

793 PNEUMATIC ROTARY VALVE POSITIONER

A force balance pneumatic positioner for quarter turn rotary actuators. Designed for direct mounting to all NAMUR and Crane 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 Beacon and graduated 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)

TECHNICAL DATA

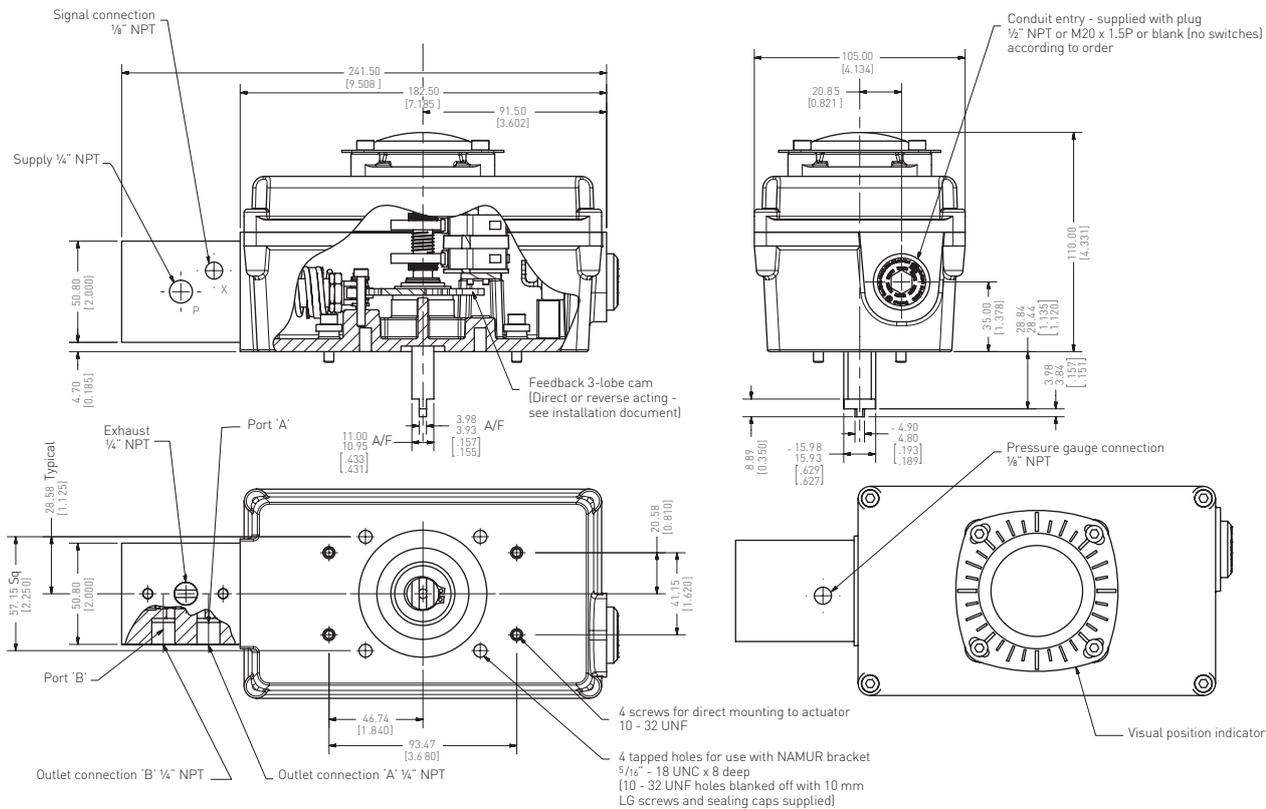
Agency approvals	
Enclosure standards (IEC)	IP66
Switches	
	SPDT mechanical switches (optional)
Enclosure	
	Polyester coated aluminum

GENERAL APPLICATION

The 793 pneumatic positioner provides reliable modulating position control using a force balance principle that allows the proportional operation of quarter turn rotary valves.

793 PNEUMATIC ROTARY VALVE POSITIONER

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 Crane actuators Namur mounting bracket available



793 PNEUMATIC ROTARY VALVE POSITIONER

SPECIFICATIONS

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 / cover	Polyester coated aluminum
Diaphragm	Nitrile rubber
Valve spool	Stainless steel
Valve body	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

793 PNEUMATIC ROTARY VALVE POSITIONER

SELECTION GUIDE

Base model	
793-	Pneumatic positioner, 3-15 psi with aluminum enclosure
Position indicator	
F	Flat disk indicator
Bracket type (mounting style)	
D	Direct mount to Keystone MRP or 79U actuators
N	NAMUR mount
Conduit entry	
0	Blank – no conduit entry (default with no switches)
N	(1) ½" NPT
M	(1) M20
Switch options	
0	None
B	Two SPDT mechanical switches
Filter options	
0	None
F	Filter/regulator assembly
Gauge options	
0	None
G	Gauges
Action options	
0	Regular action
R	Reverse action
Certification	
-0	Non-hazardous
Revision	
R*	Internal revision number
R*	= Model number 793-FD00FG0-0R2

NOTES

1. Please contact your sales office for guidance on selecting the best possible combination for your control and monitoring requirements.
2. See Hazardous area classification technical bulletin for further information on global standards.



www.westlockcontrols.com

Crane Co. We reserve the right to change designs and specifications without notice.