

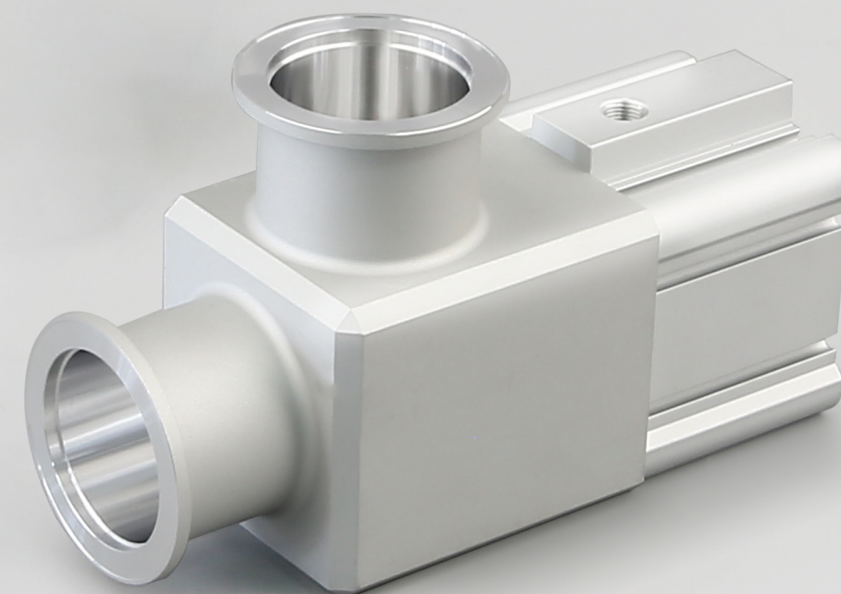
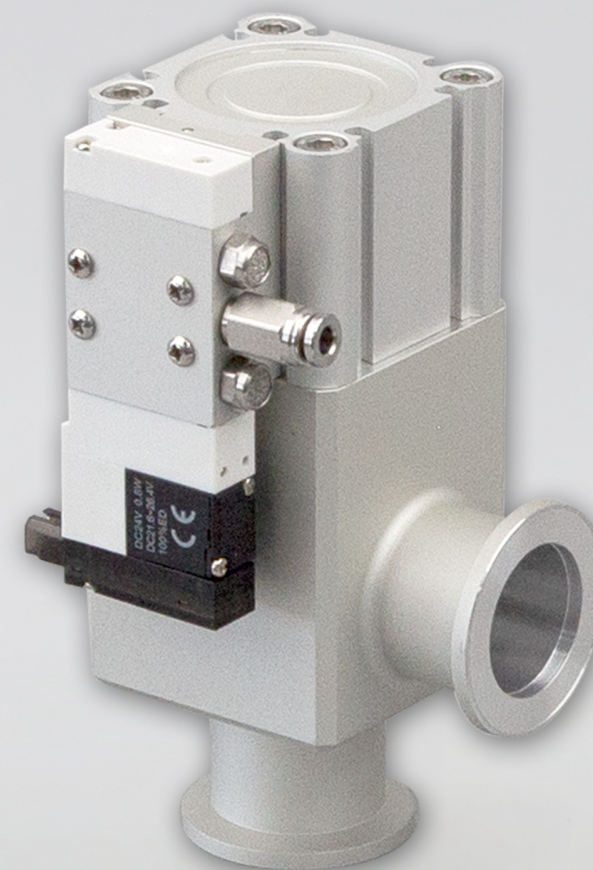
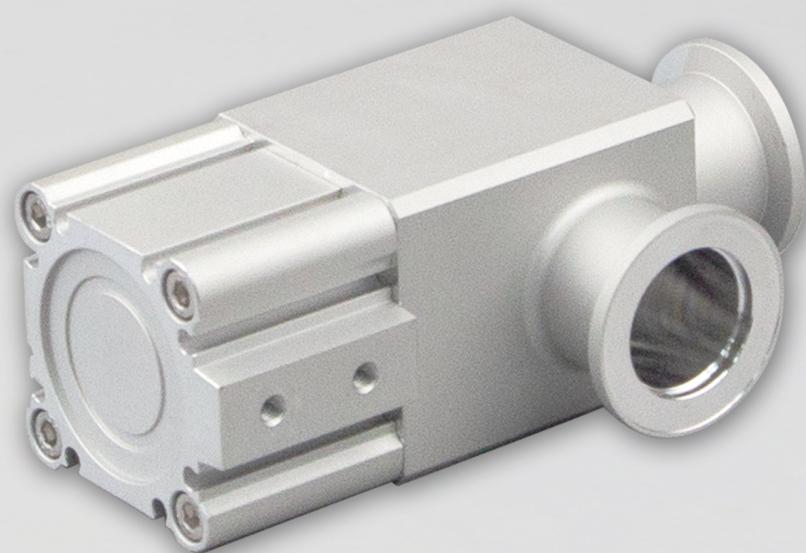


