



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 Dresser'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.

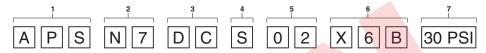






A-SERIES WELDED STAINLESS STEEL BODY PRESSURE SWITCH MODEL NUMBER:

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



- PRESSURE PORT

APS – Pressure switch, single setpoint, fixed deadband, factory set

APA – Pressure switch, single setpoint, fixed deadband, field adjustable

Code Description 00 Flush Diaphragm, 316 SS 1/8 NPT Male 01 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

1. Available with ½ NPT male conduit connection only. (Code C)

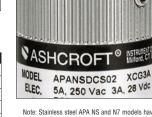
NOTES:

2. Available only with glass-to-metal switch seal (Enclosures NS or N7)

2 – ENCLOSURE (BODY)

- NS Watertight stainless steel body with glass-tometal switch seal
- RS Watertight stainless steel body with polycarbonate switch seal
- N7 Explosion proof body with glass to metal switch seal(1)

6 – F-SERIES OPTIONS				
CODE DESCRIPTION				
XFS	XFS Factory Adjusted Setpoints			
XNH Tagging Stainless Steel				
X6B Clean for Oxygen Service				
X3A 1½" or 2" Tri-Clover connection with				
3A approval				



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

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

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

7A – NOMINAL RANGE AND PERFORMANCE TABLE – CODE S ACTUATOR SEAL					
Nominal Range		Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband (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

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		

7B – NOMINAL RANGE AND PERFORMANCE TABLE – CODE H ACTUATOR SEAL						
Nominal Range		Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband (All Switch	
psi bar		psi	psi	psi	Elements)	
1000	70	8000	±20	100-1000	50-100	
2000*	140	8000	±25	200-2000	100-200	
5000*	345	12,000	±50	500-5000	300-500	

*APS only







A-SERIES BRASS BODY PRESSURE SWITCH MODEL NUMBER:

Code

XFS

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

5 - PRESSURE CONNECTION CODE				
Code	Description			
01	1/8 NPT Male			
02	1/4 NPT Male			

Description

Factory Adjusted Setpoints

2 – ENCLOSURE
RB - Brass/polycarbonate body with polycarbon-
ate switch seal

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

				XNH	Tagging Stainless Steel
1				X6B	Cleaned for Oxygen Service
3 -	- SWITCH EL	EMENTS CODE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
S.P.D.T. Switch Elements					
DE	E UL/CSA Listed				
0	General Purpose	5A, 125/250 Vac			
		5A, 28 Vdc			
			1		

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

	4 – ACTUATOR SEAL					
Code	Material	Process Temperature Limits ^a °F)				
В	Buna N	0-150				
٧	Viton	20-200				
Т	Teflon	0-150				
Н	Stainless Steel Piston/ Viton O-ring	20-200				

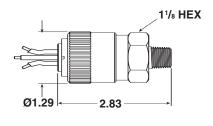
CODES B, V, T ACTUATOR SEAL								
Nominal Range		Proof Pressure	Setpoint Repeatability APS (Factory Set)	Setpoint Adjustability Range	Deadband (All Switch Elements)			
psi	bar	psi	psi	psi	Buna N	Viton & Teflon		
30IMV	-1	1000	±1.0"Hg	-30 to -4"Hg	1-5″Hg	1.0-7.0		
15	1	1000	±0.5	1.5-15 0	0.1-1.0	0.2-2.0		
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		

7A - AP NOMINAL RANGE & PERFORMANCE TABLE -

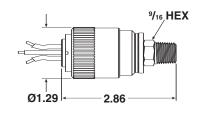
7B – AP NOMINAL RANGE & PERFORMANCE TABLE – CODE H ACTUATOR SEAL								
			Setpoint	Setpoint				
		Proof	Repeatability	Adjustability				
Nominal Range		Pressure	APS (Factory Set)	Range	Deadband			
psi	bar	psi	psi	psi	Code D. M. DD. MM			
		poi	poi	poi	***************************************			





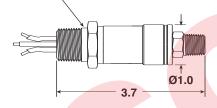


APA RB DL S02

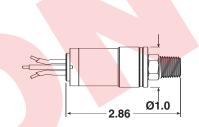


APA NS DL S02

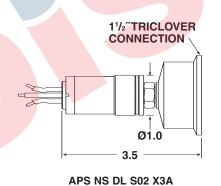


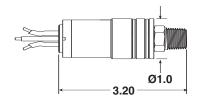


APS N7 DC S02



APS NS DL S02





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