

IRIS DAMPER

2.2.3B

RCI

The circular damper **Iris** is especially designed to measure and control air flows in circular ductworks.

Pressure tapings enable an accurate adjustment of the airflow.
The circular damper **Iris** is equipped with seals ensuring airtightness.



VOLUME CONTROL

CONSTRUCTION

Control

Ø100 to 800: manual iris control with a spanner

Ø80: iris control by lateral lever

Pressure tapings in PVC

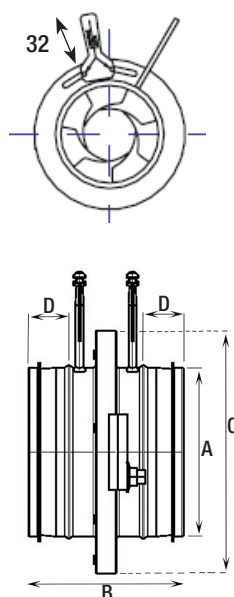


Casing

Galvanized steel

Frame airtightness class C (EN 1751)

Seals in Nitrile Butadiene Rubber



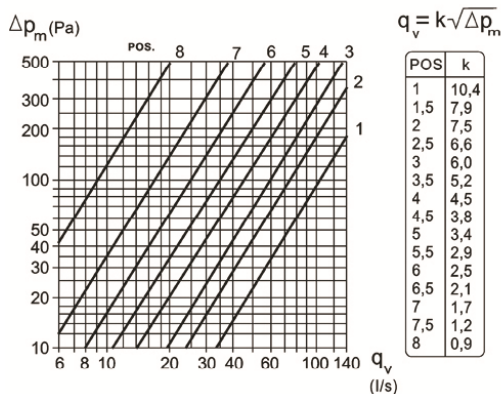
Size	A (mm)	B (mm)	C (mm)	D (mm)	Weight (kg)
80	79	115	125	35	0,5
100	99	115	165	30	0,5
125	124	115	188	30	0,7
160	159	115	230	30	0,9
200	199	120	285	30	1,4
250	249	135	335	40	2,1
315	314	140	405	40	3,5
400	399	150	525	55	6,4
500	499	150	655	52	9,6
630	629	160	815	60	15,6
800	799	290	1015	120	25,0

PRESSURE LOSS & REGENERATION

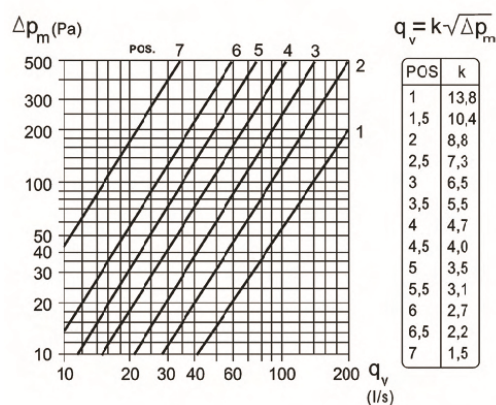
L_{p10A} = sound pressure level on 10 m² with 4 dB absorbed by the room - in dB(A)

Graphs below show pressure drop according to the air flow and the opening :

