



Description

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

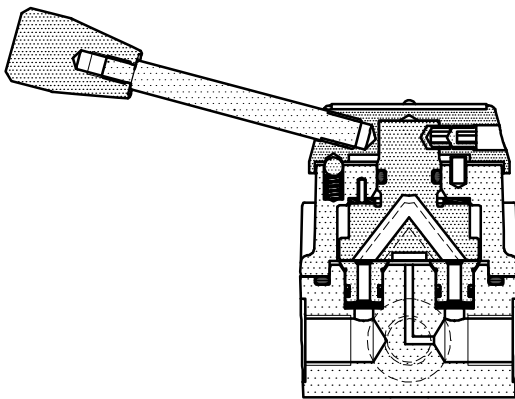
1. Pressures are high
2. Internal leakages in the valve need to be negligible and,
3. Flow handled are very small.

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

Four 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*HP 4RDL02*HPT 4RDL02*SS
	in Kg :	1.5 1.6 1.8 2.0 2.1

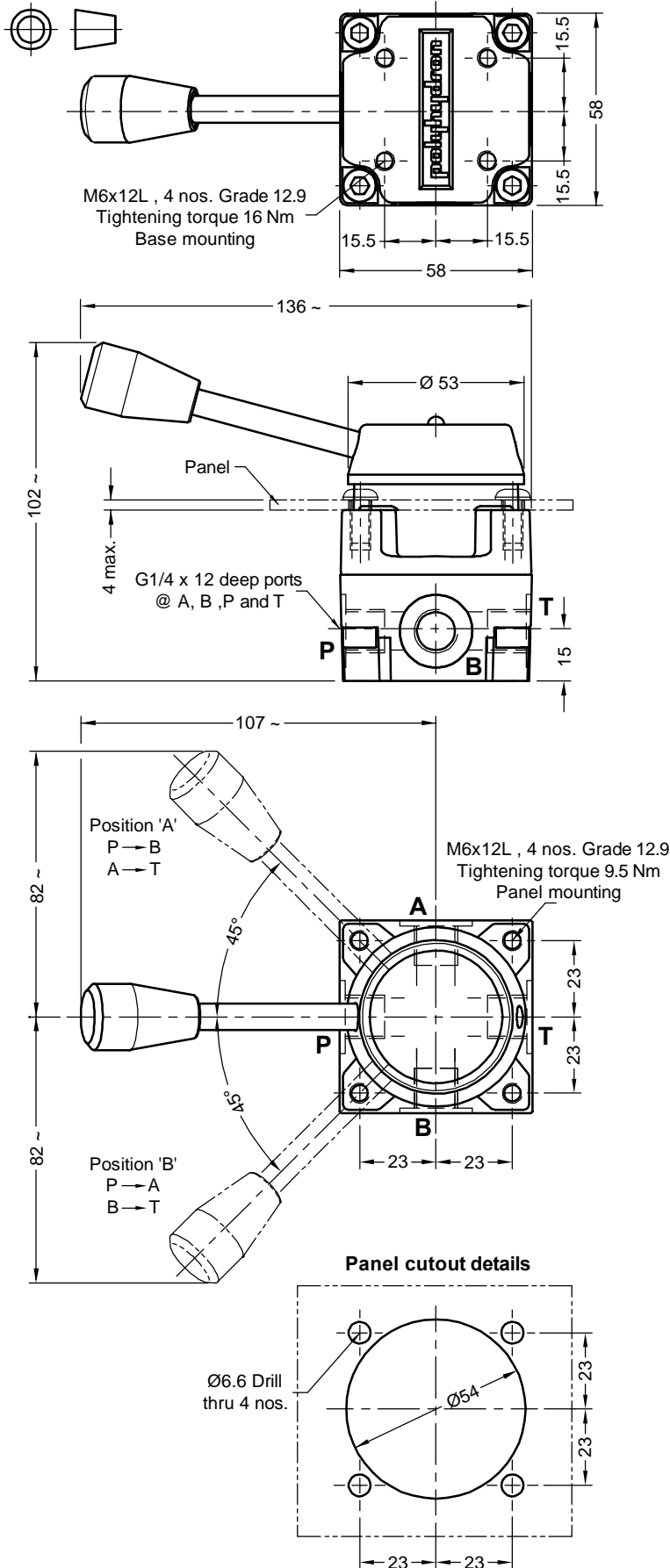
Note : Force required to operate the lever of closed crossover valve under pressure is approximately 150 N at 500 bar.



