



RELIABLE IN -

- Offshore oil rigs
- Chemical and petrochemical plants
- Pulp and paper mills
- Special equipment
- Food and pharmaceutical
- Rail and heavy vehicle hydraulic and pneumatic braking
- Other special machinery and equipment

The Ashcroft® A-Series switch line is designed for alarm, shutdown, control and interlock applications for a wide variety of processes and equipment. Materials of construction have been selected for long life. Precision snap acting switch elements are featured and an optional glass to metal seal is offered for added reliability and safety in the toughest applications. The actuators we use have been proven in more than 20 years of service in the world's plants and mills. Special designs are available for food, pharmaceutical and high purity applications. Simplicity and ease of use are stressed to improve reliability of the installation.

Sealed Switch Element

We recommend optional sealed switch element for improved reliability. The sealed switch provides uncompromising contact protection in harsh or corrosive environments, such as that found in off shore platforms, off-road equipment, outdoor plants and mills, and equipment that is washed down or is subject to frequent temperature changes.

Ashcroft® supplies highly reliable 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 in Connecticut 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.





A-SERIES WELDED STAINLESS STEEL BODY PRESSURE SWITCH MODEL NUMBER:

To specify the exact switch desired select entries from appropriate tables as shown in example below.

















1 - FUNCTION

- APS Pressure switch, single setpoint, fixed deadband, factory set
- APA Pressure switch, single setpoint, fixed deadband, field adjustable

2 – ENCLOSURE (BODY)							
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		$-\mathbf{N}$			166	-10	

- NS Watertight stainless steel body with glass-tometal switch seal
- RS Watertight stainless steel body with polycarbonate switch seal

Gold Contacts

M

N7 – Explosion proof body with glass to metal switch seal⁽¹⁾

3,4	A - SWITCH ELEN	MENT CODE		
CODE	S.P.D.T. Switch Elements UL/CSA Listed			
D	General Purpose	5A, 125/250 Vac 5A, 28 Vdc		

1A, 125 Vac

	3B - ELECTRICAL CONNECTION CODE					
CODE	Electrical Terminations					
L	Wire leads, 3-#18 AWG Insul. – 12"					
S	Screw terminals, 3-#6 binding head screws					
T	Spade terminal, 3187 male spade					
C	½ NPT male conduit connection with wire leads ⁽²⁾					
Н	Micro DIN connector					

4 – ACTUATOR SEAL					
Code	Material	Process Temperature Limits ^a °F)			
S	316 Stainless Steel Welded	0-200			
Н	Stainless Steel Piston/ Viton O-ring	20-200			

5 – PRESSURE PORT			
Code	Description		
01	1/8 NPT Male		
02	1/4 NPT Male		
03	1/8 NPT Female		
04	1/4 NPT Female		
05	7∕16-20 SAE		
06	VCR		
07	VCO		
09	3/4 TriClamp Connection		

	6 – A-SERIES OPTIONS				
Code	Description				
XFS	Factory Adjusted Setpoints				
XNH	Tagging Stainless Steel				
X6B	Clean for Oxygen Service				
ХЗА	1½" or 2" Tri-Clover connection with				
	3A approval		_		



NOTES:

- Available with ¹/₂ NPT male conduit connection only. (Code C)
- 2. Available only with glass-to-metal switch seal. (Enclosures NS or N7)



Note: Stainless steel APA NS and N7 models have set screws to lock setpoint into place - to avoid accidental change in the field.

7A - NOMINAL RANGE AND PERFORMANCE TABLE - CODE S ACTUATOR SEAL						
Nominal Range Proof Repeatability Adjustability Deadband Pressure APS (Factory Set) Range (All Switch						
psi	bar	psi	psi	psi	Elements)	
30IMV/15	-1/1	2000	±1.0"Hg/±0.5	-30"Hg to 15	1-6"Hg/1-5.0	
30	2	2000	±0.5	5-30	1.0-5.0	
60	4	2000	±1.0	8-60	2.0-7.0	
100	7	2000	±2.0	10-100	3.0-10	
200	14	2000	±5.0	35-200	12-20	
400	28	2000	±10	45-400	20-40	
600	40	3000	±15	60-600	30-60	

7B – NOMINAL RANGE AND PERFORMANCE TABLE – CODE H ACTUATOR SEAL					
Nominal F	Range	Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband (All Switch
psi	bar	psi	psi	psi	Elements)
1000 2000*	70 140	8000 8000	±20 ±25	100-1000 200-2000	50-100 100-200

^{*}APS only



A-SERIES BRASS BODY PRESSURE SWITCH MODEL NUMBER:

To specify the exact switch desired select entries from appropriate tables as shown in example below.



















