



Insert



Cartridge



Manifold LRU



Line Mount



Ring Lock

AUSCO offers an array of Miniature Regulator solutions for performance critical applications, such as flight control actuators and engine lube oil systems

Designs of all stainless steel internal construction can be packaged into a range of mounting configurations: Insert, Cartridge, Manifold LRU, Line Mount, and Ring Lock

This data sheet features our miniature, light weight Pressure Compensating Flow Control Valve designs - providing a constant flow rate over a wide pressure band

Valves Applications Include:

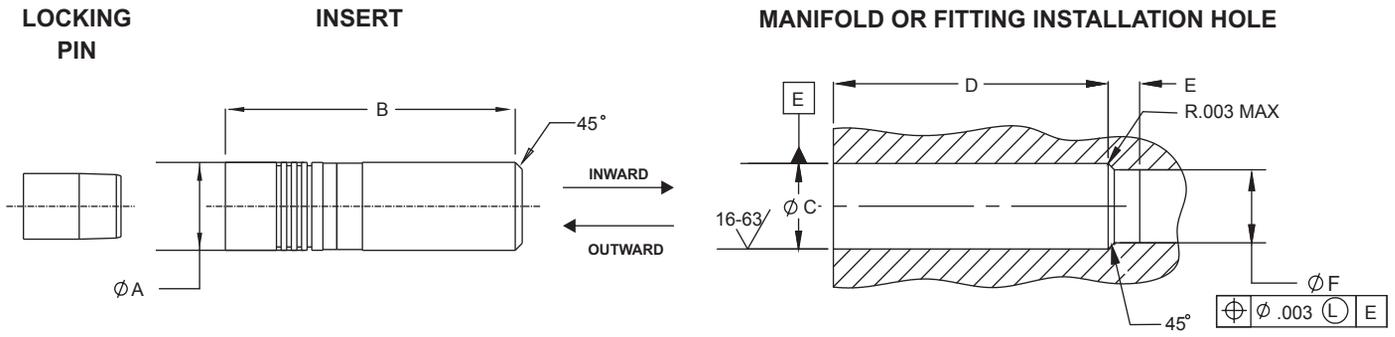
- Control of velocity of actuators under varying loads
- Pump speed control
- Synchronization of multiple cylinder under varying loads
- Hydrostatic bearing stiffness control

Other Related Products Available:

- High pressure PCFCVs (pressure compensating flow control valves)
- Combination Regulator / Relief Valves
- AUPRs (Absolute Upstream Pressure Regulators)

INSERT MINIATURE FLOW CONTROL REGULATORS

Below is detailed information pertaining to the Insert Pressure Compensating Flow Regulators. Please contact the AUSCO Technical Center for other configuration information, or advanced performance capabilities. Consider our advanced combination valve designs for space, weight, and cost savings.



DIMENSIONS (IN INCHES)						PERFORMANCE	
INSERT		INSTALLATION HOLE				Regulated Flow Range	Regulator Pressure Range
ϕA	B	ϕC	D (MIN.)	E (MIN.)	ϕF		
0.281	1.08 *	0.2812 / 0.2817	1.10	0.20	0.230 / 0.236	0.1 to 1.0 GPM	100 to 3,000 PSID **
0.500	2.00	0.5000 / 0.5010	2.02	0.14	0.300 / 0.440	1.5 to 5.0 GPM	100 to 3,000 PSID **

* 281 model includes an integral safety screen, yielding an overall length (B) of 1.25 in.

** Request drawing for design specifics.

NOTES:

- FLUID: ALL TYPES OF NEWTONIAN LIQUIDS
- PERFORMANCE: BASED ON MIL-PRF-83282 @ 80° F (27°C)
- PRESSURES:
 - OPERATING 3,000 PSIG
 - PROOF 4,500 PSIG
 - BURST 7,500 PSIG**High pressure designs available**
- TEMPERATURE: -54°C (-65°F) TO +135°C (+275°F)
- FILTRATION: 380 MICRON NOMINAL - FOR 281 DESIGN ONLY

PART NOMENCLATURE:

