ASHCROFT®

Temperature Switches Watertight Enclosure, Type 400, B-Series

This broad Ashcroft® switch series is easy to use and readily retrofits to virtually all process, industrial and OEM applications.

- ***Watertight NEMA 4X, IP66 enclosure***
- ***Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch)***
- ***UL, CSA listings standard***
- ***Setpoints adjustable from 15-100% of range***
- ***Wetted material is all-welded stainless steel***
- ***Fixed or limited adjustable deadband***
- ***Readily available***

IN A RUSH? ASK FOR ASHCROFT GOLD SERVICE

1 - ENCLOSURE

T4 - Temperature switch, type 400, watertight enclosure meets NEMA 3, 4, 4X and 13, IP66 requirements

2 - SWITCH ELEMENTS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed SPDT	
20[4]	Narrow deadband	15A, 125/250 Vac
21[7]	Ammonia service	5A, 125/250 Vac
22[3]	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A,125/250 Vac
24[1]	General purpose	15A,125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A,125/ Vac or dc 1/8HP 125/ Vac or dc
26[4]	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
28	Manual reset trip on increasing	15A, 125/250 Vac
29	Manual reset trip on decreasing	15A, 125/250 Vac
31	Low level (gold) contacts	1A,125/250 Vac
32	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc
50	Variable deadband	15A,125/250 Vac
	UL/CSA Listed Dual SPDT[2]	
61[4]	Dual narrow deadband	15A, 125/250 Vac
62[4]	Dual narrow environment proof	15A, 125/250 Vac
63	Dual high temp. 300°F	15A, 125/250 Vac
64	Dual general purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
65 [7]	Dual ammonia service	5A, 125/250/480

3 - THERMAL SYSTEM SELECTION[5]

DIRECT MOUNT

Order Code	System Material	Style
TS	316 stainless steel	Rigid

REMOTE MOUNT

Order Code	System Material	Line Length	Style
T05	316 stainless steel	5´	Capillary with 302 SS Spring Armor
T10	316 stainless steel	10´	
T15	316 stainless steel	15´	
T20	316 stainless steel	20´	
T25	316 stainless steel	25´	

4 - BULB LENGTH SELECTION[6]

DIRECT MOUNT

Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2¾″	—
040	4″	2½″
060	6″	4½″
090	9″	7½″
120	12″	10½″
	REMOTE MOUNT	
030	3″	2½″

5 - OPTIONS

See pages 256-257

6 - STANDARD TEMPERTATURE RANGES

See page 253

NOTES:

1. Standard switch.
2. Dual switches are 2 SPDT snap-action switches not independently adjustable.
3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
4. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
5. Additional line lengths available, call factory.
6. Additional bulb lengths available, call factory.
7. Not UL listed

Switches calibrated at 70°F ambient reference.

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft 400 Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction

TO ORDER THIS B-SERIES TEMPERATURE SWITCH:

Select: **T4** **20** **T05** **030** **XNH** **150° to 260°F**

1. Enclosure: **T4**
2. Switch Element: **20**
3. Thermal System: **T05**
4. Bulb Length: **030**
5. Options (see pages 256-257): **XNH**
6. Temperature Range (see page 253): **150° to 260°F**

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Temperature Switches Explosion-Proof Enclosure, Type 700, B-Series

This broad Ashcroft® switch series ideal for use in virtually all process, industrial and OEM applications.

- ***Explosion-proof NEMA 7/9, IP66 enclosures***
- ***Choice of switch elements for all applications, including hermetically sealed***
- ***Fixed or limited adjustable deadband***
- ***Readily available***
- ***UL listings standard***
- ***CSA listings available(7)***
- ***ATEX models available(7)***
- ***Setpoints adjustable from 15-100% of range***
- ***IECEx models available(7)***

1 - ENCLOSURE

T7 - Temperature switch, type 700, explosion proof enclosure meets Div. 1 & 2, NEMA 7/9, IP66 requirements

2 - SWITCH ELEMENTS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed SPDT	
20(4)	Narrow deadband	15A, 125/250 Vac
21	Ammonia service	5A, 125/250 Vac
22(3)	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A,125/250 Vac
24(1)	General purpose	15A,125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A,125/ Vac or dc 1/8HP 125/ Vac or dc
26(4)	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
31	Low level (gold) contacts	1A,125/250 Vac
32	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc
50	Variable deadband	15A,125/250 Vac
	UL/CSA Listed Dual SPDT(2)	
61(4)	Dual narrow deadband	15A, 125/250 Vac
62(4)	Dual narrow environment proof	15A, 125/250 Vac
63	Dual high temp. 300°F	15A, 125/250 Vac
64	Dual general purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
65	Dual ammonia service	5A, 125/250/480
67(3)	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
68	Dual hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

3 - THERMAL SYSTEM SELECTION(5)

DIRECT MOUNT

Order Code	System Material	Style
TS	316 stainless steel	Rigid

REMOTE MOUNT

Order Code	System Material	Line Length	Style
T05	316 stainless steel	5´	Capillary with 302 SS Spring Armor
T10	316 stainless steel	10´	
T15	316 stainless steel	15´	
T20	316 stainless steel	20´	
T25	316 stainless steel	25´	

4 - BULB LENGTH SELECTION(6)

DIRECT MOUNT

Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2¾″	—
040	4″	2½″
060	6″	4½″
090	9″	7½″
120	12″	10½″

REMOTE MOUNT

030	3″	2½″

5 - OPTIONS

See pages 256-257

6 - STANDARD TEMPERTATURE RANGES

See page 253

NOTES:

1. Standard switch.
2. Dual switches are 2 SPDT snap-action switches not independently adjustable.
3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
4. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
5. Additional line lengths available, call factory.
6. Additional bulb lengths available, call factory.
7. Refer to Options Table.
   Switches calibrated at 70°F ambient reference.

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction

TO ORDER THIS B-SERIES TEMPERATURE SWITCH:

Select: **T7 20 T05 030 XNH 150° to 260°F**

1. Enclosure: T7
2. Switch Element: 20
3. Thermal System: T05
4. Bulb Length: 030
5. Options (see pages 256-257): XNH
6. Temperature Range (see page 253): 150° to 260°F

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Temperature Switches, Watertight 316 Stainless Steel Enclosure, G-Series

This Ashcroft® specialty switch series is ideally suited for harsh and corrosive environments often found in many process, industrial and OEM applications.

