

Refrigerating type dryer
Desiccant type dryer
High polymer membrane type dryer
Air filter
Auto. drain / others
F.R.L. (Module unit)
F.R.L. (Separate)
Compact F.R.
Precise regulator
F.R.L. (Related products)
Clean F.R.
Electro pneumatic regulator
Air booster
Speed control valve
Silencer
Check valve / others
Joint / tube
Vacuum filter
Vacuum regulator
Suction plate
Magnetic spring buffer
Mechanical pressure SW
Electronic pressure SW
Contact / close contact conf. SW
Air sensor
Pressure SW for coolant
Small flow sensor
Small flow controller
Flow sensor for air
Flow sensor for water
Total air system
Total air system (Gamma)
Ending



Speed control valve Elbow type with push-in joint

SC3W Series

● Port size: M3, M5, R1/8 to R1/2

JIS symbol



Specifications

Descriptions		SC3W																
		SC3W-M3		SC3W-M5			SC3W-6			SC3W-8			SC3W-10				SC3W-15	
Applicable tube outer diameter mm		ø3.2	ø4	ø3.2	ø4	ø6	ø4	ø6	ø8	ø6	ø8	ø10	6ø	ø8	ø10	ø12	ø10	ø12
Working fluid		Compressed air																
Max. working pressure MPa		1.0																
Min. working pressure MPa		0.05																
Withstanding pressure MPa		1.5																
Fluid temperature °C		5 to 60 (no freezing Note 3)																
Ambient temperature °C		0 to 60 (no freezing)																
Port size		M3		M5			R1/8			R1/4			R3/8				R1/2	
Product weight g		4.9	5.7	7.9	8.8	9.6	25	26	27	50	51	54	63.7	75	78	81	134	138
Number of needle turn (cycle)		10 (14) and over		10 (16) and over			10 (15) and over			13 and over			13 and over				14 and over	
Free flow	Flow ℓ/min. (ANR)	27 (20)		87 (80)			210 (210)	270 (270)	270	470	500	530	650	1000	1100		1500	1600
	Effective sectional area mm ²	0.4 (0.3)		1.3 (1.2)			3.2 (3.2)	4.0 (4.0)	7	7.5	8	10	15	16	22		22	24
Controlled flow	Flow ℓ/min. (ANR)	20 (5.9)		80 (6.7)			190 (13)	240 (13)	430	470	470	650	930	1000	1500		1500	1600
	Effective sectional area mm ²	0.3 (0.08)		1.2 (0.1)			2.8 (0.2)	3.6 (0.2)	6.5	7	7.0	10	14	15	22		22	24

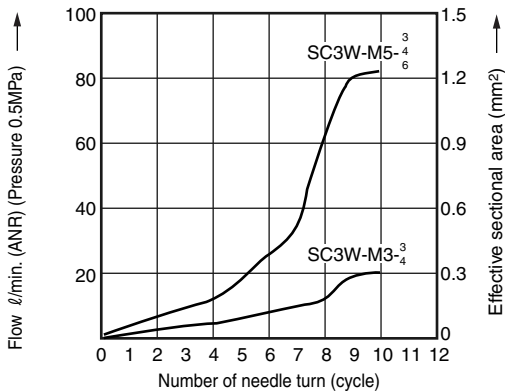
Note 1: Flow rate is the atmospheric pressure conversion value at pressure 0.5MPa.

Note 2: Value in () is for low speed type.

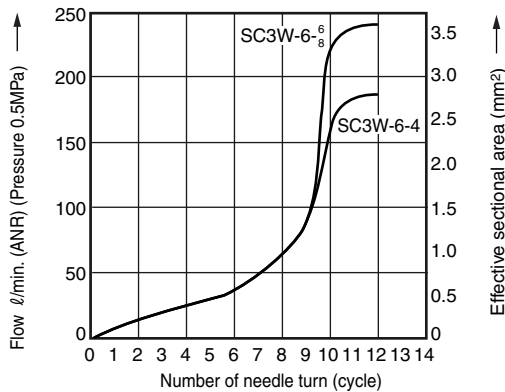
Note 3: Freezing could occur by adiabatic expansion depending on air quality (dew point).

