



R99P - R99E

Rotary Analog Valve Positioners

Single & double-acting Positioner, input signal 4÷20mA (R99E) or 0.2÷1bar (R99P) for proportional control of rotary actuators. 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.



Available 2014/34/UE (ATEX):

- **II 1G Ex ia IIC Ga T6,T5 Ga**
- **II 2G IIC Ex h IIC T6...T1 Gb**
- **II 2D IIC Ex h IIIC T6...T1 Db**



- ♦ Good dynamic response
- ♦ Particular compact design
- ♦ Zero and Span independent adjustment
- ♦ Split-Range operation
- ♦ Insensitive to pressure variation
- ♦ Namur standard bracket (VDI/VDE 3845)
- ♦ Adjustable positioning pressure range
- ♦ Valve speed adjustment
- ♦ Reverse action
- ♦ Double acting operation
- ♦ 3D Position indicator



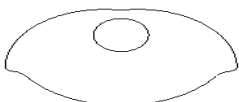
TECHNICAL DATA

MOUNTING	ISO recommended mounting bracket
PROTECTION CLASS (acc. To EN 60529)	IP55 (IP65 on request)
NOMINAL STROKE	0÷90° (std.) 0÷60° (std.) 0÷20° (on request) 0÷180° (on request) 0÷270° (on request) 0÷360° (on request) Equal percentage EQP (on request) other cam (on request)
PNEUMATIC CONNECTION	1/4" NPT
SUPPLY AIR PRESSURE	3...10 bar
OUTPUT AIR PRESSURE	0...100% of the supply air pressure
REPEATIBILITY	R99P: ±0.1% F.S. R99E: ±0.2% F.S.
HISTERESIS	R99P: ±0.6% F.S. R99E: ±1.0% F.S.
INPUT SIGNAL	R99P: 3÷15 psi (other input on request) R99E: 4÷20 mA (other input on request)
ANBIENT TEMPERATURE	R99P: -40÷80°C RE01: -40÷70°C
ELECTRIC CONNECTION	R99E: Cable gland PG9 (other on request)
Ui	R99E: < 30 V
Ii	R99E: < 150 mA
Pi	R99E: < 0.8 W
Impedance	R99E: < 250 Ohm
Ci	negligible
Li	negligible
WEIGHT	R99P: 1,3 Kg R99E: 1,4 Kg
BODY MATERIAL	Die cast aluminium with anti corrosive paint
COVER MATERIAL	Polycarbonate
RECEIVER DIAPHRAGM	Nitrile rubber

OPTIONS

POSITION TRANSMITTER (4÷20mA)	LIMIT SWITCHES
COVER IN DIE CAST ALLUMINIUM	PRESSURE GAUGE (GMKit)
II 1G Ex ia IIC Ga T6,T5 Ga (PVP11BE.1)	I 2D IIC Ex h IIIC T6...T1 Db (R99P)
	II 2G IIC Ex h IIC T6...T1 Gb (R99P)