- ***Watertight NEMA 4X, IP65 enclosure***
- ***316 SS construction***
- ***Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch***
- ***Single or dual independently adjustable setpoints meet all setpoint requirements***
- ***Fixed or fully adjustable deadband***
- ***Readily available***
- ***UL, CSA listings standard***
- ***Setpoints adjustable from 15-100% of range***

HERMETICALLY SEALED SWITCH
We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft G Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction

IN A RUSH? ASK FOR ASHCROFT GOLD SERVICE

LOOK FOR THIS AGENCY MARK ON OUR PRODUCTS

1 - FUNCTION

GTA - Temperature control, single setpoint, adjustable deadband

GTD - Temperature control, two independently adjustable setpoints, fixed deadband

GTS - Temperature control, single setpoint, fixed deadband

2 - ENCLOSURE

N4 - NEMA 4/4X, IP65 (watertight and corrosion resistant)

3 - SWITCH ELEMENTS FOR PTA CONTROLS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed	
H	General purpose	10A,125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR GTD & GTS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (GS)	Dual (GD)		
K[2]	KK	Narrow deadband	15A, 125/250 Vac
F[2]	FF	Sealed environment proof	15A, 125/250 Vac
G[3]	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P[1]	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

4 - LINE LENGTH SELECTION[4]

Order Code	Line Length ft	Style
DIRECT MOUNT		
00	Not Applicable	Rigid
REMOTE MOUNT		
05	5	Capillary with Armor (Std.)
10	10	
15	15	
20	20	
25	25	

5 - THERMAL SYSTEM SELECTION

LINE MATERIAL

Order Code	Description
DIRECT MOUNT	
	No entry required for Direct Mount
REMOTE MOUNT	
A7	Stainless Steel Armor (Std.)

6 - BULB LENGTH SELECTION[5]

Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
DIRECT MOUNT		
027	2¾″	—
040	4″	2½″
060	6″	4½″
090	9″	7½″
120	12″	10½″
REMOTE MOUNT		
030	3″	2½″

7 - OPTIONS

See pages 256-257

8 - STANDARD TEMPERTATURE RANGES

See page 255

NOTES:

1. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
2. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
3. Not UL listed at 480 Vac.
4. Additional line lengths available, call factory.
5. Additional bulb lengths available, call factory. Switches calibrated at 70°F ambient reference.

TO ORDER THIS G-SERIES TEMPERATURE SWITCH:

Select: **GTA N4 H 05 A7 030 XNH 150° to 260°F**

1. Function: GTA
2. Enclosure: N4
3. Switch Element: H
4. Line Length: 05
5. Thermal System: A7
6. Bulb Length: 030
7. Options (see pages 256-257): XNH
8. Temperature Range (see page 255): 150° to 260°F

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Temperature Switches, Watertight Enclosure, L-Series

This broad Ashcroft® switch series is easy to use and readily retrofits to virtually all process, industrial and OEM applications.

- ***Single or dual independently adjustable setpoint(s) meet all setpoint requirements***
- ***Watertight NEMA 4X, IP66 enclosure***
- ***Choice of switch elements for all applications, including hermetically sealed (NEMA 4 meets Class I, Div. 2, Groups A, B, C, & D with hermetically sealed switch***
- ***Fixed or fully adjustable deadband***
- ***Readily available***
- ***UL, CSA listings standard***
- ***Setpoints adjustable from 15-100% of range***

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments. The Ashcroft L Series is also approved for installation in Division II hazardous areas when supplied with hermetically sealed contacts.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction

1 - FUNCTION

LTA - Temperature control, single setpoint, adjustable deadband

LTD - Temperature control, two independently adjustable setpoints, fixed deadband

LTS - Temperature control, single setpoint, fixed deadband

2 - ENCLOSURE

N4 - NEMA 4/4X, IP66 (watertight and corrosion resistant)

3 - SWITCH ELEMENTS FOR LTA CONTROLS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed	
H	General purpose	10A,125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR LTD & LTS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (LS)	Dual (LD)		
K[2]	KK	Narrow deadband	15A, 125/250 Vac
F[2]	FF	Sealed environment proof	15A, 125/250 Vac
G[3]	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P[1]	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

4 - LINE LENGTH SELECTION[4]

DIRECT MOUNT		
Order Code	**Line Length ft**	**Style**
00	Not Applicable	Rigid
REMOTE MOUNT		
05	5	Capillary with Armor (Std.)
10	10	
15	15	
20	20	
25	25	

5 - THERMAL SYSTEM SELECTION

LINE MATERIAL	
DIRECT MOUNT	
Order Code	**Description**
	No entry required for Direct Mount
REMOTE MOUNT	
A7	Stainless Steel Armor (Std.)

6 - BULB LENGTH SELECTION[5]

DIRECT MOUNT		
Order Code	**"S" Dimension**	**Minimum Thermowell "U" Dimension**
027	2¾″	—
040	4″	2½″
060	6″	4½″
090	9″	7½″
120	12″	10½″
REMOTE MOUNT		
030	3″	2½″

7 - OPTIONS

See pages 256-257

8 - STANDARD TEMPERTATURE RANGES

See page 255

NOTES:

1. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
2. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
3. Not UL listed at 480 Vac.
4. Additional line lengths available, call factory.
5. Additional bulb lengths available, call factory. Switches calibrated at 70°F ambient reference.

TO ORDER THIS L-SERIES TEMPERATURE SWITCH:

Select:	LTA	N4	H	05	A7	030	XNH	150° to 260°F
1. Function:								
2. Enclosure:								
3. Switch Element:								
4. Line Length:								
5. Thermal System:								
6. Bulb Length:								
7. Options (see pages 256-257):								
8. Temperature Range (see page 255):								

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Pressure and Differential Pressure Switches, Watertight and Explosion-Proof Enclosure, P-Series

This top-of-the-line Ashcroft® process switch series includes many state-of-the-art features for safety and reliability in virtually all process applications.

