





SKC-C circular constant air volume dampers

The **SKC-C** series dampers are designed to facilitate balancing of ventilation systems. Damper suitable for circular duct mounting.

- Those dampers maintain the constant air volume at varying pressures, caused by connection and disconnection of system parts, clogging of filters and ducts, window opening etc.
- The adjustment knob has a graduated rate scale allows quick and easy adjustment of the desired air flow.
- Possibility of adding an actuator to automatically adjust two different airflows.
- Each nominal size damper allows a selection of flow with a ratio Vmax Vmin 3:1.

Product advantages:

- Autonomous system.
- Easy airflow adjustment.
- Possibility of working with two airflows.
- Automatic balancing of the duct network.
- Economical installation.
- Ease of maintenance.

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- - Offices
 - □ Hotels
 - ☐ Hospitals and clean rooms







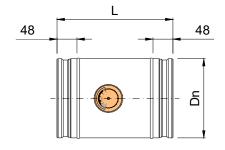


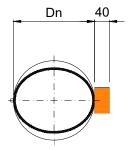




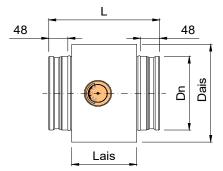


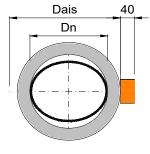
SKC-C /MA/



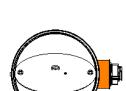


SKC-C /MA/ AIS/



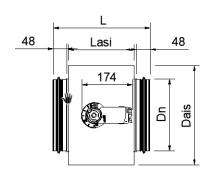


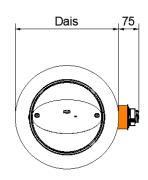
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SKC-C/ MK/

SKC-C /MK/ AIS/





D	Dn	Dais	L	L ais
80	78	-	225	_
100	98	178	270	157
125	123	203	270	157
160	158	238	295	182
200	198	278	295	182
250	248	328	335	222
315	313	393	340	227
355	353	433	380	267
400	398	478	420	307

CLASIFICATION

SKC-C /MA/ Circular damper with manual device for setting of one flow. Connection to the duct according to EN-1506 standard.

Airtight casing according to EN-1751 standard.

100 < D(Ø) < 400 EN-1751 Casing Class C.

SKC-C/MK/CM 24L...230L/ Damper with Belimo On/Off actuator at 24v or 230v 2N.

SKC-C/MK/CM 24-SX-L/ Damper with proportional Belimo actuator (2-10V) at 24v 2N.

.../AIS/ Thermal insulation with foam.

MATERIAL

Damper constructed from galvanized steel. Tightness joint from rubber.

FIXING SYSTEMS

1) Connection into a circular duct. Incorporates tightness joint from rubber to prevent air leakage in its connection to the duct.

FINISHES

Galvanized steel.

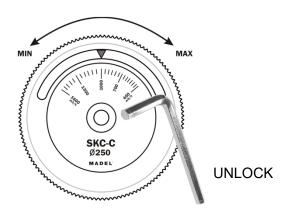
SPECIFICATION TEXT

Supply and mounting of circular constant air volume damper to facilitate balancing of ventilation systems series **SKC-C/MA** Diam. Constructed from galvanized steel and tightness joint from rubber. Airtight casing according to EN-1751 standard. Manufacturer **MADEL**.

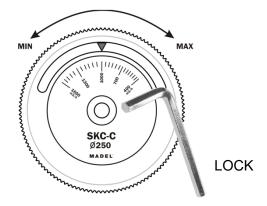
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SKC-C/MA/ MANUAL DAMPERS



1: Unscrew the central screw with an Allen key and rotate the orange knob to the desired flow rate.

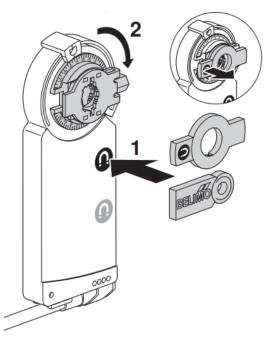


2: Once at the desired flow rate, tighten the central screw again. Medium-strong squeeze.

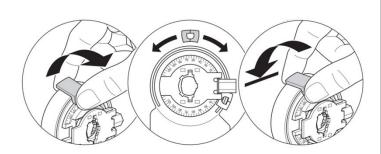
SKC-C/MK/CM/ MOTORIZED DAMPERS

The motorized constant air volume dampers are pre-set at the maximum and minimum flow, in case you want to modify these limits, proceed as follows:

 Remove the magnetic anti-rotation piece that is attached to the shaft of the damper (orange) Leave it glued to the magnet indicator (1) From this moment the motor shaft is released (2)



2. With your hand, remove the gray plastic stops and place them in the desired limits.



3. Reposition the anti-rotation piece on the damper shaft.



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SKC-C /MK/CM/ DAMPERS CONNECTION DIAGRAMS

ON/OFF actuators

MK/CM 24L Belimo actuator 24V 2N MK/CM 230L Belimo actuator 230V 2N

Proportional actuators (2-10V)

