Sanitary Valve Position and Control Monitors
Weatherproof - IEC

WESTLOCK CONTROLS

Westlock Pharma II and AccuTrak 9881 provide position and control monitoring for linear sanitary diaphragm valves. They are both weatherproof and the Pharma II offers network connectivity.

Technical data	
Agency approvals	
Enclosure standards (IEC)	
Pharma II	IP55
Switches	
Pharma II 99P2	Hermetically sealed dry contact switch elements
Pharma II 76P2/77P2	Hall effect sensors
AccuTrak 9881	Magnum (hermetically sealed proximity type) switches
Enclosures	
Pharma II	Engineered resin
AccuTrak 9881	Aluminum

Features

Pharma II

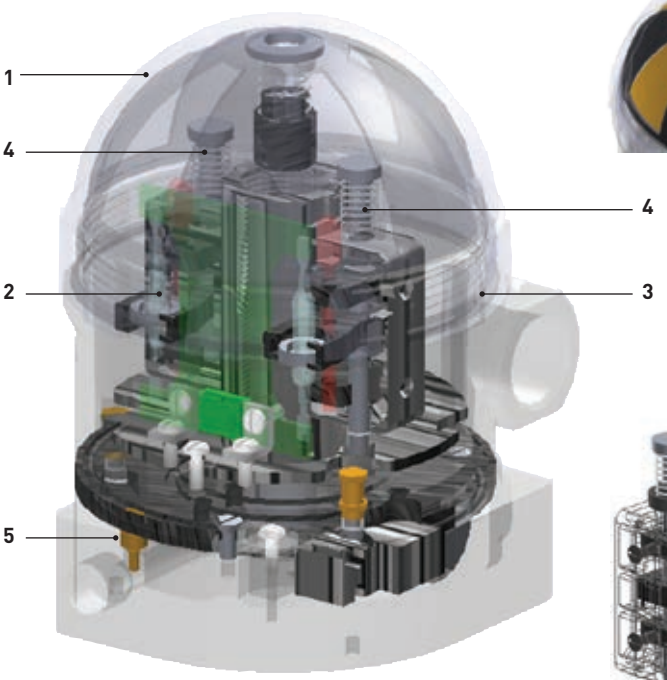
- Compact 95 mm height (without solenoid).
- Low profile and tool-free access ideal for short bend radius installations.
- Non-contact, solid state Hall effect sensors provide premium reliability, even in high cycle applications.
- Zero current leakage means excellent performance in low current I/O systems.
- QuickSwap twist lock installation allows easy integration of puck style solenoid valve base.
- QuickSwap conventional and network electronic modules.
- Easy access to terminal strip for internal wiring.
- Modular design allows the quick change out of electronics/switch module or solenoid.
- Network connectivity via DeviceNet™ (76P2) and AS-Interface® (77P2) protocols.

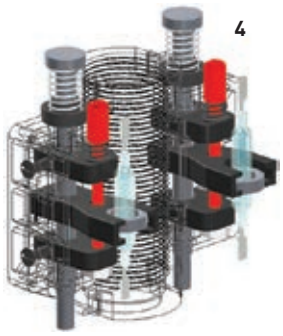
AccuTrak 9881

- Mounting kits available for all sanitary actuators.
- Mechanical visual position indicator available as an option.
- Terminal strips are pre-wired and numbered with generous working space for ease of use and extra wiring points for solenoid integration.
- Aluminum enclosures with low copper content (0.2% max.) ensure robust performance in corrosive environments.
- Thumbscrew trigger adjustments allow quick and simple hand setting of position sensors.
- Eliminator integrated coupling option for attachment of solenoid valve.

Pharma II 99P2/76P2/77P2

Non-hazardous Position and Control Monitors





1. High definition visual indicator
The patent pending design of the HDVI allows 360° viewing from up to 100 feet away. The HDVI is also self-setting for all stroke lengths. It is incorporated as an integral part of the screw top, easy access enclosure.

