ROTARY DIRECTIONAL CONTROL VALVE Model : 4RDL

Description

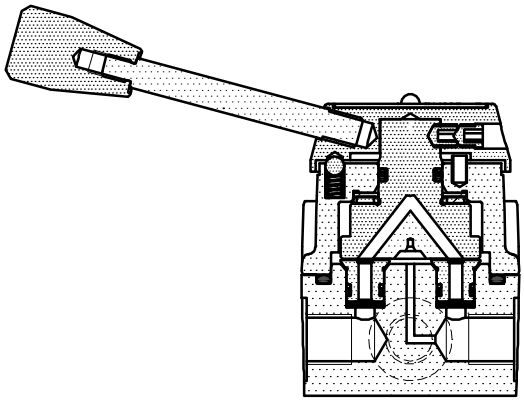
Rotary directional control valve are hand lever operated valves designed for applications where,

1. Pressures are high
2. Internal leakages in the valve need to be negligible and,
3. Flow handled are very small.

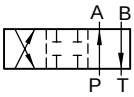
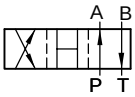
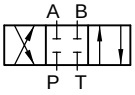
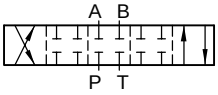
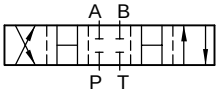
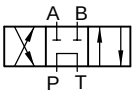
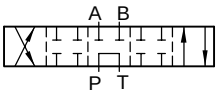
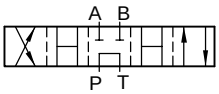
These valves are available with open or closed crossover condition while in operation.

Three mounting styles are designed to suit specific customer needs.

Section



Hydraulic symbol

Spool type	Basic symbol	Closed crossover (**C**)	Open crossover (**O**)
C		**CC** 	**CO** 
E		**EC** 	**EO** 
G		**GC** 	**GO** 

Technical specifications

Construction	:	Rotary disc type.
Mounting	:	Threaded and subplate body.
Mounting position	:	Optional.
Interface	:	Factory standard.
Flow direction	:	Refer spool type given above.
Flow handling capacity	:	Refer graph shown.
Operating pressures	:	

Ports	Open crossover operating pressure (bar)	Closed crossover operating pressures (bar)
P	700	500
T	10	10
A	700	500
B	700	500

Hydraulic medium	:	Mineral oil.
Temperature range	:	-20°C to + 80°C.
Viscosity range	:	10 cSt to 380 cSt.
Fluid cleanliness required	:	ISO 4406 20/18/15 or better.

Mass (approx) :	Model :	4RDL02*T	4RDL02*S	4RDL02*SS
	in Kg :	1.5	1.6	2.1

Note : Torque required to operate the lever of closed crossover valve under pressure is approximately 14 Nm at 500 bar.
Torque required to operate the lever of open crossover valve under pressure is approximately 8 Nm at 700 bar.

