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web: [www.coimbatoreaeration.com](http://www.coimbatoreaeration.com)





A Polyhydron Group Company

# **ROTARY DIRECTIONAL CONTROL VALVE Model : 4RDL**

Ref. No. D 06429

Release 12 / 2019

ENGINEERING - 1 of 4

## **Description**

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

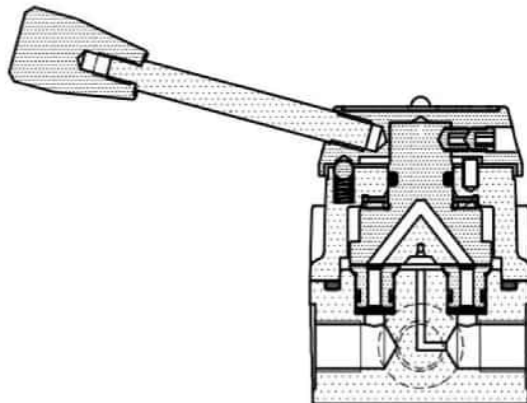
1. Pressures are high
2. Internal leakages in the valve need to be negligible and,
3. Flow handled are very small.

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		<b>CC</b> 	<b>CO</b> 
E		<b>EC</b> 	<b>EO</b> 
G		<b>GC</b> 	<b>GO</b> 

