

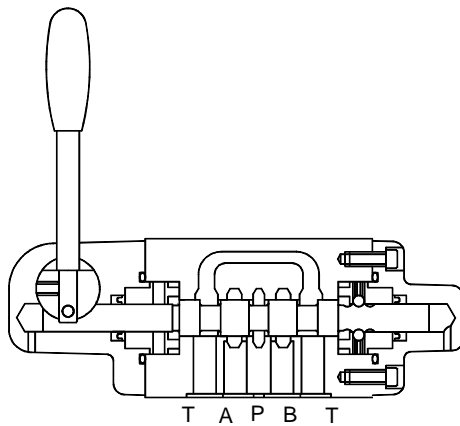
## LEVER OPERATED DIRECTIONAL CONTROL VALVE MODEL : 4DCL10

### Description

Completely encapsulated mechanism for protection against dirt.  
 Five chamber design for better reduction in dynamic forces and longer valve life.  
 Two mounting styles viz Threaded and subplate.  
 Available as spring centred, spring offset or detented model.  
 Operating head can be rotated by 90 x 4 around spool axis for flexibility in mounting.  
 Mounting interface conforms to International and National standards.  
 Port configuration conforms to Factory standards.

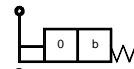


### Section

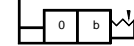


### Hydraulic Symbol

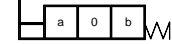
2 position spring offset



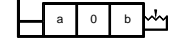
2 position detented



3 position spring centred



3 position detented



### Unit Dimensions

Dimensions in mm.

Threaded port body

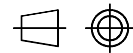
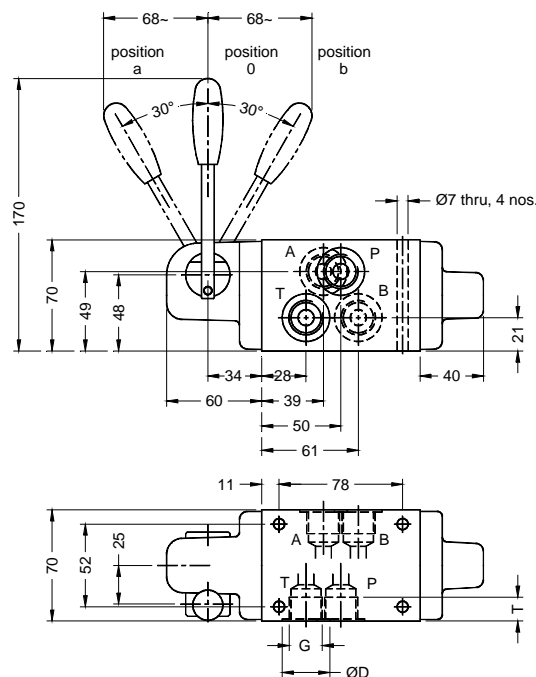


