FEED AND POWER HAND PUMP WITH ROTARY DIRECTIONAL CONTROL VALVE
Model : HP5012**D / HP5016**D

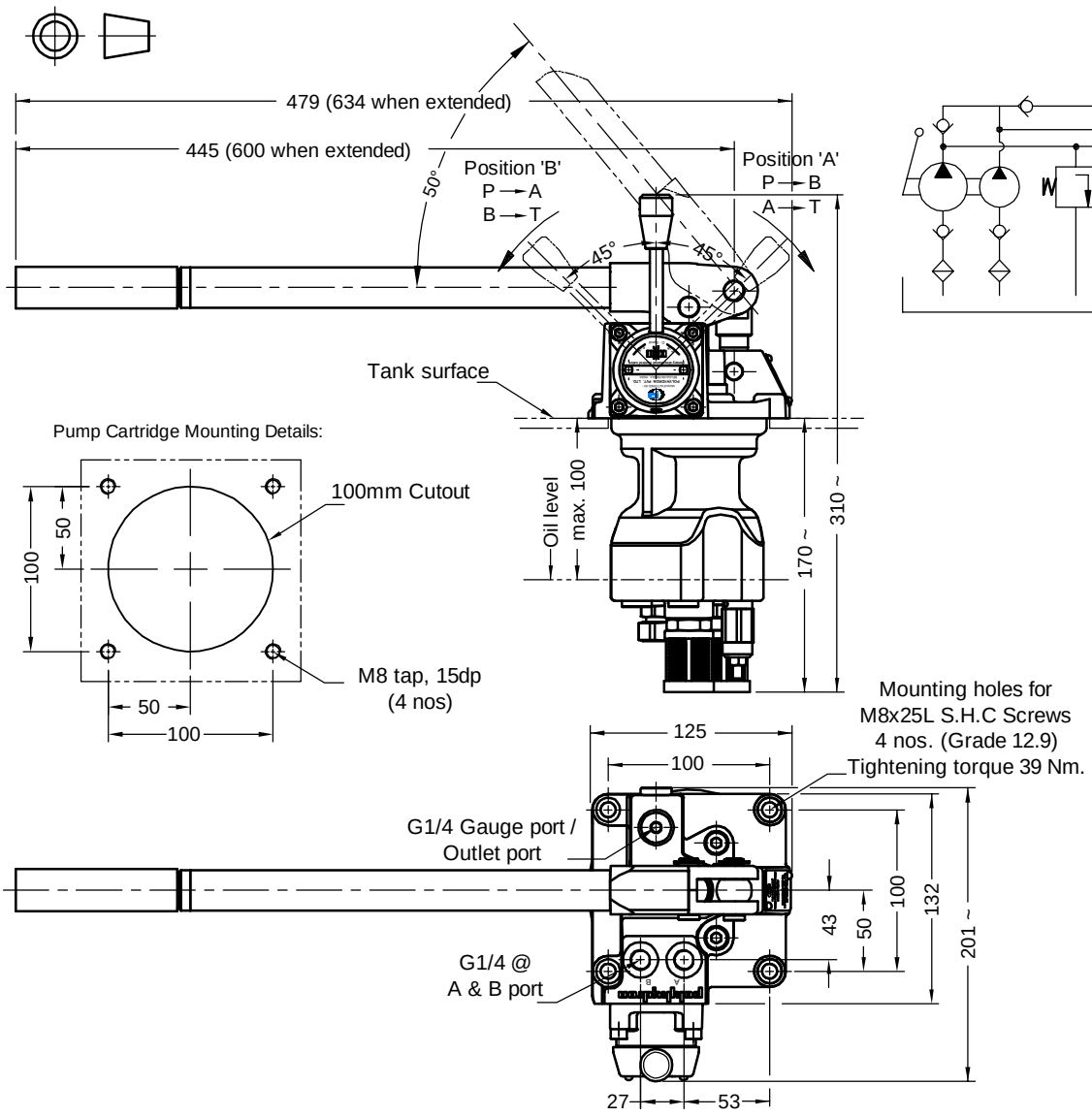
Description

Feed and power hand pumps HP5012-D and HP5016-D are designed for applications where initial travel of the connected Double acting actuator is long and under very low load. The pumps provide considerably high displacement at low pressure (upto 30 bar) , and then automatically changes to low displacement mode upto the rated pressure. Hence, the initial travel of the actuator can be completed rapidly with fewer hand pumps strokes.

