



A Polyhydron Group Company

LEVER OPERATED DIRECTION CONTROL VALVE Model : DL06*****11

Ref. No. D 09497
Release 03 / 2022

ENGINEERING - 1 of 4

Description

Completely encapsuiated mechanism for protection against dirt. Five chamber design for better reduction in dynamic force and longer valve life.

Valve mounting interface confirms to ISO 4401-03-02.

Mounting style - Subplate body. Available as spring centred, spring off-set or detented model.

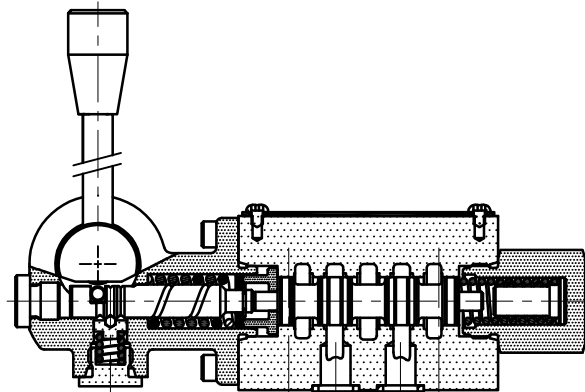
Operting Head can be rotated by 90° x 4 around spool axis for flexibility in mounting.

Hand lever can also be assembled, so that it is parllel to the axis at valve's netrual position.

All spool and bodies are interchangeable, simplifying maintence.

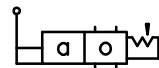


Section

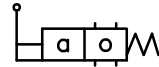


Hydraulic symbol

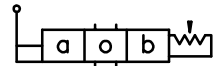
2 position detented



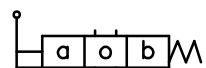
2 position spring offset



3 position detented



3 position spring centred



Technical specifications

Construction	:	Spool type.
Mounting / Standard	:	Subplate body. Interface as per ISO 4401 - 03 - 02
Mounting position	:	Optional, horizontal spool axis preferred.
Flow direction	:	As per spool type .
Maximum operating pressure	:	For port P, A, and B.....315 bar. (Standered valve) For port T.....100 bar. Pressure drop in the tank line adversely affect the returning speed of the cylinder, Hence must be kept as low as possible
Hydraulic medium	:	Mineral oil.
Viscosity range	:	10 cSt to 380 cSt.
Fluid temperature range	:	-20°C to +70°C.
Fluid cleanliness requirement	:	ISO 4406 20/18/15 or better.
Nominal flow handling capacity	:	refer performance curve.
Flow direction	:	Refer spool chart.
Mass (approx)	:	1.5 kg

polyhydron pvt. ltd.

78-80, Machhe Industrial Estate,
Machhe, Belgaum - 590 014. INDIA.