Flow characteristics

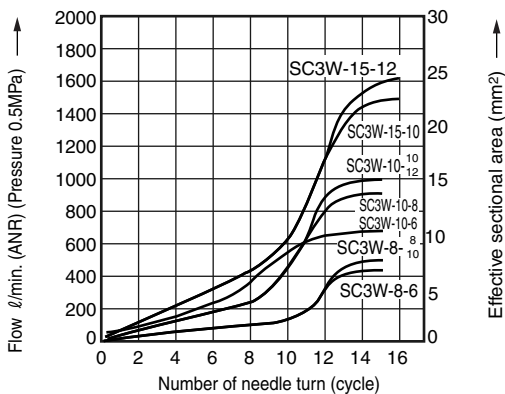
● Standard type (port size M3, M5)



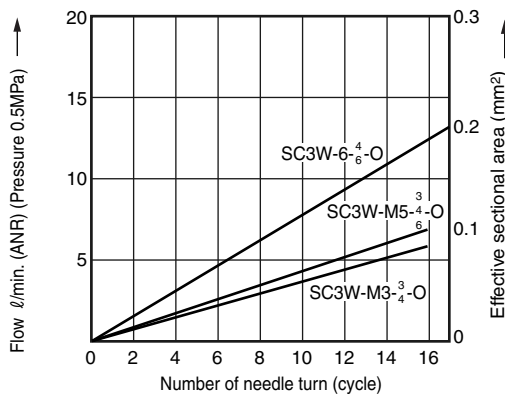
● Standard type (port size 1/8)



● Standard type (port size 1/4 to 1/2)



● Low speed type



How to order

SC3W - **M5** - **4** - **I**

Model no.

A Port size

B Applicable tube outer diameter

C Option Note1
Note 2
Note 3

Symbol	Descriptions						
A Port size							
M3	M3×0.5						
M5	M5×0.8						
6	R1/8						
8	R1/4						
10	R3/8						
15	R1/2						
B Applicable tube outer diameter							
		Port size					
		M3	M5	6	8	10	15
3	ø3.2	●	●				
4	ø4	●	●	●			
6	ø6		●	●	●	●	
8	ø8			●	●	●	
10	ø10				●	●	●
12	ø12					●	●
C Option							
Blank	Meter-out						
I	Meter-in (push ring color: black)						
K	Hexagon head lock nut						
O	Low speed type						
P6	Copper and PTFE free						

not available.

! Note on model no. selection

Note 1: Options are indicated as alphabetic order.

Note 2: "K" can be selected for only port size M3, M5.

Note 3: "O" can be selected for applicable tube outer diameter "4" (ø4),
"6" (ø6) for port size M3, M5 and "6" (R1/8).

<Example of model number>

SC3W-M5-4-I

A Port size : M5 × 0.8

B Applicable tube outer diameter : ø4

C Option : Meter-in

Ozone specifications (Ending 9)

SC3W—..... **P11**

Clean room specifications (catalog No. CB-033SA)

● Dust generation preventing structure for use in cleanrooms

SC3W—..... **P7***

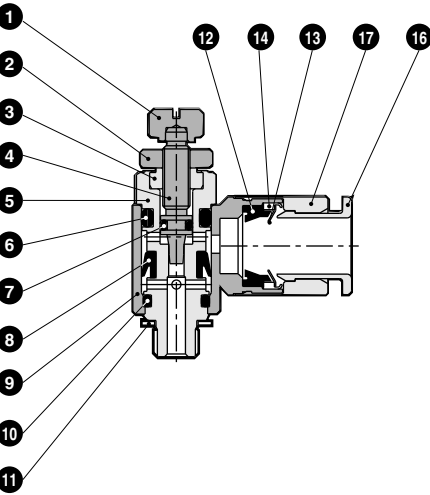
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Total air system (Gamma)
Ending

