

B-Series Hydraulic Pressure Switches

Features

- Adjustable setpoints 15 -100% of range (on increasing pressure)
- Fixed or limited adjustable deadband
- Wide selection of switch elements
- Shock and vibration resistant
- High pressure capability

Typical uses

- Construction equipment
- Hydraulic presses
- Agricultural machinery
- Hydraulic power units

Specifications

Setpoint:	Factory set or field adjustable
Setpoint Repeatability:	±1% of full range (Additional setpoint shift of 1% of range per 50 °F from initial setpoint set at 70 °F typical)
Enclosure Rating:	H4: NEMA 4X, IP66
Enclosure Material:	Epoxy coated aluminum (standard)
Actuator Seal Material:	Viton™
Pressure Connection:	Standard: ¼ NPT Female
Electrical Output:	SPDT or DPDT
Electrical Termination:	Standard: ¾ NPT Female Optional: ½ NPT Female, M20 X 1.5
Ambient Temperature Range:	-20 °F to 150 °F (-28 °C to 65 °C) All units calibrated at 70 °F
Process Temperature:	20 °F to 300 °F (Viton™, O-ring)
Pressure Ranges:	Hydraulic: 1000-7500#
Approvals:	CE



H400
Series Hydraulic
Pressure Switch



Key Benefits

- Highly reliable
- Designed for use in hydraulic applications
- Pressure ranges from 1000 to 7,500 psi

Contact Us

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B-Series Hydraulic Pressure Switches

Ordering Code

 Example: **H4 24 V XPK 3000#**

Enclosure

H4 - Hydraulic pressure switch, Type 400, watertight enclosure meets NEMA 3, 4, 4X, 13 and IP66 requirements.

Switch Element Selection

20 - Narrow deadband ac, 15 A - 125/250 Vac. Estimated dc rating, 0.4 A, 120 Vdc (not UL listed)

22 - Hermetically sealed switch, narrow deadband, 5 A - 125/250 Vac. Estimated dc rating, 2.5 A, 28 Vdc (not UL listed).

23 - Heavy duty ac, 22 A - 125/250 Vac

24 - General purpose, 15 A - 125/250/480 Vac, ½ A - 125 Vdc, ¼ A - 250 Vdc; 6 A, 30 Vdc. Standard switch.

25 - Heavy duty dc, 10 A - 125 Vac or dc, 1/8 HP - 125 Vac or dc

26 - Sealed environment proof, 15 A - 125/250 Vac. Estimated dc rating, 0.4 A, 120 Vdc (not UL listed)

27 - High temperature 300 °F, 15 A - 125/250 Vac

28 - Manual reset trip on increasing, 15 A - 125/250

29 - Manual reset trip on decreasing, 15 A - 125/250 Vac

32 - Hermetically sealed switch, general purpose, 11 A - 125/250 Vac, 5A - 30 Vdc

Switch Element Selection

61 - Dual narrow deadband, 15 A - 125/250 Vac. Estimated dc rating, 0.4 A, 120 Vdc (not UL listed)

62 - Dual sealed environment proof, 15 A - 125/250 Vac. Estimated dc rating, 0.4 A, 120 Vdc (not UL listed)

63 - Dual high temp. 300 °F, 15 A - 125/250 Vac

64 - Dual general purpose, 15 A - 125/250/480 Vac, ½ A - 125 Vdc, ¼ A - 250 Vdc

65 - Dual ammonia service, 5 A - 125/250 Vac

70 - Dual low level gold contacts, 1 A - 125 Vac

Actuator Seal

Material	Process Temp. Limits °F	Ambient operating temperature limits -20 to 150 °F, all styles, setpoint shift of ±1% of range per 50 °F temperature change is normal. Switches are calibrated at 70 °F reference.
V - Viton™	20 to 300	Viton™ O-ring, stainless steel pressure connection

Options Use table from page 3 (If choosing an option(s) must include an "X")

Range

Range psi	Adjustable Setpoint Limits psi	Proof Pressure psi
1000	150 – 1000	12,000
2000	300 – 2000	12,000
3000	450 – 3000	12,000
5000	750 – 5000	10,000
7500	1125 – 7500	10,000

*Not all B-series hydraulic version (H4) switches are CE compliant. Consult factory for further information

H Series Switch Deadband

Range psi	20, 26, 27, 61, 62, 63	21, 24, 31, 65, 64, 70	50	22, 67	32, 42, 68, 71
1,000	15 - 130	10 - 140	15 - 145	10 - 85	15 - 130
2,000	10 - 215	15 - 250	15 - 285	15 - 220	15 - 300
3,000	18 - 170	35 - 180	30 - 190	35 - 170	40 - 170
5,000	65 - 310	140 - 460	85 - 565	90 - 460	140 - 430
7,000	80 - 410	170 - 510	110 - 810	130 - 510	150 - 610

Note: 1. All deadbands are given in English units as shown in the nominal range column.