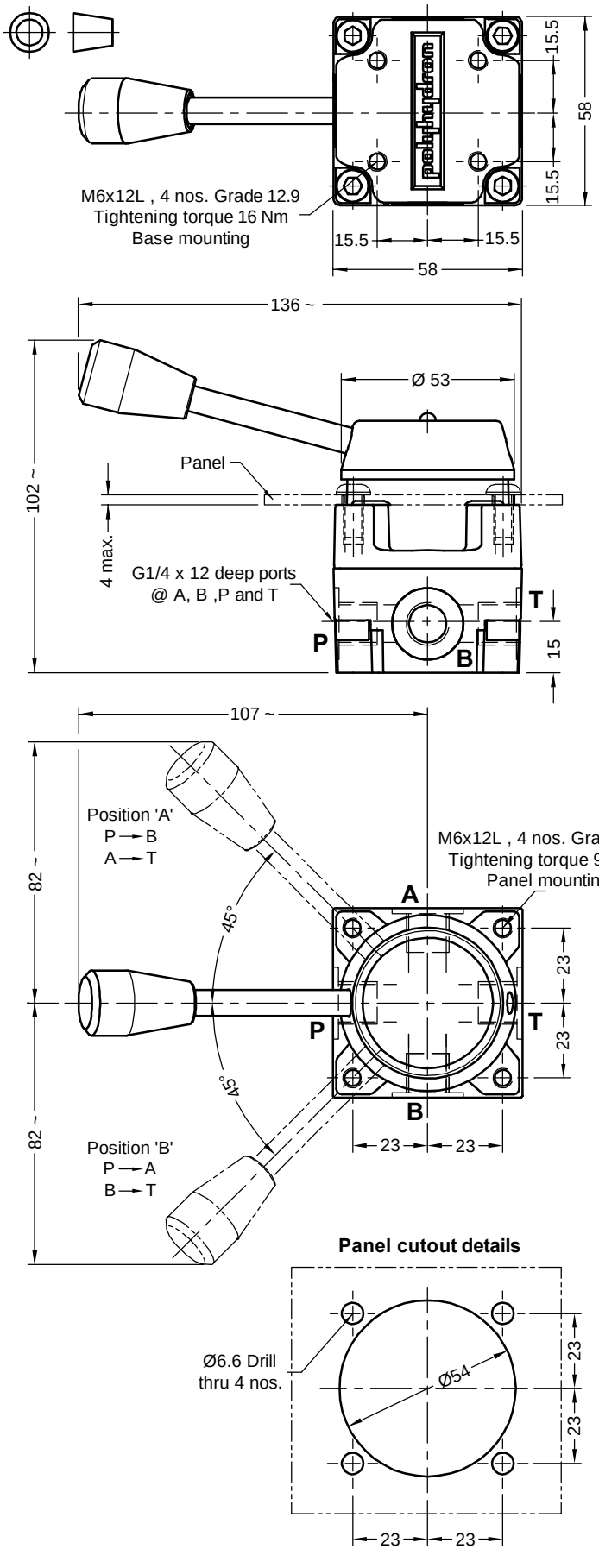
polyhydron pvt. ltd.
78-80, Machhe Industrial Estate,
Machhe, Belgaum - 590 014. INDIA.

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

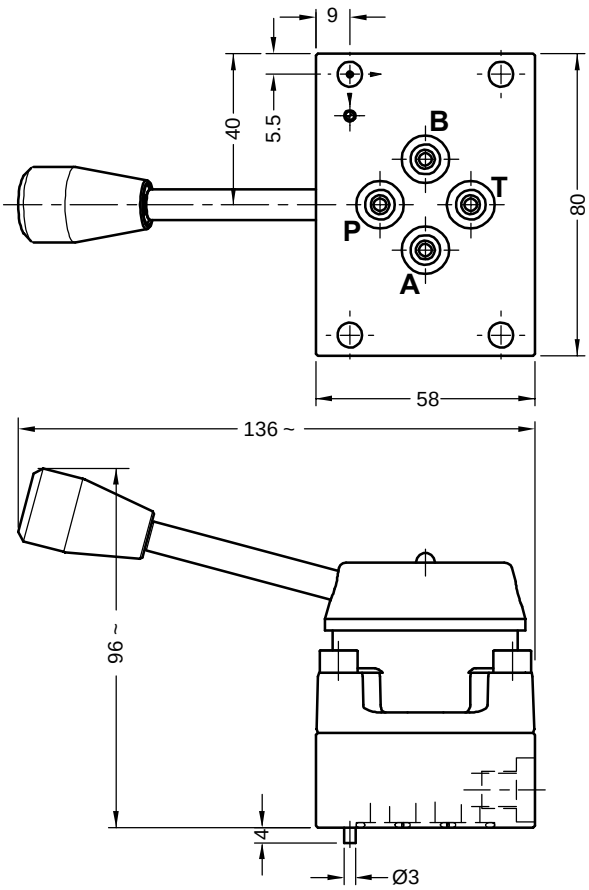
Unit dimensions

Dimensions in mm.

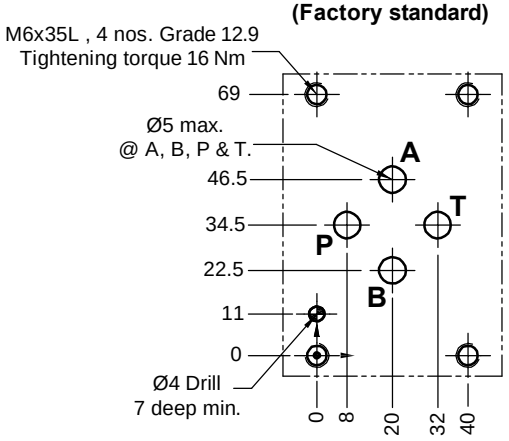
Threaded body



Subplate body



Subplate mounting interface (Factory standard)

