

XP ELIMINATOR SERIES ROTARY POSITION MONITORS

EXPLOSIONPROOF - NEC

Rotary valve position monitor comprising switch box and solenoid valve combination with single hazardous area certification.



FEATURES

- Factory wired and tested combination of AccuTrak switch box and Falcon V solenoid valve
- Available with a single certificate for either Division 1 or Division 2 hazardous locations
- Simplified logistics with switch box and solenoid delivered by one supplier
- Touch set cams are hand adjustable, spring loaded and self-locking providing quick calibration of position switches and sensors
- Terminal strips are pre-wired and numbered with generous working space for ease of use
- Strong durable Beacon™ offers 360° visual indication available in a choice of styles and colors
- Additional conduit for easy field wiring and mounting accessories as standard
- Standardized mounting pattern for easy adaptation to common bracketry
- NAMUR shaft output compliant to VDI/VDE 3845 available
- Analog position transmitter option
- Stainless steel enclosures available
- Choice of factory pre-wired 3 and 5 way Falcon V explosionproof solenoid valves
- Falcon V solenoid valves available with a choice of C_v ratings and coil voltages
- Aluminum enclosures with ultra-low copper content (0.2% maximum) ensure robust performance in corrosive environments

GENERAL APPLICATION

XP Eliminator series is a pre-wired and tested combination of the AccuTrak 2007/9479 switch boxes with the Falcon V solenoid valve supplied with a single hazardous area certificate for all electrical parts.

Agency approvals

Area classification
 Models E2007/E9479
 Class I, Div 1, Groups C and D/ T3C Ta = 40°C
 Class II, Div 1, Groups E, F and G/ T3C Ta = 40°C
 Model E9479
 Class I, Div 2, Groups A, B, C and D/T3C Ta = 40°C
 Enclosure standards (ANSI/NEMA 250)
 All enclosures Type 4, 4X