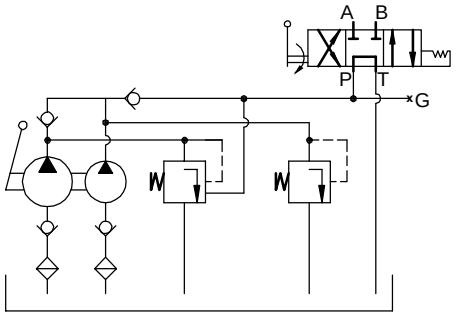
By switching the lever of the Built-in Rotary Directional Control valve, the direction of motion of the connected actuator can be changed. The valve has pressure holding capability.

Unit dimensions

Dimensions in mm.



Hydraulic symbol



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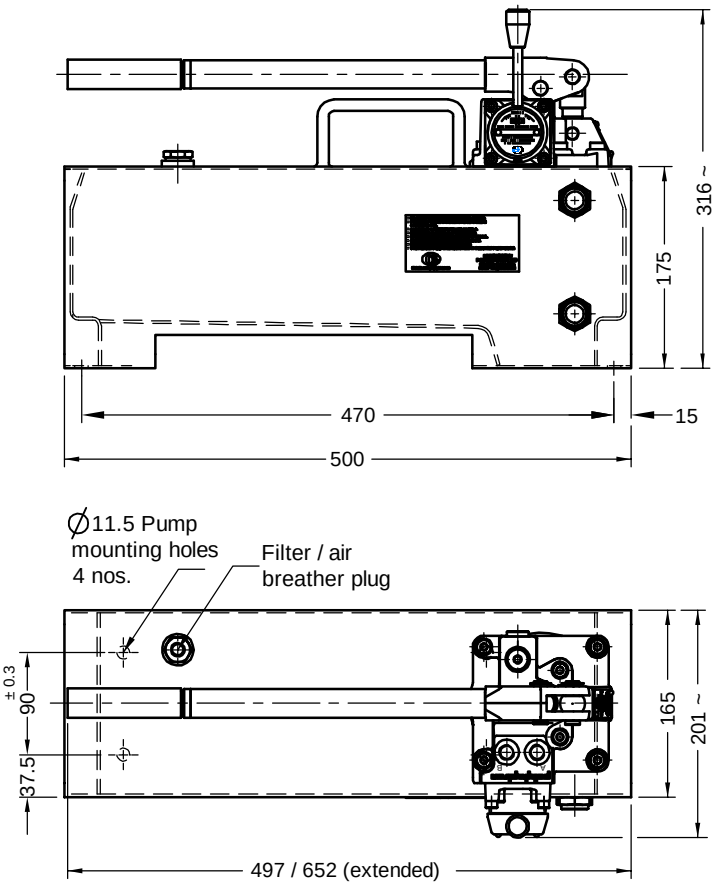
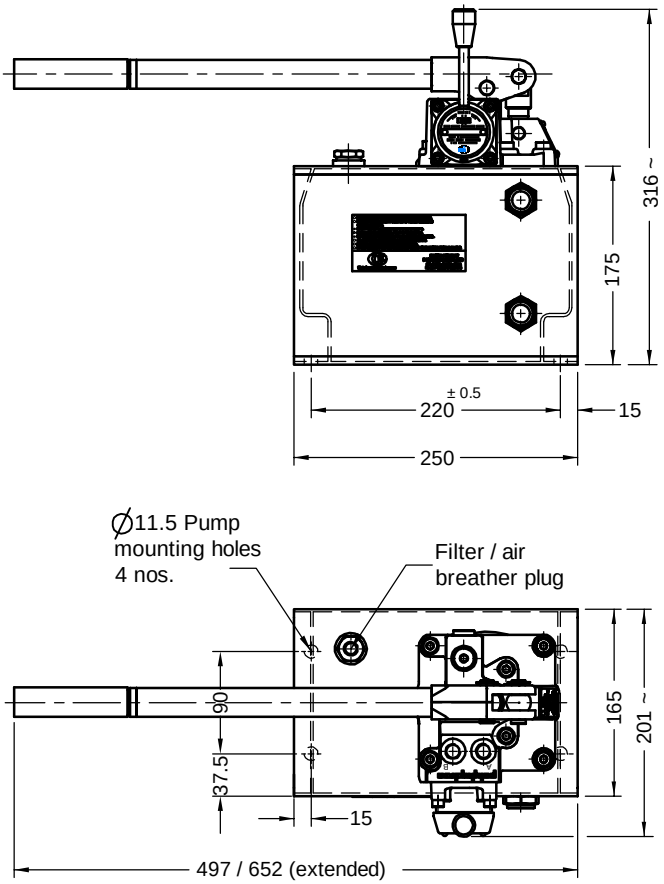
Pump with regular oil tank



