

*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**



## 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 <sup>(4)</sup>	Narrow deadband	15A, 125/250 Vac
21 <sup>(7)</sup>	Ammonia service	5A, 125/250 Vac
22 <sup>(3)</sup>	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A, 125/250 Vac
24 <sup>(1)</sup>	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 <sup>(4)</sup>	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
28	Manual reset trip on no deicing	15A, 125/250 Vac
29	Manual reset trip on deicing	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
<b>UL/CSA Listed Dual SPDT<sup>(2)</sup></b>		
61 <sup>(4)</sup>	Dual narrow deadband	15A, 125/250 Vac
62 <sup>(4)</sup>	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 <sup>(7)</sup>	Dual ammonia service	5A, 125/250/480

## 3 - THERMAL SYSTEM SELECTION<sup>(5)</sup>

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
T10	316 stainless steel	10'	with
T15	316 stainless steel	15'	302 SS
T20	316 stainless steel	20'	Spring
T25	316 stainless steel	25'	Armor

## 4 - BULB LENGTH SELECTION<sup>(6)</sup>

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

## 5 - OPTIONS

See pages 256-257

## 6 - STANDARD TEMPERATURE RANGES

See page 253

## TO ORDER THIS B-SERIES TEMPERATURE SWITCH:

- Select:** \_\_\_\_\_ **T4** **20** **T05** **030** **XNH** **150° to 260°F**
- Enclosure: \_\_\_\_\_
  - Switch Element: \_\_\_\_\_
  - Thermal System: \_\_\_\_\_
  - Bulb Length: \_\_\_\_\_
  - Options (see pages 256-257): \_\_\_\_\_
  - Temperature Range (see page 253): \_\_\_\_\_

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

## NOTES:

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



*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<sup>(7)</sup>
- ATEX models available<sup>(7)</sup>
- Setpoints adjustable from 15-100% of range
- IECEx models available<sup>(7)</sup>

**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	UL/CSA Listed SPDT
20 <sup>(4)</sup>	Narrow deadband	15A, 125/250 Vac
21	Ammonia service	5A, 125/250 Vac
22 <sup>(3)</sup>	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A, 125/250 Vac
24 <sup>(1)</sup>	General purpose	15A, 125/250/480 aB 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A, 125/ Vac or dc 1/8HP 125/ Vac or dc
26 <sup>(4)</sup>	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
<b>UL/CSA Listed Dual SPDT<sup>(2)</sup></b>		
61 <sup>(4)</sup>	Dual narrow deadband	15A, 125/250 Vac
62 <sup>(4)</sup>	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 <sup>(3)</sup>	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<sup>(6)</sup>**

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
T10	316 stainless steel	10'	with
T15	316 stainless steel	15'	302 SS
T20	316 stainless steel	20'	Spring
T25	316 stainless steel	25'	Armor

**4 - BULB LENGTH SELECTION<sup>(6)</sup>**

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

**5 - OPTIONS**

See pages 256-257

**6 - STANDARD TEMPERATURE 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: \_\_\_\_\_

2. Switch Element: \_\_\_\_\_

3. Thermal System: \_\_\_\_\_

4. Bulb Length: \_\_\_\_\_

5. Options (see pages 256-257): \_\_\_\_\_

6. Temperature Range (see page 253): \_\_\_\_\_

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



**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 <sup>(2)</sup>	KK	Narrow deadband	15A, 125/250 Vac
F <sup>(2)</sup>	FF	Sealed environment proof	15A, 125/250 Vac
G <sup>(3)</sup>	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P <sup>(1)</sup>	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<sup>(4)</sup>**

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

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

**7 - OPTIONS**

See pages 256-257

**8 - STANDARD TEMPERATURE 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: \_\_\_\_\_
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](http://www.ashcroft.com)

*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 <sup>(2)</sup>	KK	Narrow deadband	15A, 125/250 Vac
F <sup>(2)</sup>	FF	Sealed environment proof	15A, 125/250 Vac
G <sup>(3)</sup>	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P <sup>(1)</sup>	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<sup>(4)</sup>**

