

抽油泵

SUBSURFACE SUCKER ROD PUMPS

管式抽油泵 TUBING PUMPS

管式抽油泵的下入过程是：泵筒随着油管下到预定深度，柱塞与抽油杆连接下入泵筒。在油管尺寸相同的情况下，可以安装的管式泵比杆式泵大。管式泵结构简单，适用于下泵深度不大、产量较高的油井。

管式抽油泵有固定阀不可拔式（THD）和可拔式（THC、THM）两种。固定阀可拔式管式泵的固定阀由机械或皮碗支撑装置固定并进行密封，在检泵作业时，可以不用起出油管，直接将柱塞和固定阀同时提出。适用于检泵周期短的油井。

The tubing pumps can be sunk into wells in sequence as follows: barrel is run down to the setting depth on the tubing and then plunger with the standing valve on the rod string. For tubing of same diameter, tubing pumps are always of larger capacity than insert pumps. The tubing pump is simple in structure and applicable for wells not too deep and of higher production rate.

Tubing pumps are classified as THD pumps and THC or THM pumps. The standing valve of THC or THM pump can be hold and sealed by a mechanical or cup hold-down. Plunger together with standing valve can be lifted out integrally for normal pump check, with the tubing remain intact. This makes the tubing pumps suitable for wells usually with short pump check intervals.

管式抽油泵参数

Specifications for Tubing Pumps

型号 Model	公称直径, mm Nominal Dia. (in)	柱塞长度, m Plunger Length (ft)	冲程, m Stroke	泵常数, m ³ /d Pump Constant	连接油管螺纹, in Tubing and Thread	连接抽油杆, in Sucker Rod
20-125TH	32(1.25)	1.2-1.8(4-6)	0.6-7.3	1.14	2 3/8	3/4
25-125TH	32(1.25)		0.6-7.3	1.14	2 7/8	3/4
20-150TH	38(1.50)		0.6-7.3	1.64	2 3/8	3/4
25-150TH	38(1.50)		0.6-7.3	1.64	2 7/8	3/4
20-175TH	44(1.75)		0.6-7.3	2.24	2 3/8	3/4
25-175TH	44(1.75)		0.6-7.3	2.24	2 7/8	3/4
25-200TH	50(2.00)		0.6-7.3	2.92	2 7/8	3/4
25-225TH	57(2.25)		0.6-7.3	3.69	2 7/8	3/4
30-250TH	63(2.50)		0.6-7.3	4.56	3 1/2	7/8
30-275TH	70(2.75)		0.6-7.3	5.50	3 1/2	7/8
30-325TH	83(3.25)		0.6-7.3	7.70	4	7/8
40-375TH	95(3.75)		0.6-7.3	10.26	4 1/2	1

