

Type 110

Pressure Regulator Series

Features

- Highly Accurate Pressure Regulation
- Large Port Sizes Available: 3/8, 1/2, 3/4 and 1 NPT (BSPP and BSPT also Available)
- Adjustment Stem Locking Capability
- High Forward Flow Capacity – 150+ SCFM
- High Exhaust Capacity
- Balanced Supply Valve
- Low Sensitivity to Supply Pressure Variations
- Low Sensitivity to Flow Variations

Applications

The Type 110 was developed specifically for use with Air Balancing Systems or Zero-Gravity Arms. Such systems require very small forward to reverse flow offsets for smooth operation. The precision regulators that can achieve the sensitivity requirements do not typically possess the forward or exhaust capacity to handle large balancing arms or cylinders. The Type 110 does not have this limitation. It is ideal for use in any application where precise regulation of pressure is required along with high flow or high exhaust capacity.

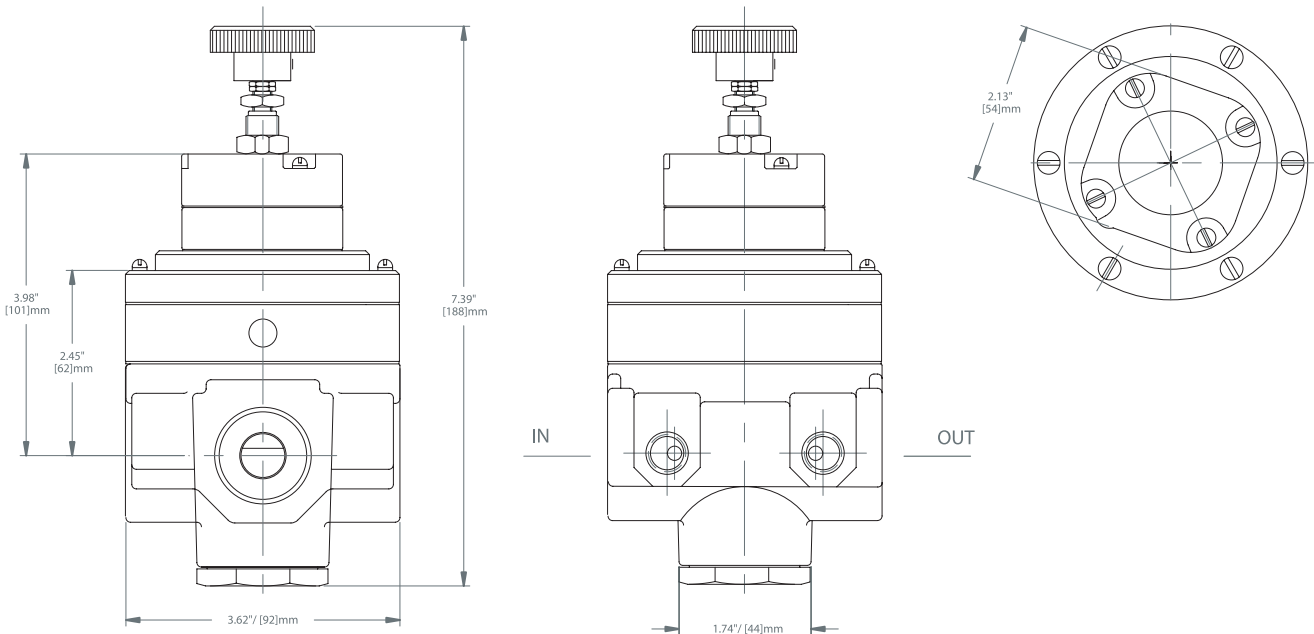
Other typical applications

- Valve Operators
- Air Hoists
- Web Tensioning
- Roll Loading
- Large Cylinder Loading
- Air Brakes
- Force Balance Hoists
- Gate Actuators

Description

The Type 110 combines the proven technology of the Marsh Bellofram Type 10 regulator with the large pneumatic booster of the Type 79 Relay. The result is a precise, crisply responding regulator that can achieve very large forward and exhaust flows. Forward to reverse flow offset is minimized by the capsule operated, servo-control system located in the upper portion of the regulator. This servo-control system supplies a pilot pressure to the large integral pneumatic booster. The large supply and exhaust orifices of the integral booster enable this regulator to produce very high forward and exhaust flow rates. Few regulators can offer this combination of sensitivity and large flow capacity.

