



EXL Series High Vacuum Angle Valve

The High Vacuum Angle Valve is a type of vacuum valve sealed with a FKM shaft seal for connecting or cutting off airflow in a vacuum system. The working principle is to use the compressed air as the power, change the direction of the air path through the directional valve, thus drive the opening and closing movement of the cylinder driving valve.

At present, the High Vacuum Angle Valve is highly used in vacuum pipeline, and the suitable medium is mainly non-corrosive gas and pure air. This valve is specifically used in chemical industry, metallurgy, electronics, aerospace, aviation, materials, atomic energy, biomedicine, space exploration and other

High Vacuum Angle Valve has the advantages of smooth operation, short opening and closing time, large flow conductance, reliable sealing, long life span, safe and reliable performance, etc. It is one of the first selected valves



Product Feature

- EXLA High Vacuum Angle Valve adopts a normally closed, single action design to achieve a constant pressure seal, thus it can be used in complex client designs without leakage.
- The high extruded unibody aluminum alloy body provides high strength, high hardness and high corrosion resistance for extended service life.
- The stainless steel bellows with long service life insulates the internal O-ring of the valve body in a vacuum environment, meeting the high vacuum requirement.
- · All imported FKM seals meet the design requirements of high quality and long life
- · Pilot ports in four directions are available.
- $\cdot \text{ The whole series are made of copper-zinc free materials, which can meet the high standard of} \\$ lithium battery, semiconductor and other industries.

O How to order?

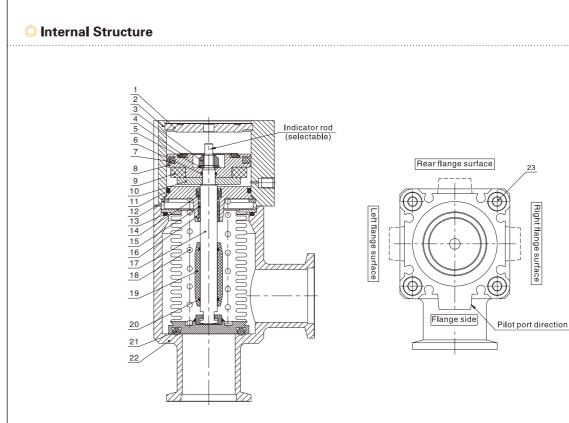
	Series Code	Flange Size	e Ind	dicator and Pilot	Port Direction	-	Magnet No.
В	XLA: Normally Closed/ ellows Seal High Vacuu ngle Valve	25 am 40 50	Code Blank A F G J K L	Indicator Without indicator with indicator Without indicator	Pilot port direction Flange side Flange side Left flange surface Rear flange surface Right flange surface Left flange surface Rear flange surface Rear flange surface Right flange surface	Rear flange surface Right flange surface Flange side Pilot port dis	Blank: Without magnet S: With magnet

Order Example: EXLA Series High Vacuum Angle Valve, flange size 40, with indicator, pilot port direction to the right side of the flange surface, with magnetic, its ERP code :EXLA40J-S.

Specifications

Model		25	40	50	
Valve Type		Normally closed (Pressurize to open, Spring seal)			
Working Fluid		Inert gas under vacuum			
Working Pressure Pa(abs)		1x10 ⁻⁶ ~to atmospheric pressure			
Working Temperatur	re(°C)	5~60			
Conductance(L/s)1		14	45	80	
/D / . \	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.			
Leakage(Pa·m³/s)	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permit		ture, excluding gas permeation	
Flange Type		KF(NW)			
Principal Materials		Body: Aluminum alloy, Bellows:SUS316L, Chief part: Stainless steel, FKM (Standard seal material)			
Surface Treatment		External: Hard anodized Internal: Raw material			
Pilot Pressure [MPa	(G)]	0.4~0.7			
Pilot Port Size		M5X0.8	G1/8		
Weight (kg)		0.59	1.24	1.86	

① Conductance is the value for the elbow with the same dimensions.



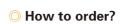
EXLA Series High Vacuum Angle Valve (Normally Closed/Bellows Seal)

No.	Part Name	Materials
1	Rear cover	Aluminum Alloy
2	Barrel	Aluminum Alloy
3	Nut	Stainless Steel
4	Anti-bump cushion	TPU
5	Flat washer	Stainless Steel
6	O-ring	FKM
7	Piston seal	FKM
8	Piston	Aluminum Alloy
9	Integral magnet	Plastic
10	Blocking plate	Aluminum Alloy
11	O-ring	FKM
12	C type retainer ring	spring steel
13	O-ring	FKM
14	Piston rod seal	FKM
15	Group lubricated bearing	composite material
16	Head cover	Aluminum Alloy
17	Bellows combination	Stainless Steel
18	Spring	swc
19	Stop block	PTFE
20	O-ring	FKM
21	O-ring	FKM
22	Valve body	Aluminum Alloy
23	Hexagon socket head cap screws	SUS304

- Product Feature
- EXLC High Vacuum Angle Valve adopts double acting design and achieves sealing function through the inlet and outlet holes at both ends of the cylinder.
- The high extruded unibody aluminum alloy body provides high strength, high hardness and high corrosion resistance for extended service life.
- The stainless steel bellows with long service life insulates the internal O-ring of the valve body in a vacuum environment, meeting the high vacuum requirement.
- · All imported FKM seals meet the design requirements of high quality and long life
- · Pilot ports in four directions are available.

EXLC Series High Vacuum Angle Valve(Double Acting/Bellows Seal)

• The whole series are made of copper-zinc free materials, which can meet the high standard of lithium battery, semiconductor and other industries.