## **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

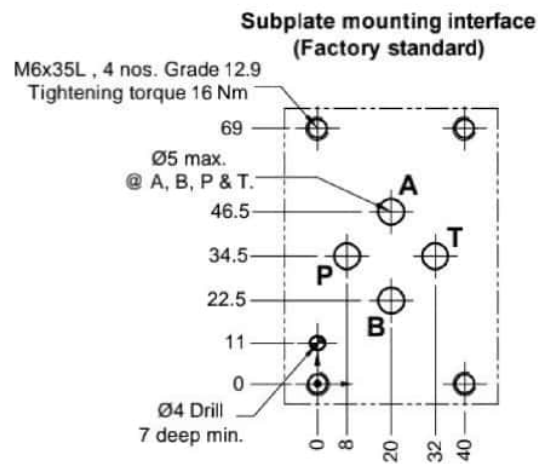
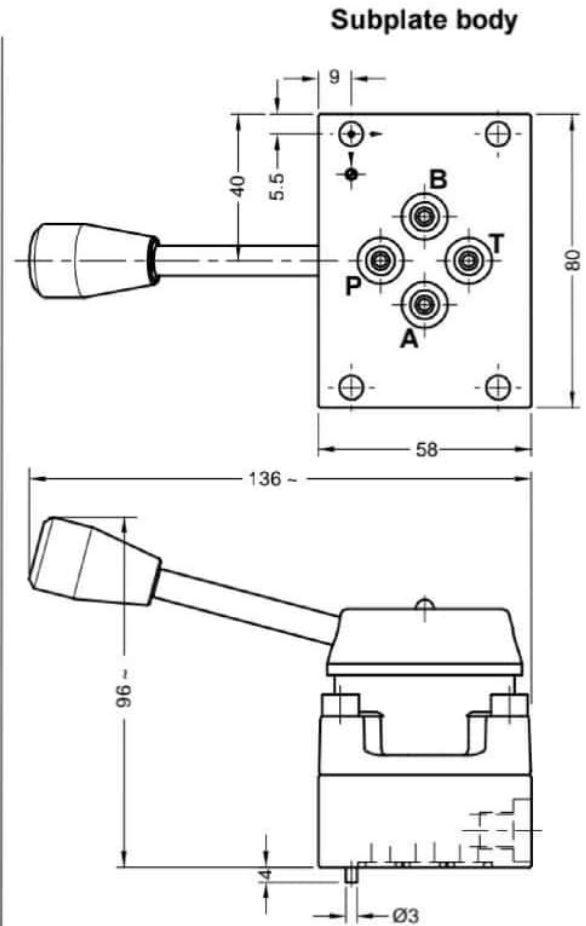
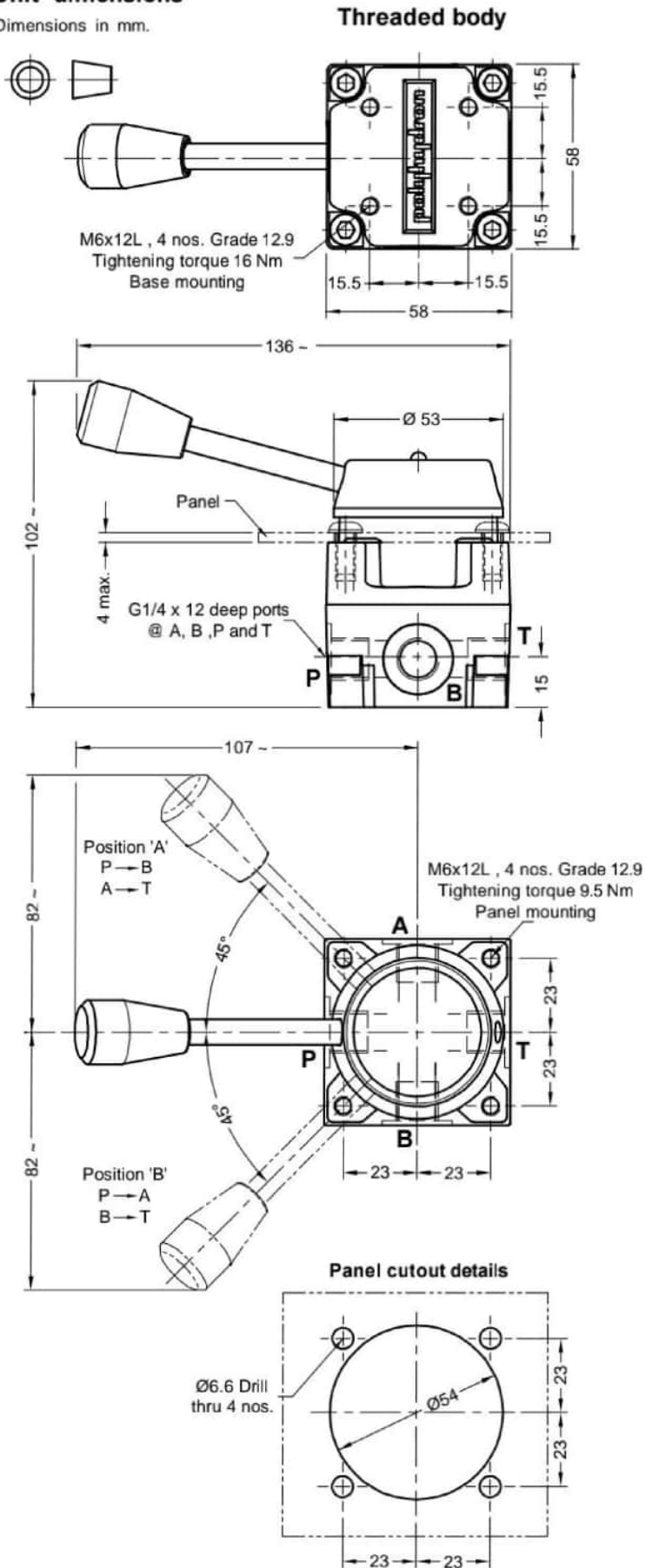
Note : Torque required to operate the lever of closed crossover valve under pressure is approximately 14 Nm at 500 bar.  
Torque required to operate the lever of open crossover valve under pressure is approximately 8 Nm at 700 bar.





## Unit dimensions

Dimensions in mm.

