SNC P.G.Information (Specialized product)

High Vacuum Angle Valve Stainless Body

XMB-50

SMC CORPORATION

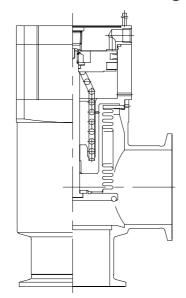
1-16-4 Shimbashi, Minato-ku Tokyo 105-0004, JAPAN

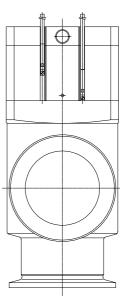
URL: http://www.smcworld.com

Feature 1: N.O. specification

Feature 2: Body material SCS13 (Equivalent SUS304)

Feature 3: Integrated construction of precision casting without accumulating gas





Specifications

High vacuum angle valve

9				
Valve type		N.O. type (Pressurize to close, bellows seal)		
Fluid		Non-corrosive gas for SUS304/316		
Ambient and operating temperature		5 to 60°C (Option 5 to 150°C (*1))		
Operating pressure		Atmospheric pressure to 1 × 10 ⁻⁶ Pa (for absolute pressure)		
Conductance (*2)		80L/sec		
Leakage External		1.3 × 10 ⁻¹¹ or less (At ordinary temperatures, excluding gas permeation)		
Pa·m³/s	Internal	1.3 × 10 ⁻¹⁰ or less (At ordinary temperatures, excluding gas permeation)		
Operating time (*3)		0.24sec		
Flange type		KF50		
Principal materials		Body: SCS13 (Equivalent SUS304), Bellows: SUS316, Seal: FKM		
Actuation pressure		0.4 to 0.6MPa		
Actuation port size		Rc1/8, NPT1/8, G1/8, NPTF1/8		
Service life		2 million cycles		
Weight		1.5kg		

^{*1)} When auto switches are attached, 5 to 150°C is not applicable.

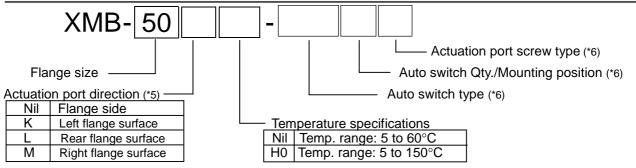
Auto switch specification (*4)

^{*2)} Conductance is the same as that of an elbow with the same dimensions.

^{*3)} The time required for 90% valve movement when an actuation pressure of 0.5MPa is applied. There is a difference of about 20% in this value at the upper and lower pressure limits.

^{*4)} Please refer to our Best Pneumatics (general catalogue) for the details of auto switch.

How to Order



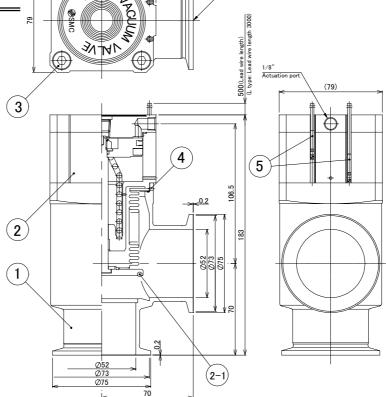
*5) Actuation port direction (EX) Left flange surface: Indicates that the direction of the actuation port is to the left side when flange surface A (refer to Dimensions) is viewed from the front.

*6) Choose part number from How to Order shown below.

Auto switch type				
Nil	_	Without auto switch		
F9//	_	Without auto switch (With magnet)		
F9N(L)	Calid atata	D-F9N(L)		
F9P(L)	Solid state auto switch	D-F9P(L)		
F9B(L)	auto Switch	D-F9B(L)		
A90(L)	Reed	D-A90(L)		
A93(L)	auto switch	D-A93(L)		

Aut	Auto switch Qty./Mounting position			
Nil	Without auto switch			
Α	2 pcs. (When valve open/close, each switch is ON)			
В	1 pc. (When valve open, a switch is ON)			
С	1 pc. (When valve close, a switch is ON)			

A90(L)	Reed	D-A90(L)		Actuation port screv	w type
A93(L)	auto switch	D-A93(L)		Nil	Rc1/8
		109.5	ζ.	01N	NPT1/8
		79 2		01F	G1/8
				01T	NPTF1/8
Dimer	nsions: r	nm × 1GH Z		Flange surface A	



Component parts

COIII	Component parts				
No.	Description	Material	Qty.	Notes	
1	Body	SCS13	1		
2	Bonnet assembly	_	1	For high temp.: Option	
2-1	O-ring	FKM	1		
3	Hexagon socket head cap screw	SUS×M7	4	M8×1.25, L=55	
4	O-ring	FKM	1		
5	Auto switch		n	Option	

To ensure the safest possible operation of this product, please be sure to read thoroughly the "Safety Instruction" in our "high vacuum angle valve (Series XL) catalogue" (CAT.E829) before use.

©2002 SMC CORPORATION All Rights Reserved