TECHNICAL DATA

Switches

Model E2007 V3 (SPDT) and DPDT mechanical / GO®
 Model E9479 Magnum

Enclosures

Models E2007/E9479 Aluminum
 Stainless steel

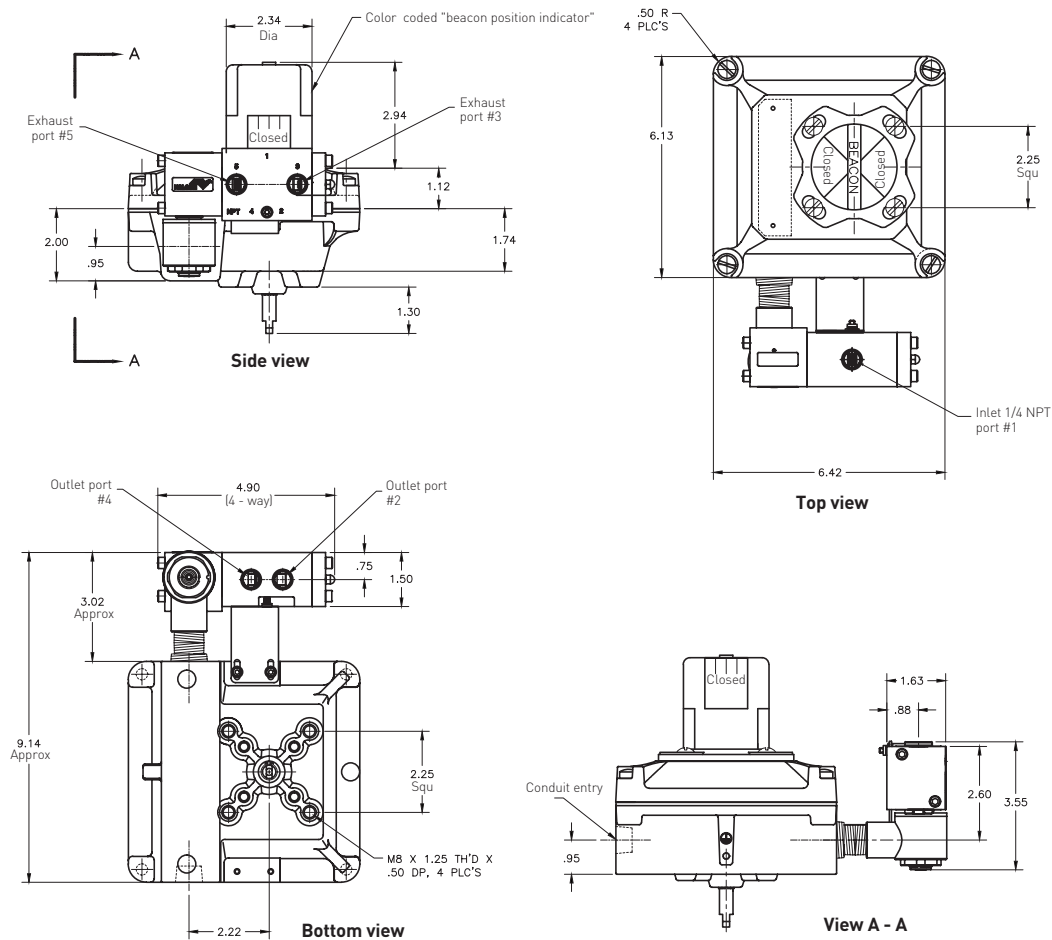
Falcon V solenoid valves

C_v Choice of 1.4 and 4.3
 Materials Brass, aluminum, stainless steel

XP ELIMINATOR SERIES ROTARY POSITION MONITORS

ACCUTRAK SWITCHBOX

MODELS E2007/E9479 DIMENSIONS



Note: Drawing shows 4-way solenoid valve

TECHNICAL SPECIFICATIONS

Materials of construction

Enclosure	Aluminum with black polyester coating
Shaft and hardware	Stainless steel
Bushing	Oil impregnated bronze
Beacon visual indicator	Co-polyester

Drive shaft

Standard	Double-D with 1/4" A/F
Option	NAMUR standard VDI/VDE 3845

Available switches

Model E2007	V3 mechanical switches, SPDT DPDT (Form CC) mechanical switches GO® switches
Model E9479	Magnum (hermetically sealed proximity type)

Options

Models E2007/E9479	Stainless steel enclosure 4-20 mA position transmitter
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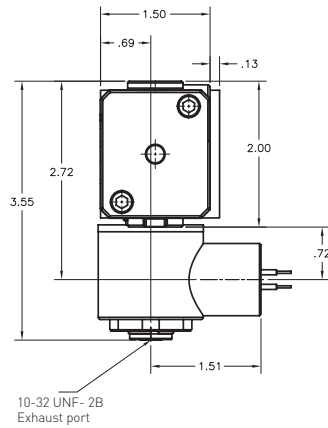
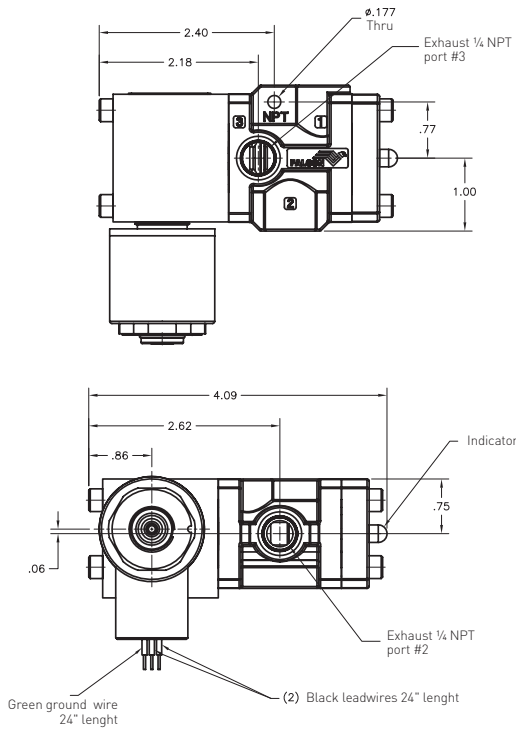
NOTES

1. See selection guide for standard conduit entries.
2. See switches and sensors data sheet for further information.
3. Please consult your sales office for any other requirements.