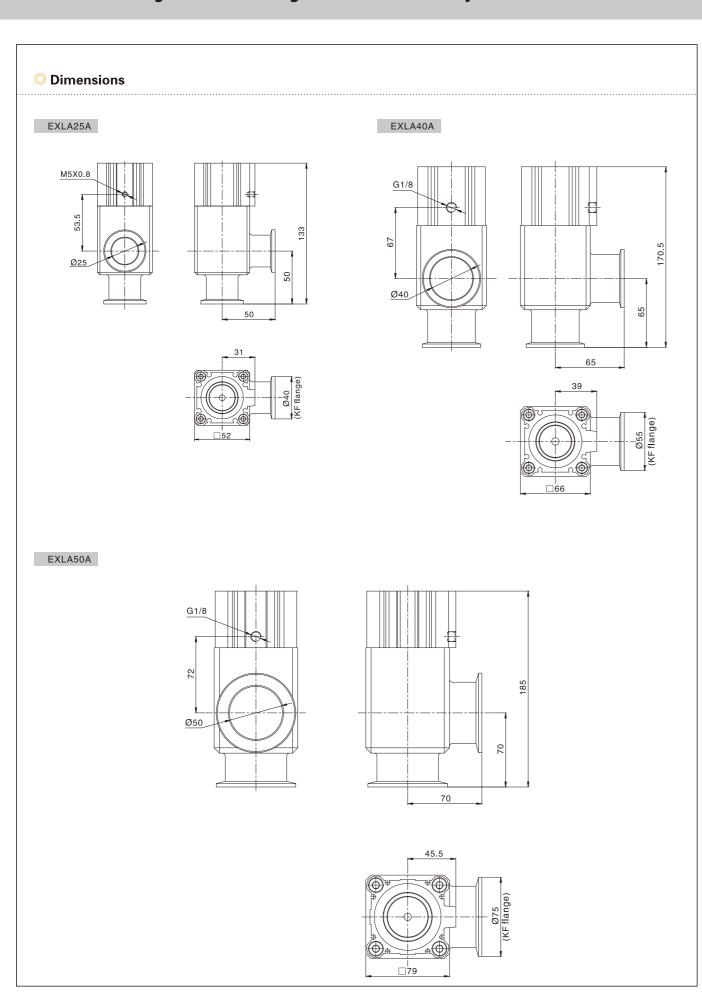
Series Code	Flange Size Indicator and Pilot Port Direction		Magnet No.
 EXLC: Double Acting/Bellows Seal High Vacuum Angle Valve	25 Code Pilot port direction 40 blank Flange side K Left flange surface L Rear flange surface M Right flange surface	Rear flange surface Right flange surface	Blank: Without magne S: With magnet

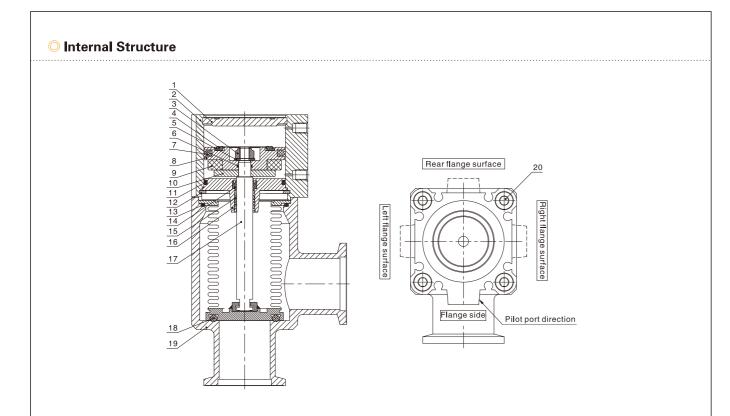
Order Example: EXLC Series High Vacuum Angle Valve, flange size 50, with indicator, pilot port direction to the left side of the flange surface, with magnetic, its ERP code :EXLC50K-S.

Specifications

Model		25	40	50		
Valve Type		Double action(pressure to open and close)				
Working Fluid Working Pressure Pa(abs Working Temperature(° C		Inert gas under vacuum				
		1x10 ⁻⁶ to atmospheric pressure				
		5~60				
$Conductance(L/s) \widehat{\mathbb{1}}$)	14	45	80		
	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.				
Leakage(Pa·m³/s)	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permeation				
Flange Type		KF(NW)				
Principal Materials Surface Treatment Pilot Pressure [MPa(G)]		Body: Aluminum alloy, Bellows:SUS316L, Chief part: Stainless steel, FKM (Standard seal material)				
		External: Hard anodized Internal: Raw material				
		0.3~0.6 0.4~0.6		0.4~0.6		
Pilot Port Pize		M5X0.8	G1	1/8		
Weight (kg)		0.56	1.16	1.76		

①Conductance is the value for the elbow with the same dimensions.





No.	Part Name	Materials
1	Rearcover	Aluminum alloy
2	Barrel	Aluminum alloy
3	Nut	Stainless steel
4	Anti-bump cushion	TPU
5	Flat washer	Stainless steel
6	O-ring	FKM
7	Piston seal	FKM
8	Piston	Aluminum alloy
9	Integral magnet	Plastic
10	Blocking plate	Aluminum alloy
11	O-ring	FKM
12	C type retainer ring	Spring steel
13	O-ring	FKM
14	Piston rod seal	FKM
15	Group lubricated bearing	Composite material
16	Head Cover	Aluminum alloy
17	Bellows combination	Stainless steel
18	O-ring	FKM
19	Valve body	Aluminum alloy
20	Hexagon socket head cap screws	SUS304