EXL Series High Vacuum Angle Valve

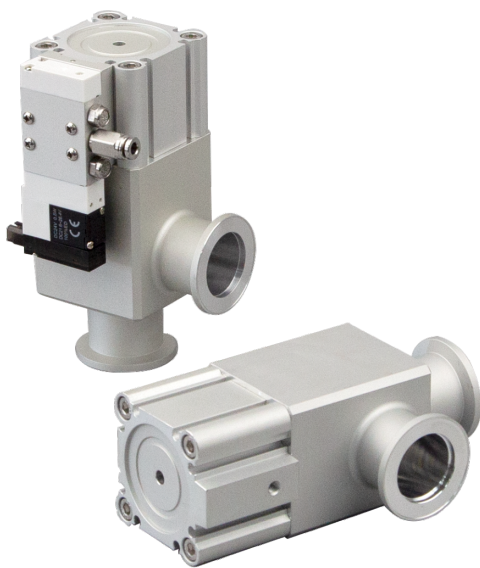
The High Vacuum Angle Valve is a type of vacuum valve sealed with a FKM shaft seal for connecting or cutting off airflow in a vacuum system. The working principle is to use the compressed air as the power, change the direction of the air path through the directional valve, thus drive the opening and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

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 for vacuum equipment automation.



EXLA(V)/F(V)
High Vacuum Angle Valve



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

- EXLA(V) High Vacuum Angle Valve, featuring a normally closed single-acting design, achieves constant pressure sealing, thus suitable for complex client designs without leakage.
- Highly extruded one-piece aluminum alloy valve body, providing high strength, hardness, and corrosion resistance, extending service life.
- Long-life stainless steel bellows design, isolating the O-ring inside the valve body from outgassing in a vacuum environment, meeting high vacuum requirements.
- All-imported fluorocarbon rubber sealing rings, meeting high-quality and long-life design specifications.
- Offers pilot ports in four directions.
- Entire series is copper and zinc-free, meeting the high standards of the lithium battery and semiconductor industries.

EXLF(V) Series High Vacuum Angle Valve
Normally Closed / O-Ring Sealed

- EXLF(V) High Vacuum Angle Valve, with a normally closed single-acting design, achieves constant pressure sealing, making it suitable for complex client designs without leakage.
- Highly extruded one-piece aluminum alloy valve body, offering high strength, hardness, and corrosion resistance, which extends the service life.
- Bellows-free design, allowing for faster opening and closing speeds, meeting the requirements for rapid actuation.
- All-imported fluorocarbon rubber sealing rings, meeting high-quality and long-life design specifications.
- Offers pilot ports in four directions.
- Entire series is copper and zinc-free, satisfying the high standards of the lithium battery and semiconductor industries.

How to order?

EXLA

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.									
EXLA: Normally Closed/ Bellows Seal High Vacuum Angle Valve	16	<table><tr><th>Code</th><th>Flange Type</th><th>Applicable flange size</th></tr><tr><td>Blank</td><td>KF(NW)</td><td>16.25.40.50.63</td></tr><tr><td>D</td><td>K(DN)</td><td>63</td></tr></table>	Code	Flange Type	Applicable flange size	Blank	KF(NW)	16.25.40.50.63	D	K(DN)	63		Blank: Without magnet S: With magnet
	Code	Flange Type	Applicable flange size										
	Blank	KF(NW)	16.25.40.50.63										
	D	K(DN)	63										
	25												
40													
50													
63													

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.

Code	Indicator	Pilot port direction
Blank	Without indicator	Flange side
A	with indicator	Flange side
F		Left flange surface
G		Rear flange surface
J		Right flange surface
K	Without indicator	Left flange surface
L		Rear flange surface
M		Right flange surface

Diagram labels: Left flange surface, Rear flange surface, Right flange surface, Flange side, Pilot port direction

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.

EXLAV

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.	Voltage	Connection Mode	Wiring length
EXLAV: EXLAV Series High Vacuum Angle Valve Normally Closed, Bellows Seal, With Solenoid Valve	16 25 40 50 63				E4: DC24V		1: 0.3M wiring 2: 0.6M wiring
					Blank: Without magnet S: With magnet	M: Plug-in Type	

Order Example: EXLAV Series High Vacuum Angle Valve with solenoid valve, flange size 40, KF Flange, with indicator, pilot port direction
to the right side of the flange surface, with magnet, DC24V, M type plug connector, Lead wire length 0.6M,
its ERP Code: EXLAV40J-S-E4-M2.

Specifications

Model		EXLA(V)16	EXLA(V)25	EXLA(V)40	EXLA(V)50	EXLA(V)63
Valve Type		Normally closed (Pressurize to open, Spring seal)				
Working Fluid		Inert gas under vacuum				
Working Pressure Pa(abs)①		1×10 ⁻⁶ ~to atmospheric pressure				
Working Temperature℃	EXLA	5 to 60 (High-temperature type: 5 to 150)				
	EXLAV	5~50				
Conductance(L/s) ②		5	14	41	74	160
Leakage (Pa・m ³ /s)	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.				
	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permeation				
Flange Type		KF(NW)				KF(NW)、K(DN)
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	EXLA	M5X0.8		G1/8		
	EXLAV	M5X0.8				
Weight (kg)	EXLA	0.332	0.59	1.24	1.86	3.56
	EXLAV	0.418	0.67	1.31	1.93	3.63

①abs: Absolute Pressure ② The conductance value is the theoretical calculation value of the molecular basin, not the measured value
③G: Relative Pressure.



