

SERIES – DCV4-3

Basic Characteristics

Operating Pressure (maximum) - 350 bar (5000 psi)

Rated Flow Capacity - 19 L/min

Max Flow - 38 L/min

Approx. Weights

DCV4-3 = 1.5 kg.

Operating Information

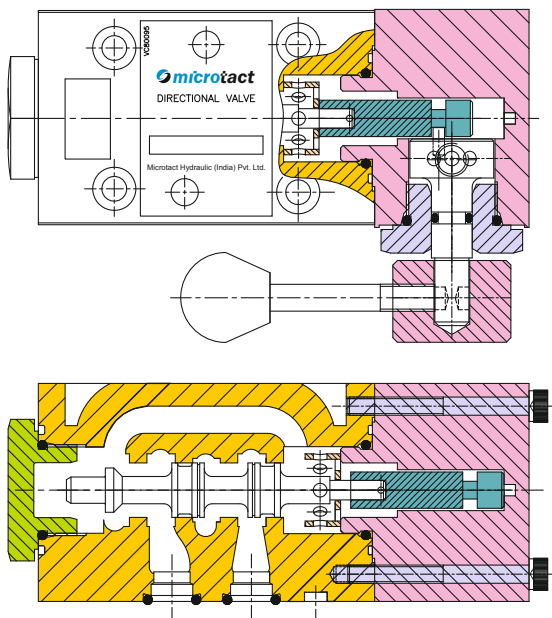
Manual lever operation must be released from their actuated positions. Without any restrictions to spring return.

Shifting Action

Spring centered and spring offset types will be spring positioned unless manual lever is held in actuated position. No-spring detented valves require only momentary manual actuation to shift spool. When lever is released, spool will remain in last position attained provided there is no severe shock.

Mounting Position

Mounting position of spring offset and spring centered models is unrestricted. No-spring detented valves must be installed with longitudinal axis horizontal for good machine reliability.



General Description

The primary function of these four-way directional control valves, in a hydraulic circuit, is to direct flow. This in turn would determine the direction of movement of a fluid cylinder or the direction of rotation of a fluid motor port connections are made by mounting the valves on a sub plate or manifold having mounting dimensions which conform to (ISO-4401-03)

Surges of oil in a common tank line serving these and other valves can be of sufficient magnitude to cause inadvertent shifting of these valves. This is particularly critical in the no-spring detented type valves. Separate tank lines or a vented manifold with a continuous downward path to tank is necessary.

Any sliding spool valve, if held shifted under pressure for long periods of time, may stick and not spring return due to fluid residue formation and therefore, should be cycled periodically to prevent this from happening.

Filtration

For the satisfactory service life of these components in industrial application, use full flow filtration to provide fluid which meets ISO cleanliness code 18 / 15 or cleaner.

ORDERING INFORMATION

DCV 4 - 3 - * * - (*) - *

1 2 3 4 5 6 7

1. Model Code - **DCV**

2. Model Series - **4**

3. Arrangement – **CETOP-3**

4 Spool Type

0 – Open Center (all ports)

2- Close Center (all ports)

6 – Close Center ('P' only)

5. Spring Location -

C – Spring centered

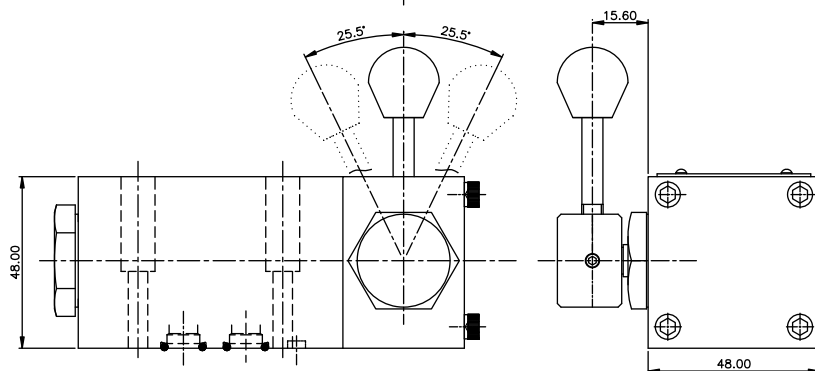
A – Spring offset

N – Non-spring Detented

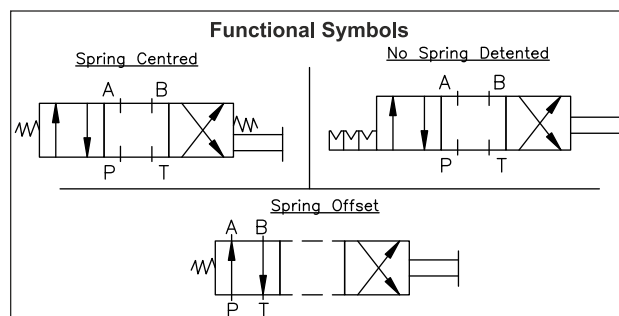
6. L- Left Hand Assembly (omit for right hand ass'y.)

7. Design No - 10 (Subject to change)

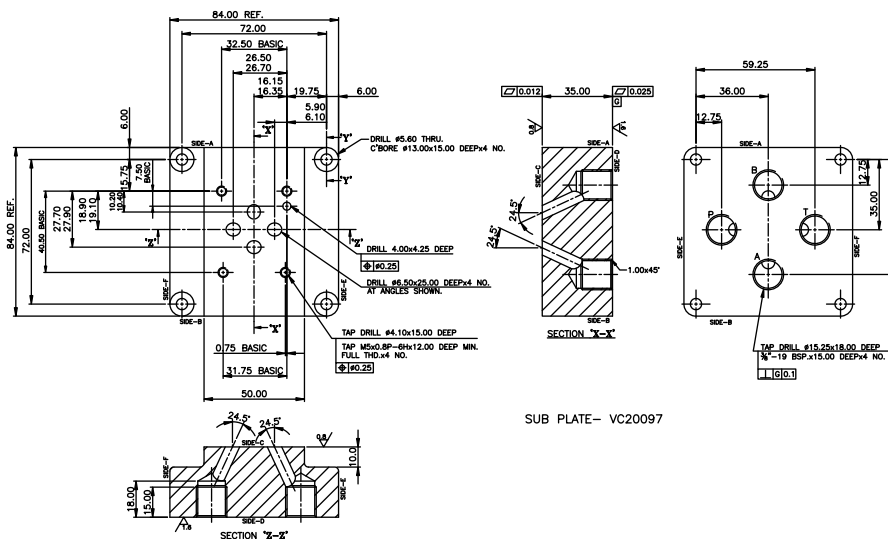
Typical Model Code :- **DCV4-3-2C-10**



PRESSURE DROP



Spool Type & Center Crossover Position	For $P \rightarrow A$	$B \rightarrow T$	$P \rightarrow B$	$A \rightarrow T$	$A \rightarrow T$ AT Center
 '0'	(y)	(y)	(y)	(y)	(y)
 '2'	(y)	(z)	(y)	(z)	
 '6'	(z)	(x)	(z)	(x)	



SUB PLATE- VC20097