- ***Die cast aluminum enclosure is standard with NEMA 4X (weatherproof, corrosion resistant) NEMA 7 (explosion-proof enclosure Class I, Div. 1 & 2, Groups B, C & D and Class II, Div. 1 & 2, Groups E, F & G). Dual chamber design allows set-point changes to be made safely even with power connected.***
- ***Single or dual independently adjustable setpoints meet all setpoint requirements***
- ***UL, CSA[7] listed***
- ***Fixed or adjustable deadband***
- ***Readily available***
- ***Standard pressure connection materials:***
  - ***Pressure psi ranges - 316L stainless steel***
  - ***Differential pressure ranges - Nickel plated brass[8]***
  - ***Pressure and differential inches of water ranges - Epoxy coated carbon steel***
- ***Setpoints adjustable from 15-100% of range***
- ***Dual Seal Rating models available***

1 - FUNCTION

PPA - Pressure control, single setpoint, adjustable deadband

PPD - Pressure control, two independently adjustable setpoints, fixed deadband

PPS - Pressure control, single setpoint, fixed deadband

PDA - Differential pressure control, single setpoint, adjustable deadband

PDD - Differential pressure control, two independently adjustable setpoints, fixed deadband

PDS - Differential pressure control, single setpoint, fixed deadband

2 - ENCLOSURE

N7 - NEMA 7/9, IP65, watertight, corrosion resistant and explosion proof Div. 1 & 2

3 - SWITCH ELEMENTS FOR PPA & PDA CONTROLS

Code	Description/Maximum Electrical Ratings UL/CSA Listed	
H	General purpose	10A,125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR PPD, PPS, PDD & PDS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (PS)	Dual (PD)		
K[4]	KK	Narrow deadband	15A, 125/250 Vac
F[4]	FF	Sealed environment proof	15A, 125/250 Vac
G[5]	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P[3]	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

4 - ACTUATOR SEAL[1]

Code & Material	Process Temp.[2] Limits °F	Range			
		Vac. in.H_2O	0-600 psi	1000 psi	2000-3000 psi
B-Buna N	0 to 150	●	●	●	●
V-Viton	20 to 300	●	●	●	
T-Teflon	0 to 150	●	●	●	●
S-SS[6][9]	0 to 300		●	●	
P-Monel[6]	0 to 300		●	●	

5 - PRESSURE PORT[1]

Order Code	
25	¼ NPT Female
06	¼ NPT Female and ½ NPT Male Combination
07	½ NPT Female

6 - OPTIONS

See pages 256-257

7 - STANDARD PRESSURE RANGES

See page 254

NOTES:

1. These items are wetted by process fluid.
2. Ambient operating temperature limits –20 to 150°F, all styles. Setpoint shift of ±1% of range per 50°F temperature change is normal. Switches calibrated at 70°F reference.
3. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
4. Estimated dc rating, .4A, 120 Vdc (not UL listed).
5. Not UL listed at 480 Vac.
6. Available on pressure only.
7. Refer to Option Table.
8. Order Option XUD, stainless steel process connection.
9. On differential switches, stainless steel is available in 15, 30, 60 and 90 psid ranges only. Includes Teflon O-ring and 316 SS connection.

HERMETICALLY SEALED SWITCH

We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction

TO ORDER THIS P-SERIES PRESSURE SWITCH:

Select:	PPD	N7	GG	B	25	XK3	30#
1. Function:							
2. Enclosure:							
3. Switch Element:							
4. Actuator Seal:							
5. Pressure Port:							
6. Options (see pages 256-257):							
7. Pressure Range (see page 254):							

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Temperature Switches, Watertight and Explosion-Proof Enclosure, P-Series

This top-of-the-line Ashcroft® process switch series includes many state-of-the-art features for safety and reliability in virtually all process applications.

- ***Explosion-proof NEMA 7/9, IP55 enclosures***
- ***Single or dual independently adjustable setpoints meet all setpoint requirements***
- ***UL listings standard***
- ***CSA listings available(6)***
- ***Dual-chamber design for improved safety. Choice of switch elements for all applications, including hermetically sealed***
- ***Fixed or fully adjustable deadband***
- ***Setpoints adjustable from 15-100% of range***

HERMETICALLY SEALED SWITCH
We recommend hermetically sealed switch elements for improved reliability. The hermetically sealed switch provides uncompromising contact protection in harsh or corrosive environments.

Features:
- UL-recognized component, guide WSQ2, File E85076
- All-stainless steel welded construction
- Available on 400 and 700 models

1 - FUNCTION

PTA - Temperature control, single setpoint, adjustable deadband

PTD - Temperature control, two independently adjustable setpoints, fixed deadband

PTS - Temperature control, single setpoint, fixed deadband

2 - ENCLOSURE

N7 - NEMA 7/9, IP65 (explosion proof Div. 1 & 2)

3 - SWITCH ELEMENTS FOR PTA CONTROLS

Order Code	Description/Maximum Electrical Ratings UL/CSA Listed	
H	General purpose	10A,125/250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
J	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

SWITCH ELEMENTS FOR PTD & PTS CONTROLS

Code		Switch Elements UL/CSA Listed	
Single (PS)	Dual (PD)		
K(2)	KK	Narrow deadband	15A, 125/250 Vac
F(2)	FF	Sealed environment proof	15A, 125/250 Vac
G(3)	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P(1)	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A,125/250 Vac 5A, 30 Vdc

4 - LINE LENGTH SELECTION(4)

Order Code	Line Length ft	Style
DIRECT MOUNT		
00	Not Applicable	Rigid
REMOTE MOUNT		
05	5	Capillary with Armor (Std.)
10	10	
15	15	
20	20	
25	25	

5 - THERMAL SYSTEM SELECTION

LINE MATERIAL	
DIRECT MOUNT	
Order Code	**Description**
No entry required for Direct Mount	
REMOTE MOUNT	
A7	Stainless Steel Armor (Std.)

6 - BULB LENGTH SELECTION(5)

Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
DIRECT MOUNT		
027	2¾″	—
040	4″	2½″
060	6″	4½″
090	9″	7½″
120	12″	10½″
REMOTE MOUNT		
030	3″	2½″

7 - OPTIONS

See pages 256-257

8 - STANDARD TEMPERTATURE RANGES

See page 254

NOTES:

1. Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
2. Estimated dc rating, 0.4A, 120 Vdc (not UL listed).
3. Not UL listed at 480 Vac.
4. Additional line lengths available, call factory.
5. Additional bulb lengths available, call factory.
6. Refer to Option Table. Switches calibrated at 70°F ambient reference.