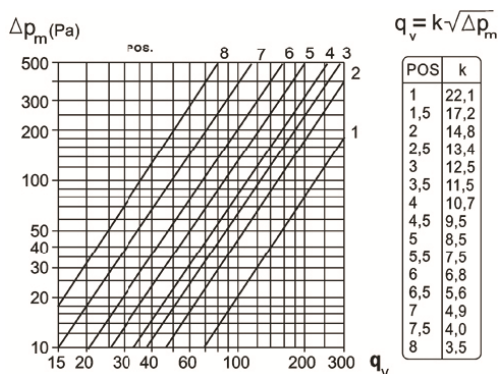
Ø100



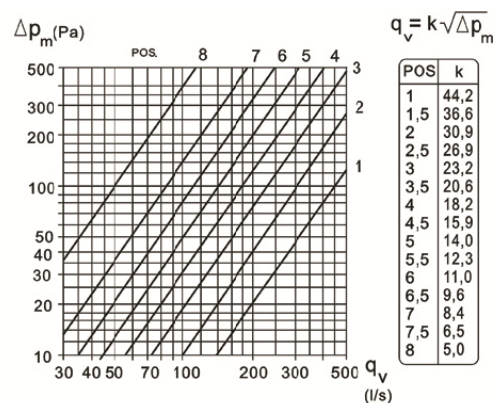
Ø125



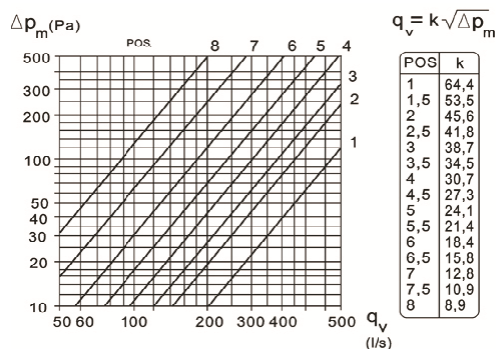
Ø160



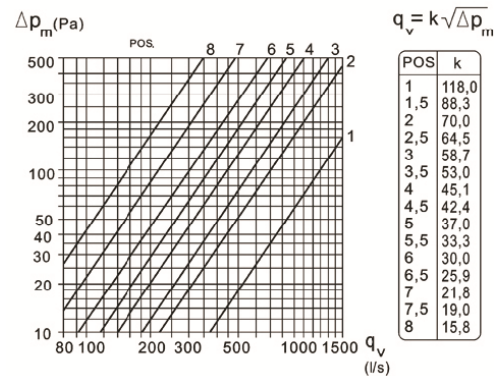
Ø200



Ø250

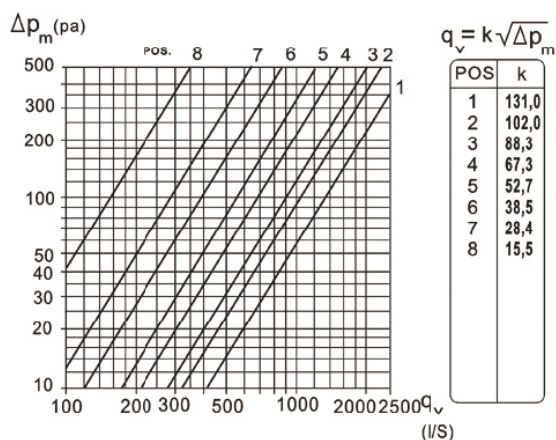


Ø315

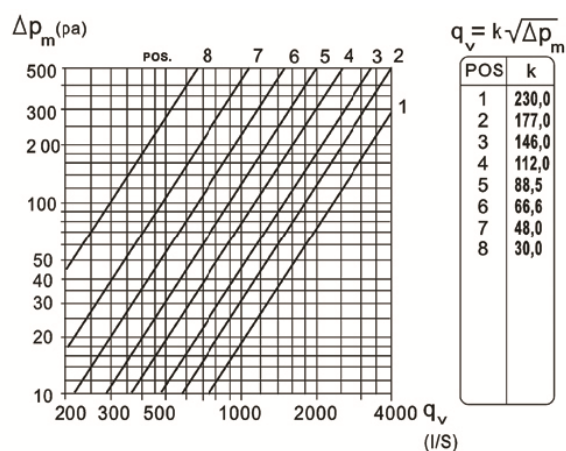


Information and data can not be considered as contractual. Design and data changes may occur without notice during F2A's continuous product development.

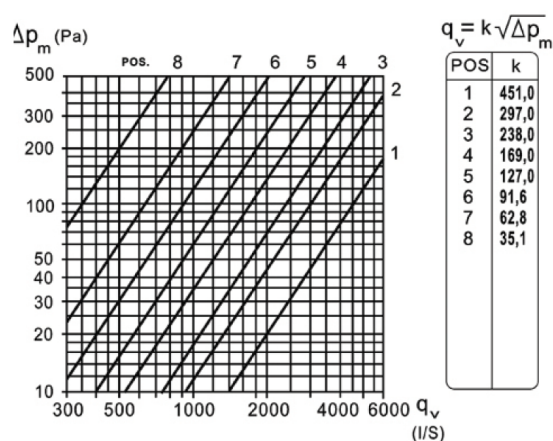
Ø400



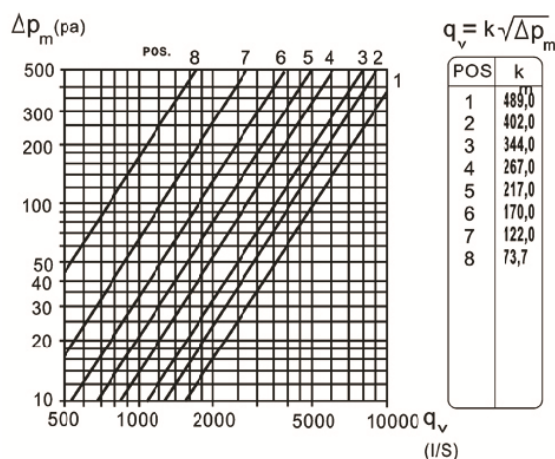
Ø500



Ø630



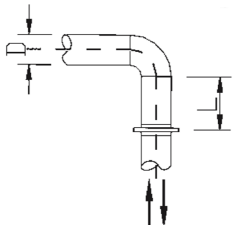
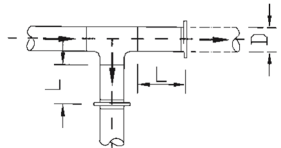
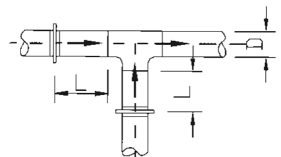
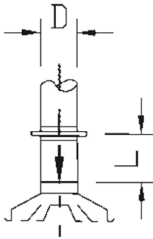
Ø800



RECOMMENDATIONS

In order to obtain accurate airflow measures & an optimal air volume control, the following recommendations must be followed.

The running of the IRIS damper is independent of the air flow direction.

Type of flow disturbance	Required safety distance L	
	Measure accuracy $\pm 7\%$	Measure accuracy $\pm 10\%$
	$\geq 1 D$	$\geq 1 D$
	$\geq 4 D$	$\geq 2 D$
	$\geq 2 D$	$\geq 2 D$
	$\geq 2 D$	$\geq 2 D$

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