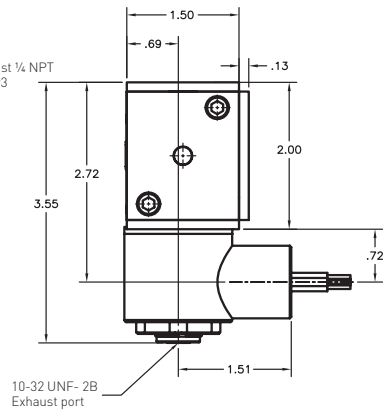
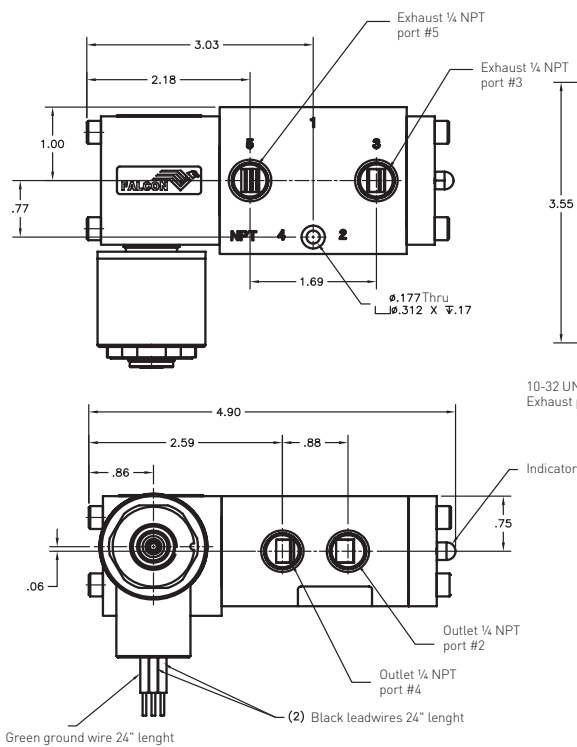
XP ELIMINATOR EXPLOSIONPROOF ROTARY POSITION MONITORS

FALCON V SOLENOID VALVE

FALCON V 3-WAY SOLENOID VALVE



FALCON V 4-WAY SOLENOID VALVE



FALCON V FEATURES

The Falcon V is engineered specifically to address low power valve actuation requirements in hazardous locations.

- Available in 3 and 4 - way anodized aluminum (all wetted parts), nickel-plated brass with stainless steel internals and 316 SS (all wetted parts)
- Larger 4.0 C_v valve body available in Aluminum with 1/2" NPT ports
- Viton seals as standard
- Internal venting design as standard
- Increased C_v of the standard valve body (1.4 C_v) allows for automation of a wider range of actuators and reduces stock requirements
- Reduced pilot pressure coil allows use on low supply pressure without external pilot
- Anti-extrusion seal design
- Common global porting system and location across all Westlock brands for ease of automation (model in ISO view)
- Spool indicator design protects the indicator from incidental contact damage
- 5 cc or less air leakage at steady state reduces losses
- Standard valve temperature range -4°F to 104°F (-20°C to +40°C)
- Extended low temp -40 °F (-40 °C) seal optional
- Suitable for high cycle applications

Standard specification

Materials	Anodized aluminum, nickel plated brass, 316 stainless steel
Valve flow rates	1.4 C _v , 4.3 C _v
Standard coil voltages	24 V DC, 0.85 watt and 1.8 watt 110/120 V AC, 1.8 watt
Valve port tapping	1.4 C _v - 1/4" NPT air ports for inlet, outlet and exhaust 4.3 C _v - 1/2" NPT air ports for inlet, outlet and exhaust

Technical data

Operating pressure	30 - 120 psi (2.1 - 8.3 bar)
Operating temperature (Agency approved)	
Standard	-4°F to +104°F (-20°C to +40°C)
Extended	-40°F to +104°F (-40°C to +40°C)
Operating media	Filtered air to 20 microns

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MODELS E2007 / E9479 SELECTION GUIDE

