

# INSTRUMENTATION VALVES

## CHECK VALVES

### C SERIES

- Resilient, custom molded, seat design
- Back stopped poppet to minimize spring stress
- Cracking pressures: 1/3, 1, 5, 10, 25, 50, 75 and 100 psi (.023, .069, .345, .69, 1.72, 3.45, 5.17, 6.9 bar)
- Port connections include male and female NPT, CPI™, A-LOK®, UltraSeal™, VacuSeal™, BSP, SAE and Seal-Lok®



### CO SERIES

- Suitable for applications requiring high integrity leak rates and re-sealing capabilities.
- Seal integrity to  $4 \times 10^{-9}$  std. atm-cc / sec
- Back stopped poppet to minimize spring stress
- Cracking pressures: 1/3, 1, 5, 10, 25, 50, 75 and 100 psi (.023, .069, .345, .69, 1.72, 3.45, 5.17, 6.9 bar)
- Available with highly fluorinated Fluorocarbon rubber
- Only check valve with published helium leak rate



### CB SERIES

- Reduces maintenance while improving performance requirements on dual fuel turbines
- Cracking pressures: 1, 5, 10, 25, 50, 75, 100 and 120 psi (.023, .069, .345, .69, 1.72, 3.45, 5.17, 6.9, 8.27 bar)
- Rugged ball design for demanding applications
- For high temperatures with highly viscous medias



### MPC SERIES

- Variety of elastomeric poppet seals
- 5 psi (.345 bar) cracking pressure
- MPI™, cone and thread and female NPT connections available
- For pressures up to 20,000 psi (1,379 bar)



### MPCB SERIES

- Metal to metal seat for use in applications that cannot accept Fluorocarbon rubber
- 5 psi (.345 bar) cracking pressure
- MPI™, cone and thread and female NPT connections available
- For pressures up to 20,000 psi (1379 bar)



### LC SERIES

- For extreme temperature applications
- The gravity assisted poppet uses reverse flow to achieve a seal to within 99.9% of forward flow



**Please Note:** Dimensions for reference only, subject to change.

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Valve groups		Check valves					
Model series		C	CO	CB	MPC	MPCB	LC
Maximum operating pressure		6,000 psi 414 psi	6,000 psi 414 bar	3,000 psi 207 bar	20,000 psi 1379 bar	20,000 psi 1379 bar	6,000 psi 414 bar
Temperature	Min	-65 F -54 C	-15 F -26 C	-65 F -54 C	-10 F -23 C	-100 F -73 C	-100 F -73 C
	Max	400 F 204 C	400 F 204 C	450 F 232 C	400 F 204 C	600 F 316 C	900 F 482 C
CV	Max	6.70	2.70	6.00			2.30
Cracking pressure	Max	100 psi 6.9 bar	100 psi 6.9 bar	120 psi 8.27 bar	5 psi .345 bar	5 psi .345 bar	
Body material	Brass	X					
	Stainless steel	X	X	X	X	X	X
Seat / Seal material	Parkfill / Parker carbon			X			
	Buna-N rubber	X	X		X		
	Ethylene Propylene rubber	X	X		X		
	Highly Fluorinated Fluorocarbon	X	X		X		
	Fluorocarbon rubber	X	X		X		
	Neoprene rubber	X					
	Metal					X	X
PTFE	X						
End connection size range	Min	1/8 in 3 mm	1/4 in 6 mm	3/8 in	1/4 in	1/4 in	1/8 in
	Max	1 in 25 mm	1/2 in 12 mm	3/4 in	1 in	1 in	1/2 in



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