ASHCROFT®
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Ashcroft® Switches

PIP #: SW-PI-76

Applicable to:

DUAL SEAL RATING FOR ASHCROFT® B700, D700 & P-SERIES PRESSURE SWITCHES, OPTION XD2

The Ashcroft® dual diaphragm pressure actuator is designed to meet the requirements of ANSI/ISA-12.27.01-2003 for process sealing between electrical systems and flammable or combustible process fluids. The testing for the Dual Seal Rating was done by CSA and is part of CSA File LR 55541 for Ashcroft B700, D700 and P-series pressure switches. Our dual seal design is based on our limit control redundant diaphragm designs (options XG5, XG6 and XG7) that have been used on boilers and burners for more than 20 years.

OPERATION

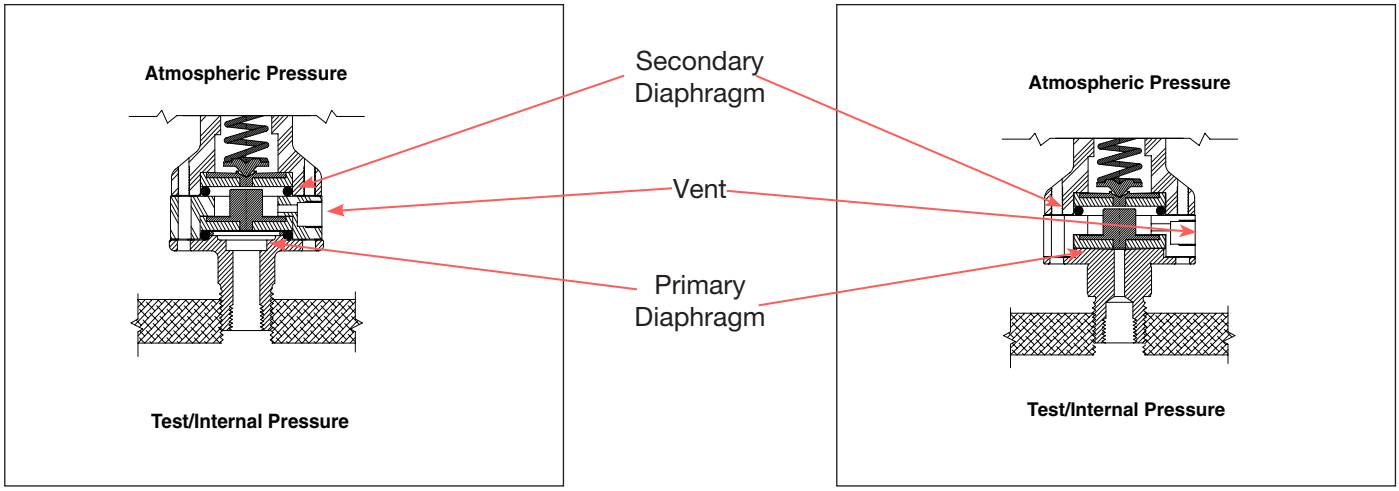
The basic Ashcroft pressure switch actuator consists of a sensing piston of a specific area exposed to process pressure. The pressure on this area creates a force, which is opposed by a spring until the set point is reached, at which point the switch actuates. Various area piston and springs are used to get the different ranges we offer.

The dual diaphragm design consists of a primary or sensing diaphragm as described above and a secondary or redundant seal diaphragm. In the unlikely event that the primary diaphragm ruptures, the secondary diaphragm prevents process fluid from entering the switch enclosure. A vent is provided to annunciate a primary seal failure. Caution: The vent must not be used or blocked; gas leakage may not be visible.

All specifications are subject to change without notice.
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ashcroft.com
info@ashcroft.com
1.800.328.8258

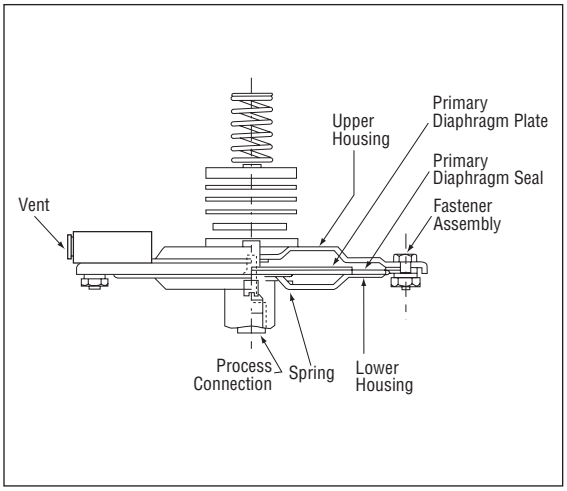
The XD2 option is available for B700, PPA, PPD and PPS switches in the ranges of 15 psi to 600 psi.



B, V, & T Actuators

S or P Actuators

For inches of water ranges the D700, PDA, PDD and PDS switches are used as pressure switches not differential switches. The H connection is used as the process input and the L connection as the vent.



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HOW TO ORDER

Typical Code

B7 24 S XC8D2 60 psi

Enclosure	Switch Element	Actuator	Optional Features	Ranges
700 series NEMA 7/9 Explosion Proof	All standard B-series Switch Elements	B, V, T S, P	C8 CSA Approval D2 Dual Seal Other options	15# 30# 60# 100# 200# 400# 600#

Typical Code

D7 24 B XC8D2 30 IW

Enclosure	Switch Element	Actuator	Optional Features	Ranges
700 series NEMA 7/9 Explosion Proof	All standard D-series Switch Elements	B, V, T	C8 CSA Approval D2 Dual Seal Other options	30 IW 60 IW 100 IW 150 IW

Typical Code PP

D N7 GG B 25 XC8D2 30 psi

Function	Enclosure	Switch Element	Actuator	Connection	Optional Features	Ranges
A, D, S Explosion Proof	NEMA 7/9 P-series	All standard Switch Elements	B, V, T S, P	06, 07, 25	C8 CSA Approval D2 Dual Seal Other options	15# 30# 60# 100# 200# 400# 600#

Typical Code PD

D N7 GG B 25 XC8D2 30 psi

Function	Enclosure	Switch Element	Actuator	Connection	Optional Features	Ranges
A, D, S Explosion Proof	NEMA 7/9 P-series	All standard Switch Elements	B, V, T	06, 07, 25	C8 CSA Approval D2 Dual Seal Other options	30 IW 60 IW 100 IW 150 IW

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