

Special Pump - Large Diameter Pump

The large diameter pump designed and developed by Weima is to design the oversized pump for a given casing size well. The outer diameter of the plunger shall be larger than the inner hole of the tubing. Generally, a large-size tubing is connected to the pump to meet the plunger stroke. In addition, the plunger cannot go down through the tubing, so the entire pump body needs to go down the well with the tubing, then the plunger is connected with the sucker rod by using the on-off tool. For the tubing drain operation, it can choose oil drain above pump or oil drain valve.

Characteristics:

1. In a given casing size well, a large diameter pump can be operated to increase the production of the well;

2. Lifting tubing job is required for maintenance;

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	2-3/8"	2-7/8"	3-1/2"	3-1/2"
Pump Diameter	2-1/4"	2-3/4"	3-1/4"	3-3/4"
Barrel OD	2.750"	3.250"	3.750"	4.500"
Sucker Rod thread	3/4"	7/8"	7/8"	7/8"
Connecting Tubing Thread	2-3/8"-8EU	2-7/8"-8EU	3-1/2"-8EU	3-1/2"-8EU
Code	20-225OTP	25-275OTP	30-325OTP	30-375OTP

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	2-1/4"	2-3/4"	3-1/4"	3-3/4"
Pump Constant	0.590	0.881	1.231	1.639

