



# LEVER OPERATED DIRECTIONAL CONTROL VALVE DL06 ( CETOP 03 )

ENGINEERING

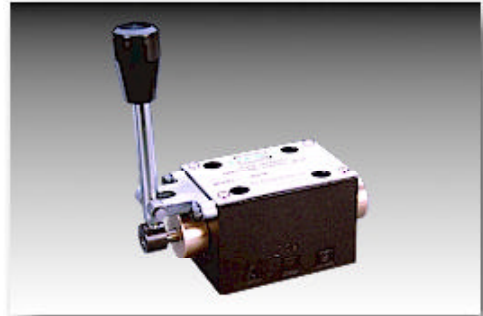
1

Ref. No. P09497

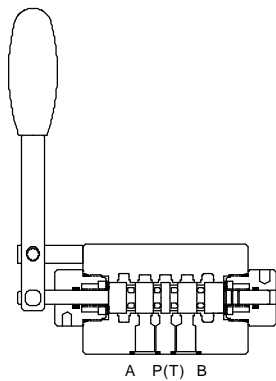
Release 09/2007

## Description

Completely encapsulated mechanism for protection against dirt. Five chamber design for better reduction in dynamic forces and longer valve life. Available as spring centred, spring off-set or detented model. Operating head can be rotated by 90° x 4 around spool axis for flexibility in mounting. Valve mounting interface conforms to ISO 4401-03-02. Five chamber body and spool design provides low-pressure drop, with maximum performance. Balanced spool design ensures proper shifting force for maximum reliability and long life. All spools and bodies are interchangeable, simplifying maintenance.

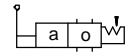


## Section

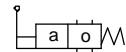


### Hydraulic symbol

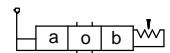
2 position detented



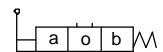
2 position spring offset



3 position detented



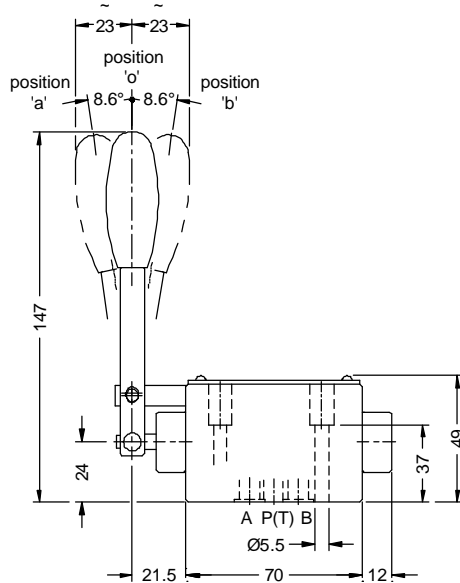
3 position spring centred



## Unit dimension

### Sub-plate type body

Dimensions in mm.



O'Ring size at port P, A, B & T :  
9.25 i.d. x 1.78 c.s.d.

Tightening torque  
7 Nm.

### Polyhydron Pvt. Ltd.

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**Technical specification**

Construction .....Spool type.  
 Mounting .....Subplate body as per ISO 4401-03-02.  
 Mounting position .....Optional.  
 Operating Pressure .....For ports P, A, B .....315 bar  
 port T .....150 bar  
 ( For spool type A & B, port T to be used as drain line, if the operating pressure exceeds 150 bar.)  
 Nominal flow handling capacity .....63 lpm.  
 Max. flow handling capacity .....Refer graph.  
 Flow direction .....Refer spool chart.  
 Hydraulic medium .....Mineral oil.  
 Viscosity range .....10 to 380 cSt.  
 Working temperature range .....-20 °C to +70 °C.  
 Fluid cleanliness requirement .....As per ISO code 16/13 or better.  
 Weight .....0.75 kg. APPROX.

**Performance curves**

Oil Used : ISO VG 68, Test temp : 50 °C.

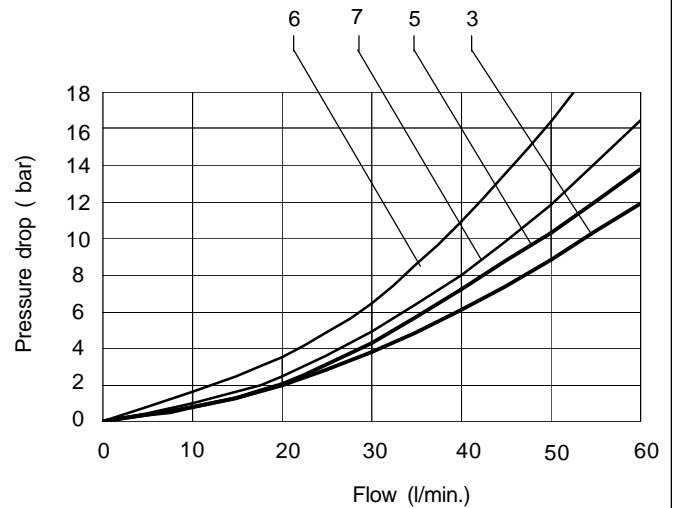
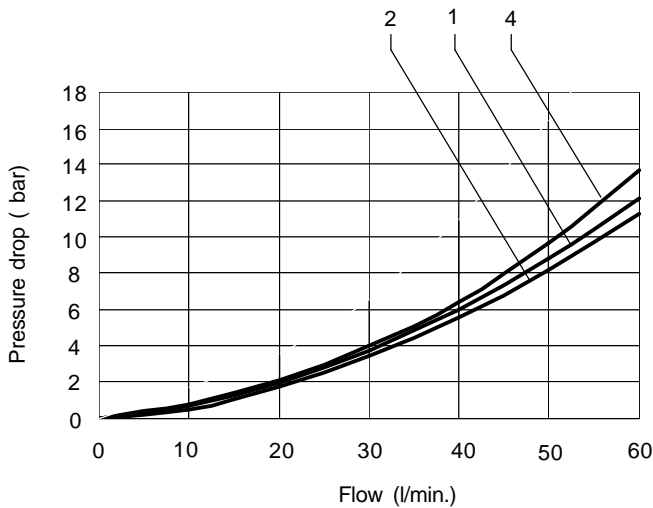


Table showing the relation between the spool type, direction of flow and curve in the above graph to be referred to.

Spool type	Direction of Flow / Curve No.				
	P to A	P to B	A to T	B to T	P to T
A	4	4	--	--	--
B	4	4	--	--	--
C	4	4	5	2	--
D	4	4	5	2	--
E	3	3	5	5	--
F	1	3	1	3	--
G	6	6	6	6	7
H	1	1	2	2	4
J	3	3	2	2	--
L	3	3	2	5	--
M	1	1	5	5	--
P	3	1	3	1	--



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**Ref. No. P09497**

**Ordering code**

4 | DL | 06 | S | G | S | A | 01

3 Service port  
4 Service port

Directional valve  
Lever operated

Size

Sub-plate | S

Spool type  
refer chart

Spring return | S  
Detent | D

Design code  
subject to change.  
Installation dimensions  
remain same for design code  
01 thru 09.

Option for converting  
3 position valve to 2 position

A	Control position 'a' & 'o' only
B	Control position 'b' & 'o' only
Omit for standard valve	

**Spool chart**

Type	Symbol	Crossover	Type	Symbol	Crossover
	a 0 b A B			a 0 b A B	
A			J		
B			L		
C			M		
D			P		
E			Q		
F			U		
G			V		
H					

**Note : Subplate to be ordered separately.**

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Subject to revision.