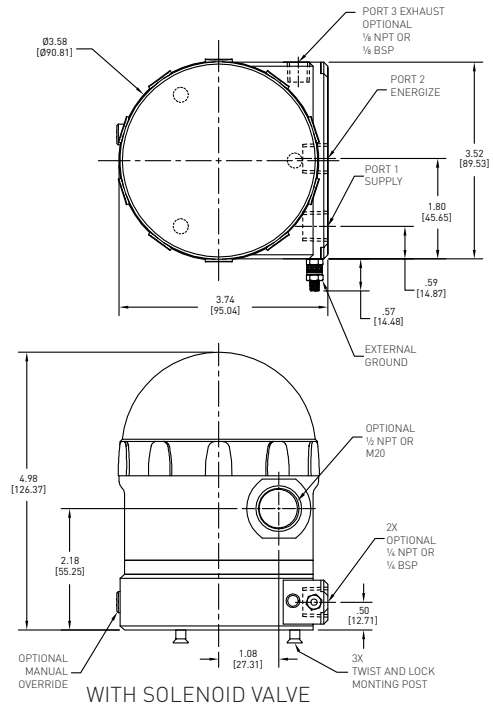
2. 99P2: Hermetically sealed bifurcated dry contact switch elements.
76P2/77P2: Hall effect sensors offer enhanced reliability in extreme environments. As there are no moving parts in the sensor or magnet, they typically have a longer life than traditional switches.

3. Tool-free access with screw top cover.

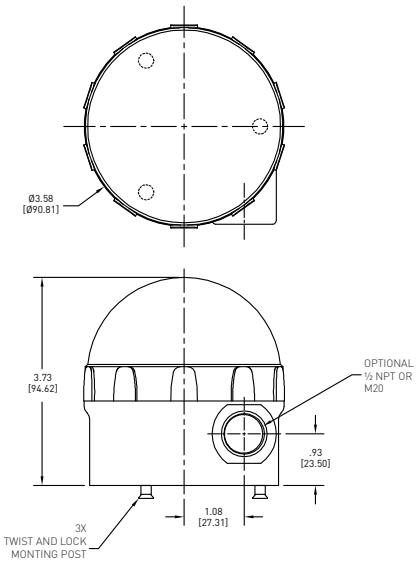
4. Self-setting limit switches
Self-setting position limit switch assembly is engineered to reduce control room nuisance alarms and false trips created by changes in seat durometer.

5. Solenoid spool design
Integrated puck style base mounted solenoid.

Pharma II dimensions



WITH SOLENOID VALVE



WITHOUT SOLENOID VALVE

Dimensions in inches, where available metric dimension (mm) in parentheses.

Technical specifications

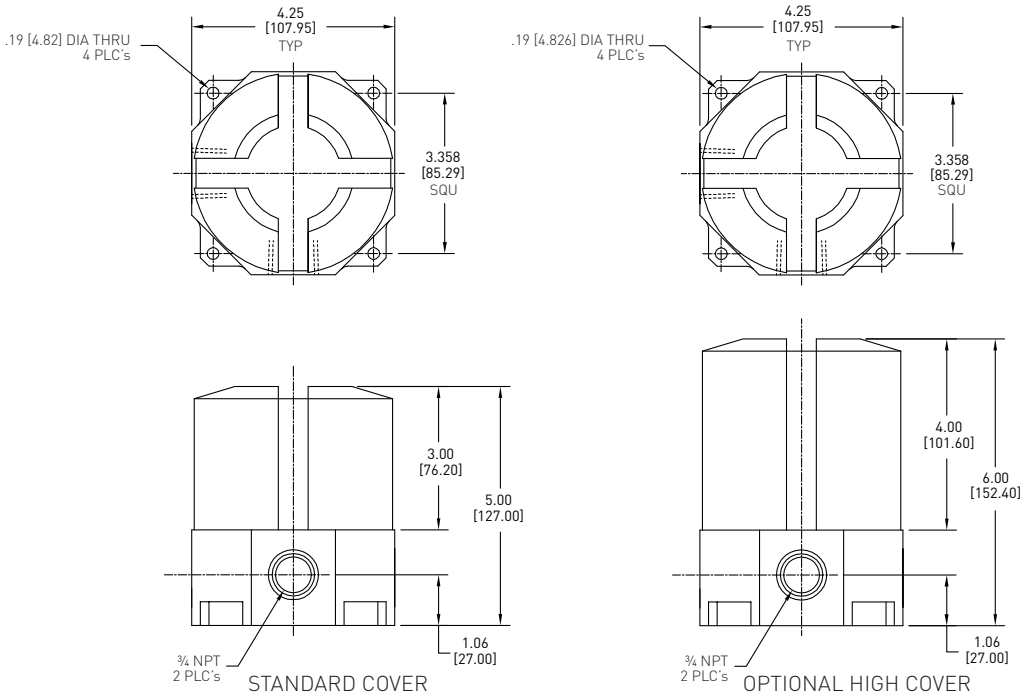
Materials of construction	
Enclosure	Engineered resin
Beacon	Co-polyester
Solenoid valve	Stainlesss steel (with engineered resin block)
Available switches	
99P2	Hermetically sealed bifurcated dry contact switch elements
76P2/77P2	Hall effect sensors

