

Aluminum High Vacuum Angle Valve Normally Closed, Bellows Seal **XLA/XLAV Series**

RoHS



XLA

How to Order

XLA - **16** **□** **□** **□** - **2** **M9N** **A** - **□**

① ② ③ ④ ⑤ ⑥ ⑦

① Flange size

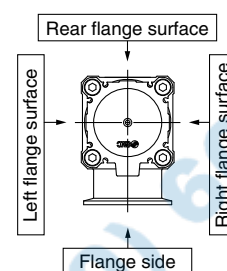
Size
16
25
40
50
63
80

② Flange type

Symbol	Type	Applicable flange size
Nil	KF (NW)	16, 25, 40, 50, 63, 80
D	K (DN)	63, 80

③ Indicator/Pilot port direction

Symbol	Indicator	Pilot port direction
Nil	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



④ Temperature specifications/Heater

Symbol	Temperature	Heater
Nil	5 to 60°C	—
High-temperature type	H0	—
	H4	5 to 150°C
	H5	With 100°C heater With 120°C heater

* Size 16 is not applicable to H4, H5. Size 25 is not applicable to H4.

* Heater cannot be retrofitted for the H0 type.

⑥ Number of auto switches/Mounting position

Symbol	Quantity	Mounting position
Nil	Without auto switch	—
A	2	Valve open/closed
B	1	Valve open
C	1	Valve closed

⑦ Body surface treatment/Seal material and changed parts

• Body surface treatment

Symbol	Surface treatment
Nil	External: Hard anodized Internal: Raw material
A	External: Hard anodized Internal: Oxalic acid anodized

• Seal material

Symbol	Seal material	Compound no.
Nil	FKM	1349-80*1
N1	EPDM	2101-80*1
P1	Barrel Perfluoro®	70W
Q1	Kalrez®	4079
R1	Chemraz®	SS592
R2		SS630
R3		SSE38
S1	VMQ	1232-70*1
T1	FKM for Plasma	3310-75*1

*1 Produced by Mitsubishi Cable Industries, Ltd.

Barrel Perfluoro® is a registered trademark of Matsumura Oil Co., Ltd.
Kalrez® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.
Chemraz® is a registered trademark of Greene, Tweed Technologies, Inc.

⑤ Auto switch type

Symbol	Model	Remarks
Nil	—	Without auto switch (without magnet)
M9N(M)(L)(Z)	D-M9N(M)(L)(Z)	Solid state auto switch
M9P(M)(L)(Z)	D-M9P(M)(L)(Z)	
M9B(M)(L)(Z)	D-M9B(M)(L)(Z)	
A90(L)	D-A90(L)	Reed auto switch (Not applicable to flange size 16)
A93(M)(L)(Z)	D-A93(M)(L)(Z)	
M9//	—	Without auto switch (with magnet)

* For the high-temperature type, select the heat-resistant auto switch. (Refer to page 18.)

* Standard lead wire length is 0.5 m. Add M to the end of the part number for 1 m, L for 3 m, and Z for 5 m.

Example) -2M9NL

• Part with changed seal material and leakage

Symbol	Changed part*2	Leakage [Pa · m³/s or less] *1	
		Internal	External
Nil	None	1.3×10^{-10} (FKM)	1.3×10^{-11} (FKM)
A	②, ③, ④	1.3×10^{-8}	1.3×10^{-9}
B	②, ③	1.3×10^{-8}	1.3×10^{-9}
C	④	1.3×10^{-10} (FKM)	1.3×10^{-9}
D	②	1.3×10^{-8}	1.3×10^{-11} (FKM)
E	②, ④	1.3×10^{-8}	1.3×10^{-9}

*1 Values at normal temperature, excluding gas permeation

*2 Refer to Construction on page 5 for changed part. Number corresponds with the parts number on the construction drawing.

To order something other than Nil (standard), list the symbols starting with X, followed by each symbol for body surface treatment, seal material, and then changed part.

Example) XLA-16-2M9NA-XAN1A