MK/CM 24-SX-L Belimo actuator 24V 2N

CONNECTION DIAGRAMS MK/CM24-SX-L AC/DC 24 V On /Off AC/DC 24 V 3 points MK/CM24L AC/DC 24 V proportional Y - DC (0)2...10 V U-▶ DC 2...10 V Wire colors 1 . Black I I 2. Red 2 3 5 3. White AC 230 V On /Off AC 230 V 3 points MK/CM230L Wire colors Wire colors 1 . Black 2. Red 1. Blue 3. White 2. Brown 5. Orange 3. White

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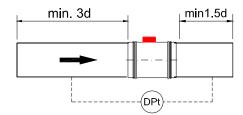












RECOMMENDED AIRFLOW

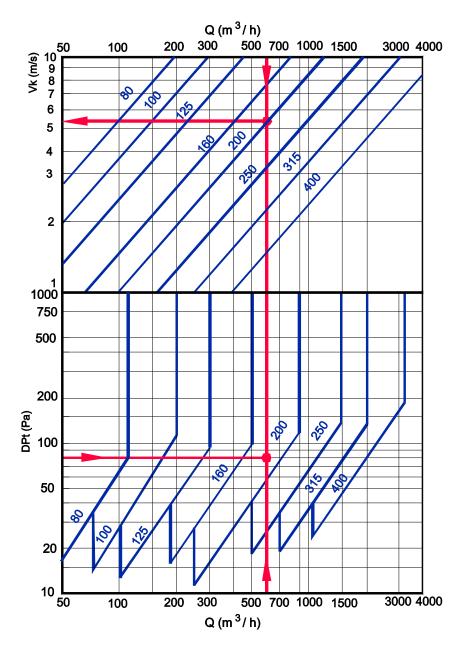
Ø	Q (m3/h)		dPmin (Pa)
80	Qmin	60	50 < P < 1000
	Qmax	150	115< P < 1000
100	Qmin	100	50 < P < 1000
	Qmax	250	110 < P < 1000
125	Qmin	100	50 < P < 1000
120	Qmax	350	80 < P < 1000
160	Qmin	180	50 < P < 1000
	Qmax	600	100 < P < 1000
200	Qmin	250	50 < P < 1000
	Qmax	900	125 < P < 1000
250	Qmin	450	50 < P < 1000
	Qmax	1200	135 < P < 1000
315	Qmin	700	50 < P < 1000
	Qmax	2100	220 < P < 1000
355	Qmin	900	50 < P < 1000
	Qmax	2600	220 < P < 1000
400	Qmin	1000	50 < P < 1000
	Qmax	3400	220 < P < 1000

SOUND POWER LEVEL

80	40 60 85 125 70 110 170 210 110 175 265 330 180	100 Pa 38 42 45 49 43 46 49 51 44 47	250 Pa 50 52 54 58 50 54 58 60 51	500 Pa 57 59 61 65 55 60 64 65 56
100	60 85 125 70 110 170 210 110 175 265 330	42 45 49 43 46 49 51 44 47	52 54 58 50 54 58 60 51	59 61 65 55 60 64 65
100	85 125 70 110 170 210 110 175 265 330	45 49 43 46 49 51 44 47	54 58 50 54 58 60 51	61 65 55 60 64 65
100	125 70 110 170 210 110 175 265 330	49 43 46 49 51 44 47	58 50 54 58 60 51	65 55 60 64 65
125	70 110 170 210 110 175 265 330	43 46 49 51 44 47	50 54 58 60 51	55 60 64 65
125	110 170 210 110 175 265 330	46 49 51 44 47	54 58 60 51	60 64 65
125	170 210 110 175 265 330	49 51 44 47	58 60 51	64 65
125	210 110 175 265 330	51 44 47	60 51	65
	110 175 265 330	44 47	51	
	175 265 330	47	••	EC
	265 330		EE	00
	330	40	55	61
160		47	58	65
160	180	51	60	66
160		45	54	60
160	290	48	57	63
	435	49	58	65
	540	51	59	66
	280	46	57	64
200	450	48	59	66
200	680	50	59	67
	850	51	59	67
	450	47	47	65
250	700	49	59	66
250 1	1060	51	59	67
1	325	52	61	67
	700	48	60	66
315	120	50	59	67
310 1	680	54	60	67
2	2100	57	62	68
	890	49	61	67
335	425	50	61	66
330 2	2150	56	62	68
2	2600	61	64	70
1	130	50	62	68
400	800	51	61	66
400 2	2700	61	63	68
3		65	66	71

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FREE VELOCITY, PRESSURE LOSS



EXAMPLE: To keep a constant airflow in situations where there is an increment of pressure.

Airflow to keep	Selected size
Q=600 m3/h)	SKC-C 200
Difference of available pressure	Pressure range
P=80 Pa	60 < P < 1000 Pa
	Velocity inside the duct
	Vk = 5.3 m3/h

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