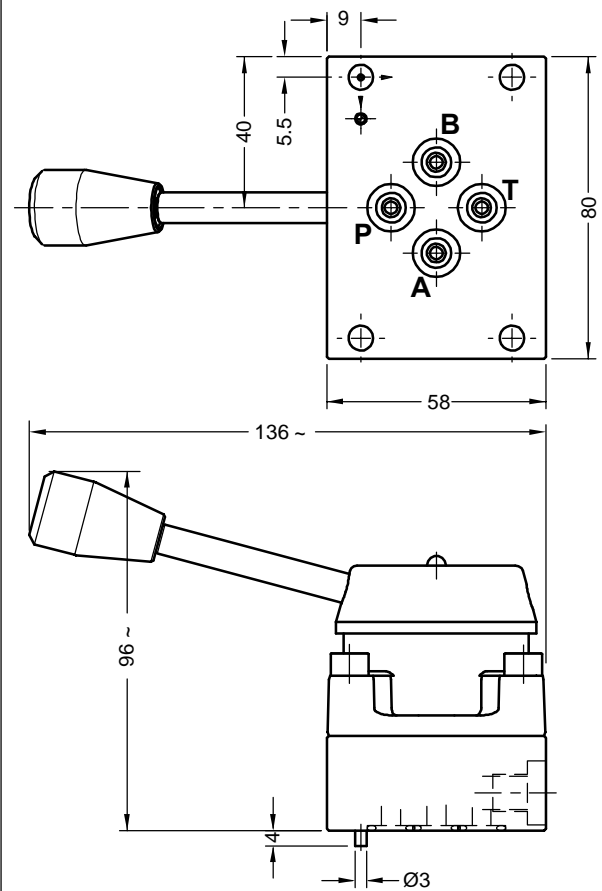
Unit dimensions

Dimensions in mm.

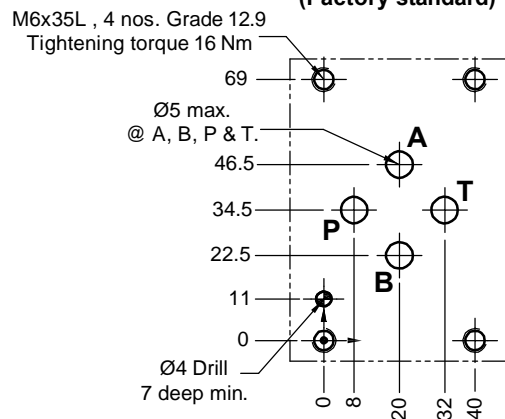
Threaded body



Subplate body



Subplate mounting interface (Factory standard)