How to order?

EXLF

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.									
EXLF: Normally Closed / O-Ring Sealed High Vacuum Angle Valve	16	<table><tr><th>Code</th><th>Flange Type</th><th>Applicable flange size</th></tr><tr><td>Blank</td><td>KF(NW)</td><td>16.25.40.50.63</td></tr><tr><td>D</td><td>K(DN)</td><td>63</td></tr></table>	Code	Flange Type	Applicable flange size	Blank	KF(NW)	16.25.40.50.63	D	K(DN)	63		Blank: Without magnet S: With magnet
	Code	Flange Type	Applicable flange size										
	Blank	KF(NW)	16.25.40.50.63										
	D	K(DN)	63										
	25												
40													
50													
63													

Code	Indicator	Pilot port direction
Blank	Without indicator	Flange side
A	with indicator	Flange side
F		Left flange surface
G		Rear flange surface
J		Right flange surface
K	Without indicator	Left flange surface
L		Rear flange surface
M		Right flange surface

Order Example:
EXLF 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 :EXLF40J-S.

The diagram shows a top-down view of the valve's flange. It is a circular flange with four bolt holes. A dashed circle indicates the pilot port direction, which is pointing to the right. Labels with leader lines identify the 'Rear flange surface' (top), 'Left flange surface' (left), 'Right flange surface' (right), and 'Flange side' (bottom). The 'Pilot port direction' is indicated by a dashed line and an arrow pointing to the right.

EXLFV

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.	Voltage	Connection Mode	Wiring length
EXLFV: EXLFV Series High Vacuum Angle Valve Normally Closed, O-Ring Sealed, With Solenoid Valve	16 25 40 50 63			Blank: Without magnet S: With magnet	E4: DC24V	M: Plug-in Type	1: 0.3M wiring 2: 0.6M wiring

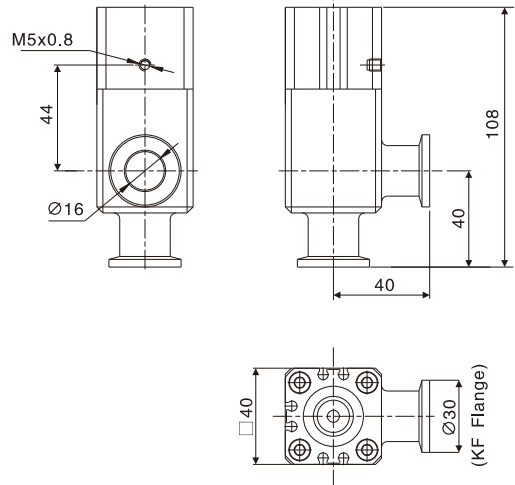
Specifications

Model		EXLF(V)16	EXLF(V)25	EXLF(V)40	EXLF(V)50	EXLF(V)63
Valve Type		Normally closed (Pressurize to open, Spring seal)				
Working Fluid		Inert gas under vacuum				
Working Pressure Pa(abs)①		1x10 ⁻⁶ ~to atmospheric pressure				
Working Temperature℃	EXLF	5 to 60 (High-temperature type: 5 to 150)				
	EXLFV	5~50				
Conductance(L/s) ②		5	14	41	74	160
Leakage (Pa · m ³ /s)	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.				
	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permeation				
Flange Type		KF(NW)				KF(NW)、K(DN)
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	EXLF	M5X0.8		G1/8		
	EXLFV	M5X0.8				
Weight (kg)	EXLF	0.36	0.65	1.34	2	3.89
	EXLFV	0.44	0.73	1.41	2.08	3.96

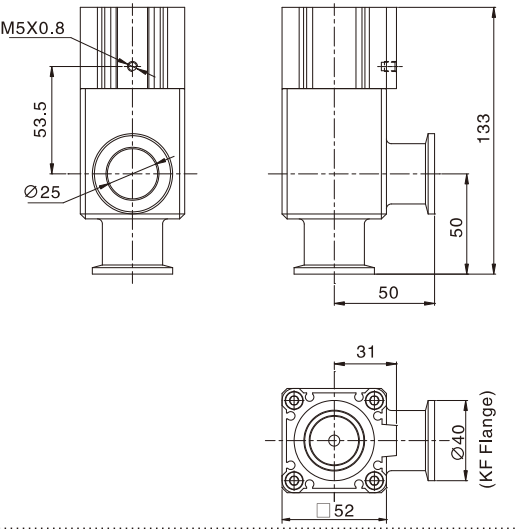
①abs: Absolute Pressure ② The conductance value is the theoretical calculation value of the molecular basin, not the measured value
③G: Relative Pressure.