1	-	FUN	CTI	O١	J

- APS Pressure switch, single setpoint, fixed deadband, factory set
- APA Pressure switch, single setpoint, fixed deadband, field adjustable

5 – PRESSURE CONNECTION CODE				
Code	Description			
01	1/a NPT Male			
02	1/4 NPT Male			

2 - ENCLOSURE

RB – Brass/polycarbonate body with polycarbonate

6 – A-SERIES OPTIONS					
Code	Description				
XFS	Factory Adjusted Setpoints				
XNH	Tagging Stainless Steel				
X6B	Cleaned for Oxygen Service				

3	3 – SWITCH ELEMENTS CODE					
CODE	S.P.D.T. Switch Elements UL/CSA Listed					
D	General Purpose	5A, 125/250 Vac 5A, 28 Vdc				
M	Gold Contacts	1A, 125 Vac				

3B – ELECTRICAL CONNECTION CODE			
CODE	Electrical Terminations		
L	Wire leads, 3-#18 AWG Insul 12"		
S	Screw terminals, 3-#6 binding head screws		
T	Şpade terminal, 3187 male spade		
C	1/2 NPT male conduit connection with wire		
	leads		
Н	Micro DIN connector		

	4 - ACTUATOR SE	AL
Code	Material	Process Temperature Limits ^a °F)
В	Buna N	0-150
V	Viton	20-200
T	Teflon	0-150

20-200

Stainless Steel Piston/

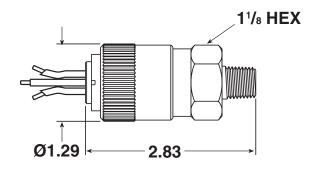
Viton O-ring

7A – AP NOMINAL RANGE & PERFORMANCE TABLE – CODES B, V, T ACTUATOR SEAL							
Nomin	al Range	Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband (All Switch Elements)		
psi	bar	psi	psi	psi	Buna N	Viton & Teflon	
30IMV	-1	1000	±1.0″Hg	-30 to -4″Hg	1-5″Hg	1.0-7.0	
15	1	1000	±0.5	1.5-15 0	0.1-1.0	0.2-2.0	
30	2	1000	±0.5	3-30	0.2-1.3	0.3-2.5	
60	4	1000	±1.0	6-60	0.3-1.5	0.5-3.0	
100	7	1000	±2.0	10-100	1.0-5.0	4.0-10	
200	14	1000	±5.0	20-200	4.0-12	5.0-18	
400	28	1600	±10	40-400	5.0-20	8.0-25	
600	40	2400	±15	60-600	8.0-25	10.0-34	

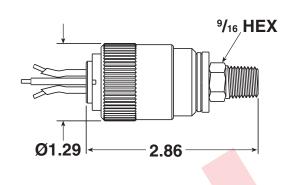
7B – AP NOMINAL RANGE & PERFORMANCE TABLE – CODE H ACTUATOR SEAL								
Nomina	l Range	Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband			
psi	bar	psi	psi	psi	Code D, M, DD, MM			
1000	70	4000	±20	100-1000	50-100			

Н

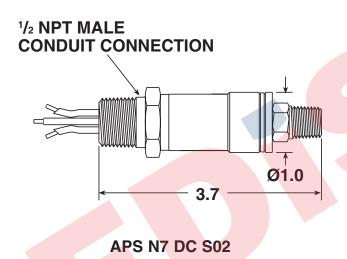


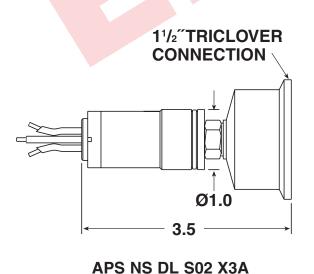


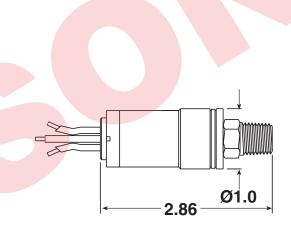
APA RB DL S02



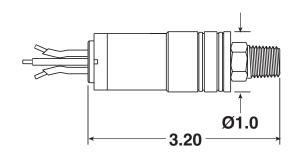
APA NS DL S02







APS NS DL S02



APS NS DL S02 (Vac./15 psi Range)