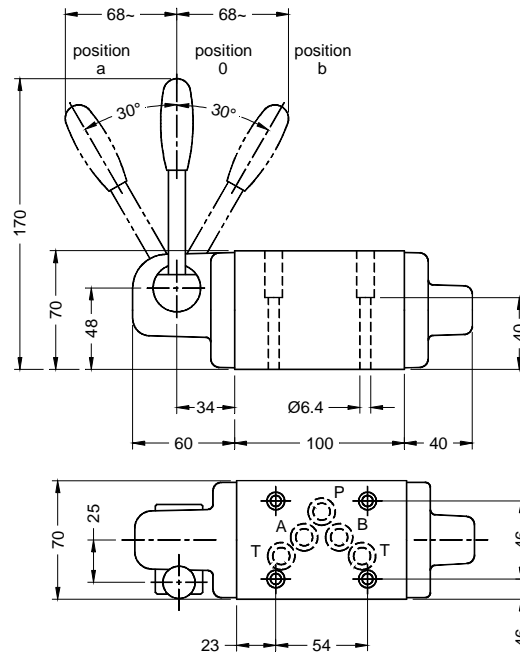
Table No. 1

Model	G	φD	T
4DCL10G01	G1/4	22	13
4DCL10G02	G3/8	25	13
4DCL10G03	G1/2	30	15

## LEVER OPERATED DIRECTIONAL CONTROL VALVE

MODEL : 4DCL10

### Subplate mounting



Note:- Valve fixing screws M6x50L  
Tightening torque 15 Nm

### Subplate

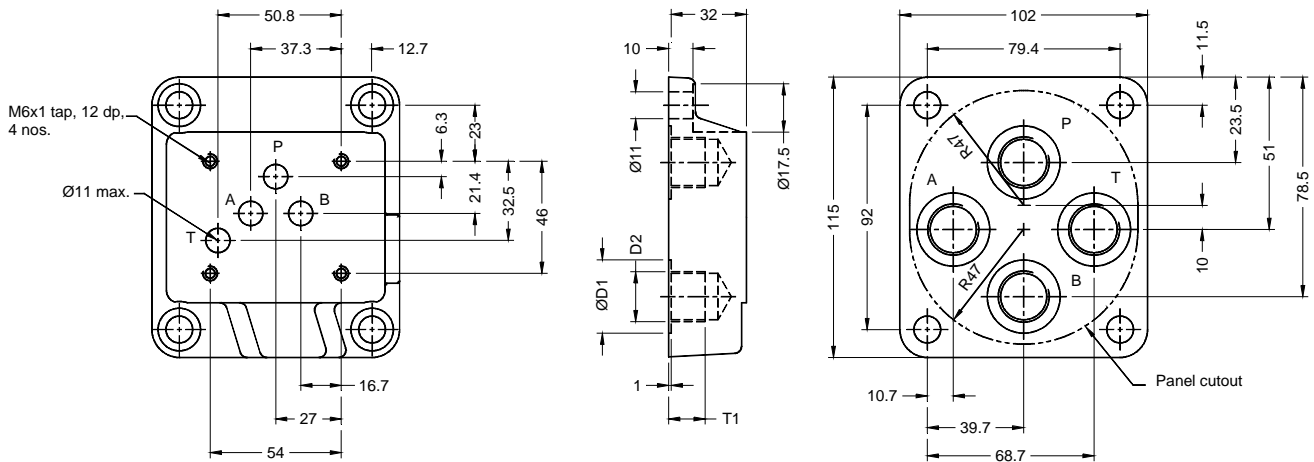


Table No. 2

Subplate	ØD1	ØD2	T1	Mass(k-g)
CTP05G01	22	G1/4	13	1.1
CTP05G02	25	G3/8	13	
CTP05G03	30	G1/2	15	

Note :- Subplate to be ordered separately.  
Ref. Table.No.2 for ordering code.

## LEVER OPERATED DIRECTIONAL CONTROL VALVE MODEL : 4DCL10

### Technical Specifications

Construction .....	Spool type.
Mounting style .....	Threaded and subplate body.
Interface .....	As per ISO 4401-AC-05-4-A and IS 10187-10 mm diameter nominal port.
Mounting position .....	Optional.
Flow direction .....	As per spool
Operating pressure .....	For port P, A and B . . . 315 bar. For port T . . . . . 100 bar.
Hydraulic medium .....	Mineral oil
Viscosity range .....	10 to 380 cSt
Fluid temperature range .....	-20 to +70 degree celcius
Oil cleanliness requirement .....	As per I.S.O. 16/13 or better.
Nominal flow handling capacity .....	32 l/min (@ 68cSt & 1 bar pressure drop)
Maximum flow handling capacity .....	100 l/min.
Mass .....	5.6 kg. approx ( Threaded & subplate body)