Dimensions

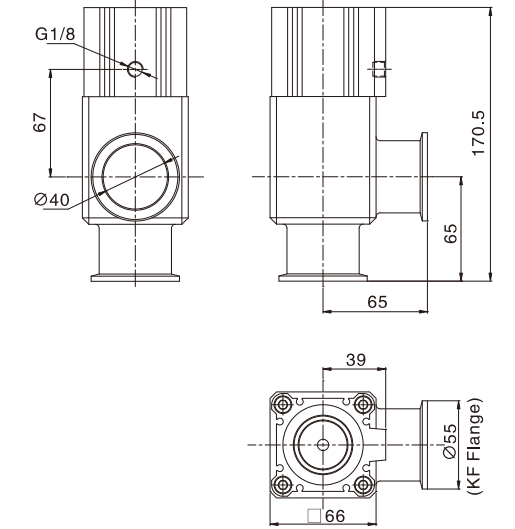
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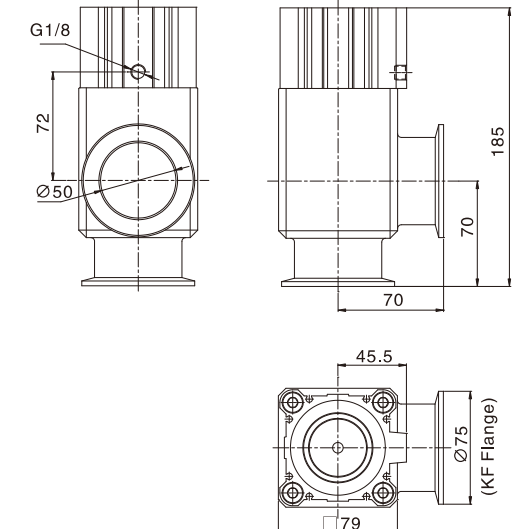
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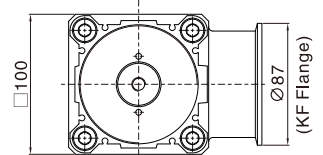
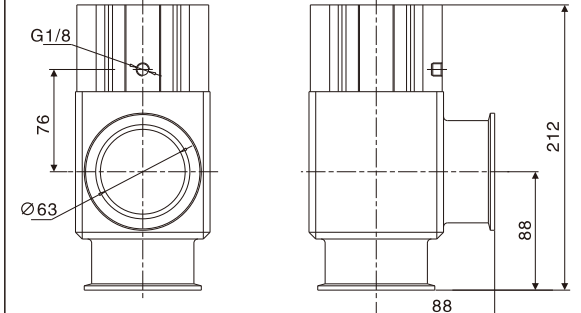
EXLA/F40A