Elbow type with push-in joint
Speed control valve

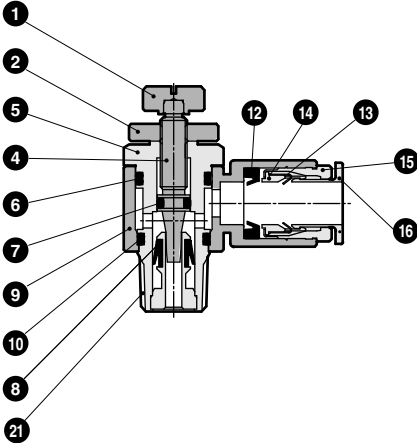
Internal structure and parts list

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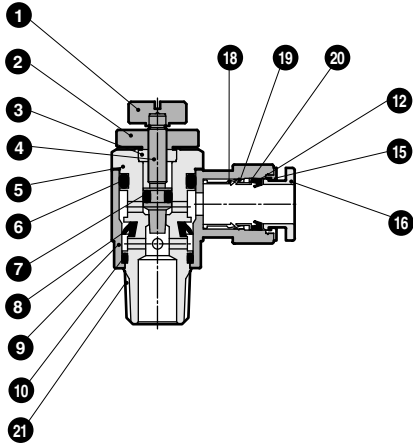
● Port size: M3, M5



● Port size: 1/8, 3/8(only ø6)



● Port size: 1/4 to 1/2



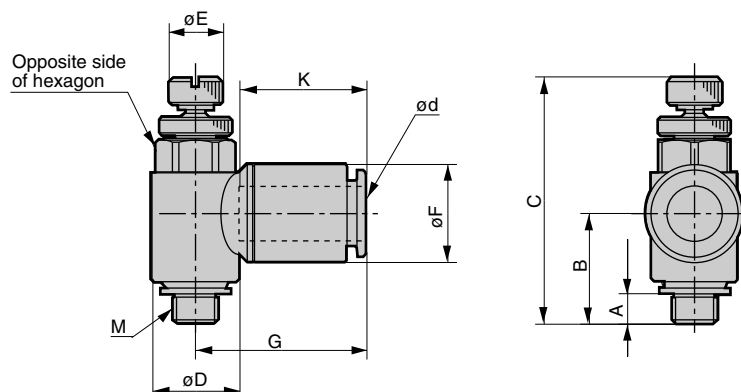
No.	Parts name	Material No.	No.	Parts name	Material
1	Knob	Brass	11	Gasket	Steel + nitrile rubber (only M5)
2	Lock nut	Brass	12	Packing seal	Nitrile rubber
3	Gland nut	Brass	13	Chuck	Stainless steel
4	Needle	Stainless steel	14	Chuck holder	M3,M5 Brass R1/8 Polyacetal
5	Rotary shaft	Brass (M3 is stainless steel)	15	Outer ring	Brass
6	O ring	Nitrile rubber	16	Push ring	PBT (flame resistance resin *2)
7	O ring	Nitrile rubber	17	Joint	Copper alloy
8	Packing seal	Hydrogen nitrile rubber	18	Chucking ring	Brass
9	Rotor	PBT (flame resistance resin *2)	19	Chucking guide	Brass
10	O ring	Nitrile rubber	20	Release ring	Brass
			21	Sealant	Fluorine system resin

*1 All the brass parts are plated with electroless nickeling
*2 Equivalent to UL94 standards V-O