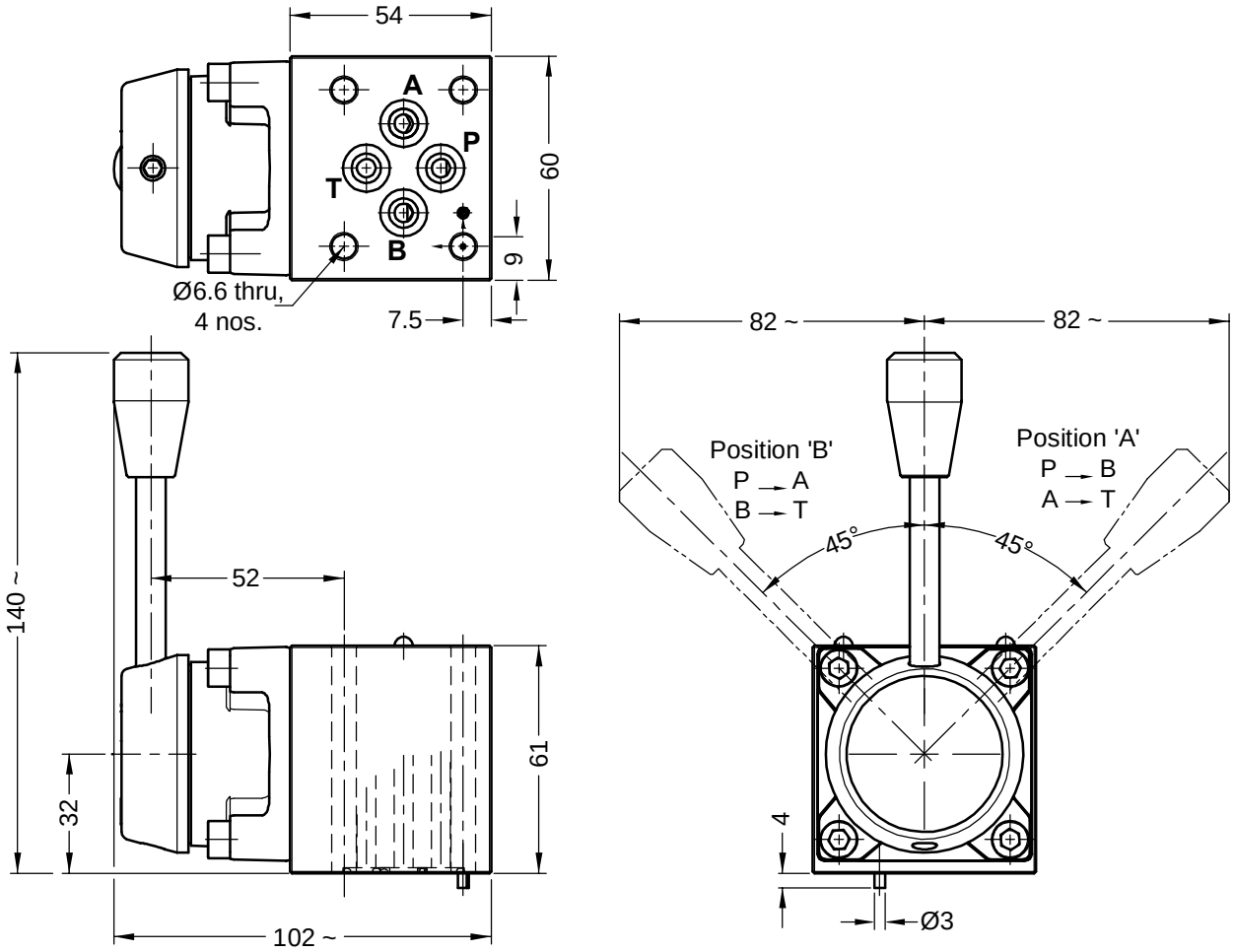


Panel cutout details

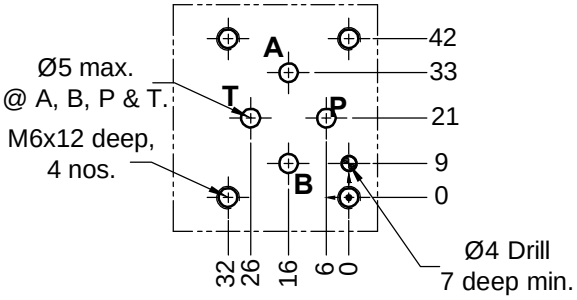
Unit dimensions

Dimensions in mm.

