

Series 8760P and 8760 Valve Positioner

A universal approach to valve control

The Norriseal Series 8760 Valve Controller (valve positioner) provides an intelligent approach to your valve control applications. The 8760 Series is modular in concept. All models are built on the base pneumatic unit, 8760P. The electro-pneumatic model, Model 8760E, is created by adapting an I/P transducer to the base unit.

The Series 8760P is designed to provide a universal approach to valve control. The design provides cam characterization, split ranging, direct or reverse action and single or double output without the need to add additional parts. Key features of the design are the non-interaction of the zero and span adjustments, and the positive cam locking mechanism. This turns calibration of the Models 8760P and 8760E into two easy steps.

All models of the Series 8760 valve controllers have provisions for mounting of internal limit switches as well as position feedback devices without the need for additional housings. Stacking of housings that impede access to adjustments in the main enclosure are eliminated.

Features

- Modular construction
8760 P (pneumatic) = base pneumatic unit 8760 E (electronic) = 8760P + I/P transducer, field convertible
- Easy to calibrate non interacting zero and span
- Universal mounting NAMUR IEC 534-6 rectilinear VDI/VDE 3845 rotary
- Internal limit switches and feedback devices



Calibration

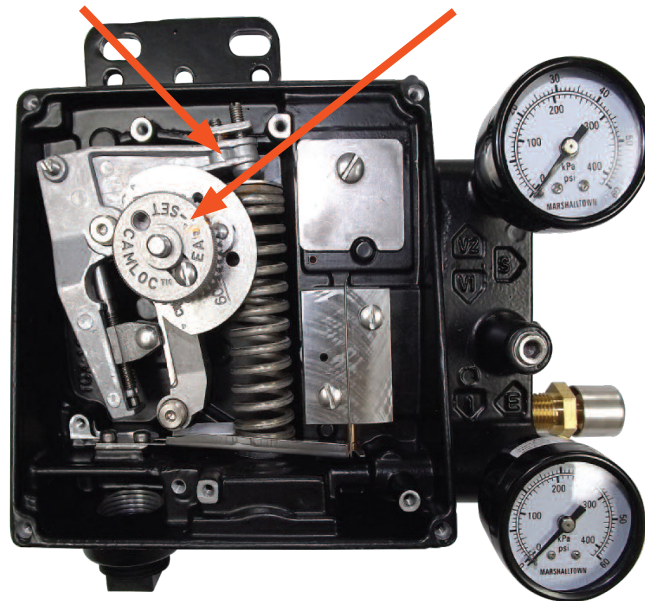
Easy calibration adjustments

The Series 8760 Valve Positioner has been designed to minimize calibration. All required adjustments can be made with a simple screwdriver. The non-interacting zero and span adjustments are simple and easy. Once the correct cam lobe has been selected, set the cam to the rough zero position, establish a “zero” input signal (3 psig or 4 mA) and adjust the “zero”. Increase the input to full scale (15 psig or 20 mA) and adjust the “span”. Note that regardless of the input, pneumatic or electric, the zero and span are the only adjustments required.

