

# PVR

## ROUND VARIABLE PRESSURE CONTROLLER WITH AIRFLOW MEASUREMENT



### VARIANTS

PVRS, PVRD

Galvanised round pressure control damper with airflow measurement, equipped with an electronic actuator and plastic static pressure measuring probe. Additionally, it is equipped with a specific aluminium differential pressure sensor and measuring transmitter to measure the actual airflow rate. The damper is used to regulate constant or variable static pressure in supply or exhaust ducts. The actuator and measurement transmitter are equipped with hybrid control as standard: analogue 0(2)-10VDC and/or Modbus. The oval damper blade is equipped with an airtight gasket and maintenance-free bearings. The casing airtightness meets class C according to EN1751, and damper blade air leakage meets class 2 according to EN1751. Available without insulation (PVRS) and with insulation (PVRD). External circular duct silencers are available as an option.

**Grada-Gruner 327VM actuator with integrated display/control and hybrid control 0(2)-10VDC and/or Modbus**

**Aluminium extruded differential pressure sensor equipped with 8 to 24 measuring points according to the Log-Tchebycheff method**

**Casing airtightness meets class C according to EN1751**

### ACCESSORIES



URSIL



ROUND



EXPOSED ROUND DUCT



SUPPLY



EXHAUST



VAV

### TECHNICAL INFORMATION

<b>APPLICATION</b>	Type	Duct pressure control, supply & exhaust + airflow measurement
<b>CONSTRUCTION</b>	Shape	Round
	Measuring pressure	Plastic measuring probe, static pressure
	Measuring airflow	non-polluting aluminium differential pressure sensor
	Min. diameter	Ø100
	Max. diameter	Ø630
	Spigot	Clamped-in double lip gasket, F-type
	Spigot length	Length conform EN1506
<b>MATERIAL</b>	Housing	Galvanised (275g/m <sup>2</sup> ) steel sheet
	Damper	Galvanised (275g/m <sup>2</sup> ) steel sheet with rubber gasket.
	Insulation (PVRD)	Mineral wool 50mm
<b>PERFORMANCE</b>	Air tightness housing	Class C - EN1751
	Air tightness blades	Class 2 - EN1751
	Min. pressure (Pmin)	25Pa
	Max. pressure (Pmax)	300Pa
	Min. air velocity (airflow measurement)	0,8m/s
<b>GRUNER ACTUATOR</b>	Standard actuator	GM05: 327VM-024-05-MB/GRA + GT-VM-DD3-MB
	Input signal	0-10V, 2-10V (standard), Modbus
	Output signal	0-10V, 2-10V (standard), Modbus
	Operating voltage	24 VAC/DC +/- 20%
	Pressure sensor	Dynamic 0-500Pa

PRODUCT KEY

ROUND VARIABLE PRESSURE CONTROLLER WITH AIRFLOW MEASUREMENT

P	V	R	S	0	0	GM05	0	2	0	0
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Nominal Diameter (mm):  
100, 125, 160, 200, 250, 315,  
355, 400, 500, 630

GM05: Gruner 327VM-024-05-MB/GRA + GT-VM-DD3-MB - 5Nm - 0(2)-10VDC / Modbus  
GM06: Gruner 327VM-024-10-MB/GRA + GT-VM-DD3-MB - 10Nm - 0(2)-10VDC / Modbus

S: Single-walled round pressure controller  
D: Double-walled round pressure controller

Notes:

Motors with torque 10Nm not available for pressure controllers with nominal diameter <= 400  
Motors with torque 5Nm not available for pressure controllers with nominal diameter > 400  
Double-walled pressure controllers are not available with nominal diameter > 400

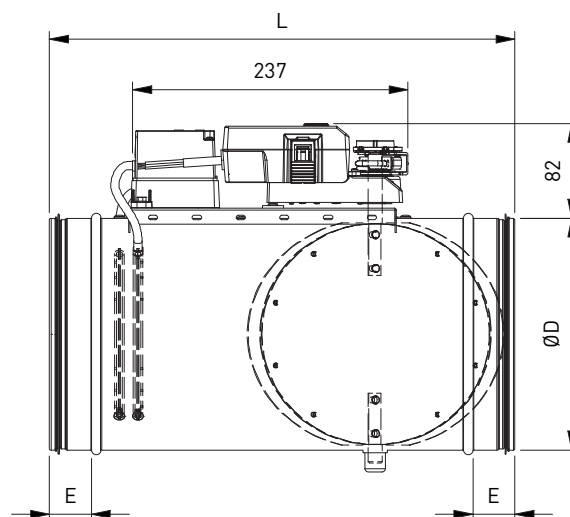
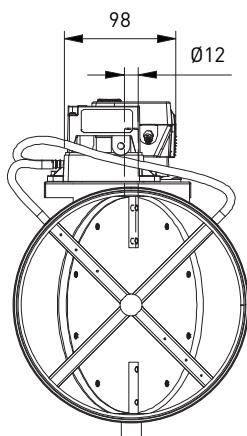
CIRCULAR DUCT SILENCER

