

# Modulating control valves series MDV-D1

Modulating control valves of the MDV-D1 series are built according to the EN 161 norms to be used on industrial combustion systems.

They are particularly suitable for the proportional regulation of all combustion gas flows of the first, second and third family and of air. The electric motor is unipolar and bidirectional, with high static and maintaining torque for 3-position-control, or proportional with analogic input control signal current or voltage change.

The exact linear rating is achieved by means of particular, patented shutter disks, rotating on the same axis. Six different orifice sizes are available according to the operating conditions.



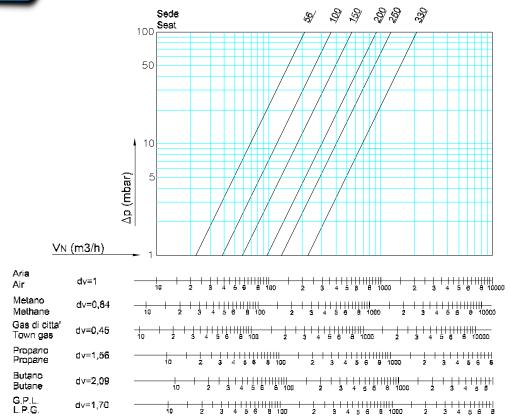
### **TECHNICAL FEATURES**

Valve and actuator body	Die-cast aluminium	Supply voltage	230V, 115V or 24V/50-60 Hz
Rating feature	linear	Nominal load	7 VA
Control ratio	25:1	Enclosure	IP 54 according to IEC 529
Operating pressure	max 1 bar	Duty cycle	Continuos 100%
Ambient temperature	-10 ÷ +60 °C	Potentiometer/s	150; 1000; 2500 ohm
Opening/closing time	30 s or 60 s / 90°	Input signal	4÷20 mA or 0-10V dc
On request	7.5s or 15 s / 90°	Output signal (on request)	4÷20 mA or 0-10V dc
Flanged connections	PN 16 According to ISO 7005	Rating of auxliary switches	0,50 A / 48V dc and ac

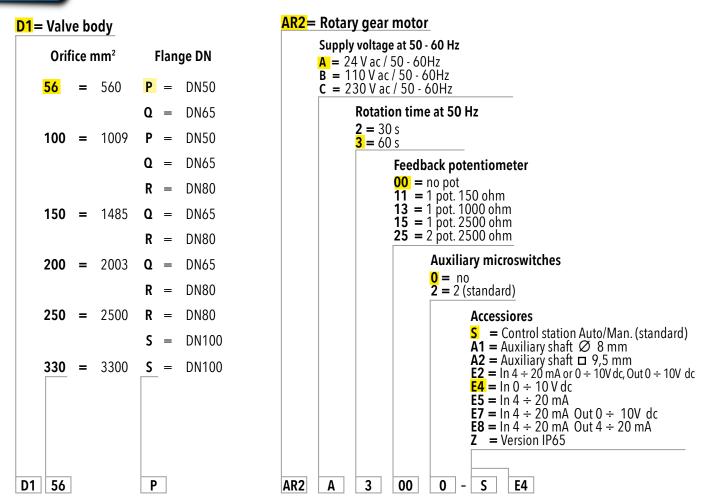
## FEATURES

- Sturdy, compact construction, especially suitable for industrial applications
- Installation in any position
- Low internal leakage with valve in closed position
- Mechanical position indicator
- Adjustable rotation angle
- Manual/automatic control station
- Wide range of accessories on request:
  - 1 or 2 potentiometers ranging from 150 ohm to 2,5 kohm
  - 2 adjustable auxiliary microswitches with free electric contacts
  - input control signal: 4÷20 mA or 0÷10V dc
  - output signal: 4÷20 mA or 0÷10V dc



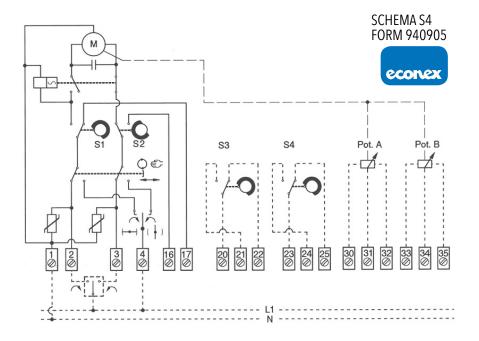


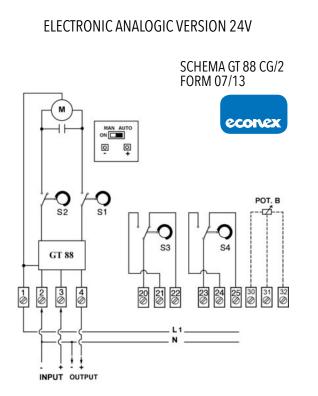
CODE



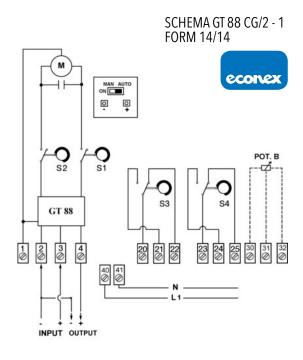
P.S. The maximum torque on the auxiliary shaft is 3 Nm

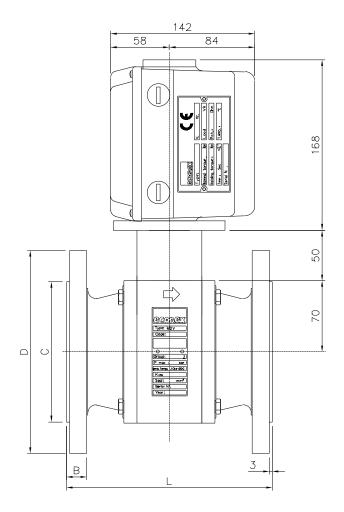
#### ELECTRIC FLOATING VERSION

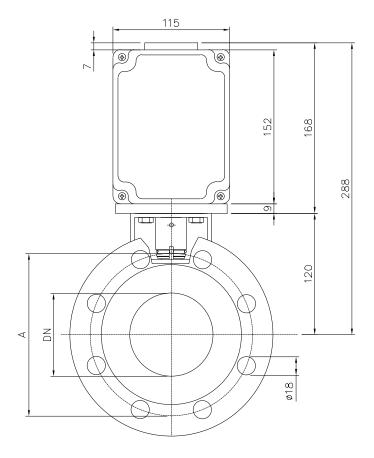




ELECTRONIC ANALOGIC VERSION 115 - 230V







DN	PN	А	В	С	D	L	Holes n°	Weight Kg
50	16	125	18	102	165	191	4	7,5
65	16	145	18	122	185	191	4	8
80	16	160	20	138	200	203	8	9
100	16	180	20	158	220	229	8	11

All the reported data are subject to be changed without notice.

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