

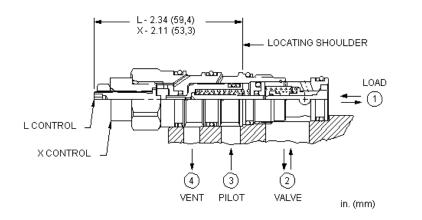
MODEL CVCV



CONFIGURATION

x	Control	Standard Pilot
с	Cracking Pressure	30 psi (2 bar)
Ν	Seal Material	Buna-N
(none)	Material/Coating	Standard Material/Coating

Vented pilot-to-open check valve CAPACITY: 60 L/min. | CAVITY: T-21A



This valve is a pilot to open check valve. It has a sealed pilot, a steel seat, and is 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 to open the valve is directly proportional to the load pressure at port 1. The valve is insensitive to pressure at port 2 because the spring chamber is referenced to the vent (port 4).

TECHNICAL DATA	
Cavity	T-21A
Series	1
Capacity	60 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	22,2 mm
Valve Installation Torque	41 - 47 Nm
Seal kit - Cartridge	Buna: 990-021-007
Seal kit - Cartridge	Polyurethane: 990-021-002
Seal kit - Cartridge	Viton: 990-021-006
Model Weight	0.18 kg.

SYMBOLS





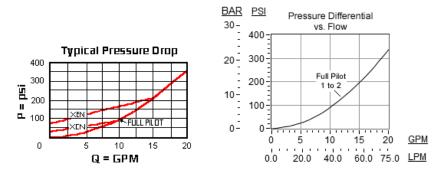
TECHNICAL FEATURES

- Pilot pressure as low as 75 psi (5 bar) higher than the pressure at the vent can prevent the valve from closing.
- Will accept pressure at port 4 (vent) but can not exceed 5000 psi (350 bar).
- Pilot-to-open check cartridges are locking valves, not motion control valves. For motion control applications, use counterbalance valves.
- Four-port pilot-to-open check cartridges and four-port counterbalance cartridges 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.

- Approximately 1 drop (0,07 cc) of fluid will pass from the pilot area to the vented spring chamber every 4000 cycles.
- Provides hose break protection, prevents loads from drifting and positively locks pressurized loads.
- 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.
- Sealed pilot for use in circuits where cross port leakage is undesirable.
- Port 4 (vent) should never be blocked as seal weepage will eventually cause valve to malfunction.
- 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

	CONTRO	CONTROL		
Preferred Options	х	Standard Pilot		
Standard Options	L	Manual Load Release		
	CRACKIN	CRACKING PRESSURE		
Preferred Options	с	30 psi (2 bar)		
	A	4 psi (0,3 bar)		
	В	15 psi (1 bar)		
Standard Options	D	50 psi (3,5 bar)		
	E	75 psi (5 bar)		
	F	100 psi (7 bar)		
	SEAL MA	SEAL MATERIAL		
Preferred Options	Ν	Buna-N		
Standard Options	v	Viton		
	MATERIAL/COATING			
		Standard Material/Coating		
Standard Options	/AP	Stainless Steel, Passivated		
	/LH	Mild Steel, Zinc-Nickel		
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