



Serie **CIRIS**



IRIS-TYPE REGULATING DAMPER



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IRIS-TYPE REGULATING DAMPER

SERIE CIRIS



Both versions share the same dimensions, features, and accessories. The suffixes "G" and "I" indicate the reference material.

GENERAL DESCRIPTION

Iris-type diaphragm control dampers are specially designed to measure and regulate air flow in circular ventilation and HVAC ducts.

The damper consists of a body and a diaphragm, made of galvanized steel or, in the stainless steel version, 316L stainless steel.

- Two versions are available for all diameters: galvanized steel (G) and 316L stainless steel (I).
- Diameters from 80 to 800 mm.
- Plastic adjustment nut with plastic wrench.
- Pressure ports on each side of the damper for connecting a pressure gauge.
- Selection chart showing the airflow rate as a function of the damper's various opening positions and the corresponding pressures.
- Double-lip seal for a leak-tight connection to the duct.
- Operating temperature range: -10 °C to +80 °C.
- Seal Class C according to EN 1751.

IRIS-TYPE REGULATING DAMPER SERIE CIRIS

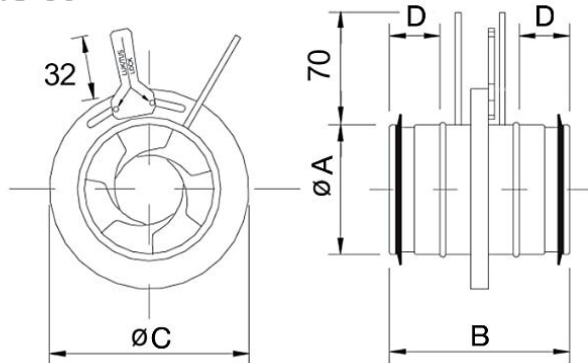
SPECIFICATION TERMINOLOGY

Sample specification for a Ø 200 mm damper:

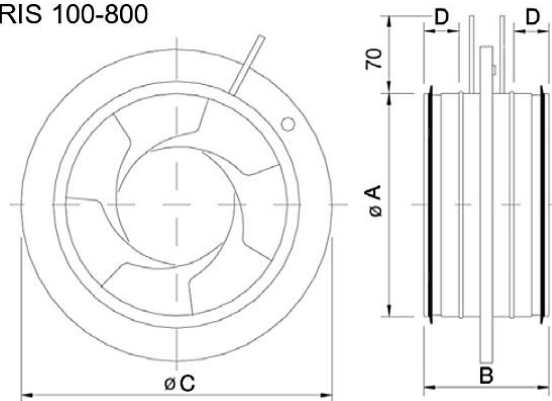
SERIES	SIZE	MATERIAL	REFERENCE	DESCRIPTION
CIRIS	200	G – GALVANIZED STEEL	CIRIS200G	CIRIS-200-GALVA
CIRIS	200	I – STAINLESS STEEL	CIRIS200I	CIRIS-200-INOX

DIMENSIONS

CIRIS 80



CIRIS 100-800



CIRIS: GALVANIZED STEEL (G) – STAINLESS STEEL 316L (I)

Ø NOMINAL	Galvanized reference	Stainless Steel reference	A	B	C	D	Weight (Kg)
Ø80	CIRIS80G	CIRIS80G	79	115	125	35	0.5
Ø100	CIRIS100G	CIRIS100G	99	115	165	30	0.6
Ø125	CIRIS125G	CIRIS125G	124	115	188	30	0.7
Ø150	CIRIS150G	CIRIS150G	149	115	230	30	1.0
Ø160	CIRIS160G	CIRIS160G	159	115	230	30	1.0
Ø200	CIRIS200G	CIRIS200G	199	120	285	30	1.4
Ø250	CIRIS250G	CIRIS250G	249	135	335	40	2.0
Ø300	CIRIS300G	CIRIS300G	299	140	405	40	2.6
Ø315	CIRIS315G	CIRIS315G	314	140	405	40	2.6
Ø400	CIRIS400G	CIRIS400G	399	150	525	55	6.5
Ø500	CIRIS500G	CIRIS500G	499	150	655	52	9.0
Ø630	CIRIS630G	CIRIS630G	629	160	815	60	16.0
Ø800	CIRIS800G	CIRIS800G	799	290	1015	120	25.0

Dimensions A, B, C, and D as shown in the dimensioned drawings above. Approximate weights for the galvanized steel version.

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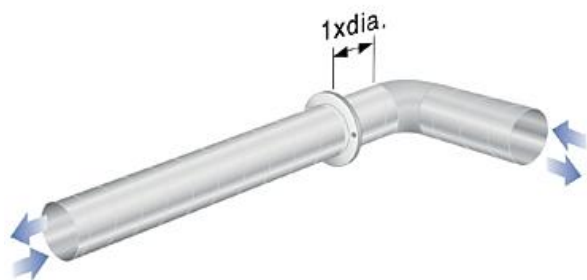
INSTALLATION RECOMMENDATIONS

To ensure accurate flow measurement and proper control, the installation instructions must be followed. Following these instructions guarantees optimal operation of the equipment.

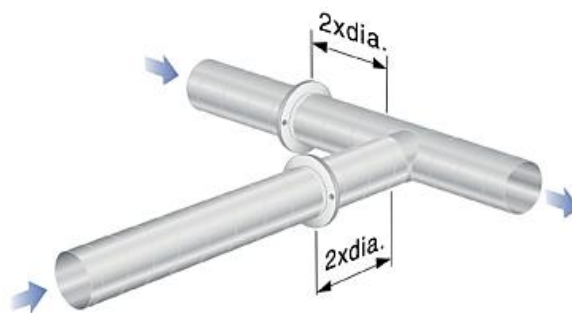
However, the iris damper operates regardless of the direction of airflow.

The maximum permissible measurement deviation is $\pm 7\%$. This value remains the same even when the damper is installed near a tee or an elbow.

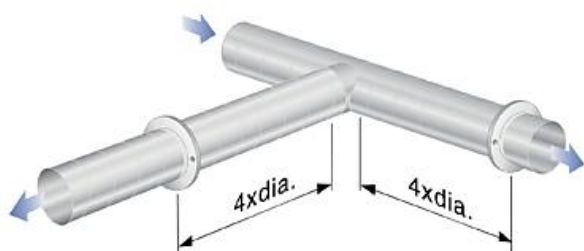
Recommended safety distances for typical applications:



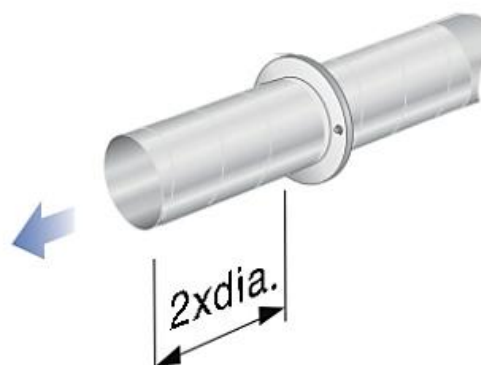
Elbow



"Tee" Convergence of air flows



"Tee" Flow distribution



"Tee" Operation with diffuser

The distances listed are measured between the damper and the fitting (elbow, tee, or diffuser) and are expressed as multiples of the nominal diameter of the duct.



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