

POSITIONERS



03





PRODUCT DESCRIPTION

Single & double acting positioner, input signal 4-20 mA or 3-15 bar for proportional control of rotary and linear actuator. The positioner operates on the force-balance principle by comparing the standard signal transmitted from a pneumatic or an electronic controller device and the angular rotation of the stem, and conveys a positioning amplified pressure to the valve actuator.

The production of the full range is performed in our head-quarter in the North of Italy, using Italian/European raw material. The Quality is assured by the constant monitoring of the Quality Control system according to ISO 9001:2015.

Drive Medium = Air (Dry or Lubricated); Non Corrosive Gas; Light Hydraulic Oil.

Pressure Range = From 2 bar to 10 bar / 30 psi to 150 psi.

Temperature Range

- Standard Temperature Range = -30°C to +100°C / -22°F to 212°F

- Low Temperature Range = -50°C to +80°C / -58°F to 176°F

- High Temperature Range = -25°C to 140°C / -13°F to 284°F

MOTUS series available in special versions for high



VPLP: pneumatic positioner 3-15 PSI for linear actuator

VPLE: electro-pneumatic positioner 4-20 mA for linear actuator



VPRP: pneumatic positioner 3-15 PSI for rotary actuator

VPRE: electro-pneumatic positioner 4-20 mA for rotary actuator

FEATURES:

- GOOD DYNAMIC RESPONSE
- PARTICULARLY COMPACT DESIGN
- ADJUSTABLE HIGH AIR FLOW CAPACITY
- ZERO AND SPAN ADJUSTMENT (INDEPENDENT)
- REVERSE ACTION
- SPLIT-RANGE OPERATION
- INSENSITIVE TO PRESSURE VARIATIONS
- NAMUR AND IEC 534 STANDARD BRACKET ADJUSTABLE

MATERIALS & TECHNICAL DATA

ROTARY MODEL

MATERIALS

COVER	R99P / R99E PVP11BE.1	Polycarbonate Alum. with anti corrosive paint
BODY	Die cast aluminium with anti corrosive paint	
POSITION INDICATOR	Plastic antistatic	
RECEIVER DIAPHRAGM	Nitrile rubber	

TECHNICAL DATA

MOUNTING	ISO recommended mounting bracket	
	0÷20°C (*)	
	0÷60°C (standard)	
	0÷90°C (standard)	
	0÷180°C (*)	
	0÷270°C (*)	
	0÷360°C (*)	
	Equal percentage EQP (*)	
	other CAM (*)	
PNEUMATIC CONNECTIONS	1/4" NPT	
SUPPLY AIR PRESSURE	3...10 bar	
OUTPUT	0...100% of the supply air pressure	
REPEATIBILITY	R99P	≤ 0,1 % of full range
	R99E - PVP11BE.1	≤ 0,2 % of full range
HYSTERESIS	R99P	≤ 0,6 % of full range
	R99E - PVP11BE.1	≤ 1 % of full range
NON LINEARITY	R99P	≤ 1,7 % of full range
	R99E - PVP11BE.1	≤ 2 % of full range
PROTECTION CLASS	IP55	
WEIGHT WITH GAUGES	± 2,4 Kg	
AMBIENT TEMPERATURE	R99P	-40°C...+80°C
	R99E - PVP11BE.1	-40°C...+70°C
STORAGE TEMPERATURE	-40°C...+80°C	
INPUT	R99P	3÷15 Psi (0,2÷1 bar)
		other input (*)
	R99E - PVP11BE.1	4÷20 mA
		other input (*)
ELECTRIC CONNECTIONS (R99E and PVP11BE.1)	Cable gland PG9	
	other connections (*)	
Ui	≤ 30V	
Ii	≤ 150 mA	
Pi	≤ 0,80 W	
Impedance	Max 250 Ω	
ci	≠ 0 (negligible)	
Li	≠ 0 (negligible)	

LINEAR MODEL

MATERIALS

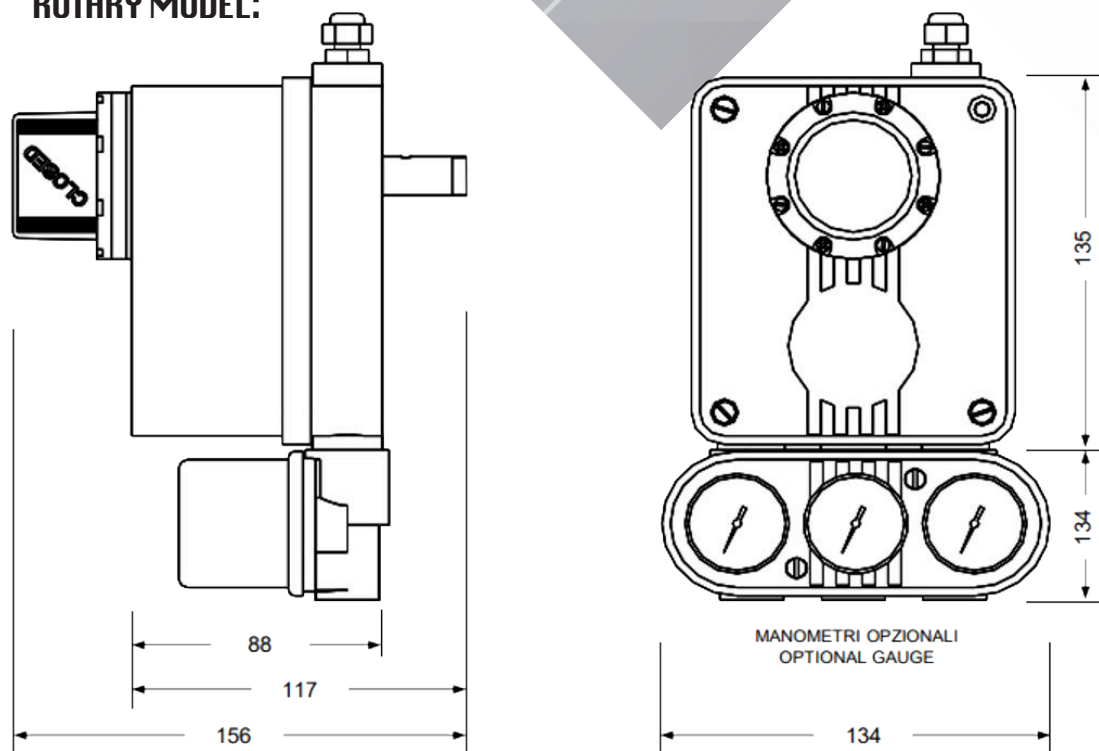
COVER	RP01 / RE01 PE01.1	Polycarbonate Alum. with anti corrosive paint
BODY	Die cast aluminium with anti corrosive paint	
SLIDE VALVE	Box: Copper Alloy Pivot: Stainless Steel	
RECEIVER DIAPHRAGM	Nitrile rubber	

