A Polyhydron Group Company

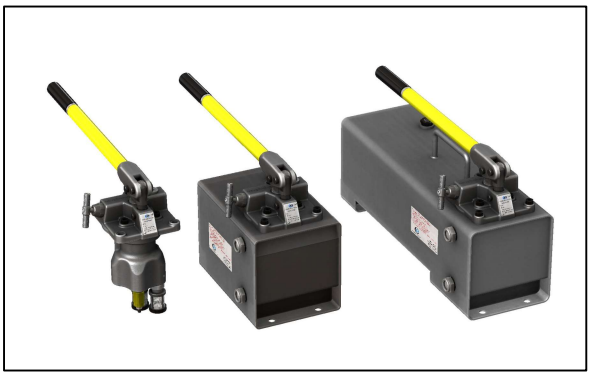
FEED AND POWER HAND PUMP
HP 5012 / HP 5016

Ref. No. D 04911
Release 12 / 2025

Description

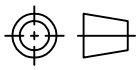
Feed and Power hand pumps are designed for applications where initial travel of the connected actuator is long and under very low load. The pumps provide considerably high displacement at low pressure (upto 30 bar), and then automatically changes to low displacement mode up to the rated pressure. Hence,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

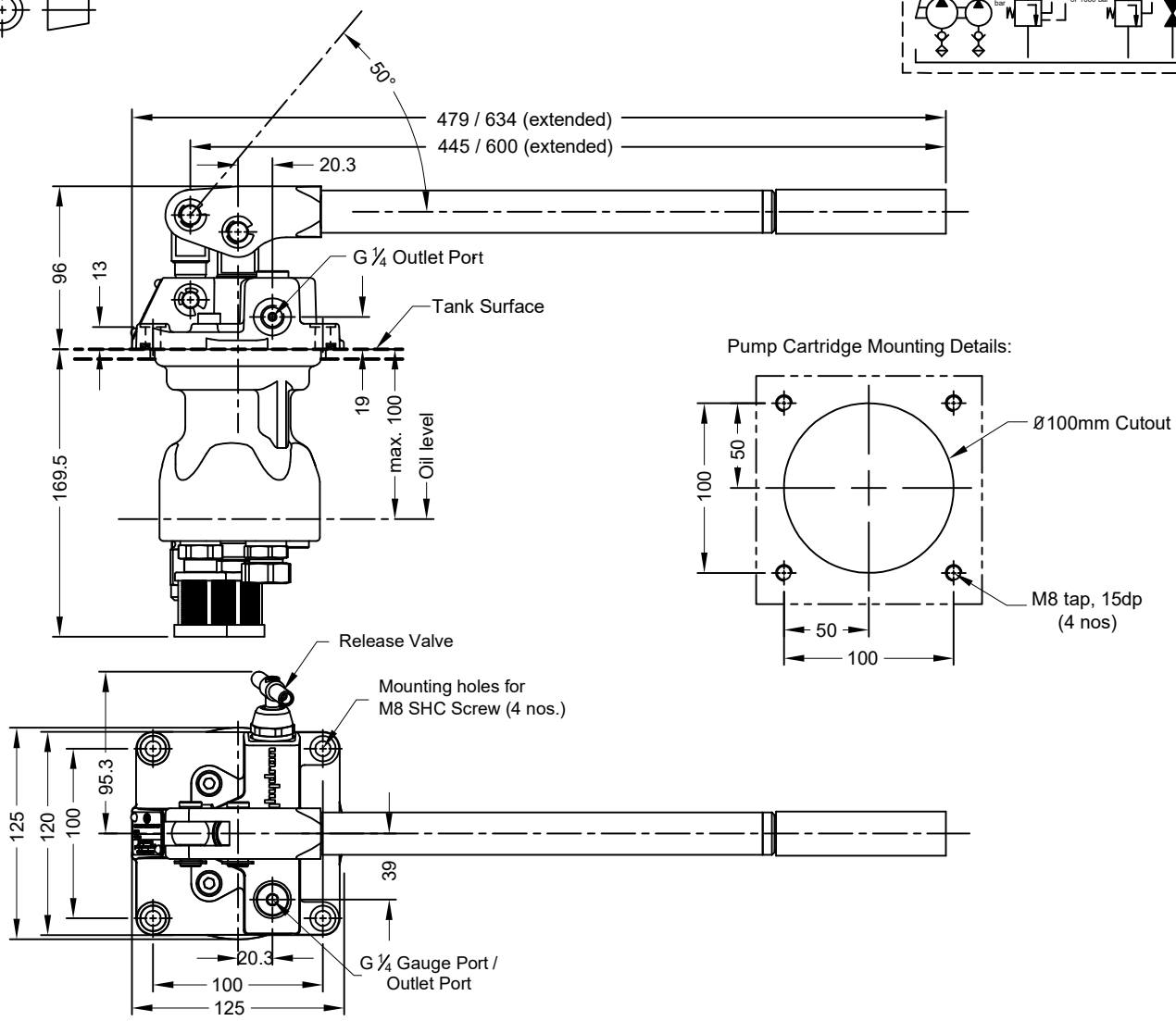
The extendable Hand-lever is meant for the ease of transportation of the pump and reducing the force on the hand at higher pressures.