EXLA/F50A

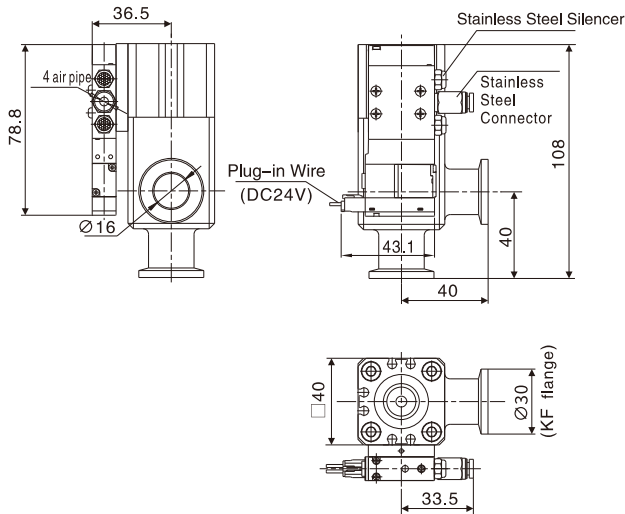


EXLA/F63A

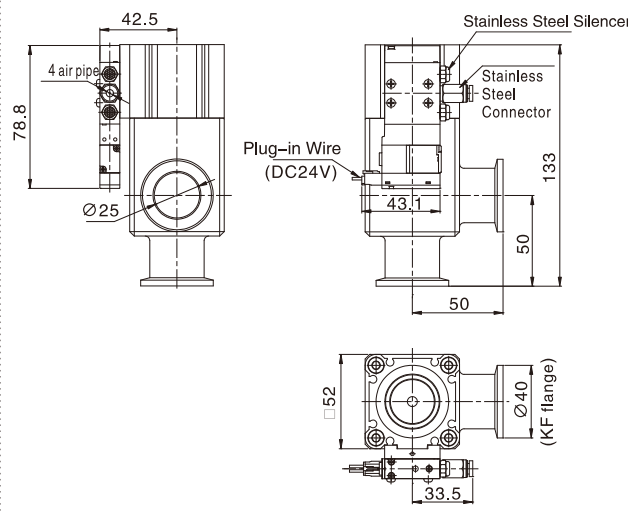


Dimensions

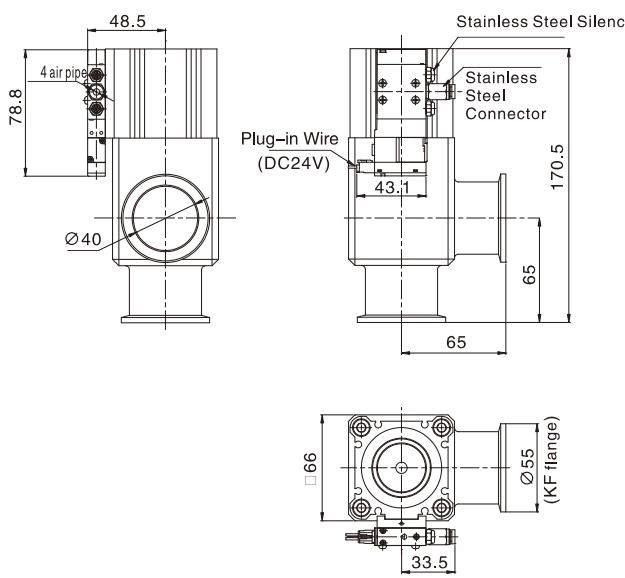
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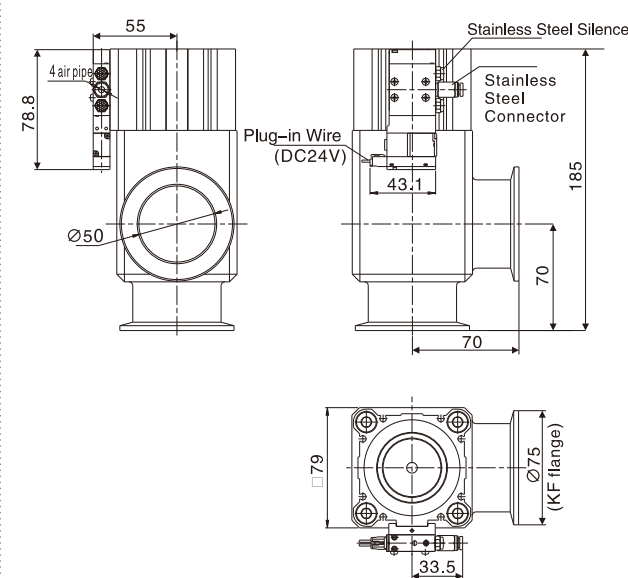
EXLAV/FV25F



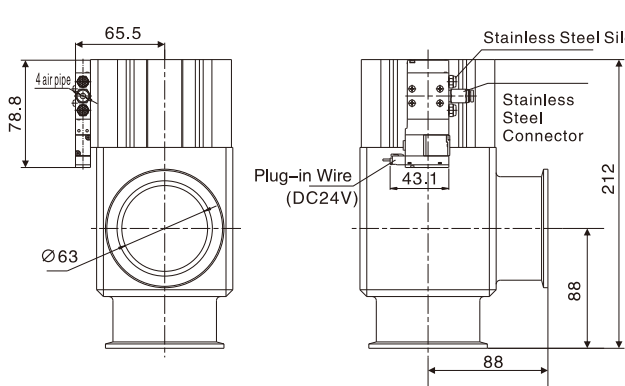
EXLAV/FV40F



EXLAV/FV50F



EXLAV/FV63F



EXLC(V)/G(V)

High Vacuum Angle Valve



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

- EXLC(V) High Vacuum Angle Valve, featuring a double-acting design, achieves constant pressure sealing, thus suitable for complex client designs without leakage.
- Highly extruded one-piece aluminum alloy valve body, providing high strength, hardness, and corrosion resistance, extending service life.
- Long-life stainless steel bellows design, isolating the O-ring inside the valve body from outgassing in a vacuum environment, meeting high vacuum requirements.
- All-imported fluorocarbon rubber sealing rings, meeting high-quality and long-life design specifications.
- Offers pilot ports in four directions.
- Entire series is copper and zinc-free, meeting the high standards of the lithium battery and semiconductor industries.

EXLG(V) Series High Vacuum Angle Valve
Normally Closed / O-Ring Sealed

- EXLG(V) High Vacuum Angle Valve, featuring a double-acting design, achieves constant pressure sealing, making it suitable for complex client designs without leakage.
- Highly extruded one-piece aluminum alloy valve body, offering high strength, hardness, and corrosion resistance, which extends the service life.
- Bellows-free design, allowing for faster opening and closing speeds, meeting the requirements for rapid actuation.
- All-imported fluorocarbon rubber sealing rings, meeting high-quality and long-life design specifications.
- Offers pilot ports in four directions.
- Entire series is copper and zinc-free, satisfying the high standards of the lithium battery and semiconductor industries.



How to order?

