AUSCO
PERFORMANCE UNDER PRESSURE

Miniature Check Valves

Insert

Cartridge

Manifold LRU

Line Mount

Ring Lock

AUSCO Miniature Check Valves offer the versatility of economical and advanced designs for high performance requirements and multiple configuration options

- Wide range of standard designs. Custom designs available to meet customer-specified requirements
- Designs for all liquid and gas applications, including high pressure hydraulic and pneumatic services
- Design sizes ranging from 0.093 in. to 2.0 in diameter; –3 to –24 fitting sizes
- High Performance – Designs with up to 40% greater flow efficiency over common designs available

Construction:

- Housings – Multiple configuration options. All stainless steel construction. Aluminum and Titanium housings/fittings available as standards to meet weight and performance requirements
- Valve Seats – Designed to meet performance extremes: Durable 440C hard seat designed for long life hydraulic service, Zero Leak designs for high pressure gas service; and Zero Leak, High Temperature designs for combustion service
- Screened Designs Available

Other Related Products Available:

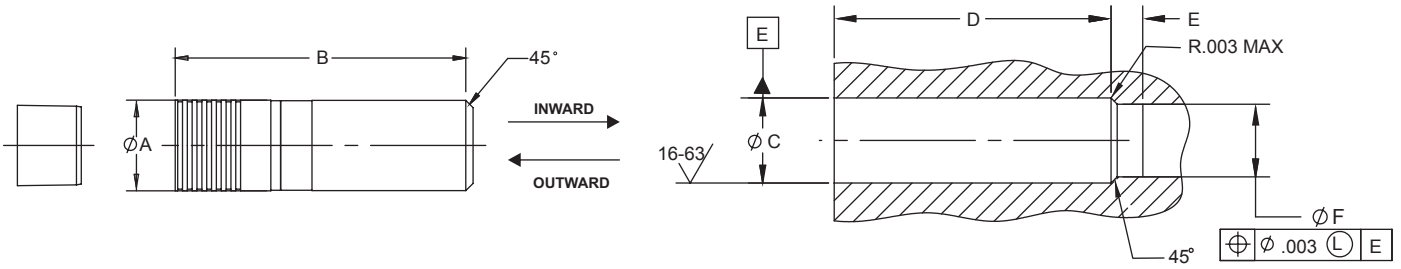
- Ultra High Flow Check Valves - Advanced poppet designs to achieve 40% greater flow efficiency
- Pilot-operated Check Valves
- Metering Check Valves
- Combination Valves – Combining integral check valve function with other functions in one envelope
- Multi-port Check Valve Logic Manifolds
- Line Mount Fittings - Full line of AS flared, flareless, and ring lock designs

425 Smith Street • Farmingdale, NY 11735 • Phone: (516) 944-9882 • Fax: (516) 944-8522 • Email: info@auscoinc.com
www.auscoinc.com

INSERT MINIATURE CHECK VALVES

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

LOCKING PIN **INSERT** **MANIFOLD OR FITTING INSTALLATION HOLE**



DIMENSIONS (IN INCHES - UNSCREENED)						PERFORMANCE (UNSCREENED)		
INSERT		INSTALLATION HOLE				CRACK PRESSURE (PSID)	PRESSURE DROP MAX (PSID)	FLOW (GPM)
ØA	B	ØC	D (MIN.)	E (MIN.)	ØF			
0.125	0.52	0.1250 / 0.1255	0.54	0.14	0.082 / 0.096	1±0.5 / 5±3	15	0.15
0.187	0.62	0.1875 / 0.1880	0.64	0.14	0.141 / 0.159	1±0.5 / 5±3	15	0.65
0.250	0.78	0.2500 / 0.2505	0.80	0.14	0.204 / 0.221	1±0.5 / 5±3	15	1.30
0.375	1.20	0.3750 / 0.3775	1.22	0.14	0.280 / 0.320	1±0.5 / 5±3	15	3.50
0.500	1.50	0.5000 / 0.5010	1.52	0.14	0.378 / 0.471	1±0.5 / 5±3	15	6.00

NOTES:

1. FLUID: ALL TYPES OF FLUIDS
2. PERFORMANCE: BASED ON MIL-PRF-6083 @ 80° F (27°C)
3. PRESSURES:
   - OPERATING: 3,000 PSIG (207 BAR) & 4,000 PSIG (276 BAR)
   - PROOF: 4,500 PSIG (310 BAR) & 6,000 PSIG (414 BAR)
   - BURST: 7,500 PSIG (517 BAR) & 10,000 PSIG (689 BAR)
4. TEMPERATURE: -65°F (-54°C) TO +275°F (+135°C)

High pressure and temperature designs available

PART NOMENCLATURE:

CKV I U 375 10 05

- 05 → NOMINAL CRACK PRESSURE IN PSID
- 10 → INTERNAL DESIGN SPECIFICATION
  - 10 - STANDARD DESIGN
  - 20 - LOW PRESSURE DROP
  - 30 - ZERO LEAK
  - 40 - SIDE EXIT
  - 50 - HIGH PRESSURE
- 375 → DIAMETER IN THOUSANDS OF INCHES
- U → SCREEN SPECIFICATION
  S - SCREENED / U - UNSCREENED
- I → FLOW SPECIFICATION
  I - INWARD / O - OUTWARD
- CKV → VALVE TYPE (BASIC DESIGN CODE)

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