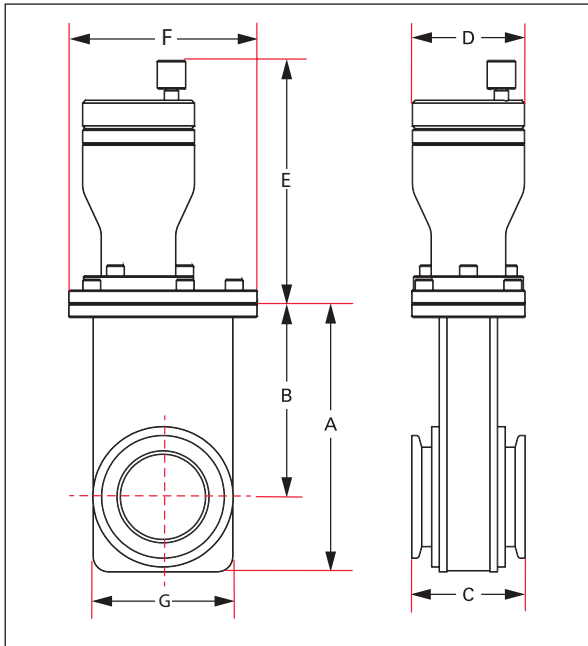


GV series manual isolation linear gate valve

DN 16 ISO-KF to DN 50 ISO-KF



- Isolation valve intended for use in HV applications
- Ultra-slim profile
- Smaller volume results in lower outgassing and faster pumpdown
- 304SS bodies are vacuum furnace brazed to 1100 °C at 10⁻⁶ mbar prior to being electropolished inside and out
- Welded AM-350 bellows with short stroke for longer cycle life
- Can be installed and operated in any orientation
- Carriage assembly and actuator can be removed for inspection and maintenance without disassembling the system
- Service life of 100,000 operating cycles
- Additional o-ring compounds available
- Heaters and insulators available

Dimensions Key	DN 16 ISO-KF	DN 40 ISO-KF	DN 50 ISO-KF
A	61 mm	119 mm	142 mm
B	44 mm	86 mm	105 mm
C	75.2 mm	50.6 mm	50.6 mm
D	38 mm	50 mm	50 mm
E	46 mm	92 mm	92 mm
F	48 mm	84 mm	97 mm
G	33 mm	62 mm	75 mm



Order number valves

Description	DN 16 ISO-KF	DN 40 ISO-KF	DN 50 ISO-KF
Isolation gate valve	GV-S02100	GV-S04100	GV-S05100

O-ring compound options

Compound	Min./Max temp. range
FKM (standard)	-29°C to 204°C
Kalrez	-50°C to 316°C
Chemraz	-30°C to 210°C
Silicone	-50°C to 232°C

GV series manual isolation linear gate valve

DN 16 ISO-KF to DN 50 ISO-KF

Technical data	DN 16 ISO-KF	DN 40 ISO-KF	DN 50 ISO-KF
Maximum pressure before opening:	20 mbar	20 mbar	20 mbar
Differential pressure:	1 bar	1 bar	1 bar
Vacuum range:	1000 - 10 ⁻⁹ mbar	1000 - 10 ⁻⁹ mbar	1000 - 10 ⁻⁹ mbar
Helium leak rate	≤ 2 · 10 ⁻⁹ mbar l/s	≤ 2 · 10 ⁻⁹ mbar l/s	≤ 2 · 10 ⁻⁹ mbar l/s
Conductance for molecular flow:	12 l/s	98 l/s	316 l/s
Weight:	1 kg	5 kg	6 kg
Maximum temp with FKM seals*			
Sustained:	≤150 °C	≤150 °C	≤150 °C
Bakeout temperature*			
Actuator:	60 °C	60 °C	60 °C
Housing:	150 °C	150 °C	150 °C
Seal*			
Gate seal:	FKM	FKM	FKM
Bonnet seal:	FKM	FKM	FKM

*FKM o-rings standard. See o-ring compound options

Order number kits

Description	DN 16 ISO-KF	DN 40 ISO-KF	DN 50 ISO-KF
Seal kit	GV-062-95	GV-150-95	GV-200-95
Bellows kit	GV-062-16	GV-150-16	GV-200-16