

Vacuum Ball Valves

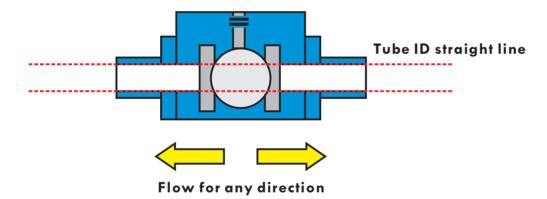
Product Information

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.

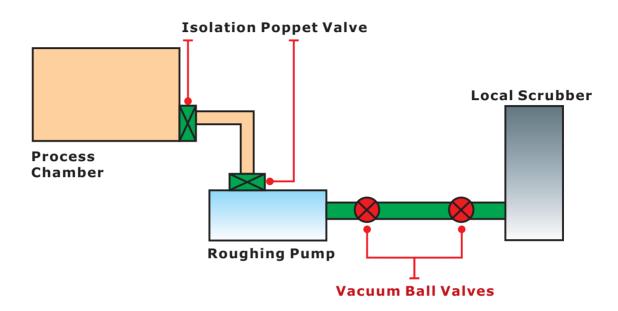
Product Features

- 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.



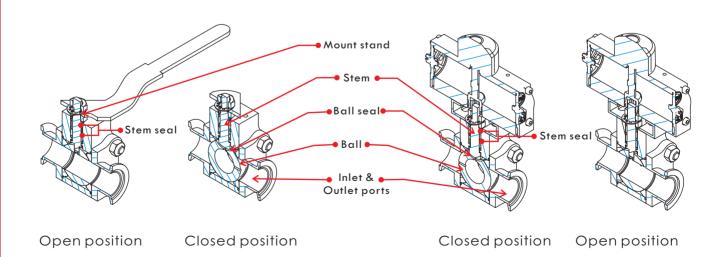
Product's Application _____

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
Feedthrough	FKM o-ring
Gate seal	PTFE packing
Bonnet seal	FKM
Operate pressure range	4,500 Torr∼ 1x10 ⁻⁵ Torr
	6,000 mbar~ 1.33x10 ⁻⁵ mbar
	600 kpa∼ 1.33x10 ⁻⁶ kpa
Leak rate	1x10 ⁻⁸ Torr l/s, He
	1.33×10^{-8} mbar l/s, He
	1.33x10 ⁻⁹ kpa l/s, He
Cycle life	>30,000 Cycles
Temperature for valve body	200°C (392°F) Open and Close
Temperature for actuator	150°C
	302°F
Temperature for solenoid /	80°C
position indicator	176°F
Bake temperature	100°C (212°F) for FKM gate seal
Valve body material	Casting SS316L
Mechanism material	SS316L
Actuator material	Pneumatic version = Aluminum
	Manual version = SS304L Handle with plastic cover
Mounting position	Any

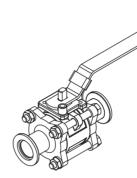
Valve operation data

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)	3(1/3)	12(1/3)	33(1/3)	34(1/3)		

Vacuum Valves

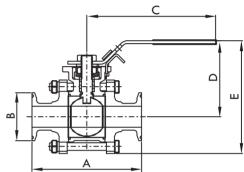
Product Order Information _____



Vacuum Valves

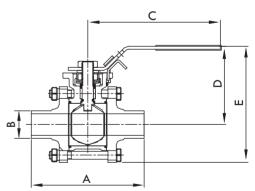
Manual Casting Ball Valves, SUS316L, KF Flange

Part Number	Tube OD	Α	В	С	D	E
MBV-CT-KF-16	3/4"	103	25	140	71	99
MBV-CT-KF-25	1 "	115	50	140	80	119
MBV-CT-KF-40	1 1/2"	140	50	192	101	153
MBV-CT-KF-50	2"	158	64	192	104	171





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Part Number	Tube OD	Α	В	С	D	E
MBV-CT-075	3/4"	103	19	140	71	99
MBV-CT-100	1"	115	25	140	80	119
MBV-CT-150	1 1/2"	140	38	192	101	153
MBV-CT-200	2"	158	51	192	104	171

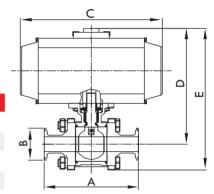


Product Order Information

Vacuum Valves

Pneumatic Casting Ball Valves, SUS316L

Part Number	Tube OD	Α	В	С	D	E
PBV-CT-KF-16	3/4"	103	25	147	136	163
PBV-CT-KF-25	1"	115	50	147	145	174
PBV-CT-KF-40	1 ½"	140	50	184	173	213
PBV-CT-KF-50	2"	158	64	204	195	247



Pneumatic Casting Ball Valves, SUS316L

Part Number	Tube OD	Α	В	С	D	Ε
PBV-CT-075	3/4"	103	19	147	136	163
PBV-CT-100	1"	115	25	147	145	174
PBV-CT-150	1 1/2"	140	38	184	173	213
PBV-CT-200	2"	158	51	204	195	247

