

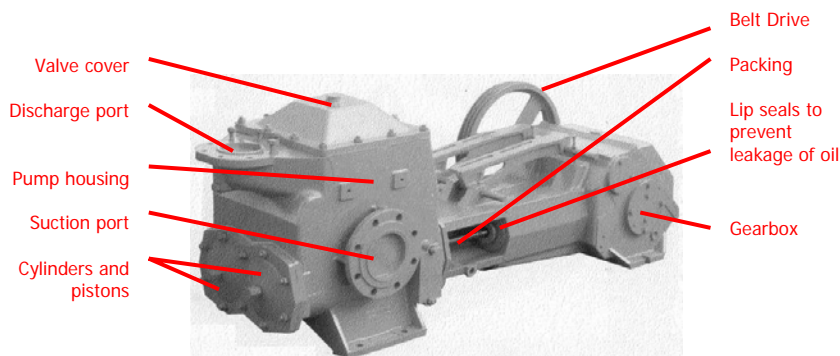
6" Piston Wellpoint Pump

6PW-DHSC-1D81Z-SK

Thompson's Piston Wellpoint Pump combines excellent fuel efficiency and a sound attenuated package for use in wellpoint and sock dewatering applications. The 6PW-DHSC-1D81Z-SK can operate for more than one week without refueling-consuming a maximum of twelve gallons of fuel per day. The sound-attenuated enclosure reduces sound levels to 64 dB(A) @ 23-feet.

Features

- Standard engine – Hatz 1D81Z
- Discharge head of 66 feet
- Maximum flows to 396 gpm
- Self-priming, positive displacement pump
- Operates unattended; can run dry for extended periods of time
- Maximum operating time is 95 hours @ 1,750 rpm
- High air-handling capability: 40 CFM
- Up to 92% efficiency
- Robust construction for durability
- On-board stone catcher to protect the internal pump housing
- Double-sealing piston rod prevents oil leakage
- Parts are lasting and inexpensive to replace



Applications

- Wellpoint dewatering
- Underdrain sock dewatering
- Acceptable to all soil conditions
- Filtered water transfer
- Remediation and reclamation

Working Principle

The double acting piston pump converts the pulley's rotational energy to linear motion via two conically milled gears that are mounted on either side of the crankshaft. A vacuum is created inside the cylinders from the motion of the pistons.

On the piston upstroke, the suction valve opens and the delivery valve closes allowing water to be drawn into the cylinder. On the down stroke, the piston's force causes the suction valve to close and the delivery valve to open forcing the fluid in the cylinder out through the discharge.

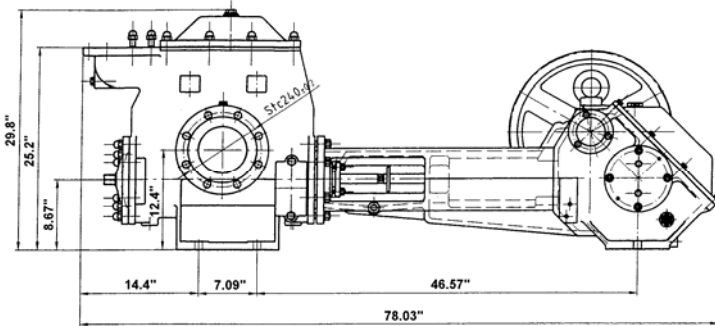
The double-sealing piston rod prevents environmental oil leakage and water from entering the drive. Packing is installed along the shaft to prevent leakage of fluid from the cylinders.



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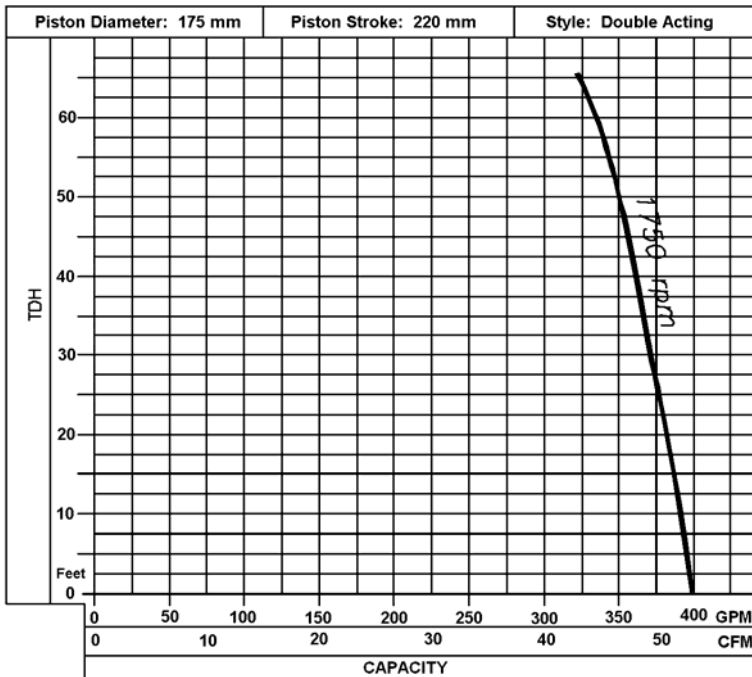
6PW-DHSC-1D81Z-SK Dimensions



Materials of Construction

- Type:** Positive displacement, self-priming, double acting piston
- Casing:** Rugged, heavy-duty class 30 cast-iron
- Cylinder:** Stainless Steel
- Piston:** Leather
- Piston Diameter:** 175mm
- Covers:** Cast iron
- Suction & Discharge Tank:** Galvanized steel with stone catcher on suction side
- Crankshaft:** Forged steel
- Spring Cup:** Brass
- Gears:** Oil lubricated, hardened steel

6PW-DHSC-1D81Z-SK Performance Curve



Engine Specifications

- Engine:** Hatz 1D81Z
- Type:** 1-cylinder, in-line, 4-cycle, direct-injected, Tier I diesel.
- Standard Equipment:** Alternator, encapsulated muffler
- Displacement:** 40.7 cubic inches
- Fuel Economy:** .378 lb/hp-hr @ 1,750 rpm
- Safety Shutdowns:** Low oil pressure; High coolant temperature

Unit Specifications

- Fuel Tank Capacity:** 48 US gallons
- Fuel Consumption:** 0.496 gph
- Maximum Operating Speed:** 1,750 rpm
- Maximum Operating Temperature:** 212°F
- Maximum Working Pressure:** 28.5 psi
- Maximum Suction Pressure:** 12.78 psi
- Maximum Casing Pressure:** 45 psi

In the interest of product improvement, Thompson Pump & Manufacturing reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold. Capacity, Head and Pump Curve are for comparative purposes. Consult engineering data for exact capabilities.
4620 City Center Drive, Port Orange, FL, 32129, USA (800) 767-7310 * Fax (386) 761-0362
Email: sales@thompsonpump.com * www.thompsonpump.com