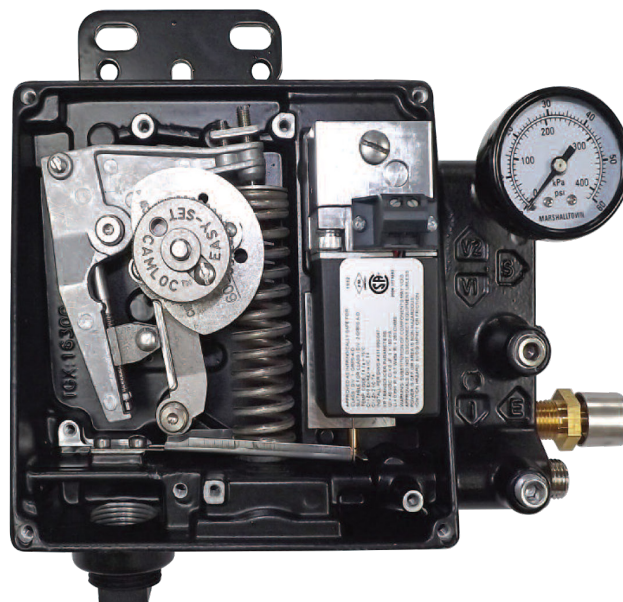
Range spring adjustments

Cam lock mechanism

Series 8760 P



Series 8760



Specifications

PHYSICAL SPECIFICATIONS	
Temperature Range	-40 to 185° F (-40 to 85° C)
Ingress	NEMA 4X std.
Connections	Pneumatic – 1/4" NPT Gauge – 1/8" NPT Electrical – 3/4" NPT, 25 mm Exhaust – 1/4" NPT
Finish	Epoxy/polyester powder coat
Output Configuration	Single or double acting
Action	Direct or reverse
Supply Pressure	150 psig max.
Air Consumption	0.5 scfm typical
Flow Capacity	9.0 scfm (Cv=0.3) Standard 18.0 scfm (Cv=0.6) optional high-flow
Input Signal	8760P: 3-15 psig, 6-30 psig up to 50% split range 8760E: 4-20 mA, up to 50% split range
Feedback Signal	90°, rotary std. 1/2" to 6" rectilinear optional
Feedback Configuration	Cam characterization
Pressure Gain	160% @ 60 psig supply standard
Span	Adjustable -60% to +25% of normal span
Zero	Adjustable -10% to +60% of normal span

PERFORMANCE SPECIFICATIONS	
Linearity (Independent)	8760P: 0.5% of normal span (typical) 8760E: 0.75% of normal span (typical)
Hysteresis	8760P: 0.75% of normal span (typical) 8760E: 1.0% of normal span (typical)
Deadband	Less than or equal to 0.25% of span
Repeatability	Within 0.5% of valve travel
Supply Pressure Effect	Less than 0.2% of span for a 5 psig change in supply pressure

OPTIONS	
Limit Switches	Mechanical SPDT 10A @ 125/250 VAC, 10A @ 24VDC, 0.1A @ 125 VDC Proximity (see barrier instructions for power rating)
Position Transmitter	Current feedback 4-20 mA DC Resistive feedback 1K ohm (90°) 666 ohm(60°)
Beacon Indicator	
Mounting Kits	

ELECTRICAL CLASSIFICATIONS	
FM Approval	Intrinsically Safe, Entity: Class I, Division 1, Groups A, B, C, D Class II, Division 1, Groups E, F, G Class III, Division 1; when installed in accordance with Siemens drawing 15032-7602 rev. 5. Non-Incendive: Class I, Division 2, Groups A, B, C, D Suitable for: Class II, Division 2, Groups F, G Class III, Division 2
CSA Certification	Intrinsically Safe: Class I, Division 1, Groups A, B, C, D Class II, Division 1, Groups E, F, G Class III, Division 1; when installed in accordance with Siemens drawing 15032-7620 Suitable for: Class I, Division 2, Groups A, B, C, D Class II, Division 2, Groups E, F, G Class III, Division 2
CE	EN50081-1 and EN50081-2 Emission EN61000-6-1 and EN60000-6-2 Immunity
SIRA	Ex N IIC T5
Enclosure	NEMA Type 4X IP65
ATEX Certified	II 2G EEx ia IIC T4/T5/T6 II 3G EEx nL IIC T5 See ATEX Certificates for Service Restrictions

