

Stainless steel High Vacuum Angle/In-line Valve Normally Closed/Bellows Seal **XMA, XYA Series**



How to Order

Angle type

XMA - 16 - M9N A -

In-line type

XYA - 25 - M9N A -

Note) The XMAV and XYAV series with solenoid valve are also available. Please contact SMC for details.



① Flange size

Size	XMA	XYA
16	●	—
25	●	●
40	●	●
50	●	●
63	●	●
80	●	●

② Flange type

XMA

Symbol	Type	Applicable flange size
NII	KF (NW)	16, 25, 40, 50, 63, 80
D	K (DN)	63, 80
C	CF	16 (034), 40 (070), 63 (114)

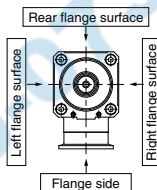
XYA

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

③ Indicator/Pilot port direction

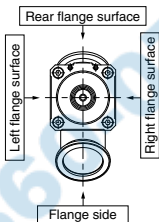
XMA

Symbol	Indicator	Pilot port direction
NII	Without indicator	Flange side
A	With indicator	Flange side
F	With indicator	Left flange surface
G	With indicator	Rear flange surface
J	With indicator	Right flange surface
K	Without indicator	Left flange surface
L	Without indicator	Rear flange surface
M	Without indicator	Right flange surface



XYA

Symbol	Indicator	Pilot port direction
NII	Without indicator	Rear flange side
A	With indicator	Rear flange side
F	With indicator	Left flange surface
J	With indicator	Right flange surface
K	Without indicator	Left flange surface
M	Without indicator	Right flange surface



④ Temperature specifications

Symbol	Temperature range
NII	5 to 60°C
H0	5 to 150°C

⑥ Number of auto switches/Detecting position

Symbol	Quantity	Detecting position
NII	Without auto switch	—
A	2 pcs.	Valve open/closed
B	1 pc.	Valve open
C	1 pc.	Valve closed

⑤ Auto switch type

Symbol	Auto switch	Remarks
NII	—	Without auto switch (without built-in 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
A93(M)(L)(Z)	D-A93(M)(L)(Z)	(Flange size 16 is not available.)
M9/	—	Without auto switch (with built-in magnet)

Auto switches are not applicable for high-temperature specifications (Temperature specification H0). 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.
Ex.) -M9NL

⑦ Seal material and its changed part

• Seal material

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

* 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 & Co.
ULTIC ARMOR® is a registered trademark of Nippon Valqua Industries, Ltd.

• Part numbers indicating changed seal material and leakage

Symbol	Changed part Note 2)	Leakage (Pa·m ³ /s or less) Note 1)
		Internal
NII	—	1.3 x 10 ⁻¹⁰ (FKM)
A	(2), (3)	1.3 x 10 ⁻⁸
B	(2)	1.3 x 10 ⁻⁸
C	(3)	1.3 x 10 ⁻¹⁰ (FKM)

Note 1) Values at ambient temperatures, excluding gas permeation.

Note 2) Refer to parts number of "Construction" on the page 482 for changed part.

Number indicates parts number of "Construction" accordingly.

To order something else "NII" (standard), list the symbols starting with "X," followed by each symbol for "seal material" and then "changed parts" at last.

Ex.) XMA-16-M9NA-XN1A

XLA

XL□

XL□□

XM□

XY□

D-□

XSA

XVD

XGT

CYV