TO ORDER THIS P-SERIES TEMPERATURE SWITCH:

Select:	PTA	N7	H	05	A7	030	XNH	150° to 260°F
1. Function:								
2. Enclosure:								
3. Switch Element:								
4. Line Length:								
5. Thermal System:								
6. Bulb Length:								
7. Options (see pages 256-257):								
8. Temperature Range (see page 254):								

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at www.ashcroft.com

ASHCROFT®

Nominal Ranges and Deadbands Pressure and Temperature Switches, B-Series

PRESSURE/VACUUM SWITCHES

Nominal Range [1]			Overpressure Ratings		Approximate Deadband[2] Switch Element (Buna-N Diaphragm)				
			Proof psi	Burst psi	20, 26, 27	21, 24, 31	50	22	32, 42
Vacuum									
–30 in.Hg	–760 mmHg	–100 kPa	250	400	0.3-0.7	1.5-4.0	0.5-2.2	0.4-1.5	2.1-4.2
Compound									
–15 in.H_2O/	–375 mmH_2O/	–3.7 kPa	20	35	0.15-0.75/	1.5-2.5/	.45-2.0/	0.5-1.2/	2.1-3.5/
15 in.H_2O	375 mmH_2O	3.7 kPa			0.15-0.75	1.5-2.5	0.45-2.0	0.5-1.2	.2.1-3.5
–30 in.H_2O/	–760 mmH_2O/	–7.5 kPa	20	35	0.30-0.60/	1.5-2.5/	0.45-2.0/	0.5-1.5/	2.1-3.5/
30 in.H_2O	760 mmH_2O	7.5 kPa			0.30-0.60	1.5-2.5	0.45-2.0	0.5-1.5	2.1-3.5
–30 in.Hg/	–760 mmHg/	–100 kPa	250	400	0.5-1.0/	2.0-3.5/	0.75-2.5/	0.7-1.8/	2.8-4.2/
15 psi	1.0 kg/cm^2	100 kPa			0.3-0.7	0.5-2.0	0.5-1.0	0.5-1.4	0.7-2.1
–30 in.Hg/	–760 mmHg/	–100 kPa	250	400	1.0-1.5/	3.0-6.0/	1.2-4.5/	1.4-2.4/	4.2-8.4/
30 psi	2.0 kg/cm^2	200 kPa			0.3-0.8	1.0-2.0	0.7-1.5	0.4-1.3	1.4-2.8
–30 in.Hg/	–760m mmHg/	–100 kPa	250	400	2.0-3.0	5.0-9.0	2.5-7.0	2.8-4.5/	7.0-12.0
60 psi	4.0 kg/cm^2	400 kPa			0.7-1.5	3.0-5.0	1.1-4.0	1.0-2.3	4.2-7.0
Pressure									
10 in.H_2O	250 mmH_2O	2.5 kPa	20	35	0.2-0.5	1.0-2.0	0.35-1.5	0.4-1.0	1.4-2.8
30 in.H_2O	750 mmH_2O	7.5 kPa	20	35	0.3-0.6	1.5-2.5	4.5-2.0	0.5-2.0	2.1-3.5
60 in.H_2O	1500m mmH_2O	15 kPa	20	35	0.5-1.3	1.5-3.5	0.9-2.5	0.7-3.0	2.1-5.0
100 in.H_2O	2500 mmH_2O	25 kPa	20	35	0.6-1.6	2.5-5.5	1.1-4.0	1.0-4.0	3.5-7.7
150 in.H_2O	3750 mmH_2O	37 kPa	20	35	1.0-2.5	4.5-8.5	1.7-6.5	2.0-6.0	6.0-12.0
15 psi	1.0 kg/cm^2	100 kPa	500	1500	0.1-.35	0.5-1.5	0.2-1.0	0.4-1.0	0.7-2.1
30 psi	2.5 kg/cm^2	200 kPa	500	1500	0.1-.50	0.5-1.5	0.3-1.0	0.4-1.0	0.7-2.1
60 psi	4.0 kg/cm^2	400 kPa	500	1500	0.3-1.0	1.0-3.5	0.7-2.5	0.6-2.0	1.4-5.0
100 psi	7.0 kg/cm^2	700 kPa	1000	3000	0.5-1.7	1.5-5.0	1.1-3.5	1.0-4.5	2.1-7.0
200 psi	14 kg/cm^2	1400 kPa	1000	3000	1-3	5-13	2-9	3.0-7.5	7.0-18.2
400 psi	28 kg/cm^2	2800 kPa	2400	3000	4-7.5	5-24	5.5-15	4.0-11.0	7.0-33.6
600 psi	42 kg/cm^2	4200 kPa	2400	3000	4-11	9-30	7-20	5.0-23.0	12.6-42
1000 psi [8]	70 kg/cm^2	7000 kPa	12000	18000	7-30	30-110	18-70	15.0-60	42-154
3000 psi	210 kg/cm^2	21000 kPa	12000	18000	15-60	80-235	37-160	30.0-130.0	112-329