Pump with small oil tank



Technical specifications

Construction	:	Differential piston with seated suction and delivery valves and a Rotary Directional Control valve.
Hydraulic medium	:	Mineral oil. (ISO VG68 grade recommended).
Maximum working pressure	:	Refer table no.1
Displacement	:	Refer table no.1
Oil tank capacity and displacement	:	

Specification	Regular tank	Small tank
Oil tank capacity	8.5 lts	5 lts
Oil tank displacement	7.7 lts	4 lts

Force required at the end of the pump			
Hand lever at max. pressure (Approx)	:	Refer table no.1	
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.	
Mass (Approx)	:	Pump cartridge only	10 Kg.
		Pump with regular oil tank (without oil)	18 Kg.
		Pump with small oil tank (without oil)	16.5 Kg.

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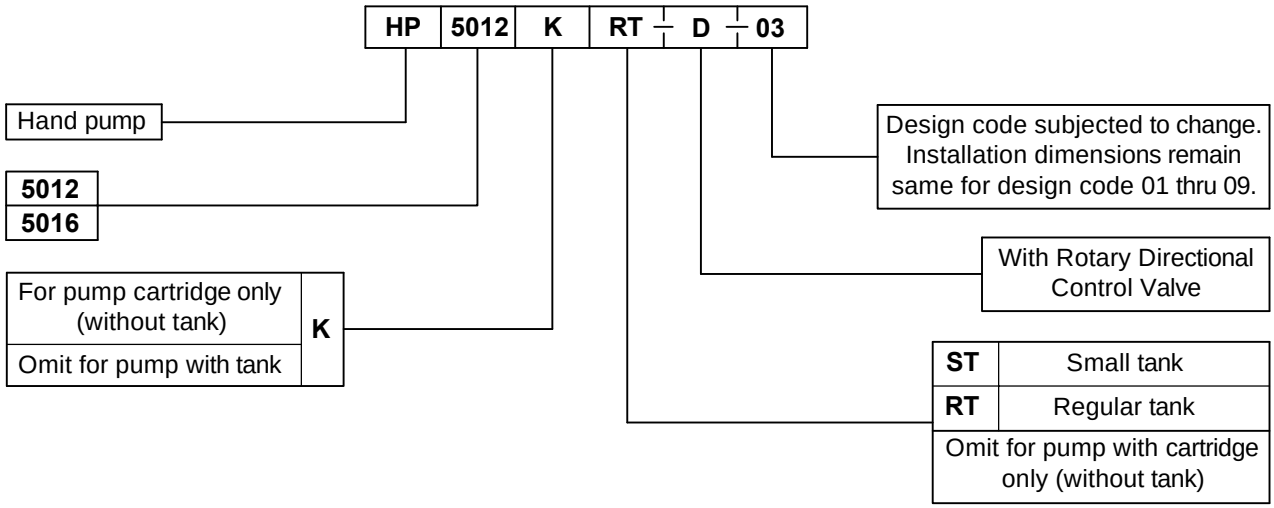
Table no. 1

Specification	Unit	HP5012-D	HP5016-D
Max. Working Pressure	bar	500	350
Pump discharge upto 30 bar	cm^3/stroke	49	49
Pump discharge above 30 bar	cm^3/stroke	2.8	5.0
Approx. hand force required at rated pressure, when the hand lever is fully extended.	N	270	340

Note : Torque required to operate the lever of Rotary DCV under pressure is approximately 14 Nm at 500 bar.

Ordering code



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