

Type 10 Motorized Pressure Regulators

Bellofram's high precision Type 10 pressure regulator – a servo balanced system in which the main valve is operated by a pilot valve – is also available in a motorized configuration. This combination is particularly attractive because it offers low power requirements (2 rpm/4 watts; 6 rpm/6 watts) with extremely high accuracy.



Regulator-Motor Specifications

Pressure Range		Approximate Time to Cover Full Range (seconds)	
BAR	psig	2 rpm	6 rpm
0.1-1.7	2-25	75	25
0.1-4.1	2-60	90	30
0.1-8.3	2-120	150	50

*±10% manufacturing tolerance

Applications

The motorized Type 10 pressure regulator can be used for any application where electric control of a pneumatic system is desired. It is often used for remote pressure control and for ventilation systems. It can also be easily integrated into open or closed loop process control systems and may be used with programmable controllers.

Features

- Mountable at any angle
- In the event of power failure, the pneumatic output remains constant at last setting
- Low electrical power requirements
- Adjustable mechanical stop limits maximum output pressure
- No electrical power is required when operating at constant output pressure
- No pre-regulation of supply pressure required
- Built-in overload slip clutch prevents damage to gear train at end of travel, eliminating the need for limit switches in most applications.

Construction

The regulator and motor are mounted to a bracket and connected to each other through a flexible coupling. The assembly can be mounted through holes in the bracket.

Motor Specifications

Reversible, synchronous motor with gear drive and slip clutch.

Operating Voltage 110VAC, 24VAC or 220VAC.

Frequency

60 Hz, Except 220 VAC model is 50 Hz.

Power Consumption (maximum)

2 rpm/4 watts, 6 rpm/6 watts.

Speeds Available

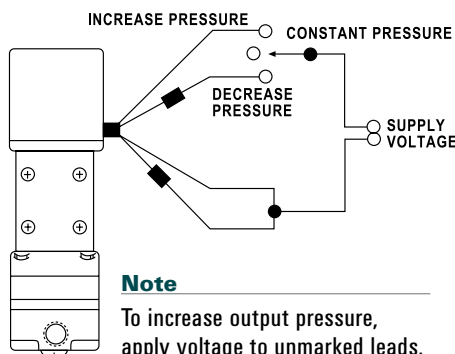
2 and 6 rpm.

Motorized Type 10 Ordering Information

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▲	▲	▲	Motor Specifications		
1			2 RPM	110 VAC	4 WATTS 60 Hz
2			6 RPM	110 VAC	6 WATTS 60 Hz
3			6 RPM	220 VAC	6 WATTS 50 Hz
4			2 RPM	24 VAC	4 WATTS 60 Hz
5			6 RPM	24 VAC	6 WATTS 60 Hz
			Pressure Range		
	1		2-25 psig / 0.1-1.7 BAR		
	2		2-60 psig / 0.1-4.1 BAR		
	3		2-120 psig / 0.1-8.3 BAR		
	4		L. R. Model, 0.5-25 psig / 0.03-1.7 BAR		
	5		H.R. Model, 2-120 PSI / 0.1-8.3 BAR		
			Port Size		
		1	1/8 NPT		
		2	1/4 NPT		
		3	3/8 NPT		

Typical Installation

Control Circuit Diagram



Note

To increase output pressure, apply voltage to unmarked leads. To decrease output pressure, apply voltage to marked leads.