U	R	S	I	L	0	2	0	0	0	9	0	0
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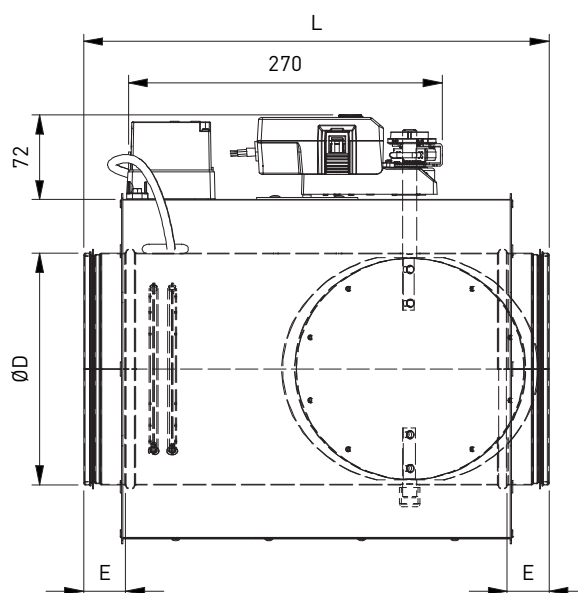
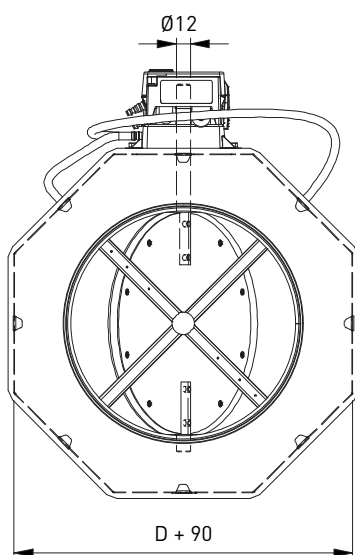
Nominal Diameter (mm):  
100, 125, 160, 200, 250, 315,  
355, 400, 500, 630

Nominal length L (mm):  
900, 1200

PVRS00GM05



PVRD00GM05

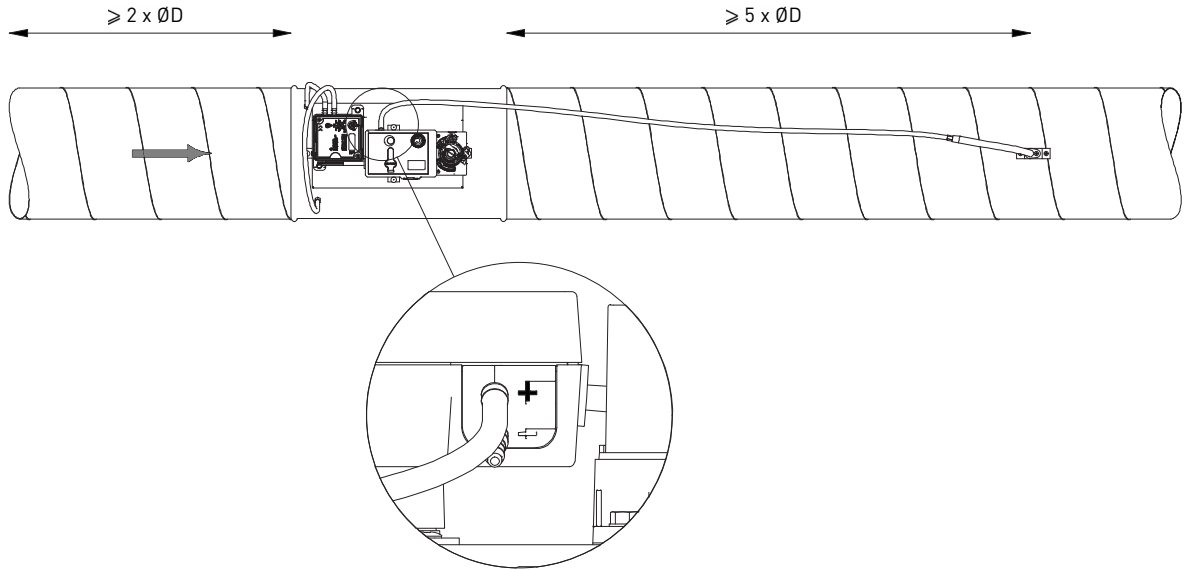


**DIMENSIONS**

ØD	L	E
100	400	36
125	400	36
160	400	36
200	400	36
250	625	56
315	625	56
355	625	56
400	635	71
500	833	71
630	837	71

All dimensions in mm

SUPPLY



EXHAUST