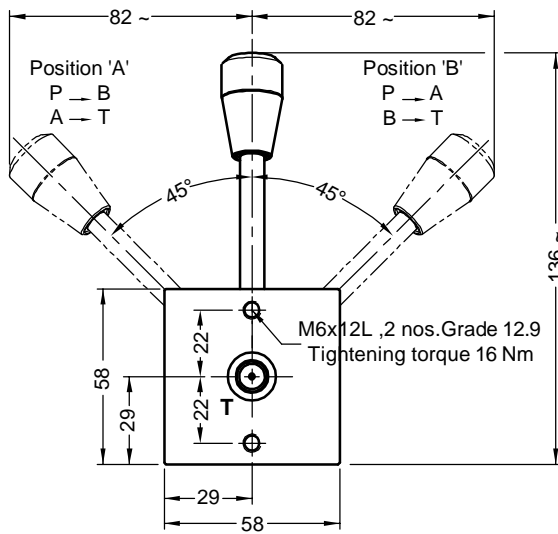




Unit dimensions

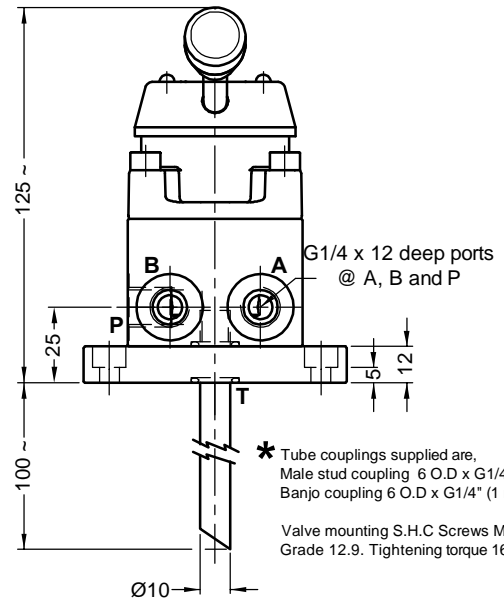
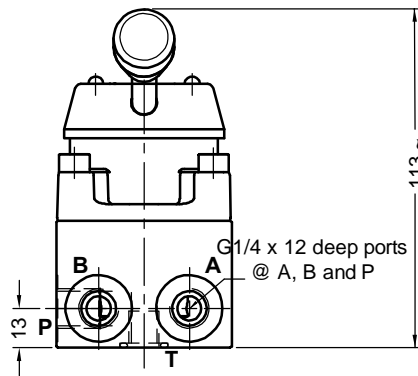
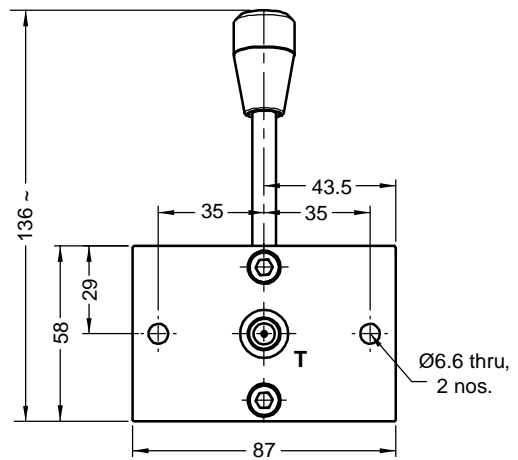
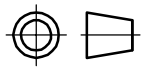
Dimensions in mm.

Hand pump mounting



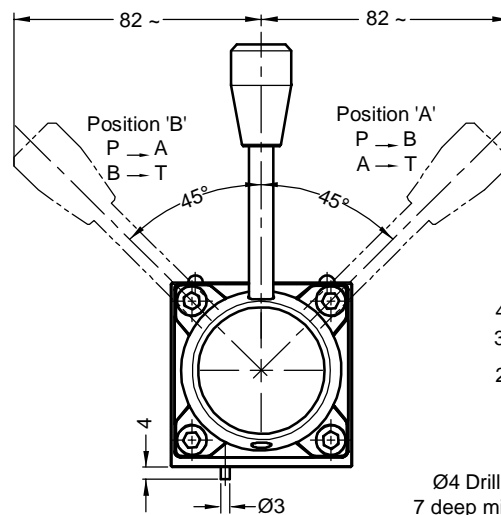
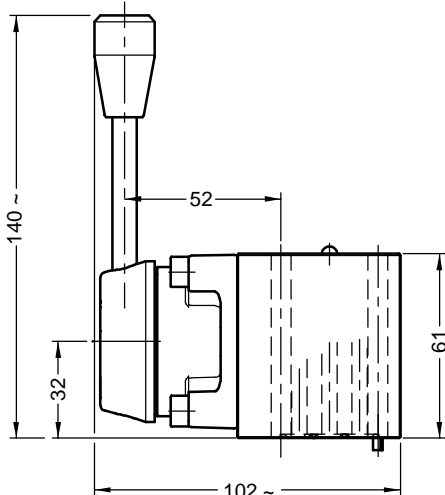
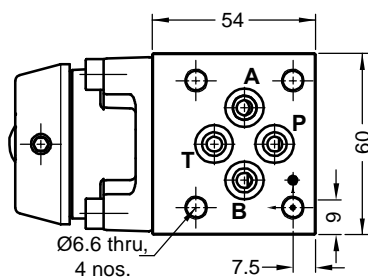
Hand pump mounting with tube couplings*

