

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			
	mm	ø3.2	ø4	ø6	ø4	ø6	ø8
Compatible tube O.D.	mm	ø3.2	ø4	ø6	ø4	ø6	ø8
Port size		M5			R1/8		
Working fluid		Compressed air					
Max. working pressure	MPa	1.0 (≈150 psi, 10 bar)					
Min. working pressure	MPa	0.05 (≈7.3 psi, 0.5 bar)					
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)					
Fluid temperature	°C	5 (41°F) to 60 (140°F) (no freezing. *2)					
Ambient temperature	°C	0 (32°F) to 60 (140°F) (no freezing)					
Needle control range		1 to 7 rotations					
Weight	g	10.5	11.5	12	22	23	24
Free flow	Flow rate ℓ/min(ANR)	87	100		210	270	
	Eff. X-sectional area mm ²	1.3	1.5		3.2	4	
Controlled flow (Standard flow rate)	Flow rate ℓ/min(ANR)	60			160	200	
	Eff. X-sectional area mm ²	0.9			2.4	3	
Controlled flow (Low flow rate)	Flow rate ℓ/min(ANR)	20			60		
	Eff. X-sectional area mm ²	0.3			0.9		
Controlled flow (fine flow rate)	Flow rate ℓ/min(ANR)	-	6.7		13	-	
	Eff. X-sectional area mm ²	-	0.1		0.2	-	

● Standard

Item	DSC-6			DSC-8			DSC-10				DSC-15		
	mm	ø4	ø6	ø8	ø6	ø8	ø10	ø6	ø8	ø10	ø12	ø10	ø12
Compatible tube O.D.	mm	ø4	ø6	ø8	ø6	ø8	ø10	ø6	ø8	ø10	ø12	ø10	ø12
Port size		R1/8			R1/4			R3/8				R1/2	
Working fluid		Compressed air											
Max. working pressure	MPa	1.0 (≈150 psi, 10 bar)											
Min. working pressure	MPa	0.05 (≈7.3 psi, 0.5 bar)											
Proof pressure	MPa	1.5 (≈220 psi, 15 bar)											
Fluid temperature	°C	5 (41°F) to 60 (140°F) (no freezing. *2)											
Ambient temperature	°C	0 (32°F) to 60 (140°F) (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
	Eff. X-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
	Eff. X-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	
	Eff. X-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).

Specifications for rechargeable battery

● Structure suitable for use in general assembly during the rechargeable battery manufacturing process.

DSC - - P4

Clean-room specifications

● Anti-dust generation structure for use in clean rooms.

DSC - - P70