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# High Vacuum Angle Valve Normally Closed/O-ring Seal



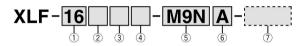
# XLF/XLFV Series



How to Order



Made to Order specifications (For details, refer to pages 430 to 435)



XLF

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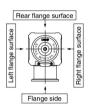
① Flange size
Size
16
25
40
50
63
80
100
160

2 Flange type

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Symbol	Type	Applicable flange	
Nil	KF (NW)	16, 25, 40, 50, 63 80, 100, 160	
D	K (DN)	63, 80, 100, 160	

# 3 Indicator/Pilot port direction

indicator/i not port direction			
Symbol	Indicator	Pilot port direction	
Nil	Without indicator	Flange side	
Α		Flange side	
F	With	Left flange surface	
G	indicator	Rear flange surface	
J		Right flange surface	
K	Without	Left flange surface	
L	indicator	Rear flange surface	
M	indicator	Right flange surface	



4 Temperature specifications/Heater

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

Note) Size 16 is not applicable for H4, H5, Size 25 not for H4.

#### 6 Number of auto switches/Mounting position

Symbol	Quantity	Mounting position	
Nil	Without auto switch	_	
Α	2 pcs.	Valve open/closed	
В	1 pc.	Valve open	
С	1 pc.	Valve closed	

### 5 Auto switch type

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

Note 1) Auto switches shown above cannot be mounted on the high temperature type. For the high temperature type, a semi-standard product that uses the heat resistant auto switch D-F7NJ\* is available. For details, please contact SMC.

Note 2) Standard lead wire length is 0.5 m. Add "L" to the end of the part number when 3 m is desired, "M" when 1 m, and "Z" when 5 m. Example) -M9NL

#### (7) Body surface treatment/Seal material and its changed part

# Body surface treatment

ŀ	Symbol	Surface treatment		
i	Nil	External: Hard anodized Internal: Raw material		
i	Α	External: Hard anodized Internal: Oxalic acid anodized		
1				

# Seal material

Symbol	Seal material	Compound No.
Nil	FKM	1349-80*
N1	EPDM	2101-80*
P1	Barrel Perfluoro®	70W
Q1	Kalrez®	4079
R1	Chemraz® VMQ	SS592
R2		SS630
R3		SSE38
S1		1232-70*
T1	FKM for Plasma	3310-75*
U1	ULTIC ARMOR®	UA4640

\* Produced by Mitsubishi Cable Industries, Ltd.

#### • Seal material changed part and leakage

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	Symbol	Changed	Leakage (Pa·m³/s or less) Note 1)	
		part	Internal	External
	Nil	None	1.3 x 10 <sup>-10</sup> (FKM)	1.3 x 10 <sup>-10</sup> (FKM)
	Α	2, 3	1.3 x 10 <sup>-8</sup>	1.3 x 10 <sup>-8</sup>
	В	2	1.3 x 10 <sup>-8</sup>	1.3 x 10 <sup>-10</sup> (FKM)
	С	3	1.3 x 10 <sup>-10</sup> (FKM)	1.3 x 10 <sup>-8</sup>

Note 1) Values at normal temperature, excluding gas permeation.

Note 2) Refer to parts number of "Construction" on page 428 for changed part. Number indicates parts number of "Construction" accordingly.

Note 3) Part 3 (exterior seal) is not changeable for sizes 16 and 25.

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) XLF-40-M9NA-XAN1A

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