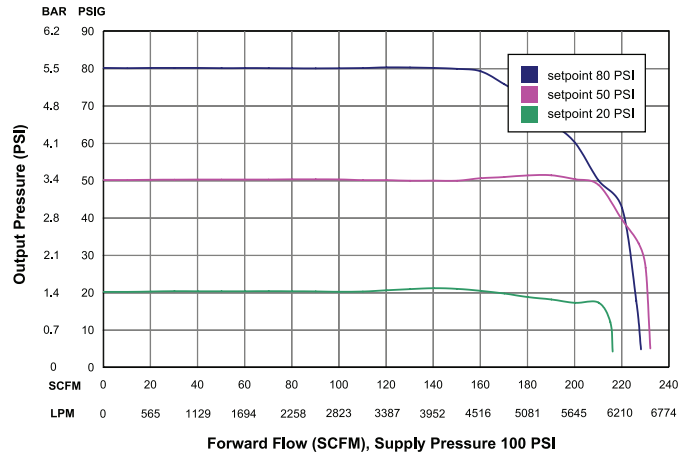
Dimensions



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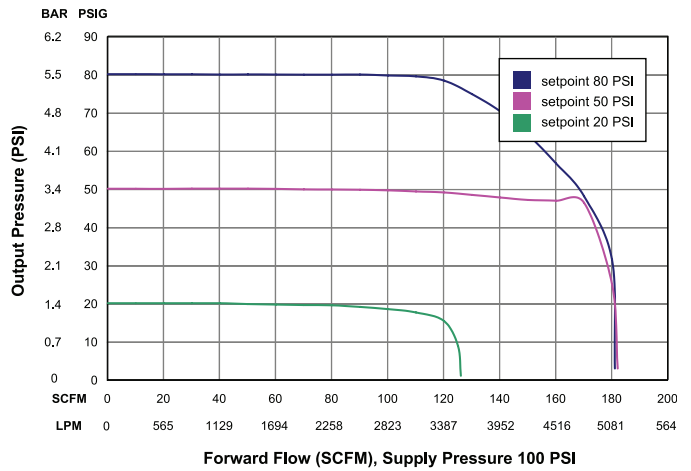
Type 110	
Maximum Supply Pressure	250 PSIG / 17.2 BAR
Output Pressure Ranges	2-25 PSIG / 0.14-1.7 BAR
	2-50 PSIG / 0.14-3.5 BAR
Port Sizes	3/8, 1/2, 3/4, 1 NPT, BSPT or BSPP
	0.01 psig / 0.6 mBAR change in output for a 25 psig/1.7 BAR change in supply pressure
Effect of Supply Pressure Variation on Outlet Pressure	1/4" / 6.4 mm of water column
Sensitivity	14 scfh / 6.6 slpm @ max output pressure
Air Consumption	3/8 NPT - 110 SCFM+ / 3105 SLPM
Forward Flow Capacity (100 psig/ 6.9 BAR supply, 20 psig / 1.4 BAR set point)	1/2 NPT - 110 SCFM+ / 3105 SLPM
	3/4 NPT - 200 SCFM+ / 5645 SLPM
	1 NPT - 200 SCFM+ / 5645 SLPM
Exhaust Capacity (based on raising output 5 psig / .34 BAR above 20 psig / 1.4 BAR set point)	30 scfm / 847 slpm
Temperature Range	-20° to +160°F -29° to +71°C
Weight	5.4 lbs / 2.45 Kg

Type 110: Forward Flow Curve, 3/4 and 1 NPT



Type 110: Forward Flow Curve, 3/8 and 1/2 NPT

@ 100 PSIG Supply Pressure



Type 110: Exhaust Curve

