



Air Driven Pump

**Part No. 1132300
(without manifold
& D.C. Valve)**



Air Driven Pump is self-reciprocating hydropneumatic intensifier. Hydropneumatic Intensifier is suitable only for single acting elements. Air Driven Pump is more suitable for double acting elements.

Principle

Oil pressure is intensified due to the area ratio of air piston & oil piston. As the air piston moves towards the end position, pressurized air input is diverted & is used for pilot operated pneumatic direction control valve. Due to this arrangement, air piston is reversed at both ends. Hence this system is self-reciprocating & acts as pump. Two check valves are used in suction & delivery line.

Operation

Clean & lubricated air is connected to "Hy-Power" air driven pump. Pump reciprocates to give oil output till full pressure is reached. By changing hydraulic direction control valve position, pump reciprocates to operate cylinder till full pressure is reached. In case of oil leakage & pressure drop, pump operates to compensate the pressure drop.

Advantages

Pressure holding without consuming power.
No heat builds up.
Adjustable oil output flow & pressure.
Can be driven by any inert gas.
Built in tank & Optional CETOP 3 interface.

Applications

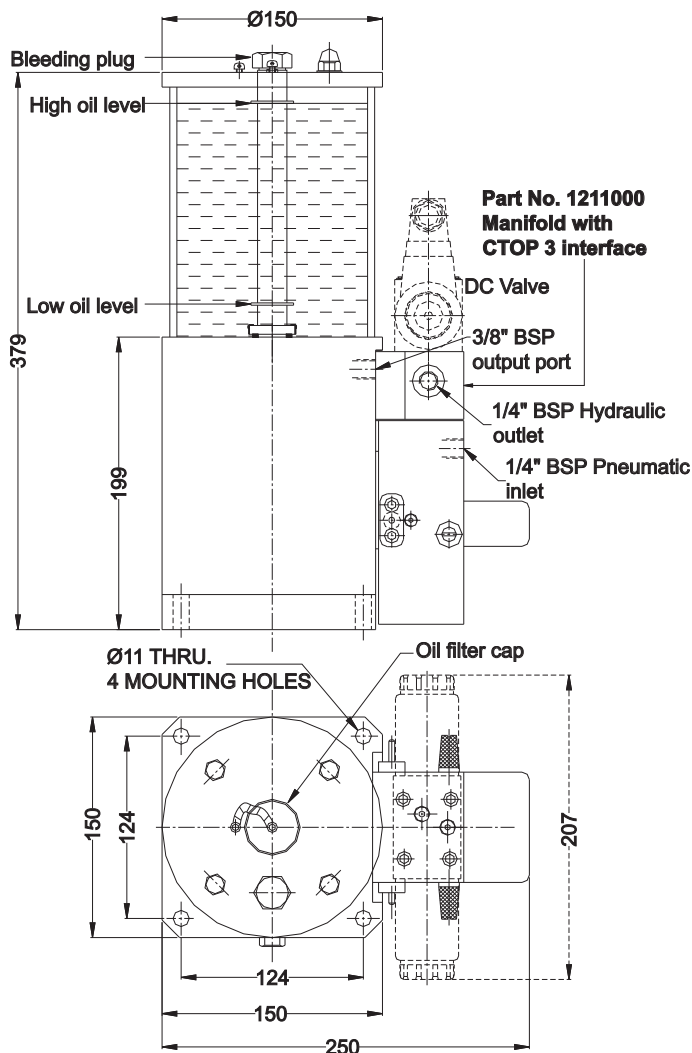
"Hy Power" air driven pump is a good replacement to electric power unit. It is more suitable for clamping / holding application. E.g. Job clamping by double acting elements in fixtures. Die clamping cylinders & die lifters.

Specifications

Intensification: 1:32
Oil output flow: 2.2 lpm Max. @ 6 bar Air Pressure
Tank capacity: 2 lit.
Input ports: 1/4" BSP. (Pneumatic)
Output ports :3/8" BSP. P/T lines (Hydraulic)
Manifold (Optional)
Interface : CETOP 3
Output ports : 1/4" BSP.

Note

- ◆ This pump is more suitable for double acting element or single acting load return element & should not be used for single acting spring return elements.
- ◆ Manifold has to be ordered separately.
- ◆ **Inlet air has to be lubricated.**
- ◆ For ordering the seal kit, add the prefix "S" to the part number.



All dimensions are in mm
Overall dimension tolerance ± 0.5 mm