

DESCRIPTION

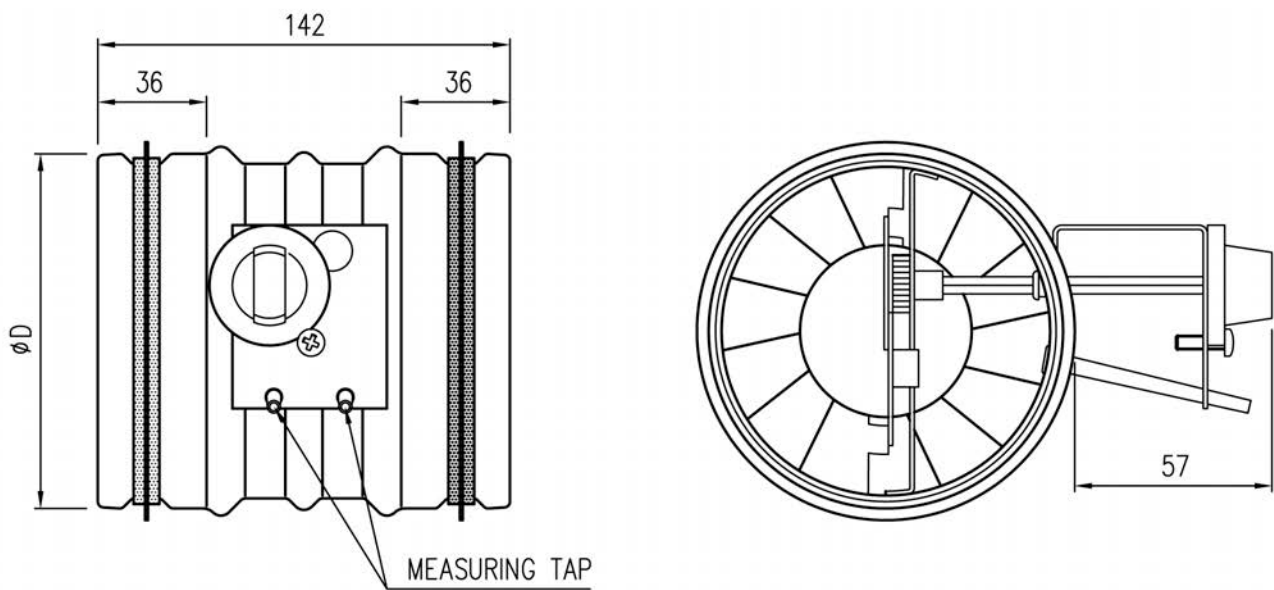
The volume control damper is installed in HVAC systems where is necessity for adjustment of the air flow to achieve the correct supply – or exhaust air quantities in the different areas served by the system. The damper provides the possibility to measure actual air volume in the duct where it is installed. The unit has a manual adjustment. Accurate air flow measurement is based on flow nozzle principle. Sound generation is minimized due to conical adjustment section. The operation temperature range of the unit is from -30°C to 70°C. The PRA damper is equipped in self-locking adjustment mechanism; position can be ensured with locking screw. Duct cleaning is enabled through the unit up to size 315. PRA unit is integrated with cleaning access panel. Inlet and outlet spigots of this unit are equipped with integral rubber gaskets. The classification of casing leakage is in accordance with the EN1751 class C. The airflow rate is adjusted by turning the adjustment knob in order to change the aperture size of the adjustment cone formed by iris blades. Once the opening area is reduced, the airflow rate decreases and the total pressure loss caused by the device increases. The airflow can be determinate by measuring the differential pressure in the measurement taps.

Model	Description
PRA 100...315	The operating mechanism is positioned partly outside the device and between the adjustment cone and casing. The unit can be cleaned with normal duct sweeping equipment when the device is fully opened.
PRA 350...1000	The operating mechanism is located partly outside the device and inside the adjustment cone. The device can be cleaned with normal duct sweeping equipment, when the device is fully opened and the cleaning equipment is passed carefully through the operating mechanism.
Supply air jet nozzle PRA/S	The PRA-unit can also be used as a supply air nozzle in e.g. industrial spaces.

TECHNICAL SPECIFICATION & DIMENSIONS

- material casing and blades: galvanized steel
- material operating mechanism: ABS and PBT plastic (sizes 100 to 315); steel (sizes 350 to 1000)
- material duct gaskets: 1C-polyurethane hybrid
- material measurement taps: polyurethane

D [mm]	Q _{min}		Q _{max}		Dimension [mm]	
	l/s	m ³ /h	l/s	m ³ /h	∅D	H
100	8	28	47	170	99	-
125	12	44	74	265	124	-
160	20	72	121	434	159	-
200	31	113	188	679	199	-
250	49	177	295	1060	249	-
315	78	281	468	1683	314	-
350	96	346	577	2078	349	70
400	126	452	754	2714	399	70
500	196	707	1178	4241	499	70
630	312	1122	1870	6733	629	70
800	503	1810	3016	10857	799	70
1000	785	2827	4712	16965	999	85

PRA 100...315**PRA 350...1000**