



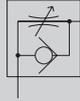
Pneumatic, Vacuum and Auxiliary Components
Catalog No. CB-024SA

Speed controller with adjusting dial

DSC Series

● Port size: M5, R1/8 to R1/2

JIS symbol



(Meter-out)



(Meter-in)



Specifications

● Compact

Item		DSC-C-M5			DSC-C-6		
Compatible tube O.D.	mm	ø4	ø6	ø4	ø6	ø8	
Port size		M5			R1/8		
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)					
Needle control range		1 to 7 rotations					
Weight	g	11.5	12	22	23	24	
Free flow	Flow rate L/min (ANR)	100			270		
	Effective cross-sectional area mm ²	1.5			4		
Controlled flow (Standard flow rate)	Flow rate L/min (ANR)	60			200		
	Effective cross-sectional area mm ²	0.9			3		
Controlled flow (Low flow rate)	Flow rate L/min (ANR)	20			60		
	Effective cross-sectional area mm ²	0.3			0.9		
Controlled flow (fine flow rate)	Flow rate L/min (ANR)	6.7			13		-
	Effective cross-sectional area mm ²	0.1			0.2		-

● Standard

Item		DSC-6			DSC-8			DSC-10				DSC-15	
Compatible tube O.D.	mm	ø4	ø6	ø8	ø6	ø8	ø10	ø6	ø8	ø10	ø12	ø10	ø12
Port size		R 1/8			R 1/4			R 3/8				R 1/2	
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)											
Needle control range		1 to 10 rotations											
Weight	g	33	34	35	45	46	48	60	61	64	65	95	97
Free flow	Flow rate L/min (ANR)	210	270		470	530		670	1000	1070		1470	1600
	Effective cross-sectional area mm ²	3.2	4		7	8		10	15	16		22	24
Controlled flow (Standard flow rate)	Flow rate L/min (ANR)	160	200		320	400		400	700	800		1120	1200
	Effective cross-sectional area mm ²	2.4	3		5	6		6	10.5	12		17	17.5
Controlled flow (Low flow rate)	Flow rate L/min (ANR)	60			130			270				400	
	Effective cross-sectional area mm ²	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 - **C** - **6** - **6** - **I** **L** - **P4**

A Product size

B Port size

C Compatible tube O.D.

D Control method

E Flow rate

Code	Description
A Product size	
Blank	Standard
-C	Compact
B Port size	
M5	M5
6	R1/8
8	R1/4
10	R3/8
15	R1/2
C Compatible tube O.D.	
4	ø4
6	ø6
8	ø8
10	ø10
12	ø12
D Control method	
Blank	Meter-out
I	Meter-in (Push ring color: black)
E Flow rate	
Blank	Standard flow rate
L	Low flow rate
F	Fine flow rate (compact only)

Port size - compatible tube O.D. - flow rate combination

Product size	Compact		Standard			
	M5	R1/8	R1/8	R1/4	R3/8	R1/2
ø4	⊙	⊙	○			
ø6	⊙	⊙	○	○	○	
ø8		○	○	○	○	
ø10				○	○	○
ø12					○	○

○: Flow rate "F" (fine flow rate) cannot be selected

⊙: Flow rate "F" (fine flow rate) can be selected

Compatibility table by variation

	DSC	DSC-C
Port size	M5, R1/8, 1/4, 3/8, 1/2	M5, R1/8
P4	●	▲

●: Applicable models ○: Semi-applicable models ▲: Contact CKD for details.
 □: Not applicable

P4
Series

Pneumatic actuator
Pneumatic cylinders
Hand/Chuck
Related products
Cylinder Switch

Vacuum components
Pneumatic valves

Clean air components
Speed controller

Fitting
Auxiliary valve

Speed controller
Fitting
Auxiliary valve

Speed controller
Fitting
Auxiliary valve
Silencer
Tube

Speed controller
Fitting
Auxiliary valve
Silencer
Tube
Gas generator

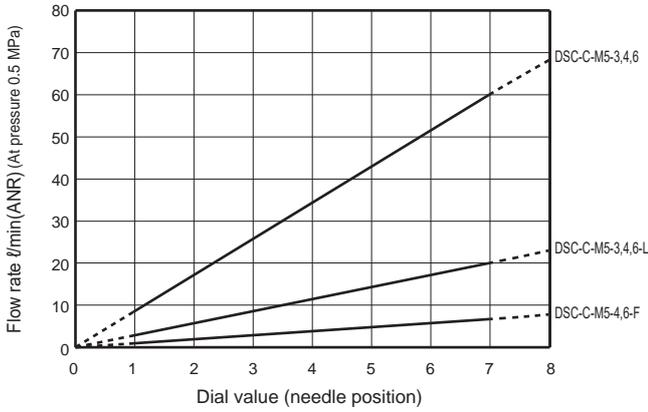
Speed controller
Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components

