

## Special Pump-Double Acting Pump

Double Acting Pump designed and developed by Weima is used for well with high reservoir pressure and sufficient liquid supply, especially those where conventional pumps cannot meet the displacement requirements.

Characteristics:

1. There are two pump cavities in the pump structure, which can complete two drawings and two discharges of crude oil in one reciprocating stroke of the plunger, thereby greatly improving the liquid production rate compared with the pumps with the same diameter and working parameters.
2. The rod has a large downward resistance, and it is not suitable for wells with excessive crude oil viscosity or severe sand production.
3. The plunger cannot lift out from the barrel, the tubing needs to be lifted when do pump inspection, and it needs to be equipped with a on-off tool. The selection of fittings materials, various heat treatment processes and surface treatment processes can be applied to meet the requirements of well conditions for product strength, corrosion resistance and wear resistance.

### Product Specification:

Tubing Size	3-1/2"	3-1/2"
Pump Diameter	3-1/4"	3-3/4"
Max OD of pump	4.500"	4.500"
Code	30-325THDP	40-375THDP

### Displacement:

The calculation formula of displacement is as follows:

$$P = C \times S \times N$$

$P$  : Daily displacement, BPD;

$S$  : Stroke length, in;

$N$  : Frequency of strokes per minute, times/min;

$C$  : Pump constant, as follows:

Pump Diameter	3-1/4"	3-3/4"
Pump Constant	2.095	2.921

