

## AVID PS793 PNEUMATIC ROTARY VALVE POSITIONER

A force balance pneumatic positioner for quarter turn rotary actuators. Designed for direct mounting to all NAMUR and Pentair Valves & Controls pneumatic actuators



### FEATURES

- Compact design – mounted directly and axially to the actuator stem by means of standard kit
- Updated design provides improved features while maintaining original dimensions cam profile and product calibration
- Captive fixings used throughout to prevent loss on site
- High visibility, graduated local visual indicator disc allows easy on-site monitoring
- Conduit boss is integral to enclosure wall providing greater strength and reduced footprint
- Indicator gives visual position of the final control element
- Stable positioning characteristics provided for both small and large actuators
- Action (direct or reverse) is easily reversed in the field by turning cam and reversing air connection
- Usable for double-acting or single-acting service
- Unaffected by normal supply pressure fluctuations
- Integral electric limit switches option.
- Optional adapter and bracket kit for NAMUR actuators (bracket kit sold separately)

### GENERAL APPLICATION

The PS793 is a pneumatic positioner based on the force balanced principle, designed for the proportional operation of quarter turn rotary actuators. It is generally coupled to the shaft of the actuator with a local visual indicator allowing easy on-site monitoring.

### TECHNICAL DATA

#### Agency approvals

Enclosure standards (IEC) IP66

#### Switches

##### (optional)

SPDT mechanical switches  
Proximity type sensor (inductive)

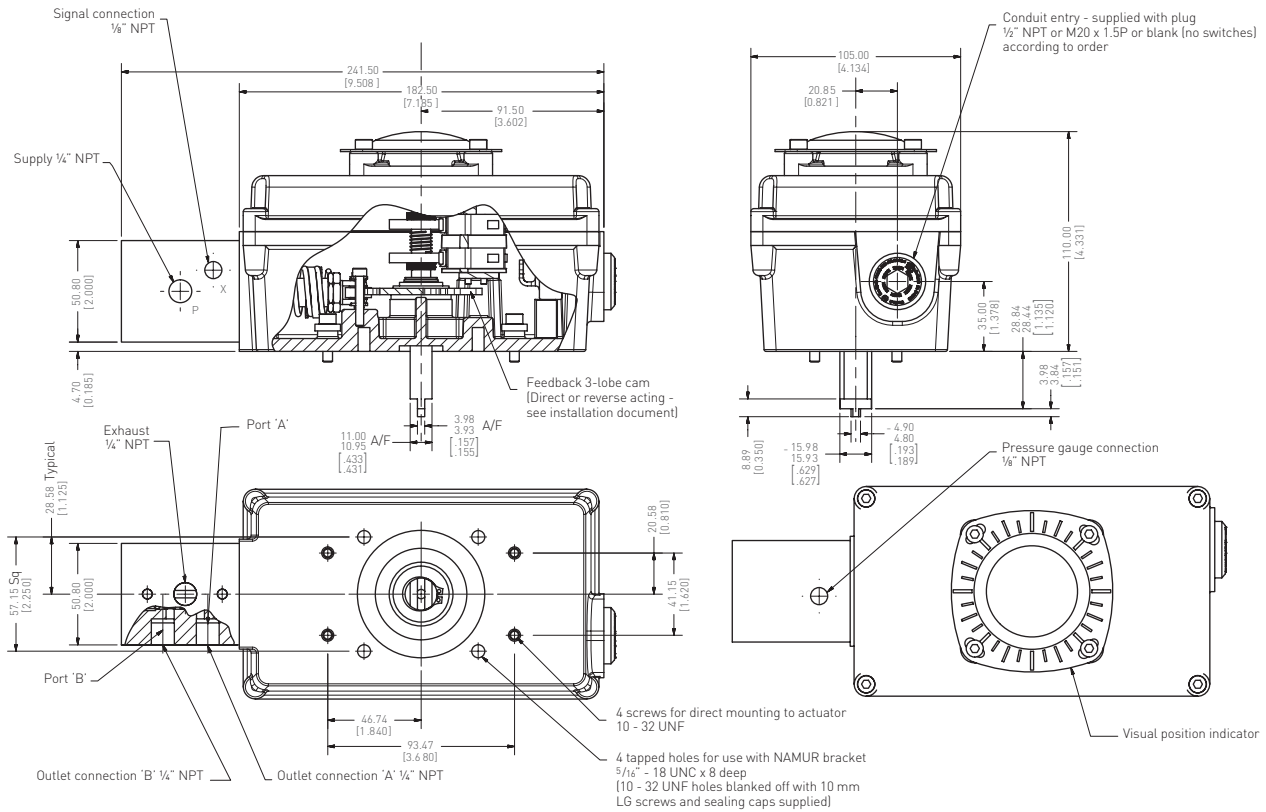
#### Enclosure

Anodized aluminum



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## DIMENSIONS



Dimensions in mm, imperial dimensions (inches) in parenthesis

## CONNECTIONS AND MOUNTING

Designation of connections

A and B - Working lines  
 P - Compressed air connection  
 T - Exhaust point  
 X - Control line

Conduit entry 1/2" NPT or M20 (Blank with no switches)

Port connections 1/4"

Mounting Any position/orientation, no limits  
 Direct mounting to Pentair actuators  
 Namur mounting bracket available

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## SPECIFICATIONS

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### GENERAL SPECIFICATIONS

Input signal	
Single range	3 to 15 psi [0.2 - 1.0 bar] standard
Cam characteristics	Linear
3-Lobe cam	Curve 1, range: 3 - 15 psi = 90° movement Curve 2, range: 3 - 9 psi or 9 - 15 psi = 65° movement Curve 3, range: 3 - 15 psi = 65° movement
Supply	
Media	Compressed air or gas, dry, dust and oil free with 5 micron filter element to inlet
Supply pressure	30 - 100 psi [2 - 8 bar]
Air consumption	0.6 cfm in balanced condition with 60 psi (4 bar) supply
Environmental	
Environmental temperature	-5° to +160°F [-20° to +70°C]
Materials of construction	
Housing	Anodized aluminum alloy
Diaphragm	Nitrile rubber
Valve spool	Stainless steel
Cover	Anodized aluminum alloy
Weight	5 lb. (2.27 kg)
Options	
Gauges	Instrument air 0 - 30 psi [0 - 2 bar] - 1 off Supply air 0 - 150 psi [0 - 8 bar] - 2 off
Integral limit switches	Single pole double throw 10 A 240 V AC

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## ORDERING INFORMATION

### SELECTION GUIDE

#### Base Model

PS- Pneumatic positioner

#### Application

0 Standard flow

#### Conduit options

- 0 No conduit entry
- 1 1 x 1/2" NPT
- 2 1 x M20
- 3 1 x PG 13.5

#### Number of switches

- 0 0 switches
- 2 2 switches

#### Switch options

- 00 No switches
- 01 V3 SPDT mechanical switches
- 03 P&F NJ2-V3-N

#### Terminal Strip

- 0 No terminal strip
- B 8 pt standard

#### Bracket type (mounting style)

- D Direct mount metric fixings
- I Direct mount imperial fixings

#### Pneumatic connections

- 0B BSP
- 0N NPT

#### Special features

- 00 No special features

#### Certification

- 0 Non-hazardous

#### Revision

- R\* Revision number

PS- 0 2 2 01 B D 0B -00 -0 R1 = Model Number **PS-02201BD0B-00-0R2**

### NOTES

- Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.



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