Speed controller
Fitting
Auxiliary valve
Silencer
Tube
Gas generator
Fluid control components
Electric actuator

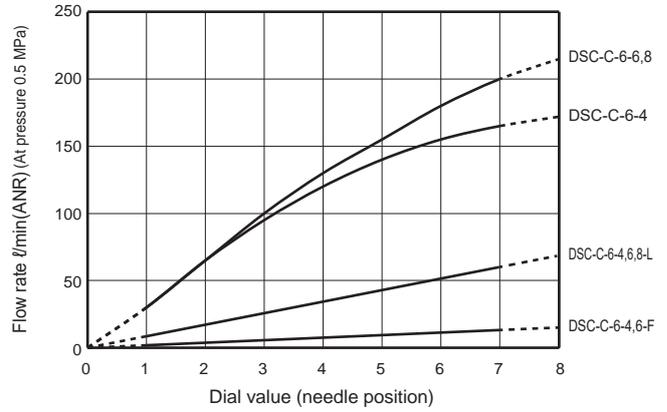
Flow characteristics

● Compact

● DSC-C-M5-*

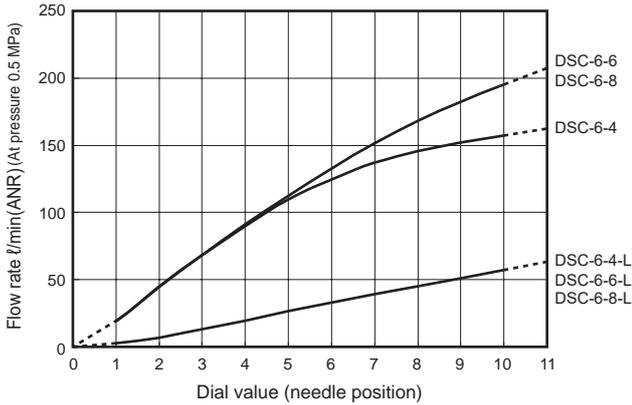


● DSC-C-6-*

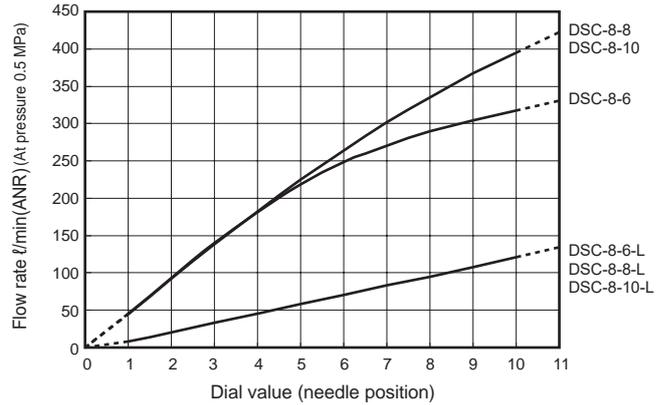


● Standard

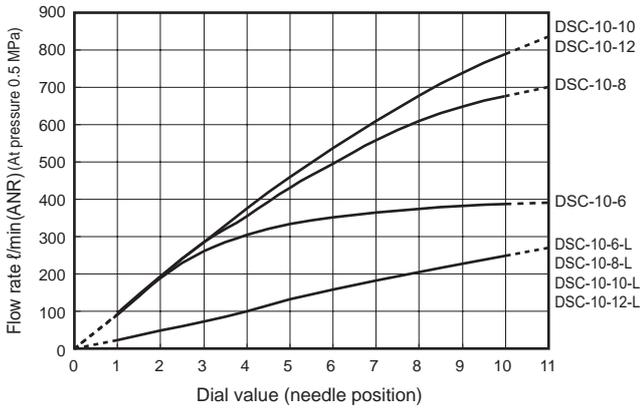
● DSC-6-*



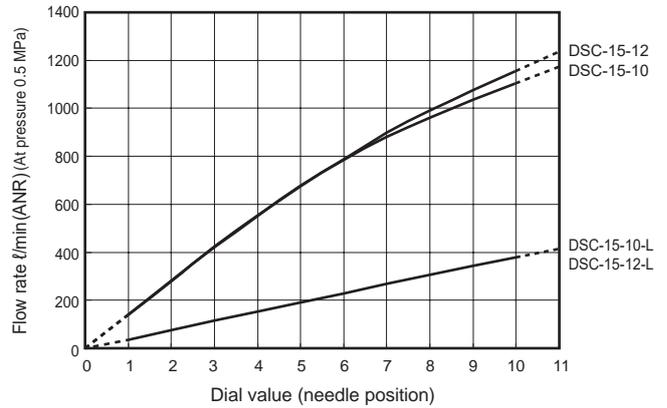
● DSC-8-*



● DSC-10-*



● DSC-15-*



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

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 Gas generator
 Fluid control components
 Motor specifications
 Motor specification