

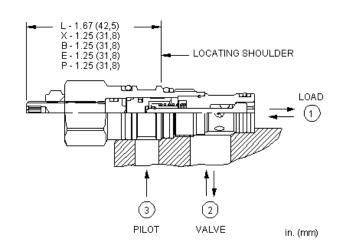
MODEL CKBB

# Pilot-to-open check valve with standard pilot CAPACITY: 30 L/min. | CAVITY: T-163A



## CONFIGURATION

X Control Standard Pilot
C Cracking Pressure 30 psi (2 bar)
N Seal Material Buna-N
(none) Material/Coating Standard Material/Coating



This valve is a pilot to open check valve. It has a non-sealed pilot, a steel seat, and is non-vented. It allows free flow from the valve (port 2) to the load (port 1) and blocks flow in the opposite direction. Pressure at the pilot (port 3) will open the valve from port 1 to port 2. Pilot pressure needed at port 3 to open the valve is directly proportional to the load pressure at port 1. Pressure at port 2 directly opposes pilot pressure.

## TECHNICAL DATA

Cavity	T-163A	
Series	0	
Capacity	30 L/min.	
Pilot Ratio	3:1	
Maximum Operating Pressure	350 bar	
Maximum Valve Leakage at 110 SUS (24 cSt)	0,07 cc/min.	
Valve Hex Size	19,1 mm	
Valve Installation Torque	27 - 34 Nm	
Seal kit - Cartridge	Buna: 990-163-007	
Seal kit - Cartridge	Polyurethane: 990-163-002	
Seal kit - Cartridge	Viton: 990-163-006	
Model Weight	0.09 kg.	

## SYMBOLS



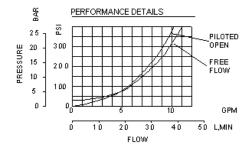


#### **TECHNICAL FEATURES**

- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- Standard unsealed pilot allows air trapped in the pilot line to be purged from the circuit.

- Extremely low leakage. The seat and poppet are heat treated for long life. If the load drifts due to the valve, the seat has probably been damaged by contamination and the valve should be replaced.
- Note: Available only with 30 psi or 75 psi (2 bar or 5 bar) check valve cracking pressures.
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- For models with manual load release control option, turn load release clockwise to release load.
- Incorporates the Sun floating style construction to minimize the possibility of internal parts binding due to excessive installation torque and/or cavity/cartridge machining variations.

## **PERFORMANCE CURVES**



#### **CONFIGURATION OPTIONS**

	CONTROL	
Preferred Options	X	Standard Pilot
Standard Options	L	Manual Load Release
	CRACKING PRESSURE	
Preferred Options	С	30 psi (2 bar)
Standard Options	E	75 psi (5 bar)
	SEAL MATERIAL	
Preferred Options	N	Buna-N
Standard Options	٧	Viton
	MATERIAL/COATING	
		Standard Material/Coating
Standard Options	/AP	Stainless Steel, Passivated
	/LH	Mild Steel, Zinc-Nickel
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