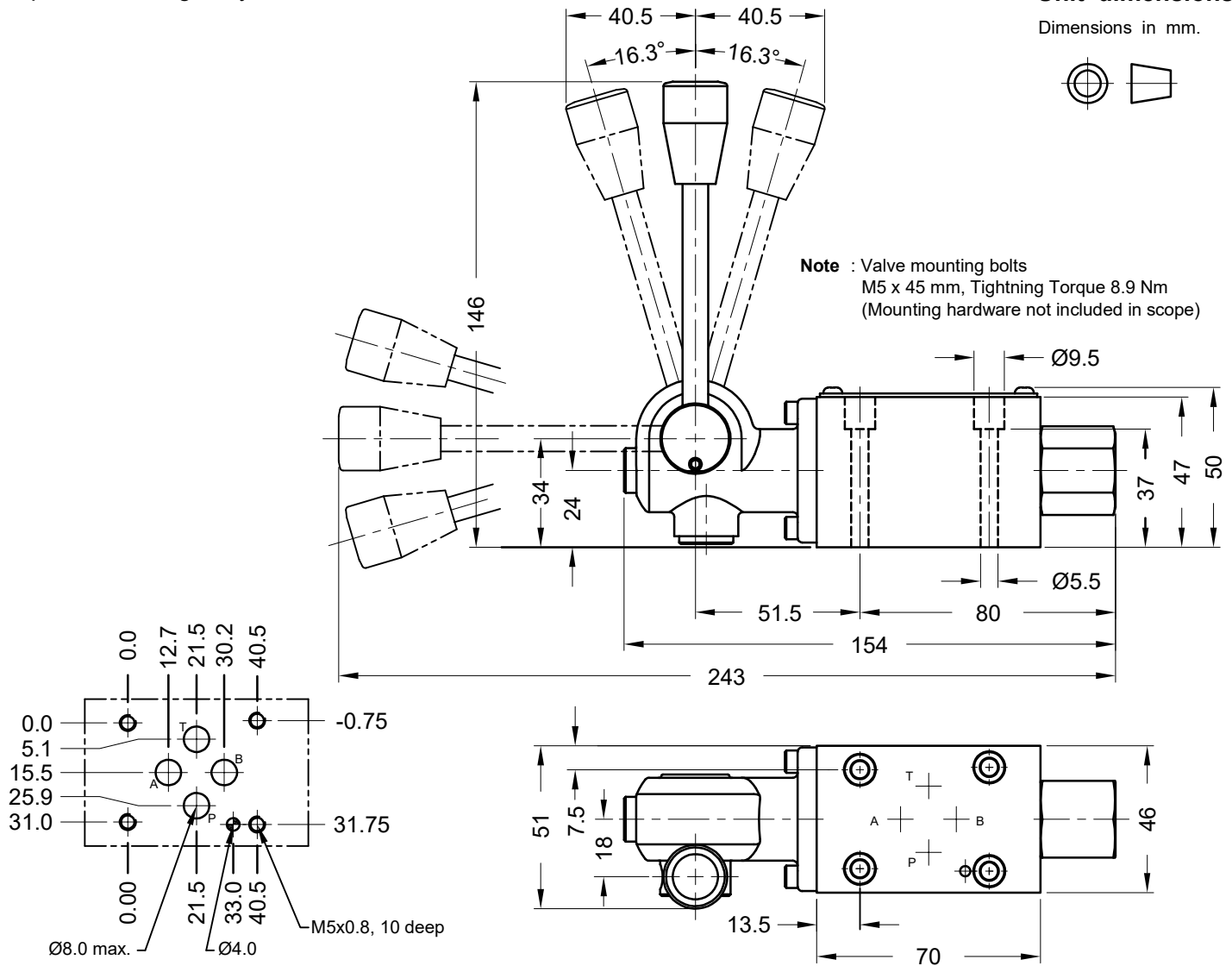
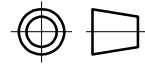
Phone : +91-(0)831- 2411001
Fax : +91-(0)831- 2411002
E-mail : polyhydron@gmail.com
Website : www.polyhydron.com



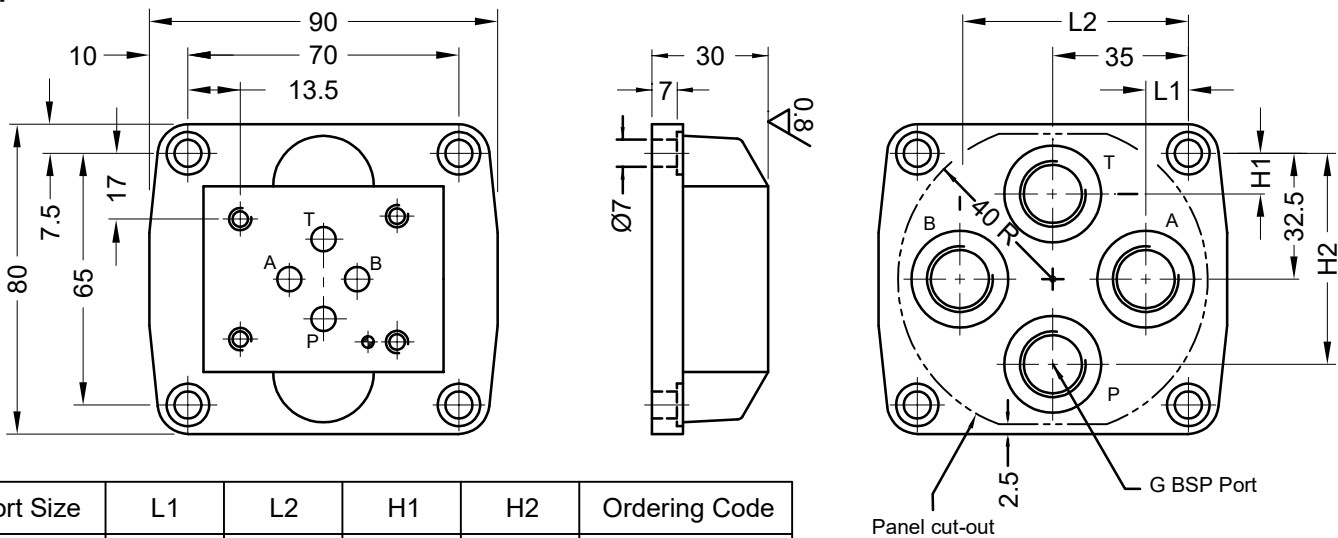
Subplate mounting body

Unit dimensions

Dimensions in mm.



