

Pressure and Temperature Switches

SINGLE SETPOINT WATERTIGHT ENCLOSURES

B-SERIES



FEATURES

Enclosure:

Watertight epoxy-coated aluminum NEMA 4, 4X, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT (or)
Single setpoint, fixed deadband, (2) SPDT (DPDT action)

Wetted Materials:

Stainless steel and Buna, *Teflon® or Viton® (or)
All-welded stainless steel (or)
All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 600 psid
H-Series Pressure: 1000 – 7500 psi

U.L. and CSA LISTED

*Registered trademark of E. I. DuPont

LOOK FOR THESE MARKS ON OUR PRODUCTS



General purpose switches for most industrial and process applications. Models are available for steam and fuel pressure-limit controls on boilers and burners. Ideal for compressors, turbines, filters, blowers, etc.

SINGLE SETPOINT EXPLOSION PROOF ENCLOSURES

B-SERIES



FEATURES

Enclosure:

Explosion proof, NEMA 7/9, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT (or)
Single setpoint, fixed deadband, (2) SPDT (DPDT action)

Wetted Materials:

Stainless steel, Buna, Teflon® or Viton® (or)
All-welded stainless steel (or)
All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 600 psid

U.L. or CSA LISTED, ATEX and IECEx models for Hazardous locations now available.

Dual Seal Rating now available

LOOK FOR THESE MARKS ON OUR PRODUCTS



Ashcroft 700 series has been developed for most applications found in process plants U.L. or CSA LISTED.

All models have similar performance characteristics to the popular Ashcroft B400 Series switch line, which has been used throughout the world's plants and mills for over 25 years. They feature rugged, reliable diaphragm-sealed piston actuators, snap-acting contacts and all-popular wetted materials and process connections. Dual Seal Rating models available. Optional hermetically sealed contacts, Monel or fire-safe actuators and scores of options allow you to choose a model for any application.

DUAL SETPOINT WATERTIGHT ENCLOSURES

L-SERIES



FEATURES

Enclosure:

Watertight epoxy-coated aluminum NEMA 4, 4X, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or)
Single setpoint, fixed deadband, (2) SPDT contacts (DPDT action) (or)
Single setpoint, adjustable deadband, SPDT contacts (or)
Dual setpoint, fixed deadband, (2) SPDT contacts, (DPDT action)

Wetted Materials:

Stainless steel and Buna, Teflon® or Viton® (or)
All-welded stainless steel (or)
All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 400 psid

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS



Easy-to-use L-Series switches are specifically suited for the OEM seeking more features in a snap-acting switch. Single or dual setpoints and fixed or adjustable deadband models with many wetted materials and electrical ratings are offered. This snap-acting switch also replaces older mercury models and is cost effective.

L-Series switches are ideal for blowers, generators, scrubbers, precipitators, compressors and turbines.

DUAL SETPOINT EXPLOSION PROOF ENCLOSURES

P-SERIES



FEATURES

Enclosure:

Watertight epoxy-coated aluminum explosion-proof NEMA 7/9, IP66

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or)
Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or)
Single setpoint, adjustable deadband, SPDT contacts (or)
Dual setpoint, fixed deadband (2) SPDT contacts, (DPDT action)

Wetted Materials:

Stainless steel and Buna, Teflon® or Viton® (or)
All-welded stainless steel (or)
All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 400 psid

U.L. or CSA LISTED

Dual Seal Rating now available

LOOK FOR THESE MARKS ON OUR PRODUCTS



More varieties and more features are available in the highly reliable P-Series switch which is especially suited for process and refinery applications. Dual chamber design allows setpoint changes to be made safely, even with power connected. Features include NEMA 4X/ NEMA 7/9 enclosure, with single or dual setpoints, fixed or adjustable deadbands, with many wetted materials and electrical ratings. Dual Seal Rating models available. Optional, all-welded stainless steel or Monel actuators are ideal for applications requiring NACE or fire-safe conformance. Optional UL listed, hermetically sealed switch contacts improve safety and reliability.

Pressure and Temperature Switches

WATERTIGHT STAINLESS STEEL ENCLOSURES

G-SERIES



FEATURES

Enclosure:

Watertight 316 stainless steel NEMA 4, 4X, IP65

Switch Function:

Single setpoint, fixed deadband, SPDT contacts (or)
Single setpoint, fixed deadband (2) SPDT contacts (DPDT action) (or)
Single setpoint, adjustable deadband, SPDT contacts (or)
Dual setpoint, fixed deadband (2) SPDT contacts (DPDT action)

Wetted Materials:

Stainless steel and Buna, Teflon® or Viton® (or)
All-welded stainless steel (or)
All-welded Monel

Ranges:

Pressure: vac. thru 3000 psi
Temperature: -40°F thru 750°F
Differential Pressure: 30 in.H₂O diff. thru 400 psid

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS



The stainless steel enclosure offers greater corrosion protection for this high-performance switch in breweries, dairies, chemical and petrochemical plants, offshore rigs and pulp and paper mills. Our standard diaphragm-sealed piston actuators and a variety of wetted materials are available in these pressure, temperature and differential pressure switches.