TECHNICAL DATA

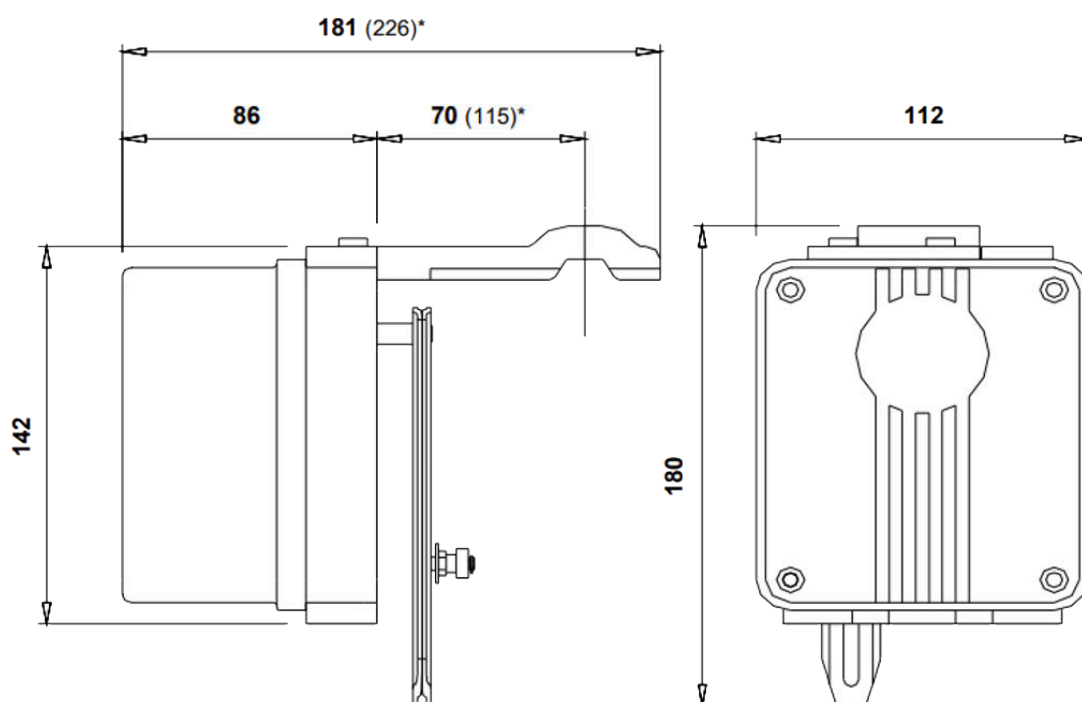
PROTECTION CLASS	IP55 IP65 (*)	
MOUNTING	IEC 534 (NAMUR) other (*)	
NOMINAL TRAVEL RANGE	from 3 to 7 mm (spring type 1) from 6 to 18 mm (spring type 2) from 9 to 33 mm (spring type 3) from 14 to 53 mm (spring type 5) from 53 to 100 mm (spring type 6) from 100 to > 100 mm (*)	
PNEUMATIC CONNECTIONS	1/4" NPT	
SUPPLY AIR PRESSURE	2...10 bar	
OUTPUT	0...100% of the supply air pressure	
REPEATIBILITY	RP01	≤ 0,1 % of full range
	RE01/1	≤ 0,2 % of full range
HYSTERESIS	RP01	≤ 0,6 % of full range
	RE01/1	≤ 1 % of full range
WEIGHT	RP01	± 1,3 Kg
	RE01/1	± 1,4 Kg
AMBIENT TEMPERATURE	RP01	-40°C...+80°C
	RE01/1	-40°C...+70°C
STORAGE TEMPERATURE	-40°C...+80°C	
INPUT	RP01	3÷15 Psi (0,2÷1 bar)
		other input (*)
	RE01/1	4÷20 mA
		other input (*)
ELECTRIC CONNECTIONS (R01E / R01E.1)	Cable gland PG9	
	other connections (*)	
Ui	≤ 30V	
Ii	≤ 150 mA	
Pi	≤ 0,80 W	
Impedance	Max 250 Ω	
ci	≠ 0 (negligible)	
Li	≠ 0 (negligible)	

DIMENSIONS

ROTARY MODEL:



LINEAR MODEL:





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