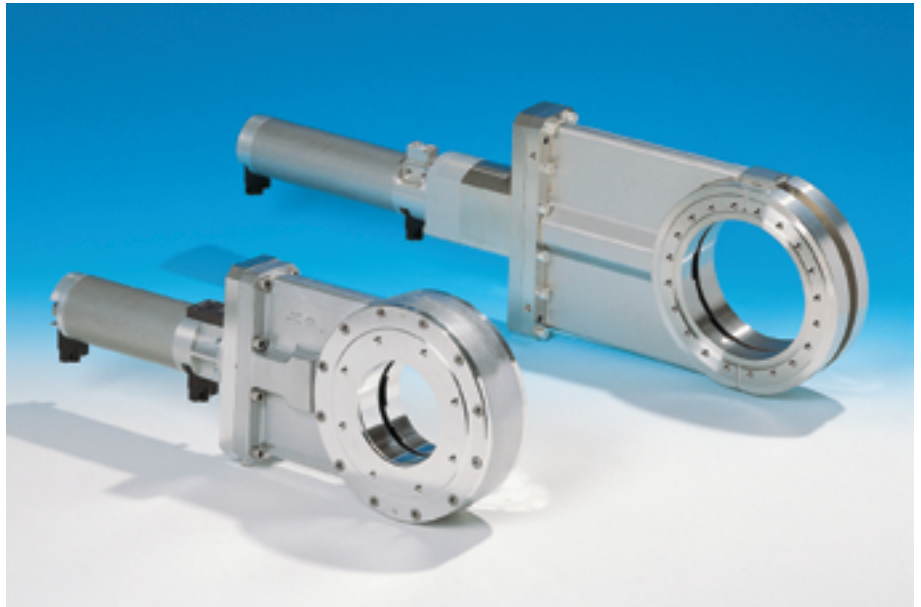


For vacuum systems requiring extremely low particle count and low shock

High cycle life

Design variations:  
depending on specification of system –  
vacuum, HV, UHV



## Body material

aluminum or stainless steel

## Nominal diameters

DN 63 - 160 (2½" - 6") aluminum

DN 63 - 250 (2½" - 10") stainless steel

## Actuator

Double acting pneumatic cylinder

## Flanges

ISO-F, JIS, ASA-LP (aluminum body)

CF-F, ISO-F (stainless steel body)

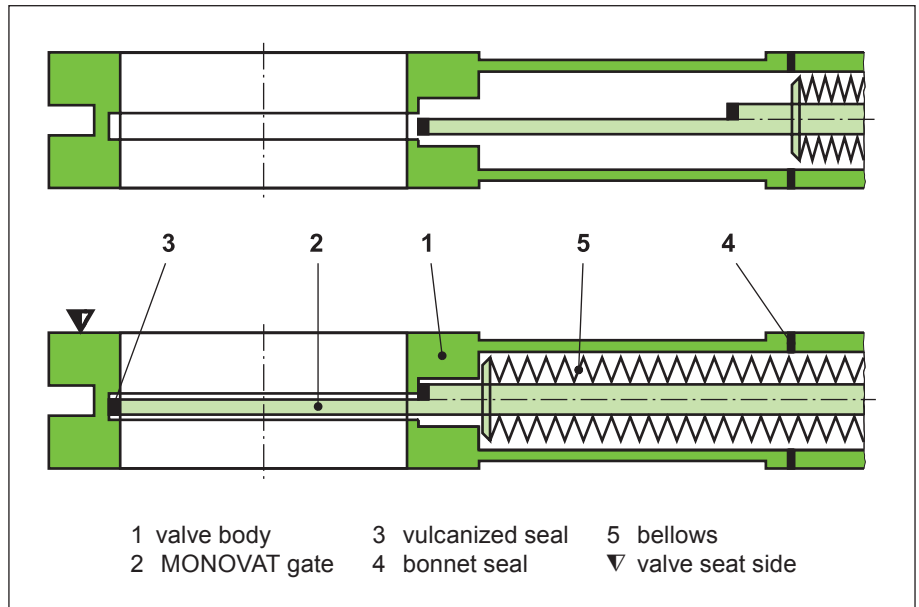
## Options

### Actuator:

- Solenoid
- Position indicator

### Valve:

- Aluminum: hard anodized
- Sealing material: Chemraz, EPDM, FPM
- Flange: customer specified
- Customer specified solutions



## Features

- Guidance of the gate outside the vacuum
- Vulcanized seal on valve gate (see glossary)
- Small flange-to-flange dimension

## Technical data

Vacuum level	Vacuum	HV	UHV
Series	15.0	15.1	15.2
Seal type / feedthrough	FKM (VITON)	FKM (VITON)	metal
Body material	aluminum	aluminum	stainless steel
Gate seal	FKM (VITON)	FKM (VITON)	FKM (VITON)
Bonnet seal	FKM (VITON)	FKM (VITON)	metal
Feedthrough	shaft feedthrough	bellows	bellows
Temperature <sup>1)</sup>			
- Valve open	≤ 150°C	≤ 150°C	≤ 250°C
- Valve closed	≤ 150°C	≤ 150°C	≤ 200°C
Cycle life	500 000	500 000	500 000
Leak rate	mbar ls <sup>-1</sup>	mbar ls <sup>-1</sup>	mbar ls <sup>-1</sup>
- Body	< 1 · 10 <sup>-9</sup>	< 1 · 10 <sup>-9</sup>	< 5 · 10 <sup>-10</sup>
- Valve seat	< 1 · 10 <sup>-9</sup>	< 1 · 10 <sup>-9</sup>	< 1 · 10 <sup>-9</sup>
Pressure range	1 · 10 <sup>-7</sup> mbar to 1 bar (abs)	1 · 10 <sup>-8</sup> mbar to 1 bar (abs)	1 · 10 <sup>-10</sup> mbar to 1 bar (abs)
Differential pressure at opening	≤ 30 mbar <sup>2)</sup>	≤ 30 mbar <sup>2)</sup>	≤ 30 mbar <sup>2)</sup>

<sup>1)</sup> Maximum values: depending on operating conditions and sealing materials

<sup>2)</sup> at 1 bar increased particle generation and reduced cycle life