Side subplate mounting body



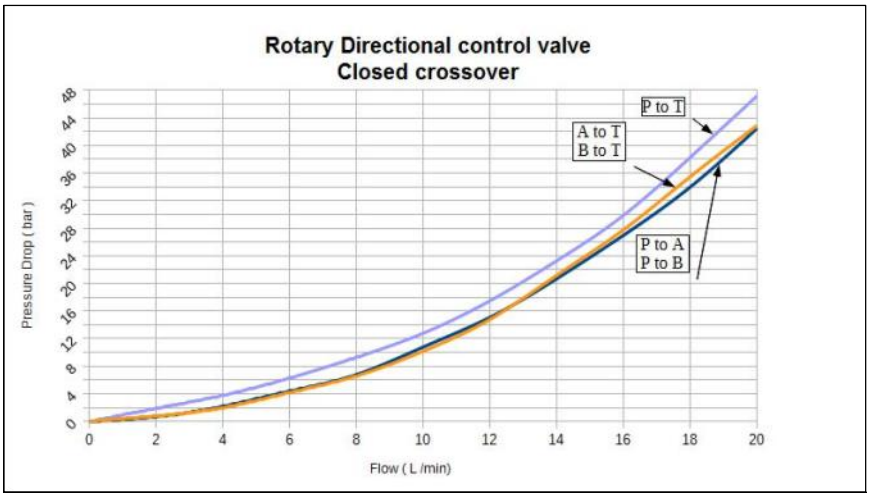
Side mounting subplate interface (Factory standard)

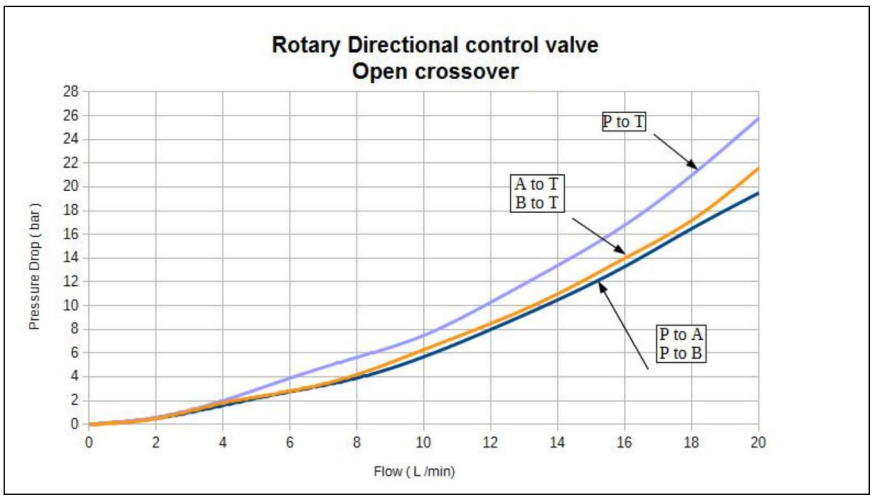


Valve mounting S.H.C Screws M6x70L (4 nos.)
Grade 12.9. Tightening torque 16 Nm.

Performance curve

Measured at temperature 40°C and with mineral oil of visocity grade VG 46.



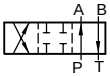
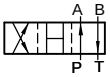
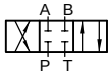
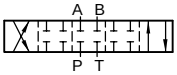
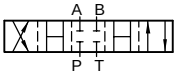
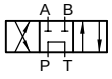
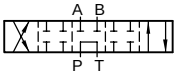
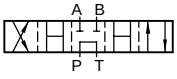


Ordering code

4	RDL	02	T	E	C	D	15

- 4 Service ports
- Rotary directional control valve lever operated
- Size 02
- Design code subjected to change. Installation dimensions remain same for design code 11 thru 19.
- Detented

Threaded	T
Subplate	S
Side subplate mounting	SS

Spool type	Basic Symbol	C Closed crossover	O Open crossover
C			
E			
G			

All valve fixing Screws are out of scope of supply.