Subplate

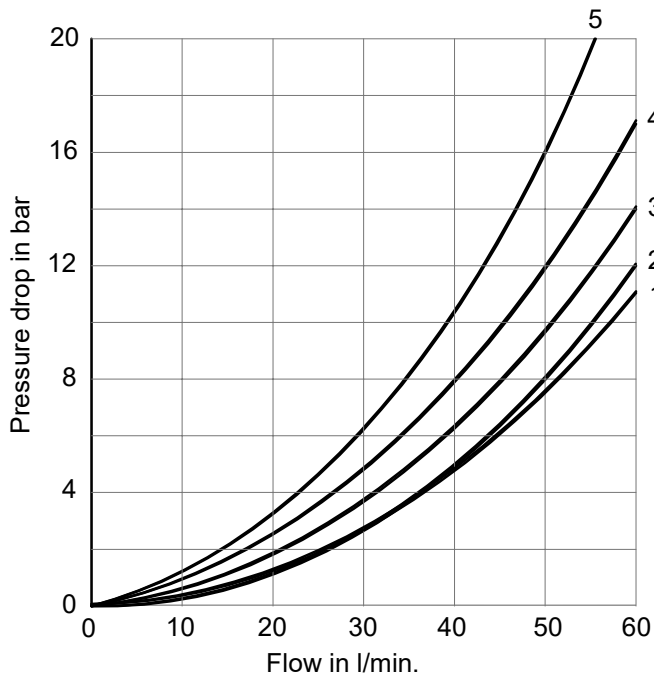


Port Size	L1	L2	H1	H2	Ordering Code
G ¼	17	53	15.5	49.5	1 SD 03 G 02
G ⅜	11	59	10.5	54.5	1 SD 03 G 03



Performance Curves for DL 06

(Pressure drop related to flow, with Oil viscosity 46 cSt at 40°C)



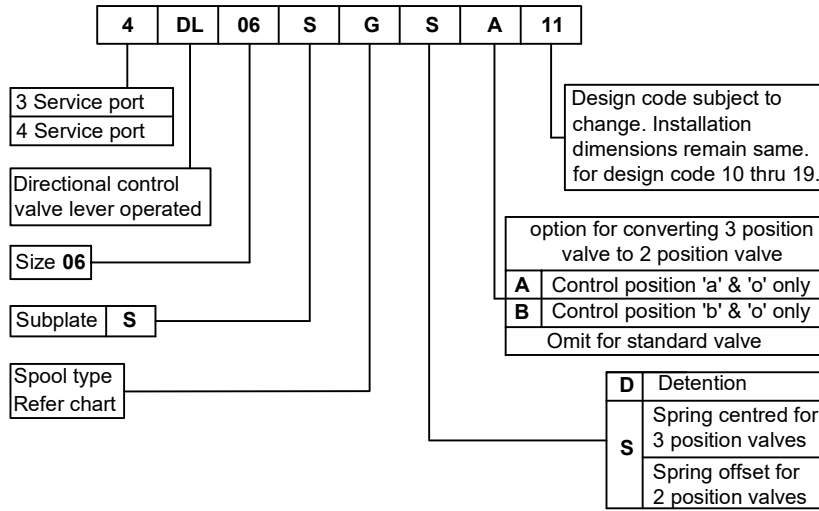
Spool type	Direction of flow / Curve no.				
	P to A	P to B	A to T	B to T	P to T
A	3	3	-	-	-
B	3	3	-	-	-
C	3	3	3	1	-
D	3	3	3	1	-
E	2	2	3	3	-
F	2	2	2	2	-
G	5	5	5	5	4
H	2	2	1	1	3
J	2	2	1	1	-
L	2	2	1	3	-
M	2	2	3	3	-
P	2	2	2	2	-

Spool Chart

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



Ordering code



Note :
Sub-plate to be ordered separately.