EXLC

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.
EXLC: Double Acting/ Bellows Seal High Vacuum Angle Valve	16	Code Flange Type Applicable flange size	Code Pilot port direction blank Flange side K Left flange surface L Rear flange surface M Right flange surface	Blank: Without magnet S: With magnet
	25	Blank KF(NW) 16.25.40.50.63		
	40	D K(DN) 63		
	50			
63				

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.

EXLCV

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.	Voltage	Connection Mode	Wiring length
EXLCV: EXLCV Series High Vacuum Angle Valve Double Acting, Bellows Seal, With Solenoid Valve	16	Code Flange Type Applicable flange size Blank KF(NW) 16.25.40.50.63 D K(DN) 63	Code Pilot port direction K Left flange surface L Rear flange surface M Right flange surface	Blank: Without magnet S: With magnet	E4: DC24V	M: Plug-in Type	1: 0.3M wiring 2: 0.6M wiring
	25						
	40						
	50						
63							

Order Example: EXLCV Series High Vacuum Angle Valve with solenoid valve, flange size 50, KF Flange, pilot port direction to the left side of the flange surface, with magnet, DC24V, M type plug connector, Lead wire length 0.3M, its ERP Code: EXLCV50K-S-E4-M1.

Specifications

Model		EXLC(V)16	EXLC(V)25	EXLC(V)40	EXLC(V)50	EXLC(V)63
Valve Type		Double action(pressure to open and close)				
Working Fluid		Inert gas under vacuum				
Working Pressure Pa(abs)①		1x10 ⁻⁶ ~to atmospheric pressure				
Working Temperature℃	EXLC	5 ~60 (High-temperature type: 5~150)				
	EXLCV	5~50				
Conductance(L/s) ②		5	14	41	74	160
Leakage (Pa · m ³ /s)	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.				
	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permeation				
Flange Type		KF(NW)				KF(NW)、K(DN)
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)]		0.3~0.6			0.4~0.6	
Pilot Port Size	EXLC	M5X0.8		G1/8		
	EXLCV	M5X0.8				
Weight (kg)	EXLC	0.32	0.56	1.16	1.76	3.33
	EXLCV	0.40	0.64	1.23	1.83	3.40

①abs: Absolute Pressure ② The conductance value is the theoretical calculation value of the molecular basin, not the measured value
③G: Relative Pressure.

How to order?

EXLG

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.
EXLG: Double Acting / O-Ring Sealed High Vacuum Angle Valve	16	Code Flange Type Applicable flange size	Code Pilot port direction blank Flange side K Left flange surface L Rear flange surface M Right flange surface	Blank: Without magnet S: With magnet
	25	Blank KF(NW) 16.25.40.50.63		
	40	D K(DN) 63		
	50			
63				

Order Example:
EXLG 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 :EXLG50K-S.

EXLGV

Series Code	Flange Size	Flange Type	Indicator and Pilot Port Direction	Magnet No.	Voltage	Connection Mode	Wiring length
EXLGV: EXLGV Series High Vacuum Angle Valve Double Acting, O-Ring Sealed, With Solenoid Valve	16	Code Flange Type Applicable flange size Blank KF(NW) 16.25.40.50.63 D K(DN) 63	Code Pilot port direction K Left flange surface L Rear flange surface M Right flange surface	Blank: Without magnet S: With magnet	E4: DC24V	M: Plug-in Type	1: 0.3M wiring 2: 0.6M wiring
	25						
	40						
	50						
63							

Order Example: EXLGV Series High Vacuum Angle Valve with solenoid valve, flange size 50, KF Flange, pilot port direction to the left side of the flange surface, with magnet, DC24V, M type plug connector, Lead wire length 0.3M, its ERP Code: EXLGV50K-S-E4-M1.

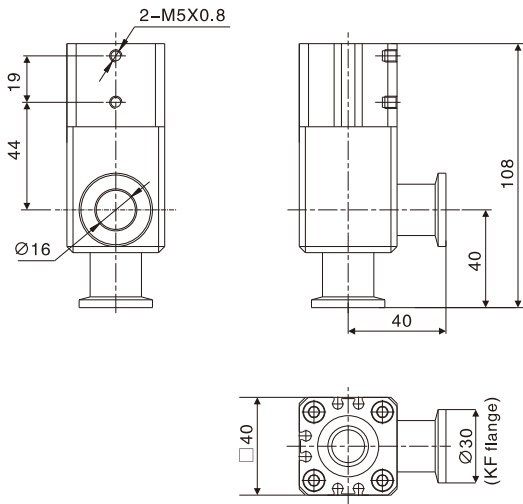
Specifications

Model		EXLG(V)16	EXLG(V)25	EXLG(V)40	EXLG(V)50	EXLG(V)63
Valve Type		Double action(pressure to open and close)				
Working Fluid		Inert gas under vacuum				
Working Pressure Pa(abs)①		1x10 ⁻⁶ ~to atmospheric pressure				
Working Temperature℃	EXLG	5 to 60 (High-temperature type: 5 to 150)				
	EXLGV	5~50				
Conductance(L/s) ②		5	14	41	74	160
Leakage (Pa · m ³ /s)	Internal	For standard seal material (FKM): 1.3 x 10 ⁻¹⁰ at normal temperature, excluding gas permeation.				
	External	For standard seal material (FKM): 1.3 x 10 ⁻¹¹ at normal temperature, excluding gas permeation				
Flange Type		KF(NW)				KF(NW)、K(DN)
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)]		0.3~0.6			0.4~0.6	
Pilot Port Size	EXLG	M5X0.8		G1/8		
	EXLGV	M5X0.8				
Weight (kg)	EXLG	0.35	0.59	1.19	1.81	3.64
	EXLGV	0.43	0.67	1.27	1.89	3.71