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

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 TEMPERATURE 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  
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## 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 (weather-proof, 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 setpoint changes to be made safely even with power connected.
- Single or dual independently adjustable setpoints meet all setpoint requirements

### 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	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 <sup>(4)</sup>	KK	Narrow deadband	15A, 125/250 Vac
F <sup>(4)</sup>	FF	Sealed environment proof	15A, 125/250 Vac
G <sup>(5)</sup>	GG	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P <sup>(3)</sup>	PP	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
J	JJ	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

- UL, CSA<sup>(7)</sup> listed
- Fixed or adjustable deadband
- Readily available
- Standard pressure connection materials:
  - Pressure psi ranges - 316L stainless steel
  - Differential pressure ranges - Nickel plated brass<sup>(8)</sup>
  - Pressure and differential inches of water ranges - Epoxy coated carbon steel
- Setpoints adjustable from 15-100% of range
- Dual Seal Rating models available

### 4 - ACTUATOR SEAL<sup>(1)</sup>

Code & Material	Process Temp. <sup>(2)</sup> °F	Range			
		Vac. in.H <sub>2</sub> O	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 <sup>(6)(9)</sup>	0 to 300		●	●	
P-Monel <sup>(6)</sup>	0 to 300		●	●	

### 5 - PRESSURE PORT<sup>(1)</sup>

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  
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[www.ashcroft.com](http://www.ashcroft.com)

*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<sup>(6)</sup>**
- **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



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**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	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 <sup>(2)</sup>	KK	Narrow deadband 15A, 125/250 Vac
F <sup>(2)</sup>	FF	Sealed environment proof 15A, 125/250 Vac
G <sup>(3)</sup>	GG	General purpose 15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
P <sup>(1)</sup>	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<sup>(4)</sup>**

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

DIRECT MOUNT		
Order Code	"S" Dimension	Minimum Thermowell "U" Dimension
027	2 3/4"	—
040	4"	2 1/2"
060	6"	4 1/2"
090	9"	7 1/2"
120	12"	10 1/2"
REMOTE MOUNT		
030	3"	2 1/2"

**7 - OPTIONS**

See pages 256-257

**8 - STANDARD TEMPERATURE 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): \_\_\_\_\_

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**PRESSURE/VACUUM SWITCHES**

