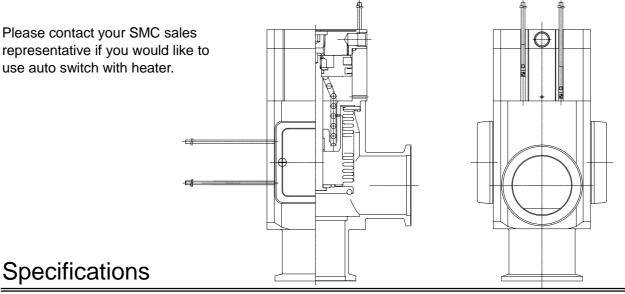
High Vacuum Angle Valve **XLB-40**

SMC CORPORATION

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Feature 1: N.O. specification (Only N.C. type for Series XLA)



High vacuum angle valve

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Valve type		N.O. type (Pressurize to close, bellows seal)			
Fluid		Non-corrosive gas for aluminum alloy (A6063) and 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)		45L/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)		0.21sec			
Flange type		KF40			
Principal materials		Body: Aluminum alloy, Bellows: Stainless steel, 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		1.14kg			

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

Heaters (*4)

· ,				
Rated heater voltage	90 to 125VAC			
Heater newer W (neminal value)	H1: 80°C	200/20		
Heater power W (nominal value)	H2: 100°C	200/40		
In-rush/Consumption (power)	H3: 120°C	400/70		

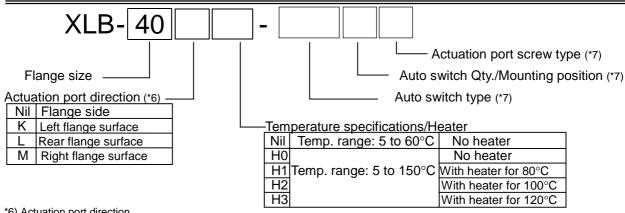
^{*4)} In-rush current will flow to the heater for several tens of second and will then subside. Please refer to our high vacuum angle valve (Series XL) catalogue (CAT.E829) for other details.

Auto switch specification (*5)

^{*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.

^{*5)} Please refer to our Best Pneumatics (general catalogue) for the details of auto switch.



*6) 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.

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

	Auto switch type						
	Nil		Without auto switch				
	F9//	_	Without auto switch (With magnet)				
Γ	F9N(L)	0	D-F9N(L)				
Γ	F9P(L)	Solid state auto switch	D-F9P(L)				
Γ	F9B(L)	auto switch	D-F9B(L)				
Γ	A90(L)	Reed	D-A90(L)				
	A93(L)	auto switch	D-A93(L)				

Auto switch Qty./Mounting position				
Nil	Vil Without auto switch			
Α	2 pcs. (When valve open/close, each switch is ON			
B 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)	Acti	uation p	ort screw type
A93(L)	auto switch	D-A93(L)	1	۱il	Rc1/8
				1N	NPT1/8
		98		1F	G1/8
		66	_2 0	1T	NPTF1/8
<u>Dimen</u>	sions:	mm 3 3 3 1000 (Lead wire length) 6 6 1 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	4	65 7	-

Component parts					
No.	Description	Material	Qty.	Notes	
1	Body	A6063-T6	1		
2	Bonnet assembly	_	1	For high temp.: Option	
2-1	O-ring	FKM	1		
3	Hexagon socket head cap screw	SUS×M7	4	M6×1, L=50	
4	O-ring	FKM	1	_	
5	Auto switch		n	Option	
6	Heater assembly	_	1	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.

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