DIFFERENTIAL PRESSURE SWITCHES

Nominal Range [1]			Overpressure Ratings		Approximate Deadband[2,4] Switch Element (Buna-N Diaphragm)				
			Static psi	Proof psi	20, 26, 27	21, 24, 31	50	22	32, 42
30 in.H_2Od	750 mmH_2O	7.5 kPa	5.4	21.6	0.3-0.6	1.5-2.5	0.45-2.0	0.5-2.0	2.1-3.5
60 in.H_2Od	1500 mmH_2O	15 kPa	5.4	21.6	0.5-1.3	1.5-3.5	0.9-2.5	0.7-3.0	2.1-5.0
100 in.H_2Od	2500 mmH_2O	25 kPa	5.4	21.6	0.6-1.6	2.5-5.5	1.1-4.0	1.0-4.0	3.5-7.7
150 in.H_2Od	3750 mmH_2O	37 kPa	5.4	21.6	1.0-2.5	4.5-8.5	1.8-6.5	2.0-6.0	6.3-12.0
15 psid	1 kg/cm^2	100 kPa	500	2000	0.5-1.0	2.0-5.0	0.7-3.5	0.7-1.4	2.8-7.0
30 psid	2.5 kg/cm^2	200 kPa	500	2000	1.0-2.0	2.0-5.0	1.5-3.5	1.4-2.8	2.8-7.0
60 psid	4 kg/cm^2	400 kPa	500	2000	2.0-4.0	3.0-6.0	3.0-4.5	2.8-5.6	4.2-8.5
100 psid	7 kg/cm^2	700 kPa	1000	4000	4.0-10.0	11.0-20.0	7.0-15.0	6.0-14.0	16.0-28.0
200 psid	14 kg/cm^2	1400 kPa	1000	4000	5.0-15.0	12.0-40.0	10.0-86.0	7.0-21.0	17.0-56.0
400 psid	28 kg/cm^2	2800 kPa	1000	8000	10.0-20.0	20.0-60.0	15.0-40.0	14.0-28.0	28.0-84.0
600 psid	42 kg/cm^2	4200 kPa	1000	8000	20.0-40.0	80.0-150.0	30.0-115.0	30.0-56.0	112.0-210.0

TEMPERATURE RANGE SELECTION

Adjustable Range		Max. Temp. °F	Approximate Deadband[6] Switch Element				
°F	°C		20, 26, 27	21, 24, 31	50	22	32, 42
–40 to 60	–40 to16	400	1.0-2.0	3.0-8.0	1.5-5.5	1.4-6.0	8.0-16.0
0 to 100	–20 to 40	400	1.5-3.0	5.0-12.0	2.2-8.5	1.5-7.5	9.0-20.0
75 to 205	20 to 95	400	1.5-3.5	8.0-16.0	2.5-12.0	2.0-9.0	10.0-24.0
150 to 260	65 to125	400	1.5-3.0	5.0-12.0	2.2-8.5	2.0-9.0	10.0-24.0
235 to 375	110 to 190	500	1.5-3.5	5.0-12.0	2.2-8.5	2.0-9.0	10.0-24.0
350 to 525[7]	175 to 275	700	2.0-4.5	8.0-16.0	3.2-12.0	2.5-10.0	15.0-34.0
500 to 750[3]	260 to 400	900	4.0-8.0	16.0-30.0	7.0-24.0	5.0-23.0	30.0-50.0

NOTES:

1. Switches may generally be set between 15% and 100% of nominal range on increasing pressure. Consult factory for applications where setpoints must be lower.
2. All deadbands are given in English units as shown in the nominal range column. Deadbands shown are for switches with Buna N diaphragm.

   Approximate deadbands for optional diaphragms:
   Viton: Multiply Buna N value by 1.4
   Teflon: Multiply Buna N value by 1.2
   Stainless Steel: Multiply Buna N value by 1.7
   Monel: Multiply Buna N value by 1.7
3. Available with remote mount thermal system only.
4. Deadbands given are for zero static working pressure.
5. For approximate deadbands for dual switch elements, multiply the single switch element by 1.6.
6. All deadbands given in °F.
7. Not available with 2$^3/_4$″ stem.
8. Proof pressure is 4000 psi with stainless steel and monel welded diaphragms.

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ASHCROFT®

Nominal Ranges and Deadbands Pressure and Temperature Switches, P-Series

PRESSURE/VACUUM SWITCHES

Nominal Range [1]			Overpressure Ratings Proof psi	Overpressure Ratings Burst psi	Approximate Deadband[2] Switch Element (Buna-N Diaphragm) PPA[3] Switch Element J, H	PPS[4] G	PPS[4] J, H	PPS[4] K, F	PPS[4] P	PPD[4] GG	PPD[4] JJ, HH	PPD[4] KK,FF	PPD[4] PP
Vacuum													
–30 in.Hg	–760 mmHg	–100 kPa	250	400	7-26	3-5	3-6.5	1-2	1-2.5	3-5	3-6.5	1-2	1.0-3.5
Compound													
–30 in.Hg/ 15 psi	–760 mmHg/ 1.0 kg/cm²	–100 kPa 100 kPa	250	400	10-25 4-13	3-5 1-2	2.5-3.5 1-3	1-2 0.5-2	1-2.5 0.5-2	3-5 2-4	2.5-4.5 1-3	1-2 0.5-1	1.0-3.5/ 1.0-2.8
Pressure													
30 in.H_2O	750 mmH_2O	7.5 kPa	20	35	4.-27	1.5-3.5	2-5	0.5-1	0.5-2	1.5-3.5	2-5	0.5-1	1.0-2.8
60 in.H_2O	1500 mmH_2O	15 kPa	20	35	5-54	1.5-3.5	2.5-5	0.5-2.0	1-2	1.5-3.5	2.5-5.0	.0.5-2.0	1.0-2.8
100 in.H_2O	2500 mmH_2O	25 kPa	20	35	8.5-90	4-6	4-8.5	1-2	1-3	4-7	4-8.5	1-2	2.0-4.2
150 in.H_2O	3750 mmH_2O	37 kPa	20	35	18-135	5-11	10-18	1.5-3	2-6	8-14	10-18	1.5-3	3.0-8.4
15 psi	1 kg/cm²	100 kPa	500	1500	2.5-13	1-2	1-0.5	0.5-1	0.5-2	1-2	1-3.0	0.5-1	1.0-2.8
30 psi	2.5 kg/cm²	200 kPa	500	1500	3.5-26	1-2.5	2-4.5	0.5-1.5	0.5-1.5	1-2.5	2-4.5	0.5-1.5	1.0-3.0
60 psi	4 kg/cm²	400 kPa	500	1500	6.5-54	2-4	4-7	1-2	1-2.5	2-4	4-7	1-2	2.0-3.5
100 psi	7 kg/cm²	700 kPa	1000	3000	10-90	5-7	5-10	1-2.5	2-4	5-7	5-10	1-2.5	2.0-5.6
200 psi	14 kg/cm²	1400 kPa	1000	3000	20-180	10-15	10-18	1-4	5-15	10-20	15-25	3-6	4.0-12.0
400 psi	28 kg/cm²	2800 kPa	2400	3000	45-360	16-30	16-45	4-8	5.0-15	16-30	16-45	4-8	5.0-21.0
600 psi	42 kg/cm²	4200 kPa	2400	3000	75-540	16-50	20-75	5-8	6-25	16-50	20-75	5-15	8.0-35.0
1000 psi [9]	70 kg/cm²	7000 kPa	12000	14000	160-900	75-130	50-160	7-30	10-85	75-130	50-160	7-30	20.0-119.0
2000 psi	140 kg/cm²	14000 kPa	12000	14000	350-1800	150-200	150-350	20-50	25-110	150-200	150-350	20-50	35.0-154.0
3000 psi	210 kg/cm²	21000 kPa	12000	14000	400-2600	180-250	180-400	30-70	30-190	180-250	180-400	30-70	40.0-266.0