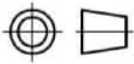




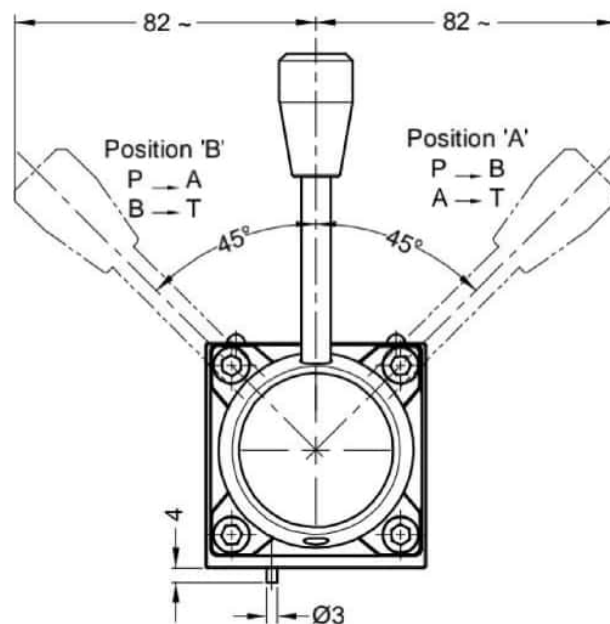
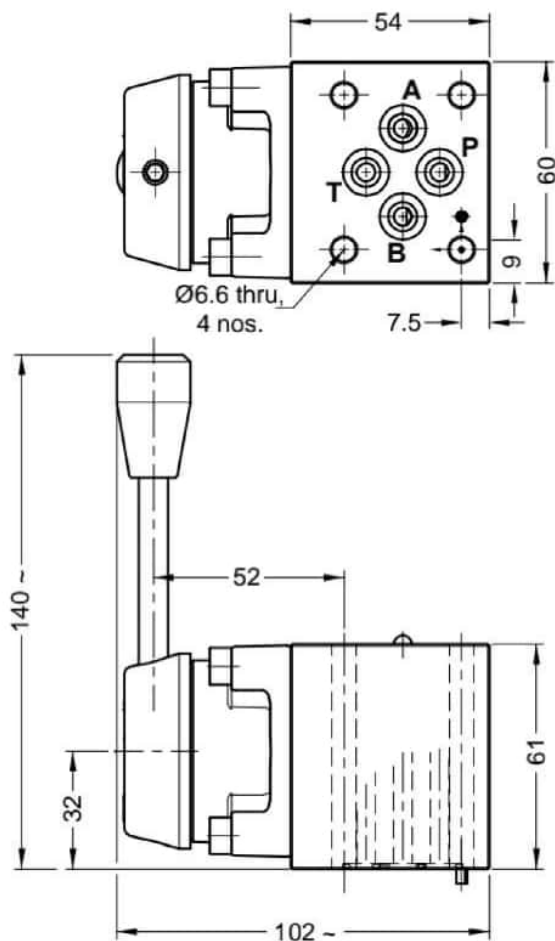


## Unit dimensions

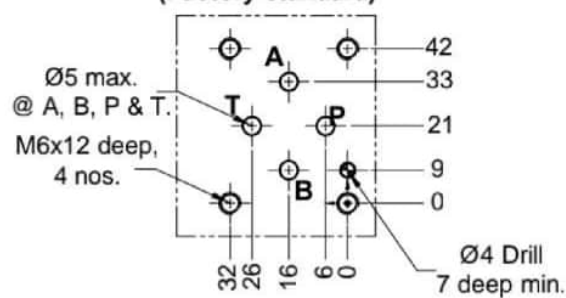
Dimensions in mm.



