

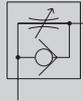


Pneumatic, Vacuum and Auxiliary Components  
Catalog No. CB-024SA

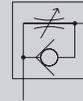
# Speed controller with adjusting dial DSC-FP1 Series

● Port size: R1/8 to R1/2

JISCode



(Meter-out)



(Meter-in)



## Specifications

Item		DSC-6			DSC-8			DSC-10				DSC-15	
Applicable tube bore	mm	ø4	ø6	ø8	ø6	ø8	ø10	ø6	ø8	ø10	ø12	ø10	ø12
Working fluid		Compressed air											
Max. working pressure	MPa	1.0											
Min. working pressure	MPa	0.05											
Proof pressure	MPa	1.5											
Fluid temperature	°C	5 to 60 (no freezing *2)											
Ambient temperature	°C	0 to 60 (no freezing)											
Port size		R 1/8			R 1/4			R 3/8				R 1/2	
Weight	g	33	34	35	45	46	48	60	61	64	65	95	97
Needle control range		1 to 10 rotations											
Free flow	Flow rate L/min (ANR)	210	270	270	470	530	530	670	1000	1070	1070	1470	1600
	Effective cross-sectional area mm <sup>2</sup>	3.2	4	4	7	8	8	10	15	16	16	22	24
Controlled flow (Standard flow rate)	Flow rate L/min (ANR)	160	200	200	320	400	400	400	700	800	800	1120	1200
	Effective cross-sectional area mm <sup>2</sup>	2.4	3	3	5	6	6	6	10.5	12	12	17	17.5
Controlled flow (Low flow rate)	Flow rate L/min (ANR)	60			130			270				400	
	Effective cross-sectional area mm <sup>2</sup>	0.9			2			4				6	

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

\*2: Freezing may occur due to adiabatic expansion depending on the air quality (dew point).

## How to order

**DSC - 6 - 6 - I L - FP1**

A Port size

B Applicable tube bore

C Control method

D Flow rate

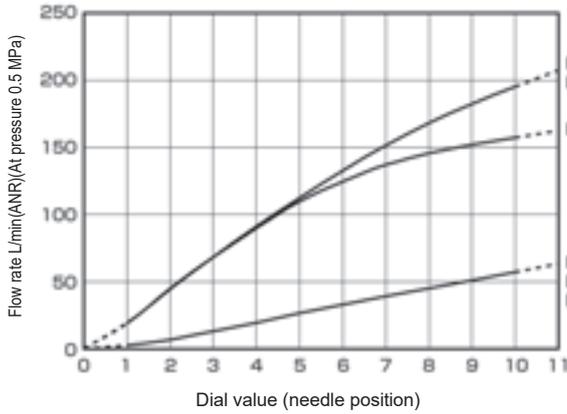
Code	Description
<b>A Port size</b>	
6	R 1/8
8	R 1/4
10	R 3/8
15	R 1/2
<b>B Applicable tube bore</b>	
4	ø4
6	ø6
8	ø8
10	ø10
12	ø12
<b>C Control method</b>	
Blank	Meter-out
I	Meter-in (Push ring color: black)
<b>D Flow rate</b>	
Blank	Standard flow rate
L	Low flow rate

Port size - compatible tube O.D. combination

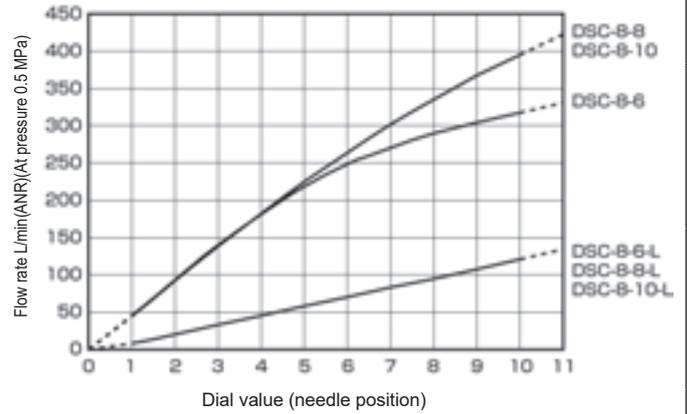
Tube \ Piping	R 1/8	R 1/4	R 3/8	R 1/2
ø4	●			
ø6	●	●	●	
ø8	●	●	●	
ø10		●	●	●
ø12			●	●