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B-Series Hydraulic Pressure Switches

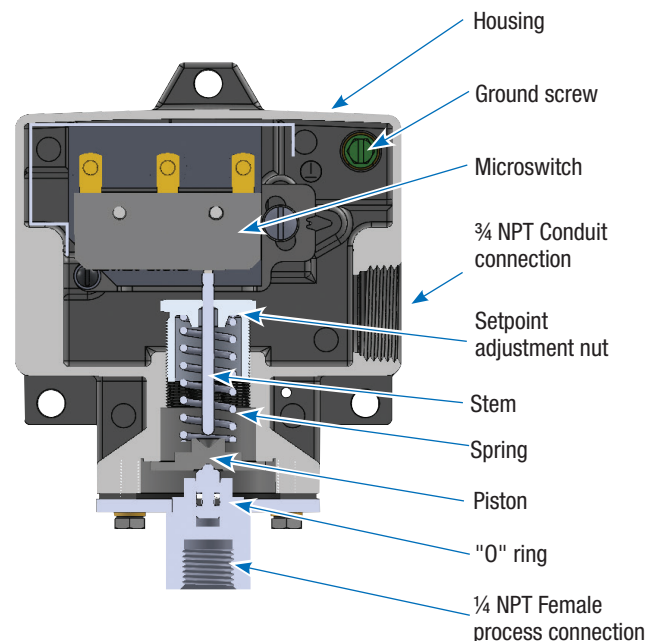
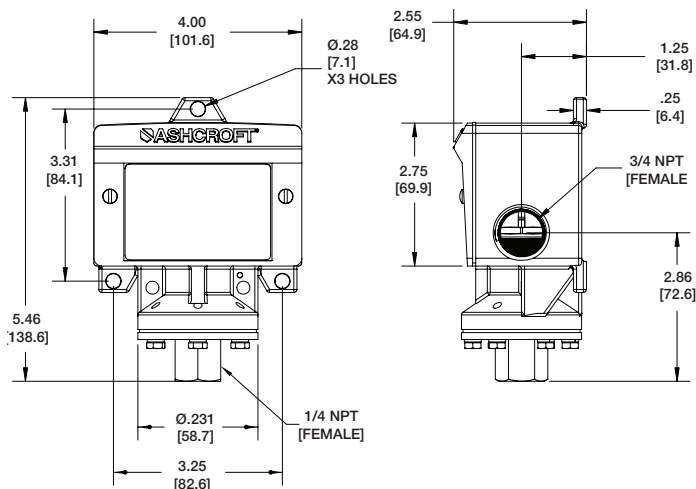
Optional Features and Accessories

Code	Description	(psi)	Notes
CH	Chained cover	•	
FP	Fungus proofing	•	
FS	Factory adjusted setpoint	•	
JK	Left conduit connection	•	Standard on 700 Series. N/A with DPDT element on 400 Series.
JL	¾" to ½" Reducing bushing	•	
JM	Metric electrical conduit conn. M20 x 1.5	•	
LE	6 Foot leads on the Micro Switch	•	
MD	Metric range on label	•	
NH	Tagging stainless steel	•	
NN	Paper tag	•	
PJ	VDC Pilot light(s), Single/Dual H4 only	•	
PM	¾" Sealed conduit connection w/16" lead wires	•	
RN	Range scale	•	
6B	Cleaned for oxygen service	•	

H 400 Dimensions

For reference only, consult Ashcroft for specific dimensional drawings

Pressure switch – psi ranges



Ashcroft Inc. supplies highly reliable Ashcroft® switches and controls for industrial and process applications. We begin with rock-solid designs, matching the most appropriate technology with the safety and reliability requirements of the applications. The materials of construction are specified to Ashcroft's exacting standards, and product is built to last in the toughest applications. Our modern, responsive manufacturing facility is supported by an extensive network of stocking distributors and factory sales offices located in virtually every part of the world. Special application assistance is always just a telephone call away.

The Ashcroft B-Series switch line is designed to satisfy most

switch requirements. Materials of construction have been selected for long life. A wide variety of precision switch elements are available to meet every application requirement, including hermetically sealed contacts for added reliability and safety. The actuators we use have been proven in more than 20 years of service in the world's plants and mills. Simplicity and ease of use are stressed to improve reliability of the installation.

Ashcroft H series hydraulic switches are specifically designed for hydraulic service, pressure ranges up to 7,500 psi, proof pressures up to 12,000 psi, watertight enclosure protection, and wide switch element selection.