### Side subplate mounting body



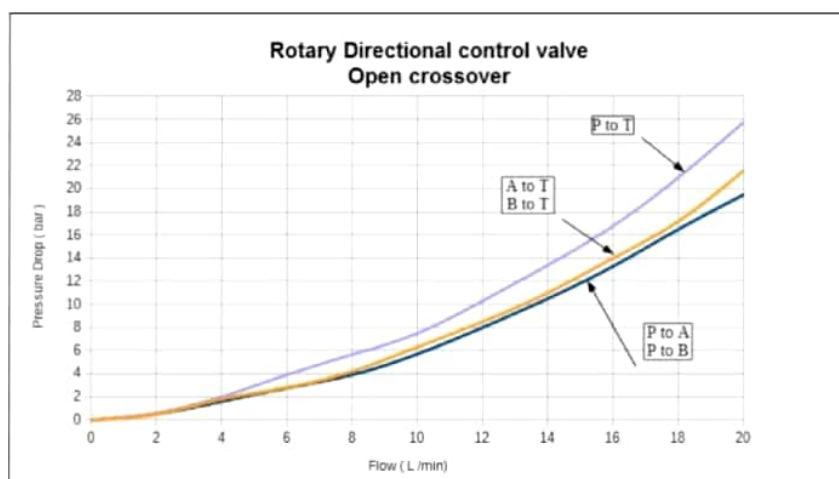
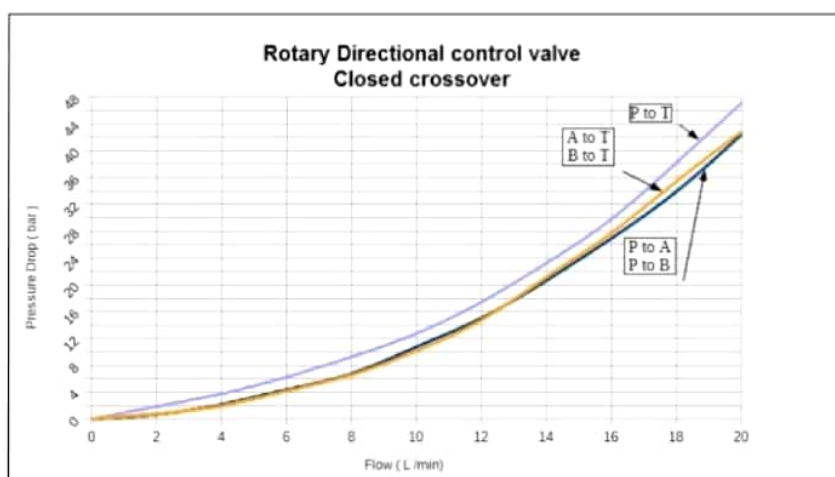
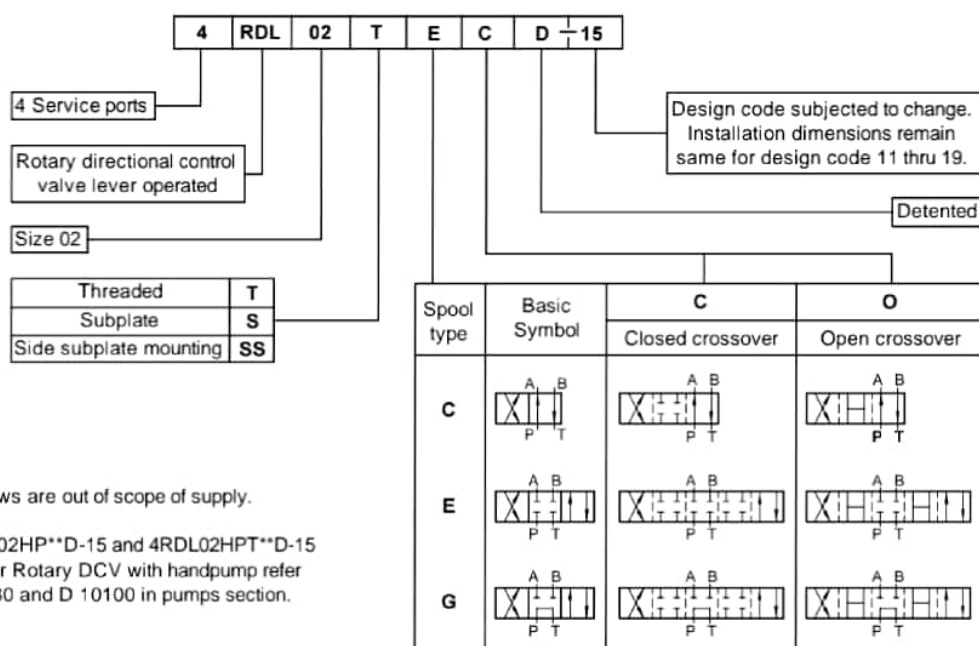
### Side mounting subplate interface (Factory standard)



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 viscosity grade VG 46.

**Ordering code**

All valve fixing Screws are out of scope of supply.

Valve models 4RDL02HP\*\*D-15 and 4RDL02HPT\*\*D-15 are discontinued. For Rotary DCV with handpump refer datasheet no. D10180 and D 10100 in pumps section.