



20,000 Series

0 - 350 PSIG



HIGH PURITY INLINE GAS VALVES

Features

- Electropolished 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

Applications

- Point-Of-Use Services for High Purity Gases
- High Purity Gas Bulk Distribution Systems
- Bulk Gas Filtration & Regulator Skids

Options

- Colored Handwheels
- SEM & ESCA Testing and Auger Analysis Available for Tube Extensions
- Available with Specified Purge Valves Installed
- Air Actuated

Technical Data

Operating Ranges

Temperatures-22°F to +180°F
-30°C to +82°C

Operating Pressures up to 350 PSIG

Size Range3/4" to 2" ODT

Tests

Seat LeakageRated
1 x 10⁻¹⁰scc GHe/sec
Excluding Permeation of
Kel-F Standard Production
1 x 10⁻⁹scc GHe/sec

Helium Leak Test Performed with 100% Helium

Proof Pressure385 PSIG

External Leakage 1 x 10⁻⁹scc GHe/sec

Materials

All Wetted Material.....316L Stainless Steel

Seat MaterialKel-F

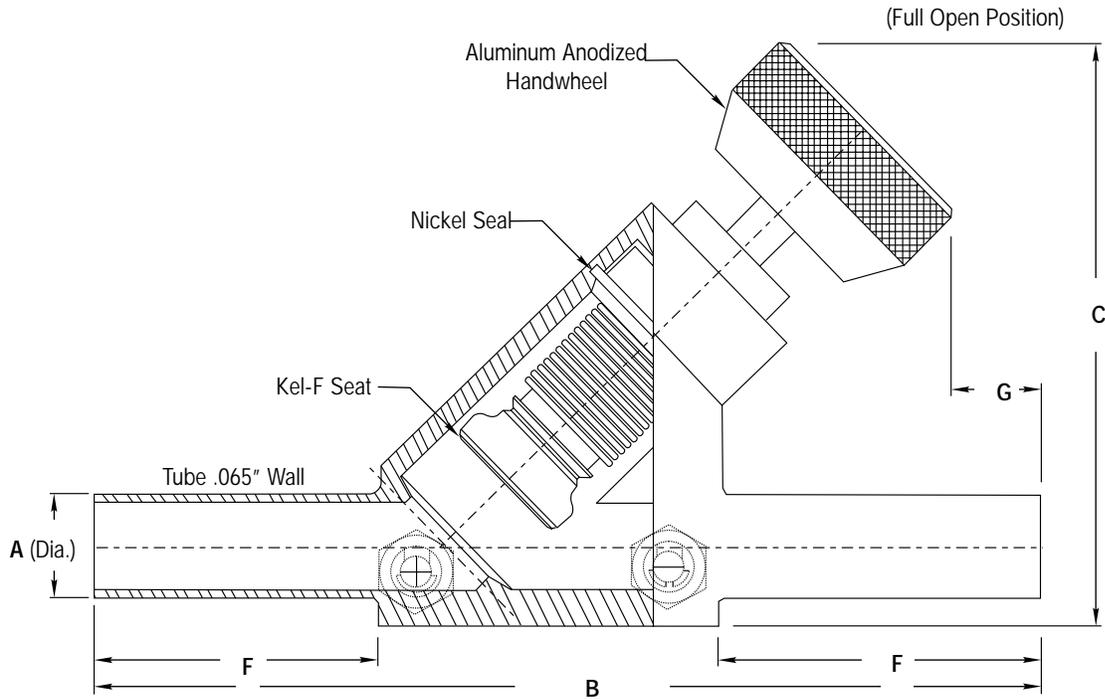
Bonnet SealNickel

Hand WheelAnodized Aluminum

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Dimensions & Specifications

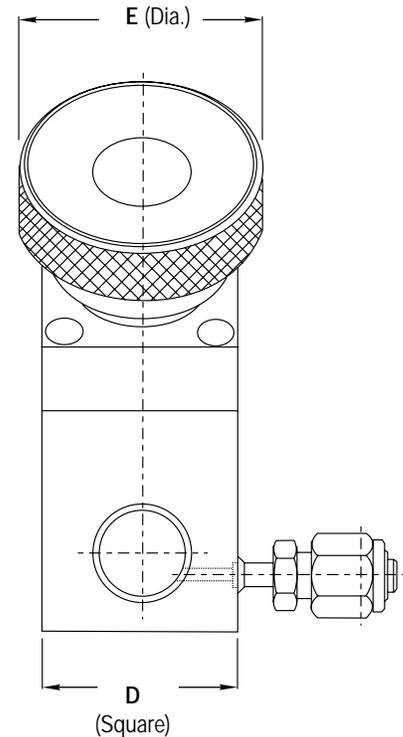


DIMENSIONS

A	B	C	D	E	F	G
0.75"	10.5"	6.25"	2.0"	2.5"	3.50"	1.00"
1.00"	10.5"	6.25"	2.0"	2.5"	3.50"	1.00"
1.50"	11.0"	6.25"	2.0"	2.5"	3.75"	1.25"
1.50"	12.5"	6.50"	2.5"	3.0"	4.00"	2.00"
2.00"	12.5"	6.50"	2.5"	3.0"	4.00"	2.00"

PART NUMBERS, C_v AND WEIGHTS

Valve Size	Assembly Part Number	Seat Size	Calculated Flow C _v	Actual Test Results				Weight Approx.
				Full Open		Extracted Seat		
				Liq. C _v	Gas C _v	Liq. C _v	Gas C _v	
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	84.9	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.