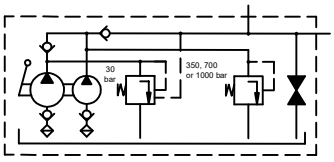
Unit dimensions

Dimensions in mm.





Hydraulic symbol

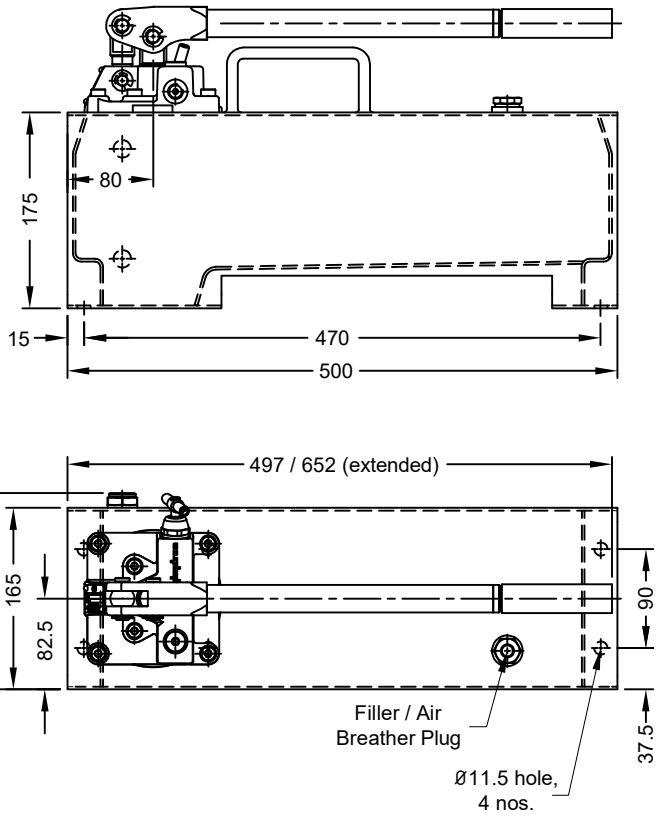


Pump Cartridge Mounting Details:

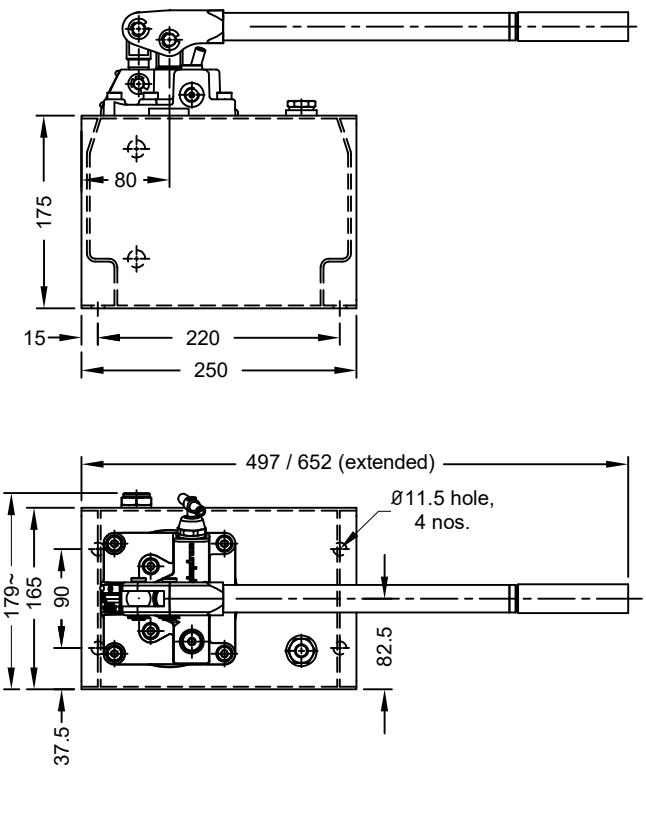
polyhydron pvt. ltd.
78-80, Machhe Industrial Estate,
Machhe, Belgaum - 590 014. INDIA.

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

Pump with Regular oil tank



Pump with Small oil tank



Technical specifications

Construction..... Differential piston with seated suction and delivery valves.
Hydraulic medium..... Mineral oil, (ISO VG 68 Grade recommended)
Maximum working pressure..... Refer Table 1.
Displacement..... Refer Table 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 hand lever at max. pressure..... Refer Table 1.
Viscosity range..... 10cst to 380 cst.
Fluid temperature range..... -20°C to +70°C.
Fluid Cleanliness requirement..... ISO 4406 20/18/15 or better.
Mass..... Pump cartridge only..... 7.8 Kg
Pump with Regular oil tank (Without oil)..... 15.5 Kg
Pump with Small oil tank (without oil)..... 12.4 Kg

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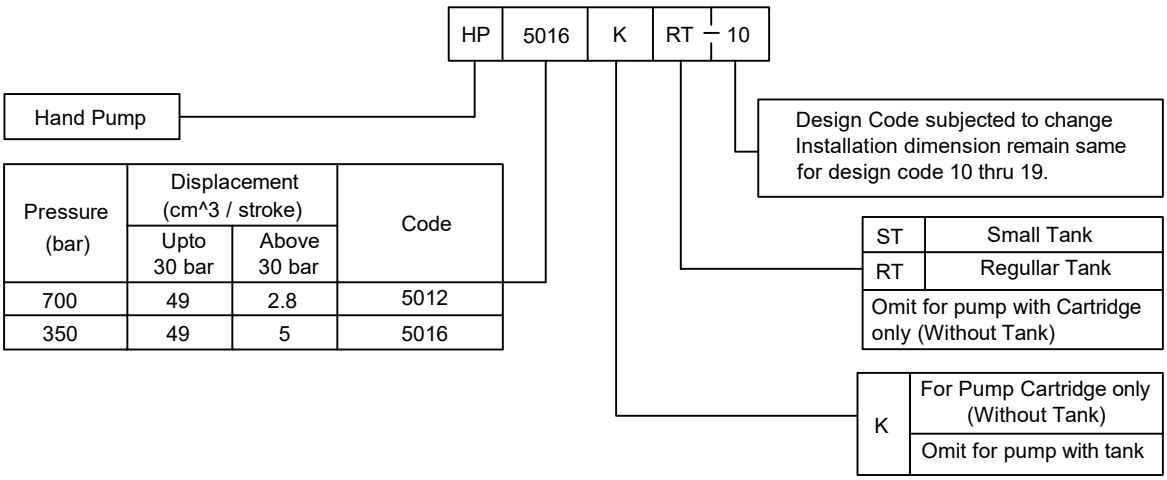
Subject to revision

Table 1.

Specification	Unit	HP5012	HP5016
Max. Working Pre.	bar	700	350
Displacement capacity Upto 30 bar	cm^3 / stroke	49	49
Displacement capacity Above 30 bar	cm^3 / stroke	2.8	5
Approx. hand force required at rated pressure, when the hand lever is fully extended.	N	385	340

Ordering code



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