

Flow control valve, medium port size type

SC1 Series

Light weight enables disassembly in piped state ● Port size: Rc1/8 to Rc1/2





Refer to a file list on Ending 84.

Structure and materials restriction

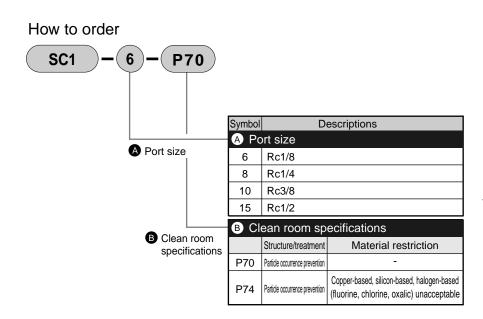
	Structure	Material restriction	Model No.	
P7 series	Particle occurrence prevention		- P70	
	Particle occurrence prevention	Copper-based unacceptable Silicon-based unacceptable (fluorine, chlorine, oxalic)	- P74	

Specifications

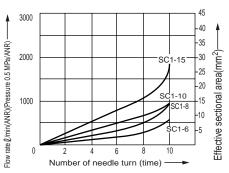
Descriptions	SC1-6	SC1-8	SC1-10	SC1-15		
Working fluid		Compre	essed air			
Max. working pressure MPa		1				
Min. working pressure MPa		0.05				
Withstanding pressure MPa		1	.5			
Fluid temperature °C		5 to 60 (to be u	nfrozen. Note 2)			
Ambient temperature °C		0 to 60 (to b	be unfrozen.)			
Port size Rc	1/8	1/4	3/8	1/2		
Product mass g	100	95	205	195		
Applicable cylinder bore size mm	φ20 to φ50	φ32 to φ75	φ50 to φ140	<i>φ</i> 80 to <i>φ</i> 160		
Number of needle turn	10	10	10	10		
· · · · ·						
Free flow Flow rate <i>ℓ</i> /min(ANR)	730	930	2600	2900		
Effective sectional area mm ²	11	14	39	43		
Controlled flow Flow rate ℓ/min(ANR)	530	870	1500	2400		
Effective sectional area mm ²	8	13	22	36		

Note 1: The flow rate is the atmospheric pressure conversion value at a 0.5MPa pressure.

Note 2: Depending on the air quality (dew point), the product could freeze due to adiabatic expansion.



Flow characteristics



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SC1 Series

Dimensions

SCPD2

Dimensions

SC1-*-P7*

										SCM	
										MDC2	
										SMD2	
Mounting hole 2-*4.5 (Penetrating)								SSD			
Port size 6: Rc1/8 8: Rc1/4 10: Rc3/8 15: Rc1/2 5et screw 2-M4 (depth 6) SC1-6/8 Set screw 2-M5 (depth 6) SC1-10/15									STS/L		
									LCS		
									STR2		
									MRL2		
									GRC		
											Cylinder switch
A 50	B 20	C 42	D 31	E 23	F 11	G 67	H 22	12	J 31	K 19	KBA
63	21	55	40	31	15	83	30	18	37	23	MN4E0

Precautions

Model No. SC1-6/8-P7*

SC1-10/15-P7

Note that vibration sound will be generated easily when using in a low pressure range (0.05MPa or less), when the front/back pipes, etc., are drastically restricted, when the cylinder speed is fast, or when the differential pressure is low.

• Take care not to tighten the needle and lock nuts excessively. (Tightening torque approx. 3N·m)

> regulator Pressure/ Differential pressure gauge Electro pneumatic regulator

4GA/B

M4GA/B

MN4GA/B

F.R. (Module unit)

Clean F.R. Precision

Flow control valve

Auxiliary valve

Joint/ tube Pressure

sensor

Flow sensor

Valve for air blow