(For handpump HP5012RT / HP5016RT)



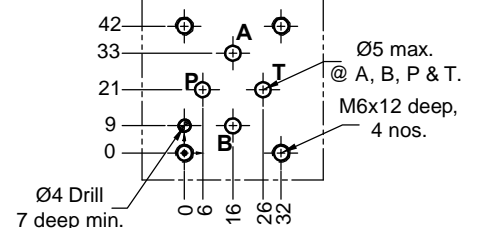
* Tube couplings supplied are,
Male stud coupling 6 O.D x G1/4" (1 nos.).
Banjo coupling 6 O.D x G1/4" (1 nos) .
Valve mounting S.H.C Screws M6x15L (2 nos.)
Grade 12.9. Tightening torque 16 Nm.

Side subplate mounting body



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

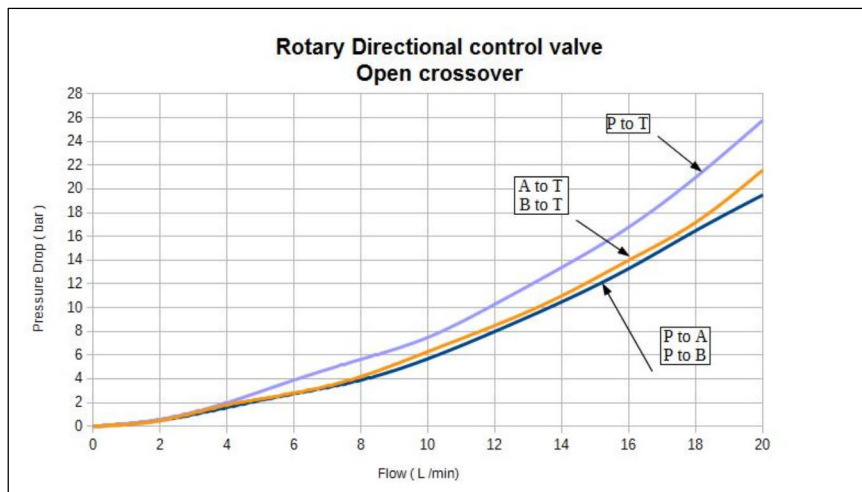
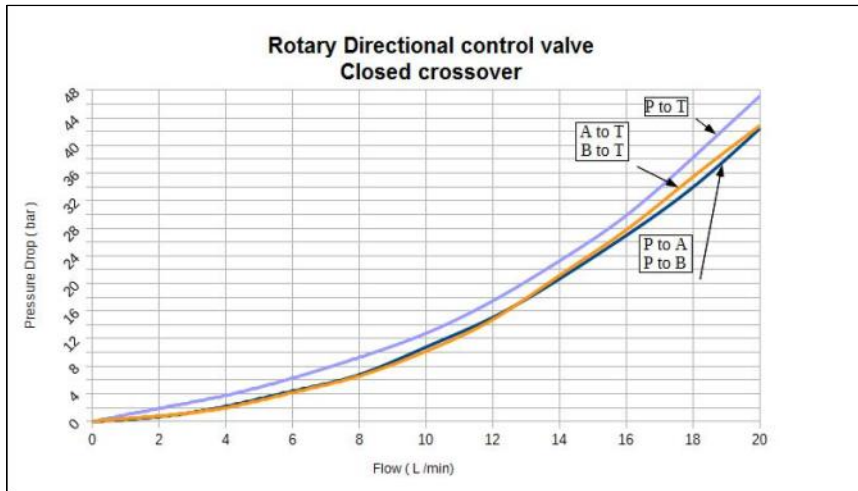
Side mounting subplate interface (Factory standard)





Performance curve

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



Ordering code

4 RDL 02 T E C D 14

4 Service ports

Rotary directional control valve lever operated

Size 02

Threaded	T
Subplate	S
Hand pump mounting	HP
Hand pump mounting with tube couplings	HPT
Side subplate mounting	SS

Design code subjected to change. Installation dimensions remain same for design code 11 thru 19.

Detented

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

All valve fixing Screws are out of scope of supply.