DIFFERENTIAL PRESSURE SWITCHES

Nominal Range [1]		Static Working Pressure psi	Overpressure Ratings Proof psi	Approximate Deadband[2,6] Switch Element (Buna-N Diaphragm) PDA[3] Switch Element J, H	PDS[4] G	PDS[4] J, H	PDS[4] K, F	PDS[4] P	PDD[4] GG	PDD[4] JJ, HH	PDD[4] KK,FF	PDD[4] PP
30 in.H_2Od	750 mmH_2O	5.4	21.6	5.5-27	3-5	4-6.5	0.5-1	.5-2	3-5	4-6.5	0.5-1	1.0-2.8
60 in.H_2Od	1500 mmH_2O	5.4	21.6	5.5-54	3-5	4.5-6.5	0.5-2	1-2	3-5	4.-6.5	0.5-2	1.0-2.8
100 in.H_2Od	2500 mmH_2O	5.4	21.6	8.5-90	4-6	4.0-8.5	1-2	1-3	4-7	4.-8.5	1-2	2.0-4.2
150 in.H_2Od	3750 mmH_2O	5.4	21.6	18-135	5-11	10-18	1.5-3	2-6	8-14	10-18	1.5-3.	3.0-8.4
15 psid	2 kg/cm²	500	2000	2.5-13	1-2	1-3	0.5-1	0.5-2	1-2	1-3	0.5-1	1.0-2.8
30 psid	2 kg/cm²	500	2000	3.5-27	1-2.5	2-4.5	0.5-1	1-2	1-2.5	2-4.5	0.5-1.5	1.0-2.8
60 psid	4 kg/cm²	500	2000	6.5-54	2-4	4-7	1-1.5	1-2.5	1-2.4	4-7	1-2	1.0-3.5
100 psid	7 kg/cm²	500	2000	10-90	5-7	5-10	1-2.5	2-4	5-7	5-10	1-2.5	2.0-5.6
200 psid	14 kg/cm²	1000	4000	20-180	10-1 5	10-18	1-4	5-8	10-20	10-18	3-6	3.0-11.2
400 psid	28 kg/cm²	1000	8000	45-360	16-30	16-45	4-8	5-15	16-30	16-45	4-8	40.-21.0

TEMPERATURE RANGE SELECTION

NominalRange °F	NominalRange °C	Max. Temp. °F	Approximate Deadband (Buna N Diaphragm)[2] PTA[3] Switch Element J, H	PTS[4] G	PTS[4] J, H	PTS[4] K, F	PTS[4] P	PTD[4] GG	PTD[4] JJ, HH	PTD[4] KK, FF	PTD[4] PP
–40 to 60	–40 to16	400	18-90	2-10	9-18	1-2	1-5	2-10	9-18	1-2	2.0-7.0
0 to 100	–20 to 40	400	30-90	2-15	10-30	1-3	1.5-7	2-15	10-30	1.5-3	3.0-10.0
75 to 205	20 to 95	400	34-120	2-17	10-34	1.5-3.5	1.5-8	2-17	10-34	1.5-3.5	3.0-12.0
150 to 260	65 to125	400	25-100	2.5-12	9-25	1-2.5	1-7	2.5-12	9-25	1-2.5	3.0-10.0
235 to 375	110 to 190	500	35-130	2-18	10-35	1-3.5	1.5-8	2-18	10-35	1-3.5	3.0-12.0
350 to 525[8]	175 to 275	700	40-165	3-25	15-40	2-4.5	2.5-11	3-25	15-40	2-4.5	4.0-15.5
500 to 750[5]	200 to 400	900	50-200	20-36	36-60	5-10	6-21	20-36	36-60	5-10	7.0-30.0

NOTES:

1. Switches may generally be set between 15% and 100% of nominal range on increasing pressure. Consult factory for applications where setpoints must be lower.
2. All deadbands are given in English units as shown in the nominal range column. Deadbands shown are for switches with Buna N diaphragm.

Approximate deadbands for optional diaphragms:
Viton: Multiply Buna N value by 1.4
Teflon: Multiply Buna N value by 1.2
Stainless Steel: Multiply Buna N value by 1.7
Monel: Multiply Buna N value by 1.7

3. Deadbands for PTA, PPA and PDA are adjustable between the values shown.
4. Deadbands for PPS, PPD, PDS, PDD, PTD, and PDS models are fixed within the range of values shown.
5. Available with remote mount thermal system only.
6. Deadbands given are for zero static working pressure.
7. All deadbands given in °F.
8. Not available with 2¾″ stem.
9. Proof pressure is 4000 psi with stainless steel and monel welded diaphragms.