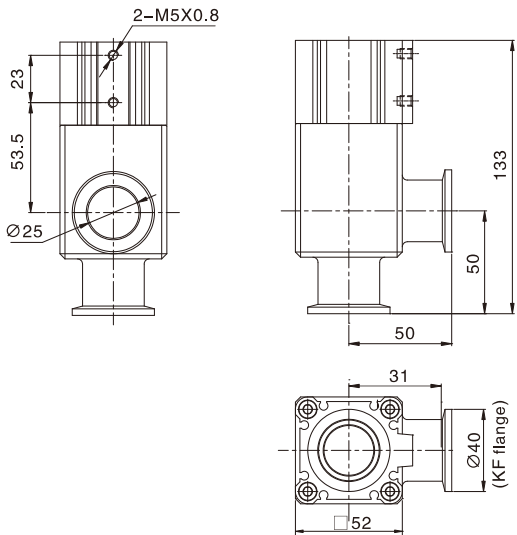
①abs: Absolute Pressure ② The conductance value is the theoretical calculation value of the molecular basin, not the measured value
③G: Relative Pressure.

Dimensions

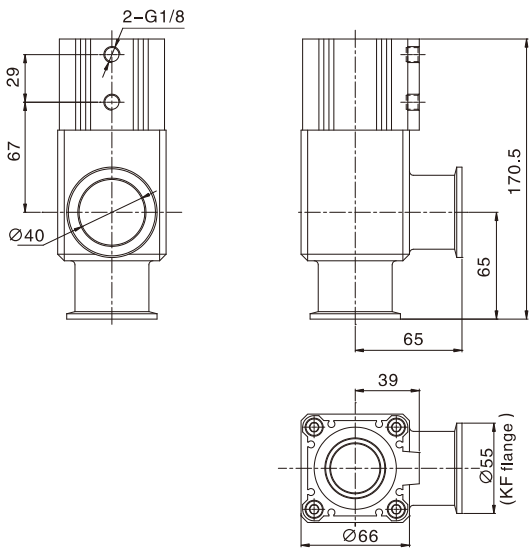
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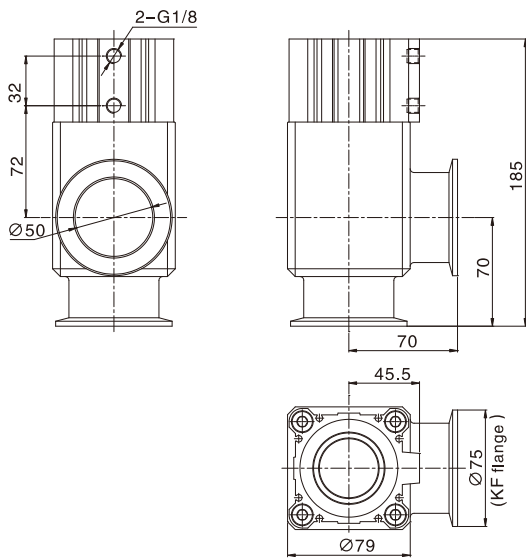
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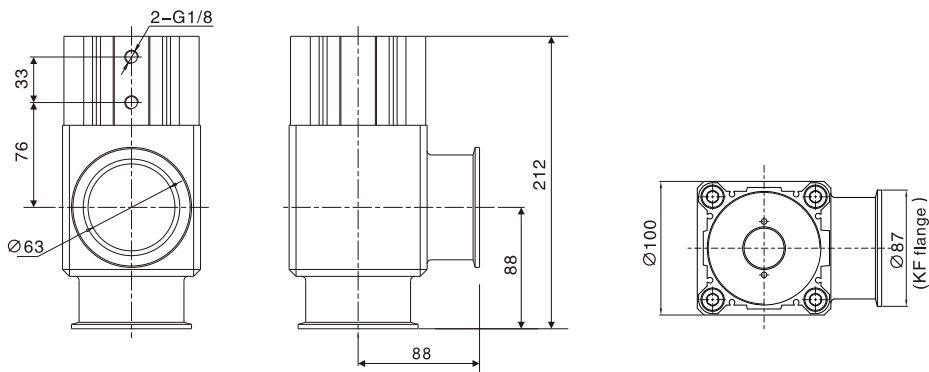
EXLC/G40



