

**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.