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Nominal Ranges and Deadbands Pressure and Temperature Switches, L- and G-Series

PRESSURE/VACUUM SWITCHES

Nominal Range [1]		Overpressure Ratings: Proof psi	Overpressure Ratings: Minimum Burst psi	Approximate Deadband[2] Switch Element (Buna-N Diaphragm): LPA-GPA[3] J, H	LPS-GPS[4] G	LPS-GPS[4] J, H	LPS-GPS[4] K, F	LPS-GPS[4] P	LPD-GPD[4] GG	LPD-GPD[4] JJ, HH	LPD-GPD[4] KK,FF	LPD-GPD[4] PP
Vacuum												
–30 in.Hg	–760 mmHg	250	400	6-24	2.5-4	4-6	1-2	1-2.5	3-5.5	4-6.5	1-2	1-2.5
Compound												
–30 in.Hg/ 15 psi	–760 mmHg/ 1.0 kg/cm²	250	400	6-24 3-12	2.5-4 1-2.5	4-6 1-3.5	1-2 0.5-1.5	1-2.5 0.5-2	3-5.5 1.5-3.5	4-6.5 1.5-4	1-2 1-2	1-2.5 1-2
Pressure												
30 in.H_2O	750 mmH_2O	20	35	4.0-27	1.5-3.5	2.0-4.0	0.5-1.0	0.7-2.0	2.1-4.9	2.8-5.6	0.7-1.4	0.7-2.8
60 in.H_2O	1500 mmH_2O	20	35	5.0-54	1.5-4.	2.5-5.0	0.5-1.4	1.0-2.5	3-5.6	3.5-7.0	0.7-2.0	2-3.5
100 in.H_2O	2500 mmH_2O	20	35	8.5-90	2.0-5.5	4.0-8.5	1.0-2.0	1.4-3.0	4-7.7	5.6-11.7	1.4-2.8	2-4.2
150 in.H_2O	3750 mmH_2O	20	35	18-135	5.0-11	10-18	1.5-3.0	2.0-6.0	7.0-16	14-25.1	2.1-4.2	5-9.2
15 psi	1 kg/cm²	500	1500	2.5-13	1.0-1.5	1.0-2.5	0.5-1.0	0.75-1.5	1.4-2.1	1.4-3.5	.7-1.4	1-1.4
30 psi	2 kg/cm²	500	1500	3.0-27	1.0-2.8	1.0-3.2	.75-1.5	1-1.8	1.4-5	3-6	1-2.1	1.4-2.5
60 psi	4 kg/cm²	500	1500	5.0-54	2.0-4.0	2.0-4.5	1.0-2.0	1.0-2.5	3-7	4-8	1.4-2.8	1.4-3.5
100 psi	7 kg/cm²	1000	3000	10-90	3-6	5.0-10	1.0-2.5	1.4-3.2	7-12	7.0-14	1.4-3.5	3-7
200 psi	14 kg/cm²	1000	3000	18-180	7-14	10-18	1.0-4.0	5.0-8.0	10-23	14-25	1.4-5.6	7.0-11.2
400 psi	28 kg/cm²	2400	3000	45-360	16-30	16-45	4.0-8.0	5.0-15	22-42	22-63	5.6-11.2	7.0-21
600 psi	42 kg/cm²	2400	3000	75-540	16-50	20-75	5.0-15	6.0-25	22-70	28-105	7.0-21	8.0-35
1000 psi[10]	70 kg/cm²	12000	14000	160-900	75-130	50-160	7.0-30	10-85	70-180	70-223	10-42	14-119
2000 psi	140 kg/cm²	12000	14000	350-1800	150-200	150-350	20-50	25-110	209-279	209-488	28-70	35-154
3000 psi	210 kg/cm²	12000	14000	400-2600	180-250	180-400	30-70	30-190	251-349	251-558	42-98	42-226

DIFFERENTIAL PRESSURE SWITCHES

Nominal Range [1]		Overpressure Ratings: Static psi	Overpressure Ratings: Minimum Proof psi	Approximate Deadband[2,7] Switch Element (Buna-N Diaphragm): LDA-GDA[3] J, H	LDS-GDS[4] G	LDS-GDS[4] J, H	LDS-GDS[4] K, F	LDS-GDS[4] P	LDD-GDD[4] GG	LDD-GDD[4] JJ, HH	LDD-GDD[4] KK,FF	LDD-GDD[4] PP
Pressure												
30 in.H_2Od	750 mmH_2O	5.4	21.6	4.0-27	1.5-3.5	2.0-4.0	0.5-1.0	0.7-2.0	2.1-4.9	2.8-5.6	0.7-1.4	0.7-2.8
60 in.H_2Od	1500 mmH_2O	5.4	21.6	5.0-54	1.5-4.0	2.5-5.0	0.5-1.4	1.0-2.5	2.5-6	3.5-7.0	0.7-2.0	2-3.5
100 in.H_2Od	2500 mmH_2O	5.4	21.6	8.5-90	4.0-5.5	4.0-8.5	1.0-2.0	1.4-3.0	5.6-7.7	5.6-11.9	1.4-2.8	2-4.2
150 in.H_2Od	3750 mmH_2O	5.4	21.6	18-135	5.0-11	10-18	1.5-3.0	2.0-6.0	7.0-15.4	14-25.2	2.1-4.2	2.8-8.4
30 psid	2 kg/cm²	500	2000	3.0-27	1.0-2.5	1.0-3.0	1.0-1.5	1.0-1.8	2-5	3-6	1-2.1	1.4-2.4
60 psid	4 kg/cm²	500	2000	5-54	2-4	2-4.5	1-2	1-2.5	3-7	4-8	1.4-2.8	1.4-3.5
200 psid	14 kg/cm²	1000	4000	18-180	10-15	10-18	1.0-4.0	5.0-8.0	14-23	14-30	1.4-5.6	7.0-11.2
400 psid	28 kg/cm²	1000	8000	45-360	16-30	16-45	4.0-8.0	5.0-15	22.4-42	22.4-36	5.6-11.2	7.0-21.0

TEMPERATURE RANGE SELECTION

AdjustableRa nge °F	AdjustableRa nge °C	Max. Temp. °F	ApproximateD eadband[8] Switch Element: LTA-GTA[3] J, H	LTS-GTS[4] G	LTS-GTS[4] J, H	LTS-GTS[4] K, F	LTS-GTS[4] P	LTD-GTD[4] GG	LTD-GTD[4] JJ, HH	LTD-GTD[4] KK,FF	LTD-GTD[4] PP
–40 to 60	–40 to16	400	18-90	4.0-10	9.0-18	1.5-3	2-5	4-10	9.0-18	1.5-3	2-5
0 to 100	–20 to 40	400	30-90	5.0-15	10-30	1.5-5.5	3-7	5-15	10-30	1.5-4.5	3-7
75 to 205	20 to 95	400	34-120	6.0-18	10-34	3-5.5	3-8	6-18	10-34	3-5.5	3-8
150 to 260	65 to125	400	25-100	3-13	9.0-25	1.5-4	3-7	3-13	9.0-25	1.5-4	3-7
235 to 375	110 to 190	500	35-130	6-19	10-35	2-5.5	3-8	6-17	10-35	2-5.5	3-8
350 to 525[9]	175 to 275	700	40-165	5-27	15-40	3-7	3.5-11	5-27	15-40	3-7	3.5-11
500 to 750[6]	260 to 400	900	50-200	20-36	5-10	6-21	20-36	20-36	36-60	5-10	6-21