Base model

E2007 Aluminum enclosure
E9479 Aluminum enclosure

Shaft output

S Standard (double-D with 1/4" Flats) N NAMUR
D Direct mount to Keystone 79U or MRP actuators

Beacon

BY	BM2-Y (standard)	AB	BM2-B	B5	BM3-5
RG	BM2-RG (Red Closed/Green Open)	AR	BM2-R	B7	BM3-7
FE	BM2-Y-FE (French/English)	B1	BM3-1	B9	BM3-9
		B3	BM3-3	FC	Flat cover

Conduit

2E One 3/4" NPT (F) and one 1/2" NPT (M) eliminator fitting
4E Three 3/4" NPT (F) and one 1/2" NPT (M) eliminator fitting

Position switches

Model E2007

2M02 Two SPDT Mechanical Switches - 8 pt. Terminal Strip
4M02 Four SPDT Mechanical Switches - 16 pt. Terminal Strip
6M02 Six SPDT Mechanical Switches - 24 pt. Terminal Strip
2M04 Two DPDT Mechanical Switches - 16 pt. Terminal Strip
4M04 Four DPDT Mechanical Switches - 24 pt. Terminal Strip
2M03 Two SPDT Go Switches - 12 pt. Terminal Strip
4M03 Four SPDT Go Switches - 16 pt. Terminal Strip

Model E9479

2M06 Two SPDT Magnum Switches - 8 pt. Terminal Strip
2M12 Two SPDT Magnum Switches with Rhodium Contacts - 8 pt. Terminal Strip
4M06 Four SPDT Magnum Switches - 16 pt. Terminal Strip
4M12 Four SPDT Magnum Switches with Rhodium Contacts - 16 pt. Terminal Strip
6M06 Six SPDT Magnum Switches - 24 pt. Terminal Strip
6M12 Six SPDT Magnum Switches with Rhodium Contacts - 24 pt. Terminal Strip

Analog position transmitter

00 None
CS 4-20 mA Transmitter (not available with 4M04, 6M02, 2M03, 4M03, 6M06 and 6M12
12 pt. TS with 2M02, 2M06 and 2M12
16 pt. TS with 2M04, 4M02, 4M06, 4M12
DT 4-20mA Transmitter, Absolute Encoder with 2M06 and 2M12 (10 pt.TS) ONLY

Coil voltage

DTO 24 V DC, 1.8 watt, 1/2" NPT conduit, stainless steel housing, potted coil.
DZO 120 V AC, 1.8 watt, 1/2" NPT conduit, stainless steel housing, potted coil.
DYO 24 V DC 0.85 watt, 1/2" NPT conduit, stainless steel housing, potted coil.
DTL Low Temp 24 V DC, 1.8 watt, 1/2" NPT conduit, stainless steel housing, potted coil.
DZL Low Temp 120 V AC, 1.8 watt, 1/2" NPT conduit, stainless steel housing, potted coil.
DYL Low Temp 24 V DC, 0.85 watt, 1/2" NPT conduit, stainless steel housing, potted coil.

Falcon V valve body

2V3	1.4Cv, 3-Way, Brass	2V7	1.4Cv, 4-Way, Brass
3V3	1.4Cv, 3-Way, Aluminum	3V7	1.4Cv, 4-Way, Aluminum
5V3	1.4Cv, 3-Way, 316 SS	5V7	1.4Cv, 4-Way, 316 SS
3V4	4.3Cv, 3-Way, Aluminum**	3V8	4.3Cv, 4-Way, Aluminum**

Valve options

0	None	R	4.3Cv aluminum valves
M	Momentary Over-ride	N	Manual Reset with Latch (Not available on 4.3Cv aluminum valves)
L	Manual Reset (Not available on 4.3Cv aluminum valves)	E	External Pilot
		X	Low Temp option (-40°C, -40°F)

E2007 N BY 2E 2M02 00 DTO 3V3 0 = Model number **E2007NBY2E2M020DT03V30**

NOTES

* Please contact your local sales office, not available with all valve options

** 3V4 valves are 3V8 valves with ports 2 and 3 plugged at the factory for 3 way functionality.

For stainless steel enclosure, please contact your local sales office.



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