COMPACT EXPLOSION PROOF PRESSURE

F-SERIES



FEATURES

Enclosure (Body):

Explosion-proof, anodized aluminum NEMA 7/9, IP66

Switch Function:

Single setpoint, field-adjustable fixed deadband, SPDT contacts (or)
Single setpoint, field-adjustable fixed deadband, (2) SPDT contacts (DPDT action)

Wetted Materials:

316 stainless steel pressure connection and choice of:
Buna N, Teflon® or Viton® diaphragm and O-ring (or)
All-welded 316 stainless steel diaphragm

Ranges:

Pressure: vac. thru 4000 psi

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS



Compact size facilitates mounting in panels and other installations where space is a premium.

Standard hermetically sealed switch element and sealed conduit connection eliminate the possibility of condensation entering the enclosure from the conduit. Standard 1/2 NPTF pressure connection makes retrofit on existing installations quick and easy.

MINIATURE PRESSURE SWITCHES

A-SERIES



FEATURES

Enclosure:

NEMA 4X watertight or NEMA 7/9 explosion proof, IP66

Switch Function:

Single setpoint, fixed deadband, factory set SPDT contacts (or)
Single setpoint, fixed deadband, field-adjustable SPDT contacts

Wetted Material:

Brass
(Buna N, Viton® or Teflon® actuator)
Stainless steel

Ranges:

Vac thru 2000 psi.

U.L. and CSA LISTED

LOOK FOR THESE MARKS ON OUR PRODUCTS



You should consider Ashcroft A-Series pressure switches for use on heavy vehicles, engines and compressors, electronics processing and medical equipment, food and beverage processing equipment, garbage compactors, machine tools, or any equipment where space is a consideration. This series is especially suitable for OEM configuration.

ELECTRONIC PRESSURE SWITCHES

N-SERIES



FEATURES

Enclosure:

NEMA 4X watertight or NEMA 7/9 explosion proof, IP66

Switch Function:

Single setpoint with adjustable deadband

Wetted Material:

Stainless steel

Ranges:

60 thru 20,000 psi. Deadbands as low as 0.1% of range.

Optional process and setpoint indication and 4-20mA transmitter output now available.

The Ashcroft N-Series electronic pressure switch combines the popular K-Series poly-silicon thin film pressure transducer sensor and rugged, epoxy-coated enclosures. The result is a highly reliable pressure switch that is ideal for high cycle, high pressure, or difficult deadband applications.

Typical applications include: machine tools, injection molding machines, presses, pumps, hydraulic systems, turbines, and compressors.

Pressure and Temperature Switches

STANDARD DIFFERENTIAL PRESSURE SWITCH



Small size and high overpressure capability make our differential pressure switch ideal for most process and industrial applications. Minimum static working pressures of 500 psi allow use on the most difficult filter applications.

We use a unique combination of diaphragm-sealed piston actuators to get our high static pressure performance in 12 ranges.

For inches of water ranges, we use a large diaphragm for sensitivity which results in lower, more conventional working pressure. Consult the factory for application assistance on differential pressure switch selection.

ATEX APPROVAL FOR HAZARDOUS LOCATIONS



ATEX is a European designation that deals with standards for equipment and protective systems intended for use in potentially explosive atmospheres. This approval is required for switches intended for use in hazardous locations, especially important to OEMs who export to Europe and contractors specifying or purchasing products for European applications.

XCN option adds special features to Ashcroft 700-Series switch enclosures that meet the requirements for the highest levels of security and danger, such as:

- Special locking device requiring an Allen wrench to remove cover
- Special vents that blow out should the diaphragm rupture, thus preventing pressure build-up in the enclosure
- Special conduit plug requiring an Allen wrench for removal
- Available on pressure, temperature and d/p models
- Meets explosion class Ex d IIC T6
- IECEx models available
- Dual Seal Rating models available



U.L. LISTED STEAM LIMIT CONTROL



The Ashcroft steam-limit control switch is designed for use on boilers equipped with electrically operated burners. The limit control is an adjustable pressure-operated switch set to stop burner operation when the recommended safe boiler working pressure is exceeded.

We recommend a stainless steel diaphragm for steam service. A pigtail siphon should also be used to reduce the possibility of high temperature affecting switch performance. This listing is available for setpoints up to 300 psi.



U.L. LISTED PRESSURE LIMIT CONTROL



The Ashcroft medium-pressure gas and oil limit control switch is designed for use with air, LP gas, natural gas, #1 and #2 fuel oil and #6 oil preheated to 240°F. This limit control is an adjustable pressure-operated switch with a secondary chamber to prevent fuel from entering the switch enclosure in the unlikely event that the diaphragm develops a leak. The control shuts down a fuel pump in high or low pressure conditions.