EXLC/G50

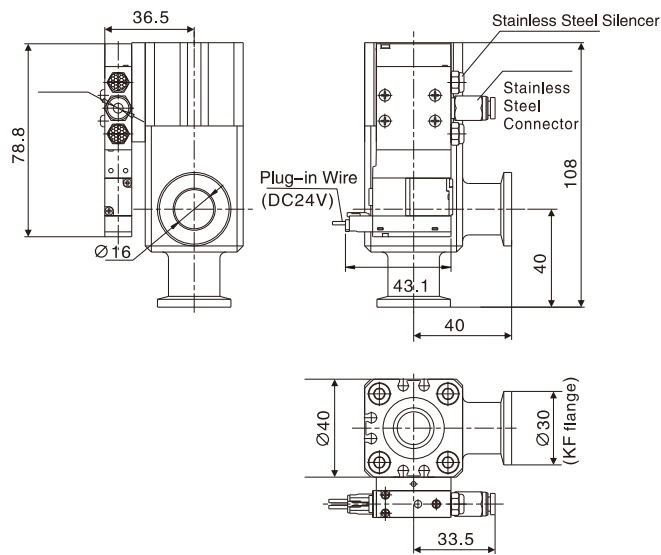


EXLC/G63

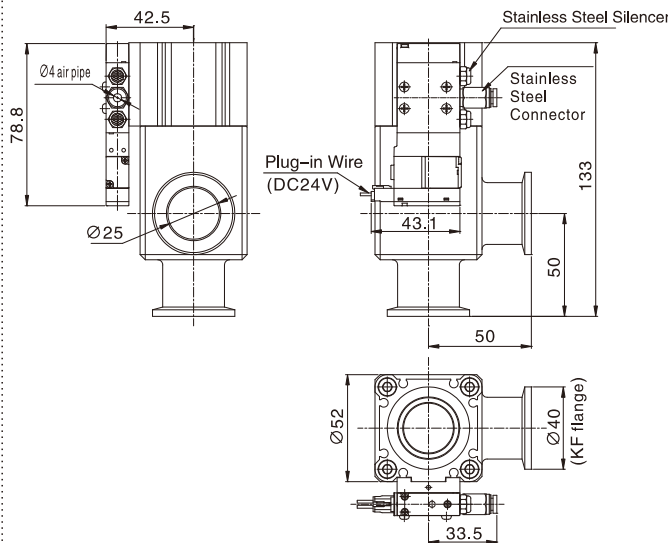


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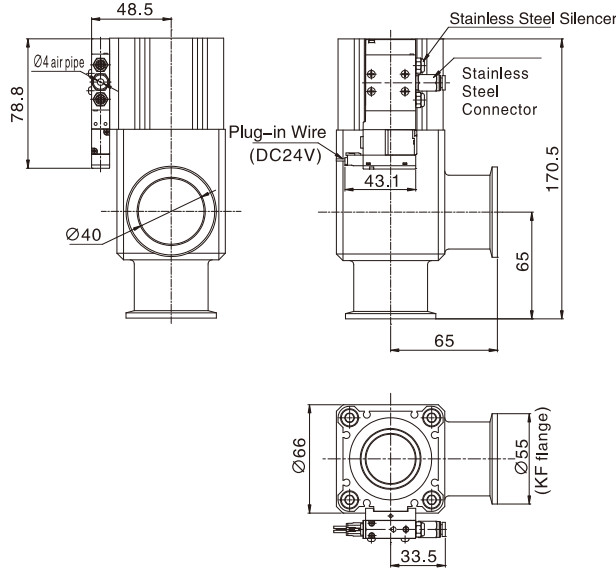
EXLCV/GV16K



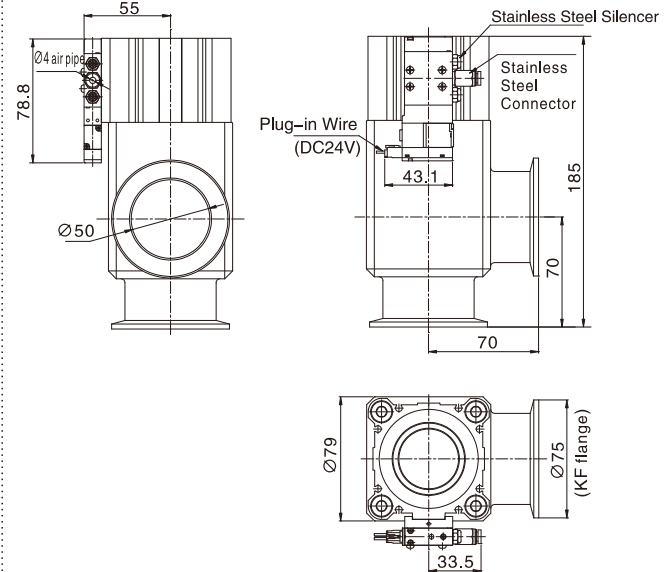
EXLCV/GV25K



EXLCV/GV40K



EXLCV/GV50K



EXLCV/GV63K