AVAILABLE CAM



20°/30° CAM



60°/90° CAM



180°/270° CAM



360° CAM



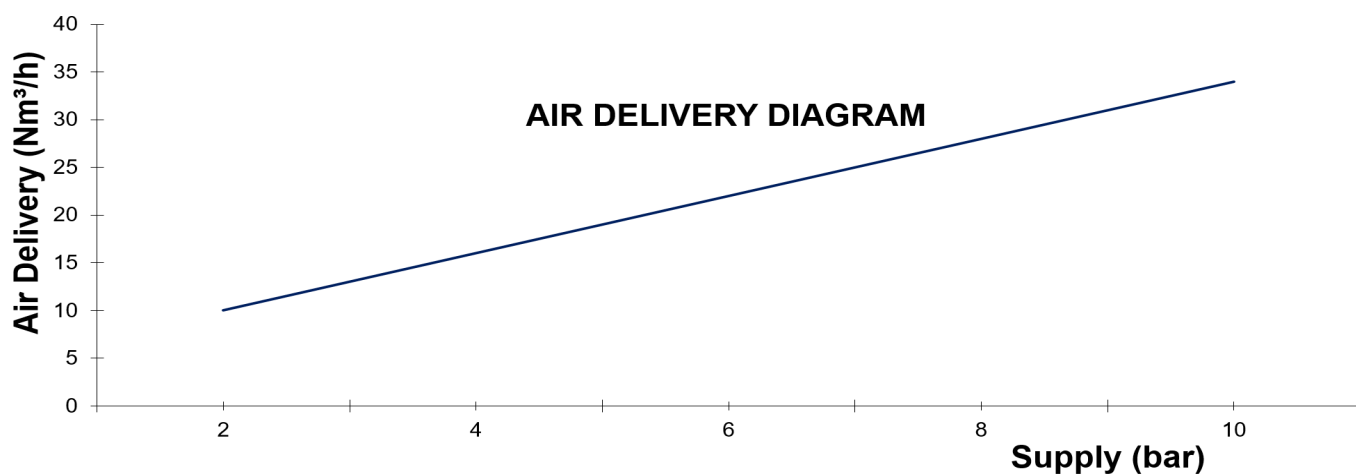
90° eqp CAM



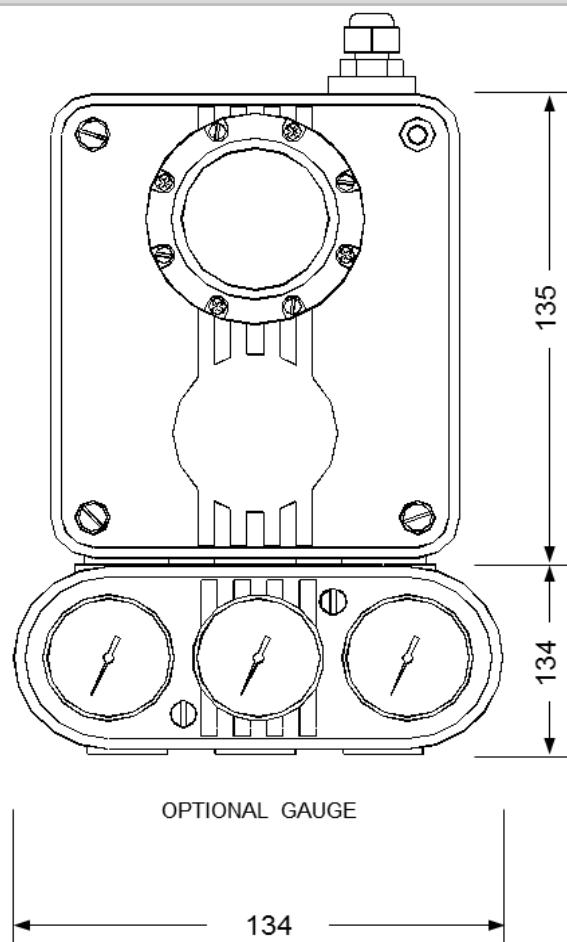
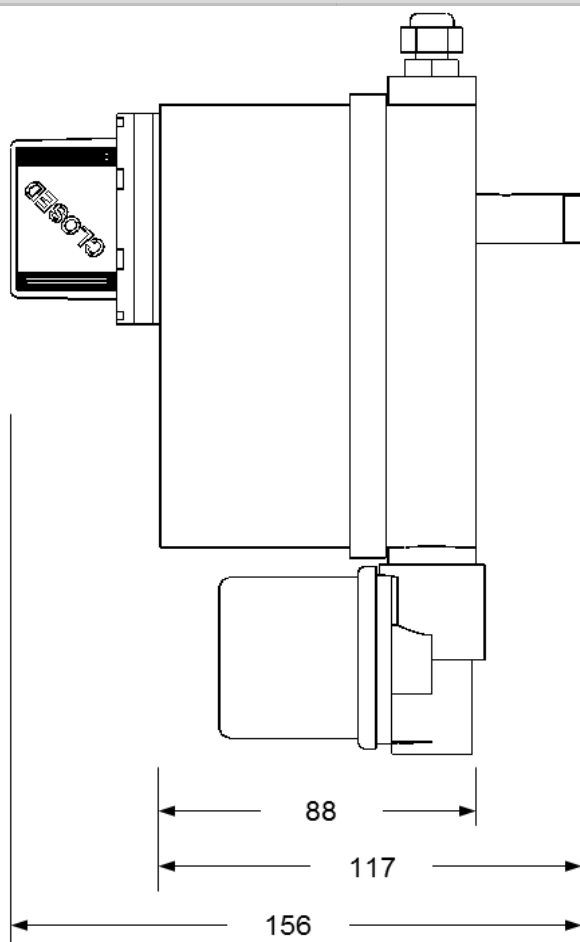
AIR DELIVERY

Test effected with pipe 6x8 mm

AIR SUPPLY (bar)	AIR DELIVERY (Nm ³ /h)	AIR CONSUMPTION (Nm ³ /h)
2	from 1 to 10	0.2
4	from 1 to 16	0.5
6	from 1 to 22	0.7
8	from 1 to 28	1.0
10	from 1 to 34	1.4



DIMENSIONS





The contents of this publication are presented for information purpose only. We reserve to modify or improve the designs or specifications of such products at any time without notice

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