Technical Data

Original Instructions

Condition Sensing Specifications

Bulletins 808,836,836T,837,840

Торіс	Page
Summary of Changes	2
836 Pressure Controls	3
836T Pressure Controls, Traditional Machine Tool	23
837 Mechanical Temperature Controls	49
840 Automatic Float Switches	67
808 Speed Sensing Switches	81



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Product Selection

Style A Internal Bellows⁽¹⁾— Copper Alloy⁽²⁾ Bellows With 7/16 in. — 20 SAE Flare for 1/4 in. Copper Tubing Connection

Figure 9 - Style A Internal Bellows — Copper Alloy, Type 1



Figure 10 - Style A Internal Bellows — Copper Alloy, Type 4 & 13



Pressure Specifications				Enclosure Type				
Adjustable Operating Range [in. Hg Vacuumpsi] ⁽¹⁾	Adjustable Differential [psi] (Approximate Mid-Range Values) ⁽²⁾	Maximum psi		Open Type (Without Enclosure)	Туре 1	Туре 4 & 13	Type 7 & 9 and 4 & 13 ⁽⁴⁾	
		Line Pressure	Occasional Surge Pressure ⁽³⁾	Cat. No.	Cat. No.	Cat. No.	Cat. No.	
30 in. Vacuum 75	220	160	160	836-A1	836-A1A	836-A1J	836-A1E	
6140	335	280	340	836-A2	836-A2A	836-A2J	836-A2E	
12250	665	500	600	836-A3	836-A3A	836-A3J	836-A3E	
16375	895	750	850	836-A4	836-A4A	836-A4J	836-A4E	

(1) For applications where settings approach 0 psi, select a control that has an adjustable range that goes into vacuum.

(2) To determine differential in inches of mercury vacuum multiply value in table by 2.036 (or approximately 2).

(3) Transients (pulses) can occur in a system prior to reaching a steady-state condition. Surge pressures within published values that are generated during startup or shutdown of a machine or system, not exceeding eight times in a 24-hour period, are negligible.

(4) The combined Type 7 & 9 and 4 & 13 Hazardous Gas and Dust service enclosure is supplied with a special gasket and 0-ring seal to diminish/exclude moisture, fluids, and dust from entering the enclosure. Enclosures rated 7 & 9 only are not designed to restrict moisture from entering the enclosure, which is common to outdoor service. Enclosure is rated for the following environments: CLASS I: Groups C and D, CLASS II: Groups E,F, and G, and CLASS III.

Standard pressure controls shipped from the factory are set at the maximum operating range and minimum differential. For more information on standard pressure control settings and customer-specified pressure control settings, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

⁽²⁾ Copper alloy bellows can be used on water or air, and other liquids or gases not corrosive to this alloy.