

BRAY RECOMMENDED SPECIFICATIONS

Series 6P P/P Positioner



Materials

Body: Anodized Aluminum
Bellows: Brass
Valve Spool: Stainless Steel
Cover: Anodized Aluminum

Connections

Signal Supply: 1/4" NPTF
Actuator ports: OUT 1, OUT2 (1/4" NPTF)
Gauges standard (1/8" NPTF)

Air Supply

20 to 100 psig (1.4 - 7.0 barg)

Signal Input

3 to 15 psig (0.2-1.0 barg)

Control Modes

(Double or Single Acting) The positioner can be used to control direct (double) acting actuators or can be used to control single acting (spring return) actuators

Ambient Temperature Limits

Low = -40°F to +158°F (-40°C to +70°C)
Std = -4°F to +158°F (-20°C to +70°C)
High = -4°F to +248°F (-20°C to +120°C)

Control Actions

(Direct or Reverse) The direction of operation can be changed without any additional parts, by turning the cam over and reversing air connections to the actuator

Principal of Operation

Positioning is based on a force balanced principle with two stage pilot poppet valve

Accuracy with Linear Cam

1% of full range.

Linearity

±2.0% FULL SCALE (F.S.)

Hysteresis

±1.0% FULL SCALE (F.S.)

Sensitivity

±0.5% FULL SCALE (F.S.)

Repeatability

±0.5% FULL SCALE (F.S.)

Air Consumption

.1 Acfm (1.4 LPM) @ 20 psi (1.4 BarA)
.39 Acfm (11 LPM) @ 60 psi (4 BarA)

FLOW CAPACITY

2.8 Acfm (80 LPM) @ 20 psi (1.4 BarA)
7.1 Acfm (200 LPM) @ 60 psi (4 BarA)

MOUNTING POSITION

Can be mounted in any position

POWER AMPLIFICATION

Less than 2% deviation in signal or stroke,
produces full output pressure

WEIGHT

3.7 lbs. (1.7 Kg)

STANDARD ACCESSORIES

3 Gauges
High Visibility Dome Position Indicator
Adjustable NAMUR Mounting Bracket