

#### **APPLICATION**

Single & double-acting Positioner, input signal 4÷20mA or 0.2÷1bar 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.









### **FEATURES**

Good dynamic response
adjustable High air flow capacity
Reverse action
Span adjusting over 50% of F.S.
Zero and Span adjustment (independent)
Split-Range operation
Direct and axial coupling to the actuator stem
Adjustable NAMUR standard bracket
3D position indicator
Very compact design
Insensitive to pressure variations

#### **VALVE SPEED ADJUSTMENT**

With splitted opening/closing speed adjustment should be made by simply turning a screw.

### **VALVE SPEED ADJUSTMENT**

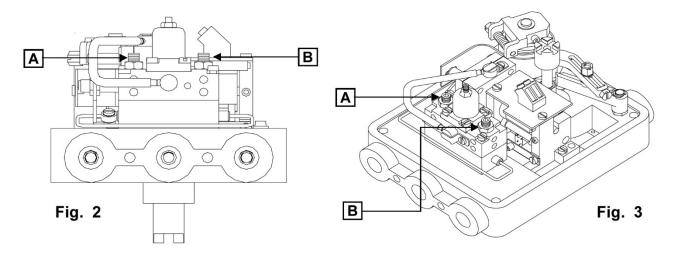
Positioners are able to regulate in indipendent easy way the opening and closing speed of the valve.

Acting on the "A" & "B" screws (see fig. 2 & fig.3) is possible obtain the following conditions:

- Fast opening / Slow closing
- Fast opening / Fast closing
- Slow opening / Fast closing
- Slow opening / Slow closing

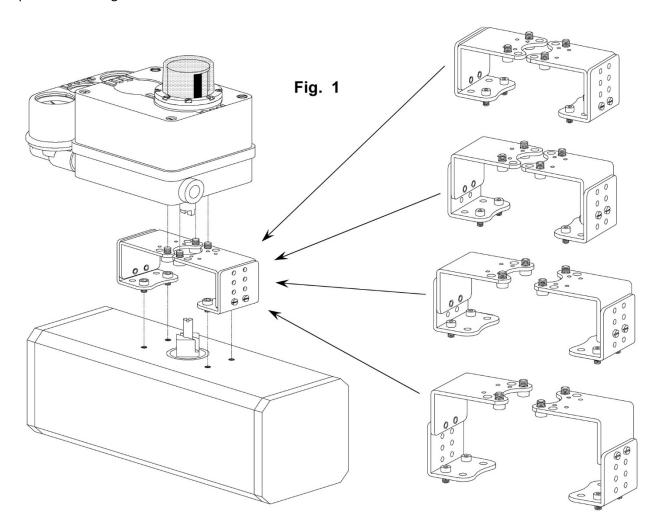
This characteristic permit to solve problems like : waterhammer, hunting, etc....





# **MOUNTING BRACKET (VDI/VDE 3845)**

The positioner are equipped whit bracket. It is suitable for any actuator (NAMUR std.), just changing the position of fixing screws.



## **ROTATION REVERSING**

The std configuration of our positioner is for anti-clockwise rotation (see fig.4). To have the clockwise rotation you have to rotate the cam wheel as the arrow on Fig.5 and hold the bearing on "D" position.



