizes.