

Smart Disc Valve

Disc-Smart



Disc-Smart motorized circular damper with integrated disc valve is designed for installation within circular air distribution duct systems, providing precise modulation and control of airflow to individual zones. The unit combines a galvanized steel circular damper body with a factory-mounted disc valve assembly, enabling both volumetric airflow regulation and terminal air distribution within a single compact solution.

Equipped with a high-performance electric actuator, the damper ensures accurate positioning, reliable torque transmission, and stable operation under varying static pressure conditions. The integrated disc valve allows fine adjustment of supply air volume, contributing to optimal balancing of HVAC systems and improved indoor climate control.

The assembly is engineered for airtight performance, low pressure drop characteristics, and ease of installation in new or retrofit duct applications. Suitable for use in residential, commercial, and light industrial ventilation systems, the Disc-Smart unit enhances energy efficiency by enabling demand-based airflow control at the zone level.

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Airflow Performance Table

Disc-Smart

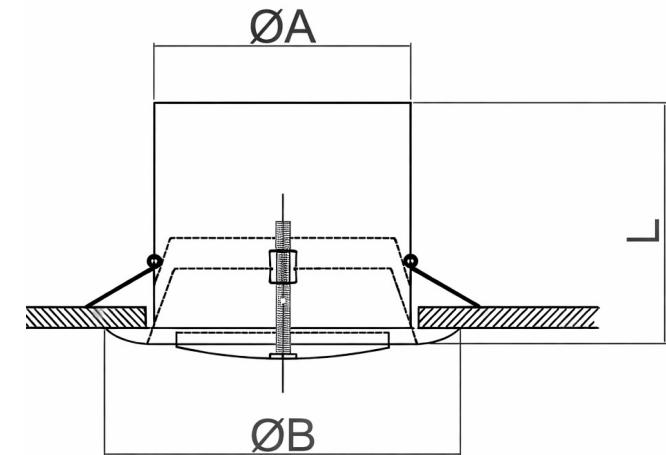
Ø N (mm)	2.5 m/s Q (m ³ /h)	ΔP (Pa)	5.0 m/s Q (m ³ /h)	ΔP (Pa)	7.5 m/s Q (m ³ /h)	ΔP (Pa)
100	70.69	2.67	141.37	10.69	212.06	24.04
125	110.45	1.99	220.89	7.95	331.34	17.90
150	159.04	1.63	318.09	6.51	477.13	14.65
200	282.74	1.24	565.49	4.96	848.23	11.17



Technical Sizes

Disc-Smart

Standard Sizes	Ø A (mm)	Ø B (mm)	L (mm)
80	75	135	350
100	95	165	350
125	120	200	350
150	145	235	350
200	195	295	350



Fixing by spring

Technical Sizes

Disc-Smart

Specification	Value
Material	Galvanized Steel
Available Sizes	100,125,150,200
Control Configurations	0-10VDC Control, On/Off Control
Installation	Easy Installation
Automation and BMS Compatibility	Yes



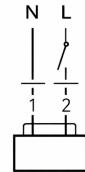
Connection Diagram

Disc-Smart

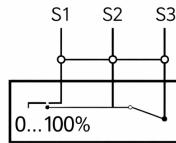
Spring return

Cable colors:
 1 = blue
 2 = brown
 S1 = purple
 S2 = red
 S3 = white

AC 230 V, open/close



Position switch



On/Off

Cable colors:
 1 = blue
 2 = brown
 3 = white

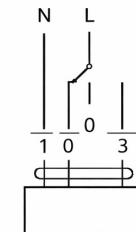
AC 230 V, open/close



AC 230 V, open/close

Proportional

AC 230 V, proportional control



AC 230 V, proportional control

•24 V control version available upon request.

Gerhman Technical Catalogue – Disc Valve