Fig. 4

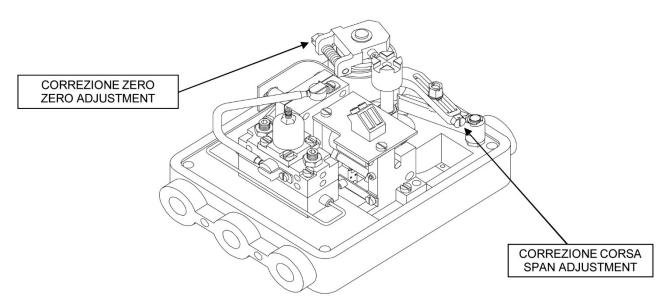
Fig. 5

CAMMA
CAM
CAM
AVAILABLE CAM

## INDEPENDENT SPAN AND ZERO ADJUSTMENT

CAMMA 60°/90°

60°/90°CAM



CAMMA 180/°270°

180°/270° CAM

CAMMA 360°

360° CAM

CAMMA eqp 90°

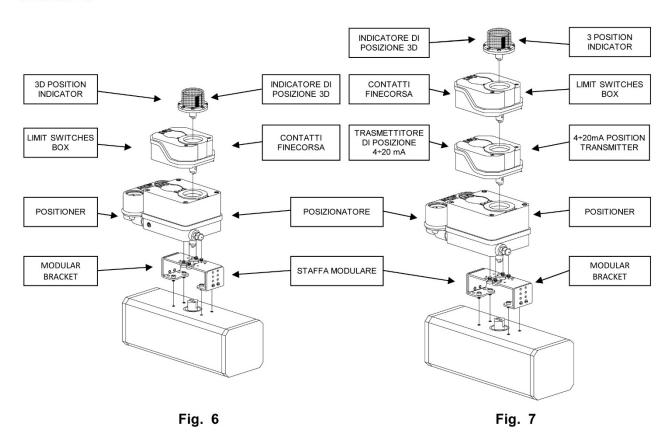
90° eqp CAM

## **ACCESSORIES**

CAMMA 20°/30° 20°/30°CAM

One of the mainfeature of positioner is the modular design that permit to use in the same time different conbinations, like limit switches, 4÷20 mA position transmitter, 3D position indicator

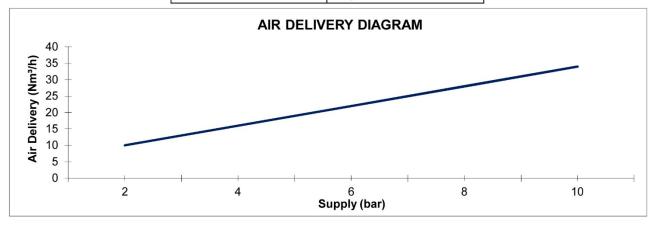




Limit switches (electric, inductive or pneumatic) box (PTL7)
Position transmitter, 4÷20mA (PTL7)
Gauges for indication of outputs and supply air

# AIR DELIVERY

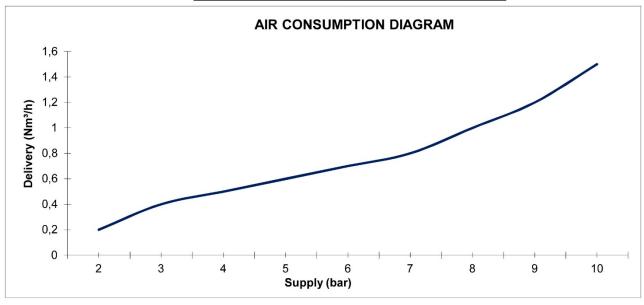
Test effected with pipe 6 x 8 mm		
4 BAR SUPPLY	adjustable from 1 to 16 Nm³/h	
6 BAR SUPPLY	adjustable from 1 to 22 Nm³/h	
8 BAR SUPPLY	adjustable from 1 to 28 Nm³/h	
10 BAR SUPPLY	adjustable from 1 to 34 Nm³/h	





# AIR CONSUMPTION

Test effected with pipe 6 x 8 mm			
4	BAR SUPPLY	max 0,4 Nm³/h	
6	BAR SUPPLY	max 0,8 Nm³/h	
8	BAR SUPPLY	max 1,0 Nm³/h	
10	BAR SUPPLY	max 1,5 Nm³/h	





# TECHNICAL DATA

ISO reccomended				
MOUNTING		mounting bracket		
CAM (Direct and reverse action)		0÷20° (*) 0÷60° (standard) 0÷90° (standard) 0÷180° (*) 0÷270° (*) 0÷360° (*) Equal percentage EQP (*) other cam (*)		
PNEUMATIC CONNECTIONS		1/4" NPT		
SUPPLY AIR PRESSURE		310 bar		
ОИТРИТ		0100 % of the supply air pressure		
REPEATIBILITY	R99P	≤ 0,1 % of full range		
NEF LATIBILITY	R99E - PVP11BE.1	≤ 0.2 % of full range		
LIVETERECIE	R99P	≤ 0,6 % of full range		
HYSTERESIS	R99E - PVP11BE.1	≤ 1 % of full range		
NONLLINE A DITY	R99P	≤ 1,7 % of full range		
NON LINEARITY	R99E - PVP11BE.1	≤ 2 % of full range		
PROTECTION CLASS		IP55		
WEIGHT WITH GAUGES		≅2,4 Kg		
AMBIENT	R99P	-40+80 °C		
TEMPERTURE	R99E - PVP11BE.1	-40+70 °C		
STORAGE TEMPERATURE		-40+80 °C		
INPUT	R99P	3÷15 Psi (0,2÷1 bar) other input (*)		
INFOT	R99E - PVP11BE.1	4 ÷ 20 mA other input(*)		
ELECTRIC CONNECTIONS (R99E and PVP11BE.1)		Cable gland PG9 other connections (*)		
Ui		≤ 30 V		
li		≤ 150 mA		
Pi		≤ 0,80 W		
Impedance		Max 250 Ω		

(\*) on request