

# 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 Aluminium

#### Testing:

Seat Leakage ..... Rated  $1 \times 10^{-9}$  scc GHe/sec  
Excluding Permeation of  
Kel-F Standard  
Production  $1 \times 10^{-9}$   
GHe/sec

Helium Leak Test Performed with 100% Helium

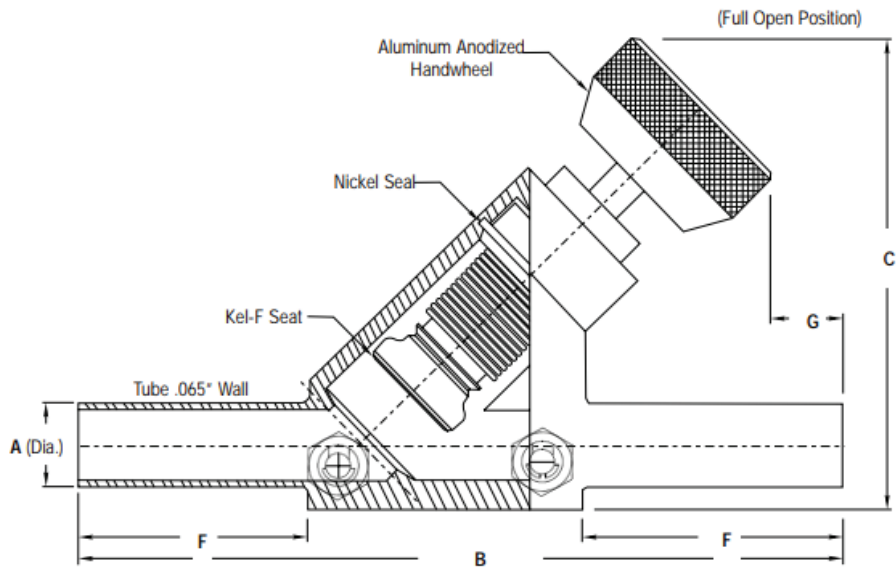
Proof Pressure ..... 385 PSIG

External Leakage  $1 \times 10^{-9}$  scc GHe/sec

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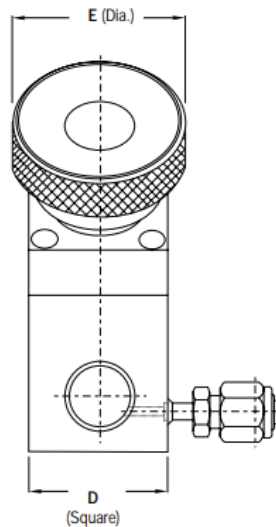


## DIMENSIONS & SPECIFICATIONS



### 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.