### Flow characteristics

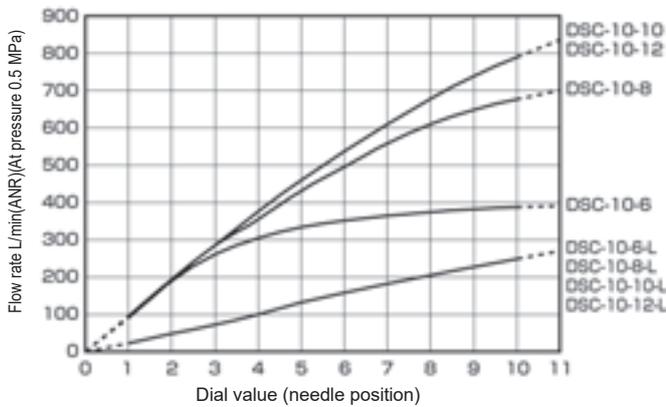
●DSC-6-\*



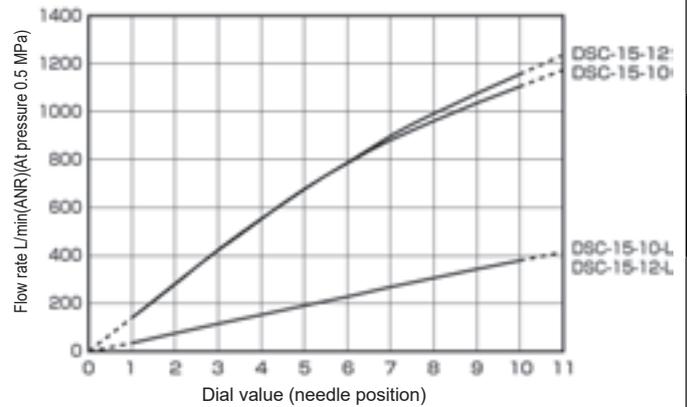
●DSC-8-\*



●DSC-10-\*

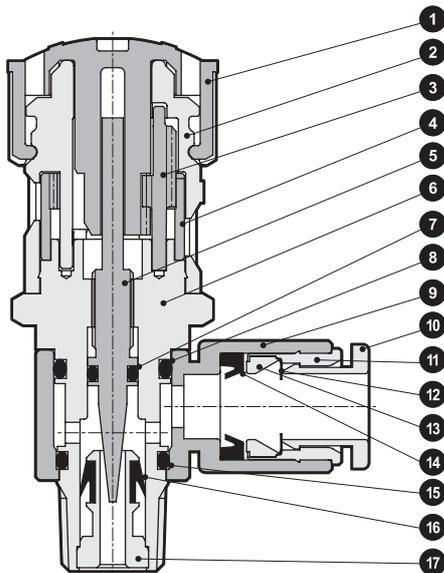


●DSC-15-\*



Note: The flow characteristics may differ depending on the piping conditions around the unit and the temperature change.

### Internal structure and parts list



Part No.	Part name	Material
1	Knob	Polyacetal
2	Gear cover	Polybutylene terephthalate
3	Gear	Stainless steel
4	Indication ring	Polyacetal
5	Needle	Stainless steel
6	Rotary shaft	Copper alloy
7	O-ring	Nitrile rubber
8	O-ring	Nitrile rubber
9	Rotor	Polybutylene terephthalate
10	Push ring	Polybutylene terephthalate
11	Outer ring	Copper alloy
12	Chuck	Stainless steel
13	Chuck holder	Polyetherimide
14	Packing	Nitrile rubber
15	O-ring	Nitrile rubber
16	Packing	Hydrogenated nitrile rubber
17	Check part	Copper alloy

\*1: All the copper alloy parts have electroless nickel plating.

For dimensions, refer to the DSC Series in "Pneumatic, Vacuum and Auxiliary components (CB-024SA)".

Electric actuator  
 Pneumatic cylinders  
 Assistive device  
 Pneumatic valves  
 FRL/Auxiliary Components  
 Electronic Component  
 Vacuum components  
 Main line components  
 Fluid control valves  
 Main line components  
 Anti-bacterial/bacteria-removing filter  
 Vacuum components  
 Fluid control valves

FP1

FP2