Nominal Range <sup>(1)</sup>			Overpressure Ratings		Approximate Deadband <sup>(2)</sup> Switch Element (Buna-N Diaphragm)				
			Proof psi	Burst psi	20, 26, 27	21, 24, 31	50	22	32, 42
<b>Vacuum</b>									
-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
<b>Compound</b>									
-15 in.H <sub>2</sub> O/ 15 in.H <sub>2</sub> O	-375 mmH <sub>2</sub> O/ 375 mmH <sub>2</sub> O	-3.7 kPa 3.7 kPa	20	35	0.15-0.75/ 0.15-0.75	1.5-2.5/ 1.5-2.5	.45-2.0/ 0.45-2.0	0.5-1.2/ 0.5-1.2	2.1-3.5/ 2.1-3.5
-30 in.H <sub>2</sub> O/ 30 in.H <sub>2</sub> O	-760 mmH <sub>2</sub> O/ 760 mmH <sub>2</sub> O	-7.5 kPa 7.5 kPa	20	35	0.30-0.60/ 0.30-0.60	1.5-2.5/ 1.5-2.5	0.45-2.0/ 0.45-2.0	0.5-1.5/ 0.5-1.5	2.1-3.5/ 2.1-3.5
-30 in.Hg/ 15 psi	-760 mmHg/ 1.0 kg/cm <sup>2</sup>	-100 kPa 100 kPa	250	400	0.5-1.0/ 0.3-0.7	2.0-3.5/ 0.5-2.0	0.75-2.5/ 0.5-1.0	0.7-1.8/ 0.5-1.4	2.8-4.2/ 0.7-2.1
-30 in.Hg/ 30 psi	-760 mmHg/ 2.0 kg/cm <sup>2</sup>	-100 kPa 200 kPa	250	400	1.0-1.5/ 0.3-0.8	3.0-6.0/ 1.0-2.0	1.2-4.5/ 0.7-1.5	1.4-2.4/ 0.4-1.3	4.2-8.4/ 1.4-2.8
-30 in.Hg/ 60 psi	-760 mmHg/ 4.0 kg/cm <sup>2</sup>	-100 kPa 400 kPa	250	400	2.0-3.0/ 0.7-1.5	5.0-9.0/ 3.0-5.0	2.5-7.0/ 1.1-4.0	2.8-4.5/ 1.0-2.3	7.0-12.0/ 4.2-7.0
<b>Pressure</b>									
10 in.H <sub>2</sub> O	250 mmH <sub>2</sub> O	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 <sub>2</sub> O	750 mmH <sub>2</sub> O	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 <sub>2</sub> O	1500 mmH <sub>2</sub> O	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 <sub>2</sub> O	2500 mmH <sub>2</sub> O	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 <sub>2</sub> O	3750 mmH <sub>2</sub> O	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 <sup>2</sup>	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 <sup>2</sup>	200 kPa	500	1500	0.1-1.50	0.5-1.5	0.3-1.0	0.4-1.0	0.7-2.1
60 psi	4.0 kg/cm <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	1400 kPa	1000	3000	1-3	5-13	2-9	3.0-7.5	7.0-18.2
400 psi	28 kg/cm <sup>2</sup>	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 <sup>2</sup>	4200 kPa	2400	3000	4-11	9-30	7-20	5.0-23.0	12.6-42
1000 psi <sup>(8)</sup>	70 kg/cm <sup>2</sup>	7000 kPa	12000	18000	7-30	30-110	18-70	15.0-60	42-154
3000 psi	210 kg/cm <sup>2</sup>	21000 kPa	12000	18000	15-60	80-235	37-160	30.0-130.0	112-329

**DIFFERENTIAL PRESSURE SWITCHES**

Nominal Range <sup>(1)</sup>			Overpressure Ratings		Approximate Deadband <sup>(2,4)</sup> Switch Element (Buna-N Diaphragm)				
			Static psi	Proof psi	20, 26, 27	21, 24, 31	50	22	32, 42
30 in.H <sub>2</sub> O <sub>d</sub>	750 mmH <sub>2</sub> O	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 <sub>2</sub> O <sub>d</sub>	1500 mmH <sub>2</sub> O	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 <sub>2</sub> O <sub>d</sub>	2500 mmH <sub>2</sub> O	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 <sub>2</sub> O <sub>d</sub>	3750 mmH <sub>2</sub> O	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>(6)</sup> Switch Element				
°F	°C		20, 26, 27	21, 24, 31	50	22	32, 42
-40 to 60	-40 to 16	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 to 125	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 <sup>(7)</sup>	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 <sup>(3)</sup>	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:**

- Switches may generally be set between 15% and 100% of nominal range on increasing pressure. Consult factory for applications where setpoints must be lower.
- 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
- Available with remote mount thermal system only.

- Deadbands given are for zero static working pressure.
- For approximate deadbands for dual switch elements, multiply the single switch element by 1.6.
- All deadbands given in °F.
- Not available with 2<sup>3</sup>/<sub>4</sub>" stem.
- Proof pressure is 4000 psi with stainless steel and monel welded diaphragms.