NOTES:

1. Switches may generally be set between 15% and 100% of nominal range on increasing pressure. Consult factory for applications where setpoints must be lower.
2. All deadbands are given in English units as shown in the nominal range column. Deadbands shown are for switches with Buna N diaphragm.
   Approximate deadbands for optional diaphragms:
   Viton: Multiply Buna N value by 1.4
   Teflon: Multiply Buna N value by 1.2
   Stainless Steel: Multiply Buna N value by 1.7
   Monel: Multiply Buna N value by 1.7
3. Deadbands for LTA, LPA and LDA are adjustable between the values shown for all diaphragm materials.
4. Deadbands for LPS, LPD, LDS, LDD, LTD, and LDS models are fixed within the range of values shown.
5. Switches can be set at increase or decrease throughout the nominal range.
6. Available with remote mount thermal system only.
7. Deadbands given are for zero static working pressure.
8. All deadbands given in °F.
9. Not available with 2¾″ stem.
10. Proof pressure is 4000 psi with stainless steel and monel welded diaphragms.

Consult factory for guidance in product selection
Phone (203) 378-8281 or visit our web site at
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ASHCROFT®

Pressure, Differential Pressure and Temperature Switch Options for A, B, L, P, G, F, N, H Series

PRESSURE SWITCH OPTIONS (ALL SERIES)

OPTION CODE	DESCRIPTION	SWITCH SERIES A	B	L	P	G	F	N	H	NOTES
XBP	Wall mounting bracket (˝H_2O)		●	STD	STD	STD				
XBX	69C bushing (SS)									Assembled to capillary. Remote Temperature only.
XCH	Chained cover		●	●	●	●		●	●	
XCN	ATEX approval on 700 Series		●							
XC8	CSA approval	STD	●	STD	●	STD	STD			Standard on NEMA 4 enclosures. F series and A series.
XD2	Dual seal rating		●		●					
XFM	FM approval – Single element – Dual element		● ●	● ●						N/A on temperature switches.
XFP	Fungus proofing	●	●	●	●	●	●	●	●	
XFS	Factory adjusted setpoint		●	●	●	●	●	●	●	Setpoint must be given as well as increase or decrease.
XG3	Belleville actuator		●							Setpoint limits reduced to 30% to 100% of range.
XG5	Gas/oil UL limit differential pressure control to 150˝ H_2O		●	●						Buna N & Viton diaphragm only. B400 & LDS single setpoint only. N/A w/code 22, 32, P or J switch elements.
XG6	Gas/oil UL limit pressure control to 600 psi		●	●						Buna N and Viton diaphragm only.
XG7	Special actuator with redundant seal design (SS primary diaphragm)		●							B700 switch only. UL listed.
XG8	Steam limit pressure control to 300 psi		●	●						Stainless steel or Viton diaphragm only.
XG9	Fire safe actuator		●	●	●	●				Stainless steel diaphragm only.
XHS	High static differential		●	●	●					Available with Buna N and Viton diaphragms only. 15 psid and 30 psid only.
XHX	40 psi static pressure/dp only 160 psi proof pressure/dp only 100 psi proof pressure/press only Inches of water ranges		●	●	●	●				
XJK	Left side conduit connection		●	●				●	●	Standard on 700 series. N/A with DPDT element on 400s.
XJL	¾˝ to ½˝ conduit reducing bushing		●	●	●	●		●	●	
XK3	Terminal block		●	●	●	●	●			Terminal blocks standard with dual switches on B700 series. N/A on B400 series.
XLE	6 foot leads on the micro switch		●	●	●	●	●		●	
XMD	Metric range on label		●	●	●	●			●	Specify units to be printed on labels.
XNH	Stainless steel tagging	●	●	●	●	●	●	●	●	Specify tag information.
XNN	Paper tag		●	●	●	●	●	●	●	Specify tag information.
XPJ	24 Vdc pilot light(s) – Single – Dual		● ●	● ●					●	N/A on B700 series.
XPK	Pilot light(s), top mounted		●	●					●	N/A on B700 series.
XPM	¾˝ sealed conduit connection with 16˝ lead wires		●	●	●	●	STD		●	
XRN	Range scale		●							Standard on L, G, P & F series.
XTA	316 SS pressure port(s) for in H_2O ranges		●	●	●	STD				

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PRESSURE SWITCH OPTIONS (ALL SERIES)

OPTION CODE	DESCRIPTION	SWITCH SERIES A	B	L	P	G	F	N	H	NOTES
XTM	2″ pipe mounting bracket		●	●	●	●		●		
XUD	316 stainless steel diff. press. conn.		●	●	●	STD				
XUX	IECEx approval (700 series)		●							
XO6	Pressure connection: ½ NPT male, ¼ NPT female combination		●	●	●	●	N/A	●		Standard with 1000, 2000 and 3000 psi ranges. Bottom connection only on D/P ″H_2O ranges.
XO7	Pressure connection: ½ NPT female		●	●	●	●	STD			
X2C	DPDT with single setpoint adjustment			●		●				Available with LPS, LDS, LTS, GPS, GTS and GDS models.
X3AY5	1.5″ Sanitary seal approved by 3A council		●	●		●				
X3AY6	2″ Sanitary seal approved by 3A council		●	●		●				
X6B	Cleaned for oxygen service	●	●	●	●	●	●	●		N/A with Buna N diaphragm.
	Diaphragm seals	●	●	●	●	●	●	●		
XNC	Normally Closed operation – with ground wire (NO wire omitted)	●					●			
XNO	Normally Open operation – with ground wire (NC wire omitted)	●					●			
XGO	Ground wire omitted	●					●			