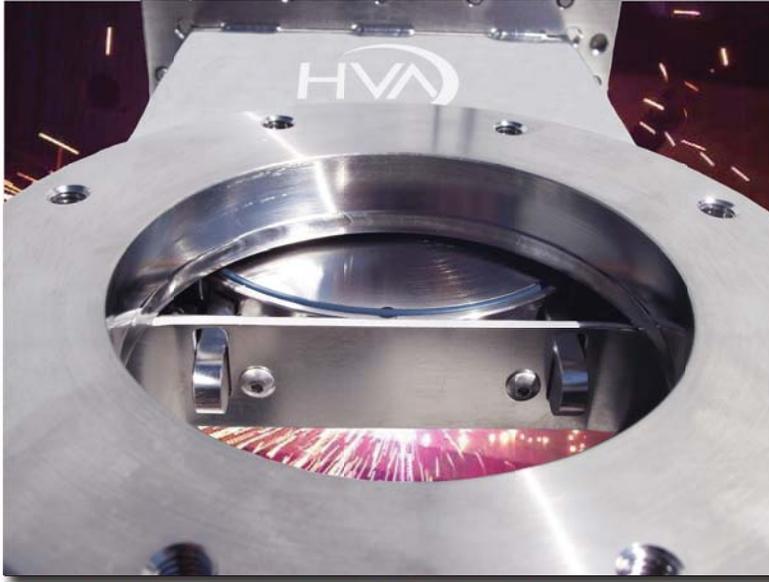




High Vacuum Valves
Leader in Quality and Value

16000 Series Shielded Gate Valve

The HVA 16000 Series Shielded Gate Valve features a travelling shield that moves with the gate to protect it from debris.



These valves are used in extremely aggressive applications where reoccurring down time is not an option.

The Shield greatly reduces particulate migration and prolongs the sealing integrity of the gate O-ring.

The body material is 304 stainless steel, which can be changed to other high-temp, non-corrosive materials for exceptionally aggressive applications. Alternative elastomer O-rings are also available.

Protective Shield - Guards critical internal components



Contamination Free - PTFE wiper removes particulates

High Temperature Components - High-temp options rated up to 250°C

Heater Jackets - For valve body and flanges

Aggressive Applications - Designed for use in harsh environments



Ordering Guides

Pneumatic with Viton Bonnet

DN mm inch	Model number KF / ISO-K	Model number ISO-F	Model number CF-F*
40 1.5	16212-0153R	-	16212-0150R
50 2.0	16212-0203R	-	16212-0200R
63 2.5	16212-0256R	16212-0253R	16212-0250R
80 3.0	16212-0306R	16212-0303R	16212-0300R
100 4.0	1612-0406R	16212-0403R	16212-0400R
160 6.0	16212-0606R	16212-0603R	16212-0600R
200 8.0	16212-0806R	16212-0803R	16212-0800R
250 10.0	Recommend ISO-F	16212-1003R	16212-1000R
320 12.0	Recommend ISO-F	16212-1203R	16212-1200R

Includes 120V AC Solenoid. For 24V DC solenoid change to: 1621[1]-
*For Metric CF change last '0' to '4'

Manual with Viton Bonnet

DN mm inch	Model number KF / ISO-K	Model number ISO-F	Model number CF-F*
40 1.5	16110-0153	-	16110-0150
50 2.0	16110-0203	-	16110-0200
63 2.5	16110-0256	16110-0253	16110-0250
80 3.0	16110-0306	16110-0303	16110-0300
100 4.0	16110-0406	16110-0403	16110-0400
160 6.0	16110-0606	16110-0603	16110-0600
200 8.0	16110-0806	16110-0803	16110-0800
250 10.0	Recommend ISO-F	16110-1003	16110-1000
320 12.0	Recommend ISO-F	16110-1203	16110-1200

Includes 120V AC Solenoid. For 24V DC solenoid change to: 1621[1]-
*For Metric CF change last '0' to '4'

Options: Custom flanges, roughing ports, gauge ports, heater jackets, high temperature components including O-rings, microswitches, and actuator

16000 Series Standard Technical Specifications

Materials

Valve body and gate 304 stainless steel
Welded bellows shaft seal AM-350

Bonnet / gate seals

HV Viton® elastomer

Vacuum

Pressure Range HV 1×10^{-9} mbar
Helium leak rate $< 2 \times 10^{-9}$ mbar l/s
Differential pressure closed 1 bar in either direction
Maximum Δ pressure before opening ≤ 30 mbar

Bakeout Temperature

Standard without solenoid 150°C
Optional 250°C

Actuator

Manual 60°C
Pneumatic 60°C

Mechanism

Pneumatic air service 80 psig
Solenoid 4.0 Watts
supplied voltage 120V AC, 50/60 Hz

Position indicator, max 115 VAC or 28 VDC, 20 mA

Mounting Position

any

Cycles Until Service

100,000 cycles
dependent on process