**PRESSURE/VACUUM SWITCHES**

Nominal Range <sup>(1)</sup>		Overpressure Ratings		Approximate Deadband <sup>(2)</sup> Switch Element (Buna-N Diaphragm)								
				LPA-GPA <sup>(3)</sup>	LPS-GPS <sup>(4)</sup>				LPD-GPD <sup>(4)</sup>			
				Switch Element								
		Proof psi	Minimum Burst psi	J, H	G	J, H	K, F	P	GG	JJ, HH	KK, FF	PP
<b>Vacuum</b>												
-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
<b>Compound</b>												
-30 in.Hg/ 15 psi	-760 mmHg/ 1.0 kg/cm <sup>2</sup>	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
<b>Pressure</b>												
30 in.H <sub>2</sub> O	750 mmH <sub>2</sub> O	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 <sub>2</sub> O	1500 mmH <sub>2</sub> O	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 <sub>2</sub> O	2500 mmH <sub>2</sub> O	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 <sub>2</sub> O	3750 mmH <sub>2</sub> O	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/cm <sup>2</sup>	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	0.7-1.4	1-1.4
30 psi	2 kg/cm <sup>2</sup>	500	1500	3.0-27	1.0-2.8	1.0-3.2	0.5-1.0	1-1.8	1.4-5	3-6	1-2.1	1.4-2.5
60 psi	4 kg/cm <sup>2</sup>	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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 <sup>(10)</sup>	70 kg/cm <sup>2</sup>	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/cm <sup>2</sup>	12000	14000	350-1800	150-200	150-350	20-50	25-110	209-279	209-488	28-70	35-154
3000 psi	210 kg/cm <sup>2</sup>	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 <sup>(1)</sup>		Overpressure Ratings		Approximate Deadband <sup>(2,7)</sup> Switch Element (Buna-N Diaphragm)								
				LDA-GDA <sup>(3)</sup>	LDS-GDS <sup>(4)</sup>				LDD-GDD <sup>(4)</sup>			
				Switch Element								
		Static psi	Minimum Proof psi	J, H	G	J, H	K, F	P	GG	JJ, HH	KK, FF	PP
<b>Pressure</b>												
30 in.H <sub>2</sub> O	750 mmH <sub>2</sub> O	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 <sub>2</sub> O	1500 mmH <sub>2</sub> O	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 <sub>2</sub> O	2500 mmH <sub>2</sub> O	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 <sub>2</sub> O	3750 mmH <sub>2</sub> O	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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/cm <sup>2</sup>	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**

Adjustable Range		Max. Temp. °F	Approximate Deadband <sup>(9)</sup> Switch Element								
			LTA-GTA <sup>(3)</sup>	LTS-GTS <sup>(4)</sup>				LTD-GTD <sup>(4)</sup>			
			Switch Element								
°F	°C		J, H	G	J, H	K, F	P	GG	JJ, HH	KK, FF	PP
-40 to 60	-40 to 16	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 to 125	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 <sup>(9)</sup>	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 <sup>(6)</sup>	260 to 400	900	50-200	20-36	5-10	6-21	20-36	20-36	36-60	5-10	6-21

**NOTES:**

- Switches may generally be set between 15% and 100% of nominal range on increasing pressure. Consult factory for applications where setpoints must be lower.
- 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
- Deadbands for LTA, LPA and LDA are adjustable between the values shown for all diaphragm materials.
  - Deadbands for LPS, LPD, LDS, LDD, LTD, and LDS models are fixed within the range of values shown.

- Switches can be set at increase or decrease throughout the nominal range.
- Available with remote mount thermal system only.
- Deadbands given are for zero static working pressure.
- All deadbands given in °F.
- Not available with 2 3/4" stem.
- Proof pressure is 4000 psi with stainless steel and monel welded diaphragms.

PRESSURE SWITCH OPTIONS (ALL SERIES)		SWITCH SERIES								NOTES
OPTION CODE	DESCRIPTION	A	B	L	P	G	F	N	H	
XBP	Wall mounting bracket (H <sub>2</sub> O)		●	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 <sub>2</sub> O		●	●						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 <del>400</del> s
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 <sub>2</sub> O ranges		●	●	●	STD				

PRESSURE SWITCH OPTIONS (ALL SERIES)										
OPTION CODE	DESCRIPTION	SWITCH SERIES								NOTES
		A	B	L	P	G	F	N	H	
XTM	2" pipe mounting bracket		●	●	●	●		●		
XUD	316 stainless steel diff. press. conn.		●	●	●	STD				
XUX	IECEX approval (700 series)		●							
X06	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 <sub>2</sub> O ranges.
X07	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	●						●		