

Subsurface Pump

Applied in sucker-rod pumping work on the positive displacement principle, [subsurface pump](#) is of the cylinder and piston type. Their basic parts are the working barrel (cylinder), the plunger (piston), and two ball valves. The valve affixed to the working barrel serves as a suction valve and is called the standing valve. The other valve, contained in the plunger, serves as a discharge valve and is called the traveling valve. These valves operate like check valves and their opening and closing during the alternating movement of the plunger provides a means to displace well fluids to the surface.

General Features



CYB series Subsurface Pump (Sucker Rod Pump) including traveling barrel bottom anchor rod pump, stationary heavy wall barrel bottom anchor rod pump and stationary heavy wall barrel top anchor rod pump. Suitable for onshore oil production.

Details

The CYB series subsurface pumps (sucker rod pump) were developed to provide the market with more reliable technology and more hoisting performance. Pump can be assembled and connected to the lower end of the sucker rod on the ground, run into the well as a unit, and fixed in the tubing by seating nipple pre-fitted in the tubing at the required depth (pump setting depth). The work-over operation time for a rod pump well is much shorter than a tubing pump well by at least 50%. Included but not limited by the advantages mentioned, CYB series subsurface pumps (sucker rod pump) might be your best choice.

General Features

- Suitable for cold area and desert environment
- Suitable for onshore oil production
- Multiple type for selection
- Featured with high reliability, easy to operate and long service life

Main aramaters

Norminal Pump Bore: 1-1/4" – 3-3/4" (31.75 mm – 95.25 mm)

Parameters:

Stationary Barrel Bottom Anchor Rod Pump

Type	Nominal Pump Bore (in)	Plunger Length (ft)	Max. O.D. (mm)	Rod (in)	Tubing (in)	Pump Constant (m ³ /d)	Stroke (m)
CYB112BC	1. 12	39, 178	46. 7	39, 145	2. 375	0. 92	≤7. 5
CYB112BM			44. 7				
CYB125BC	1. 25		47. 5	39, 145	2. 375	1. 14	
CYB125BM			44. 7				
CYB150BC	1. 5		59. 5	39, 145	2. 875	1. 64	
CYB150BM			55. 6				
CYB175BC	1. 75		59. 5	39, 145	2. 875	2. 24	
CYB175BM			55. 6				
CYB225BC	2. 25		72. 1	39, 145	3. 5	3. 69	
CYB225BM			71. 7				

Stationary Barrel Top Anchor Rod Pump

Type	Nominal Pump Bore (in)	Plunger Length (ft)	Max. O.D. (mm)	Rod (in)	Tubing (in)	Pump Constant (m ³ /d)	Stroke (m)
CYB112AC	1. 12	39, 178	46. 7	39, 145	2. 375	0. 92	≤7. 5
CYB112AM			47. 6				
CYB125AC	1. 25		47. 5	39, 145	2. 375	1. 14	
CYB125AM			50. 2				
CYB150AC	1. 5		59. 4	39, 145	2. 875	1. 64	
CYB150AM			59. 5				
CYB175AC	1. 75		59. 5	39, 145	2. 875	2. 24	
CYB175AM			59. 5				
CYB225AC	2. 25		72. 1	39, 145	3. 5	3. 69	
CYB225AM			74. 6				

Traveling Barrel Bottom Anchor Rod Pump

Type	Nominal Pump Bore (in)	Plunger Length (ft)	Max. O.D. (mm)	Rod (in)	Tubing (in)	Pump Constant (m ³ /d)	Stroke (m)
CYB125TC	1.25	39, 178	46.7	39, 145	2.375	1.14	≤7.5
CYB125TM			44.7				
CYB150TC	1.5		59.4	39, 145	2.875	1.64	
CYB150TM			59				
CYB175TC	1.75		59.4	39, 145	2.875	2.24	
CYB175TM			59				
CYB225TC	2.25		72.1	39, 145	3.5	3.69	
CYB225TM			71.7				