SKC-C circular constant air volume dampers

MADEL®

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

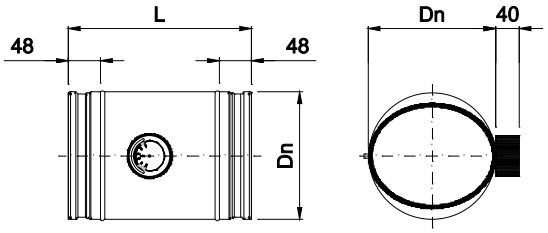
Those dampers maintain the constant air volume at varying pressures, caused by connection and disconnection of system parts, clogging of filters and ducts, wind effects, window opening etc.

SKC-C is an automatic damper independent of external energy sources.

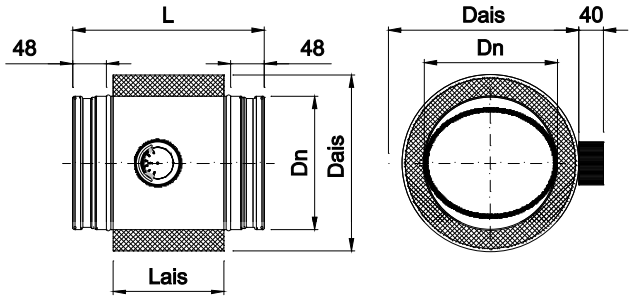
This operation is based on the balance of forces on the blade between the air pressure and the reactive forces that exert a spring and a inflatable damper.

The adjustment knob has a graduated rate scale allows quick and easy adjustment of the desired air flow. Each nominal size damper allows a selection of flow with a ratio Vmax Vmin 3:1.

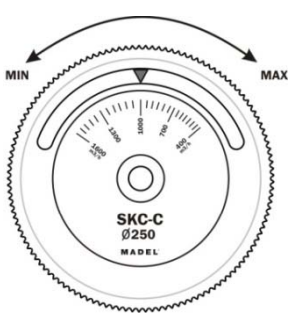
SKC-C/ MA



SKC-C/AIS/ MA



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



CLASSIFICATION

SKC-C/ MA Circular damper with manual device for setting of one flow. Incorporates tightness joint from rubber to prevent air leakage and whistles in its connection to the duct. Connection to the duct according to EN-1506 standard.
Airtigh casing according to EN-1751 standard.
100 < D(Ø) < 400 EN-1751 Caising Class C.

.../SJ/ Damper without tightness joint .
…/AIS/ Thermo-acoustical insulation.

MATERIAL

Damper constructed from galvanized steel.
Tightness joint from rubber.

FIXING SYSTEMS

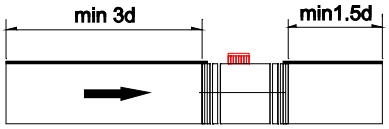
Connection into a circular duct.

FINISHES

Galvanized steel.

SPECIFICATION TEXT

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



DPt

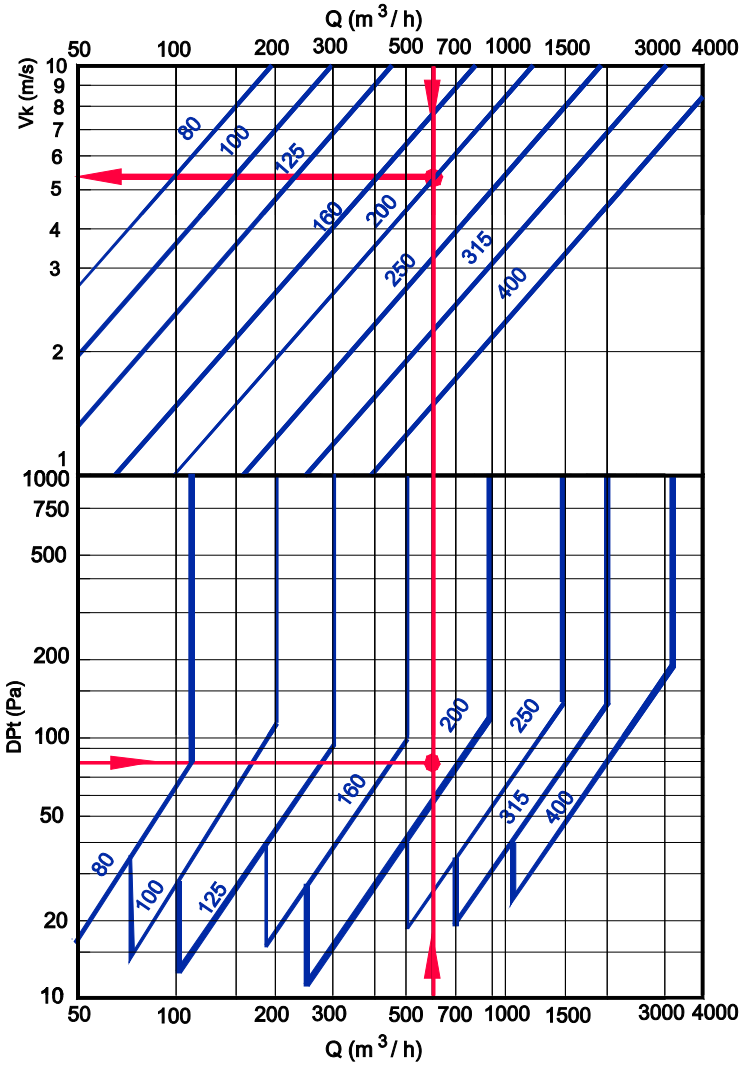
RECOMMENDED AIRFLOW

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
	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

Ø	Q	L wa1		
		100 Pa	250 Pa	500 Pa
80	40	38	50	57
	60	42	52	59
	85	45	54	61
	125	49	58	65
100	70	43	50	55
	110	46	54	60
	170	49	58	64
	210	51	60	65
125	110	44	51	56
	175	47	55	61
	265	49	58	65
	330	51	60	66
160	180	45	54	60
	290	48	57	63
	435	49	58	65
	540	51	59	66
200	280	46	57	64
	450	48	59	66
	680	50	59	67
	850	51	59	67
250	450	47	47	65
	700	49	59	66
	1060	51	59	67
	1325	52	61	67
315	700	48	60	66
	1120	50	59	67
	1680	54	60	67
	2100	57	62	68
335	890	49	61	67
	1425	50	61	66
	2150	56	62	68
	2600	61	64	70
400	1130	50	62	68
	1800	51	61	66
	2700	61	63	68
	3400	65	66	71

FREE VELOCITY, PRESSURE LOSS



EXAMPLE:

To keep a constant airflow in situations where there is an increment of presure

Airflow to keep
Q=600m3/h
Difference of presure available
P=80Pa

Selected dimension
SKC 200
Rang of presure
60<P<1000
Velocity in the duct
Vk=5,3m/s