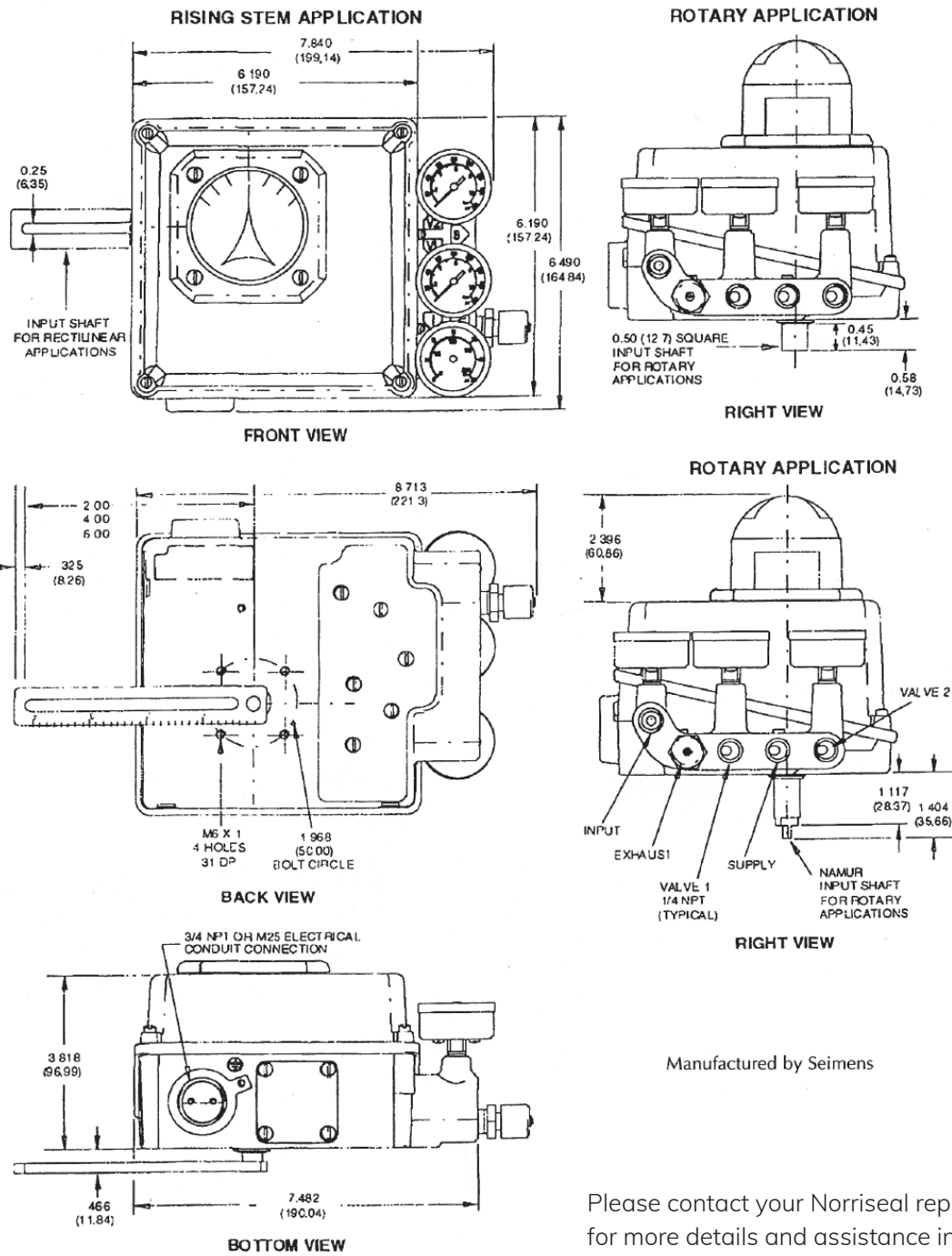
Ordering information

Specify Series number selecting:

- Input
- Action
- Enclosure
- Flow capacity
- Gauges
- Limit switches
- Feedback
- Electrical certification
- Bypass
- Filter / regulator
- Indicator

Dimensions

inches (millimeters)



Manufactured by Seimens

Please contact your Norriseal representative for more details and assistance in specifying the optimal solution for your application

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