Notes

Mounting kits
Mounting kits sold separately; please contact your local sales representative for mounting kit part numbers and pricing.

Switches and sensors
For further information see our switches and sensors data sheet.

AccuTrak 9881 dimensions



Dimensions in inches, where available metric dimension (mm) in parentheses.

Technical specifications

Materials of construction	
Enclosure	Aluminum with powder coat finish
Available switches	
	Magnum, SPDT hermetically sealed switches with tungsten contacts

Notes

Sanitary valve ordering code
(see selection guide)

Switches and sensors
For further information see our switches and sensors data sheet.

Mounting kits
Mounting kits sold separately; please contact your local sales representative for mounting kit part numbers and pricing.

Specifying your control monitor
Specifying a control monitor is a complex process as there are many variables which affect each individual application. To ensure that you receive the best possible combination for your control and monitoring requirement, please contact your local sales office for advice and guidance from one of our experts.

Hazardous area classification
Please see our data sheet for further information on the global standards affecting the specification and installation of equipment in hazardous areas.

Pharma II

Base model

99P2	Pharma II
76P2	DeviceNet™
77P2	AS-Interface® v3.0 (for version 2.0 contact your sales representative)

Conduit size

1A	One ½" NPT (F) fitted with gland fitting
1M	One ½" NPT (F) fitted with mini-connector (not available with 99P2)
1U	One ½" NPT (F) fitted with micro-(Euro) connector (not available with 99P2)
1C	One M20
2G	One ½" NPT (F) and one ½" NPT (M) eliminator fitting

Solenoid coil voltage

0	None
D	24 V DC
A	120 V AC (99P2 only)

Spool valve

000	None
550	0.1 C_v, 3-way, stainless steel

Override option

0	None
L	Locking

76P2 1M D 550 L = Model number **76P21M05500L**

AccuTrak 9881

Base model

9881	Aluminum enclosure

Shaft output

0	None

Beacon

00	No indicator
MI	Mechanical indicator (not available on all applications)

Conduit

1B	One ¾" NPT (F), (standard when ordered with Falcon solenoid valve below)
2B	Two ¾" NPT (F), (standard)
2E	One ¾" NPT (F) and one ½" NPT (M) eliminator fitting*

Sanitary valve ordering code

XXXX

Model Code

ITT	Valve Size
I001	¼" (Biotek)
I002	½"
I003	¾"
I004	1"
I005	1½"
I006	1½" Style 33
I007	2"
I008	2" Style 33
I009	3" and 4" Style 47
I010	3" and 4" Style 33

ASEPCO	Valve Size
A001	½"
A002	1"
A003	2"
A004	3"

GEMU	Valve Size
G001	½" to ½" Style 605
	⅜" to ¾" Style 625
G002	½" to 1" Style 687
G003	1½" Style 687
G004	2" Style 687

SAUNDERS	Valve Size
S001	¼"
S002	½"
S003	¾"
S004	1"
S005	1½"
S006	2"

Analog position transmitter

00	None

Coil Voltage

0	None**

Falcon Valve Body

00	None**

Special Valve Features

0	None**

Override Options

0	None**

9881 0 MI 2B A002 00 0 00 0 0 = Model number **98810M12BA0020000000**

* Eliminator fitting is ½" NPT (M) for the purpose of mounting an aftermarket solenoid valve.
** For solenoid options, please consult your sales representative.

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