### Performance curve

Oil used : ISO VG 68, Viscosity : 68 cSt @ 40 °c, Temp. @ test : 50 °c

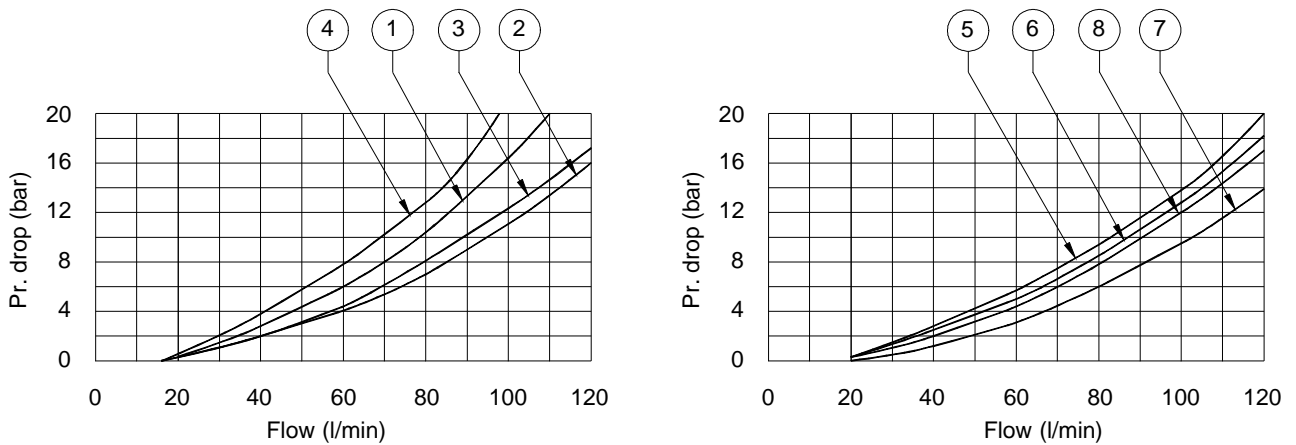
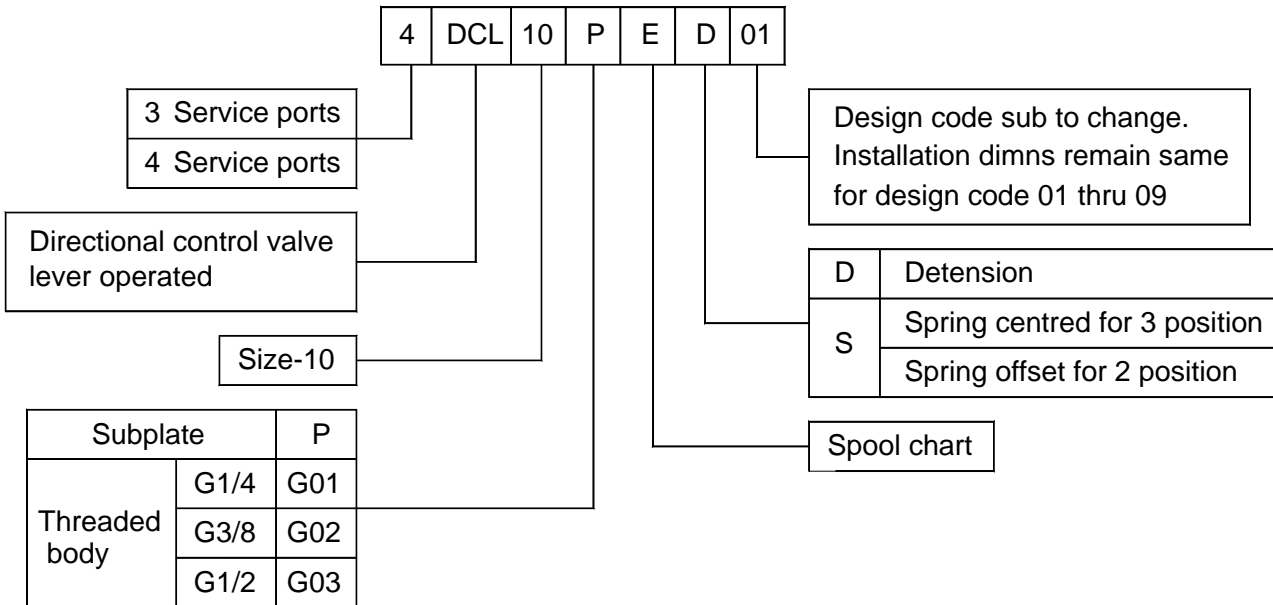


Table showing the relation between spool type, direction of flow & curve in the above graph to be referred to.

Spool type	Direction of flow / Curve no.				
	P to T	P to A	P to B	A to T	B to T
A	..	1	1	..	..
C	..	1	1	2	3
E	..	1	1	2	3
F	4	1	1	7	3
G	4	1	1	2	3
H	5	6	6	7	8
J	..	1	1	7	8
M	..	6	6	2	3
P	4	1	1	2	8

## LEVER OPERATED DIRECTIONAL CONTROL VALVE MODEL : 4DCL10

### Ordering Code



### Spool chart

Type	Symbol	Crossover	Type	Symbol	Crossover
A			J		
C			M		
D			P		
E			T		
F					
G					
H					

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