

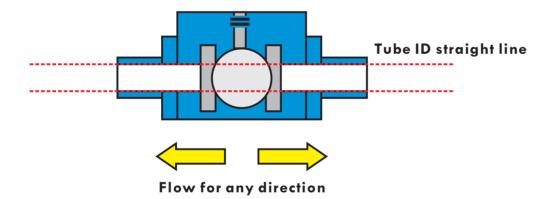
Product Information

Vacuum Ball Valves are ideal for high and coarse vacuum applications, one of which is the exhaust section of a system where it's designed to protect against harsh processes involving particles or even powder. The valve's main body is manufactured from a single billet of stainless steel, whereas the inlet and outlet sections are manufactured from forged metal.

Vacuum Valves Vacuum Ball Valves are ideal for high-chemical or high-temperature environments since they are manufactured using high-grade SS 316L or SS 316Ti materials. Optional materials for the gate seal are also available including FKM, FFKM and Teflon.

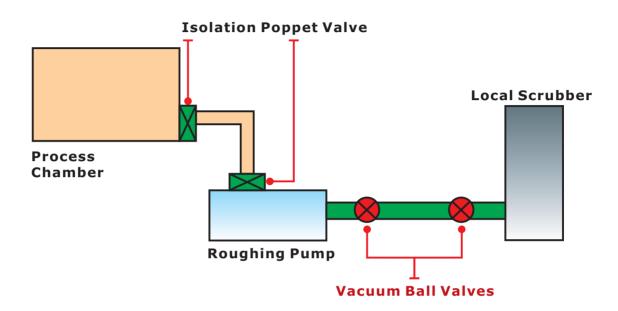
Product Features

- Ideal for high or coarse vacuum.
- Available in a range of sizes from KF16 to KF50.
- Can protect systems from harsh environments.
- Simple valve body design with three casting pieces.
- Option for high-chemical resistance.



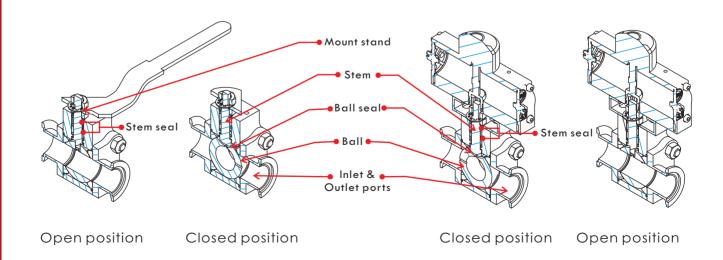
Product's Application _____

Layout for Process System Vacuum Ball Valves are positioned within the Scrubber Line



Vacuum Valves

Valve's Operation Concept



Technical Data_____

Technical Data for Vacuum Ball Valve

Medium Vacuum				
FKM o-ring				
PTFE packing				
FKM				
4,500 Torr∼ 1x10 ⁻⁵ Torr				
6,000 mbar~ 1.33x10 ⁻⁵ mbar				
600 kpa∼ 1.33x10 ⁻⁶ kpa				
1x10 ⁻⁸ Torr l/s, He				
1.33x10 ⁻⁸ mbar l/s, He				
1.33x10 ⁻⁹ kpa l/s, He				
>30,000 Cycles				
200°C (392°F) Open and Close				
150°C				
302°F				
80°C				
176°F				
100°C (212°F) for FKM gate seal				
Casting SS316L				
SS316L				
Pneumatic version = Aluminum				
Manual version = SS304L Handle with plastic cover				
Any				

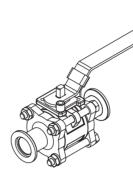
Valve operation data

Pneumatic operating pressure	4 bar~8 bar
	400 kPa~800 kPa
	58 psi~116 psi
Position indicator (included as	Integrated visual indicator
standard for pneumatic version)	
Solenoid (optional)	Optional for 24V DC, standard
Failure protection (included as	Integrated handle hook with manual version
standard)	(Open/ Closed position locked)

Valve's Performance data	KF16	KF25	KF40	KF50		
Maximum differential pressure	4,500 Torr					
against gate	6,000 mbar					
	600 kpa					
Maximum differential pressure	4,500 Torr					
at opening	6,000 mbar					
	600kpa					
Pneumatic valve open / close time	2(s)	3(s)	3(s)	4(s)		
Valve's conductance inline type	5(l/s)	12(l/s)	33(l/s)	54(l/s)		
(Molecular flow)	5(1/3)	12(1/3)	33(1/3)	37(1/3)		

Vacuum Valves

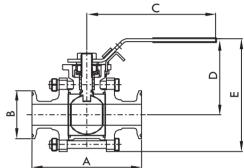
Product Order Information _____



Vacuum Valves

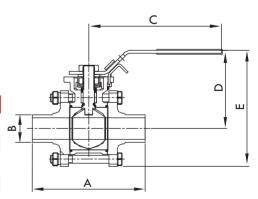
Manual Casting Ball Valves, SUS316L, KF Flange

Part Number	Tube OD	Α	В	С	D	E
MBV-CT-KF-16	3/4"	110	30	138	70	98
MBV-CT-KF-25	1"	123	40	138	79	108
MBV-CT-KF-40	1 ½"	148	55	191	97	137
MBV-CT-KF-50	2"	166	75	191	107	154



Manual Casting Ball Valves, SUS316L, Tube Ends

3		,				
Part Number	Tube OD	Α	В	С	D	E
MBV-CT-075	3/4"	103	19	138	70	98
MBV-CT-100	1"	115	25	138	79	108
MBV-CT-150	1 ½"	140	38	191	97	137
MBV-CT-200	2"	158	51	191	107	154

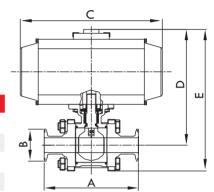


Product Order Information _____

Vacuum Valves

Pneumatic Casting Ball Valves, SUS316L

Part Number	Tube OD	Α	В	С	D	E
PBV-CT-KF-16	3/4"	110	30	147	136	164
PBV-CT-KF-25	1"	123	40	147	145	174
PBV-CT-KF-40	1 1/2"	148	55	168	173	213
PBV-CT-KF-50	2"	166	75	184	195	243



Pneumatic Casting Ball Valves, SUS316L

Part Number	Tube OD	Α	В	С	D	Ε
PBV-CT-075	3/4"	103	19	147	136	164
PBV-CT-100	1"	115	25	147	145	174
PBV-CT-150	1 1/2"	140	38	168	173	213
PBV-CT-200	2"	158	51	184	195	243

