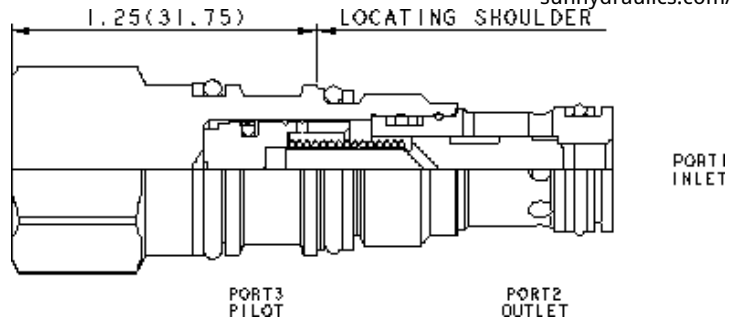


## CONFIGURATION

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



This valve is a spring biased closed, pilot-to-close check cartridge that has a 3:1 pilot ratio. The valve allows flow from port 1 to port 2 and blocks reverse flow. Pressure at the pilot port opposes pressure at port 1 at a ratio of 3:1. This valve is most often used in regeneration circuits.

## TECHNICAL DATA

NOTE: DATA MAY VARY BY CONFIGURATION. SEE CONFIGURATION SECTION.

Cavity	T-163A
Series	0
Capacity	40 L/min.
Maximum Operating Pressure	350 bar
Pilot Ratio	3:1
Maximum Valve Leakage at 110 SUS (24 cSt)	0,07 cc/min.
Valve Hex Size	19,1 mm
Valve Installation Torque	27 - 33 Nm
Seal kit - Cartridge	Buna: 990163007
Seal kit - Cartridge	EPDM: 990163014
Seal kit - Cartridge	Polyurethane: 990163002
Seal kit - Cartridge	Viton: 990163006
Model Weight	0.09 kg.

## CONFIGURATION OPTIONS

### Model Code Example: COBAArray

CONTROL	(X)	CRACKING PRESSURE	(C)	SEAL MATERIAL	(N)	MATERIAL/COATING
<b>X</b> Standard Pilot		<b>C</b> 30 psi (2 bar)		<b>N</b> Buna-N		Standard Material/Coating
<b>B</b> External 1/4 BSPP Pilot Port, Port 3 blocked		<b>D</b> 50 psi (3,5 bar)		<b>E</b> EPDM		/AP Stainless Steel, Passivated
		<b>E</b> 75 psi (5 bar)		<b>V</b> Viton		/LH Mild Steel, Zinc-Nickel
		<b>F</b> 100 psi (7 bar)				

## TECHNICAL FEATURES

- Features hardened steel seats for excellent wear characteristics and contamination tolerance.
- Product is not available with A and B spring ranges (4 and 15 psi (0,3 and 1 bar)).
- Pressure at the port 2 area directly opposes pilot pressure.
- Reverse flow through the valve from port 2 to port 1 is not possible under any condition.
- Nominal pilot ratio is 3:1. This means that a pressure of 1000 psi (70 bar) at the pilot port will close a valve against a pressure of 3000 psi (205 bar) at port 1. Any decay or loss of pilot pressure could allow the valve to open, even if it is a momentary decay or loss.
- Cartridges configured with EPDM seals are for use in systems with phosphate ester fluids. Exposure to petroleum based fluids, greases and lubricants will damage the seals.
- 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