Dimensions

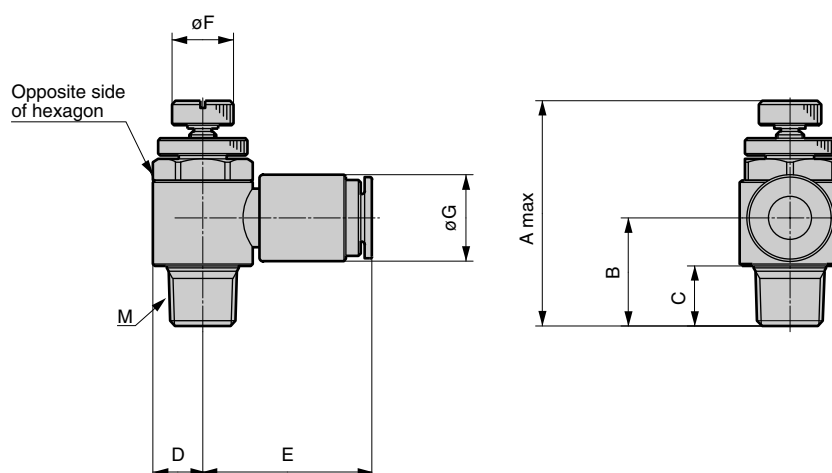


● SC3W-M₅³-*



Model no.	ϕd (Applicable tube O.D.)	M	A	B	C		D	E	F	G	K (tube insertion length)	Opposite side of hexagon
					MAX	MIN						
SC3W-M3-3	$\phi 3.2$	M3 $\times$ 0.5	2.4	11.4	27.6	25.1	7.4	5	7.5	15.5	11.7	7
SC3W-M3-4	$\phi 4$	M3 $\times$ 0.5	2.4	11.4	27.6	25.1	7.4	5	8.8	16.6	12.9	7
SC3W-M5-3	$\phi 3.2$	M5 $\times$ 0.8	3.4	12.4	30.2	27.2	9.6	6	7.5	16.0	11.7	8
SC3W-M5-4	$\phi 4$	M5 $\times$ 0.8	3.4	12.4	30.2	27.2	9.6	6	8.8	17.2	12.9	8
SC3W-M5-6	$\phi 6$	M5 $\times$ 0.8	3.4	12.4	30.2	27.2	9.6	6	10.8	18.8	14.0	8

● SC3W-₁₀⁶₁₅-* (as same as low speed type/standard (SC3W-6))



Model no.	M	Applicable tube O.D.	A	B	C	D	E	F	G	Opposite side of hexagon
SC3W-6-4	R1/8	$\phi 4$	38.4	16.2	8	7.3	23.1	9	10.0	13
SC3W-6-6		$\phi 6$	38.4	15.7	8	7.3	24.1	9	12.5	13
SC3W-6-8		$\phi 8$	38.4	15.4	8	7.3	25.3	9	14.5	13
SC3W-8-6	R1/4	$\phi 6$	51.2	24.9	11	9.5	27.2	12	13.8	17
SC3W-8-8		$\phi 8$	51.2	24.9	11	9.5	28.5	12	16.3	17
SC3W-8-10		$\phi 10$	51.2	23.9	11	9.5	32.0	12	19.3	17
SC3W-10-6	R3/8	$\phi 6$	52.4	23.1	12	11.3	28.3	14	12.5	19
SC3W-10-8		$\phi 8$	60.2	29.8	12	11.3	30.3	14	16.3	19
SC3W-10-10		$\phi 10$	60.2	30.0	12	11.3	33.8	14	19.3	19
SC3W-10-12		$\phi 12$	60.2	29.3	12	11.3	37.8	14	21.3	19
SC3W-15-10	R1/2	$\phi 10$	66.7	33.8	15	13.5	36.0	16	19.3	24
SC3W-15-12		$\phi 12$	66.7	33.8	15	13.5	40.0	16	21.3	24

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Suction
plate
Magnetic
spring buffer
Mechanical
pressure SW
Electronic
pressure SW
Contact / close
contact cont.
SW
Air sensor
Pressure SW
for coolant
Small
flow sensor
Small
flow controller
Flow sensor
for air
Flow sensor
for water
Total air
system
Total air
system
(Gamma)

Elbow type with push-in joint
Speed control valve