

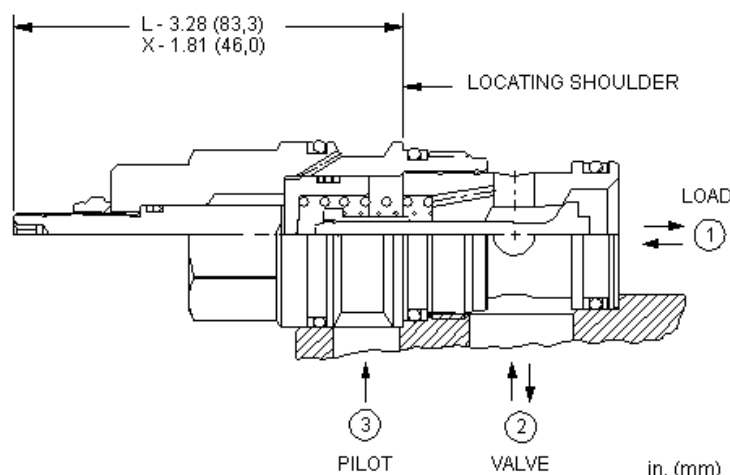
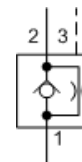
Pilot-to-open check valve with bypass orifice

Capacity:
60 gpm (240 L/min.)

Model:
CNGE

Product Description

This valve is a pilot to open check valve with a bypass orifice. It incorporates a sealed pilot, a steel seat, and is non-vented. It allows free flow from the valve (port 2) to the load (port 1) and restricts flow in the opposite direction. Pressure at the pilot (port 3) will open the valve from port 1 to port 2. The 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 the pilot pressure. Note: The bypass orifice diameter is specified by the customer. See Technical Data below for the allowable orifice range. An 'L' control option is available to manually release the load. See Option Selection below.

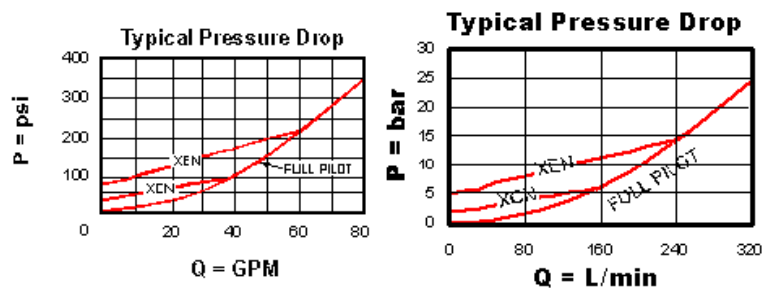


Technical Features

- This 3 port pilot-to-open check valve and 3 port counterbalance valves are physically interchangeable (i.e. same cavities, same flow path for a given frame size). However, cartridge extension dimensions from the mounting surface may vary.
- Sealed pilot for use in circuits where cross port leakage is undesirable.
- The customer specified orifice diameter is stamped on one of the cartridge's hex faces.
- 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.

Technical Data

	U.S. Units	Metric Units
Cavity	T-17A	
Capacity	60 gpm	240 L/min.
Pilot Ratio	3:1	
Maximum Operating Pressure	5000 psi	350 bar
Orifice Range	.016 - .218 in.	0,4 - 5,5 mm
Series (from Cavity)	Series 3	
Valve Hex Size	1 1/4 in.	31,8 mm
Valve Installation Torque	150 - 160 lbf ft	200 - 215 Nm
Seal Kits - Cartridge	Buna: 990-017-007	
Seal Kits - Cartridge	Viton: 990-017-006	
Model Weight	1.16 lb.	0.53 kg.



Note: Performance data shown reflects a blocked orifice.

CNGE-XCN

Control		Setting Range		Seal Material	
Standard Options		Standard Options		Standard Options	
X	Not Adjustable	A *	4 psi (0,3 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)	N	Buna-N
				V	Viton
		B *	15 psi (1 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		
		C *	30 psi (2 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		
		D *	50 psi (3,5 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		
		E *	75 psi (5 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		
		F *	100 psi (7 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		
Additional Options					
Control		Setting Range		Seal Material	
L	Manual Load Release	Z *	1 psi (0,07 bar) Cracking Pressure, .016 - .218 in. (0,4 - 5,5 mm)		

* Special Setting required, specify at time of order