Schlumberger

THB API Tubing Pumps

THBC and THBM standard sucker rod pumps

APPLICATIONS

- High fluid production
- Shallow- to moderate-depth wells

ADVANTAGES

- Accommodates higher fluid volumes than insert pumps
- Largest bore rod pump
- Heavy-walled barrel
- Bottom hold-down
- Universally accepted design

THB API tubing pumps are heavy-walled, stationary barrel, bottom hold-down pumps recognized by API as a standard design. They are often used in shallow wells that produce more fluid than an insert rod pump can accommodate, yet not enough fluid to make an ESP cost effective. Unlike insert pumps, the working barrel of these pumps is a section of the tubing string, which enables them to displace more fluid than insert pumps. The hold-down is an independent piece that is typically inserted in the assembly prior to field delivery. The traveling assembly is installed on the end of the sucker rod string. Tubing pumps include a mechanism on the bottom end of the traveling assembly to retrieve the hold-down assembly should the valve require repair.

Seating options on this pump include cup types suitable for high temperatures and mechanical types for simplified well maintenance. A mechanical hold-down does not require repair unless major damage has occurred, and cups should be replaced every time the pump is unset. Both hold-down types follow the same procedure of setting and unsetting by placing the weight of the sucker rods down on the pump or by lifting up.

Enhance operational flexibility and extend the life of your rod lift system

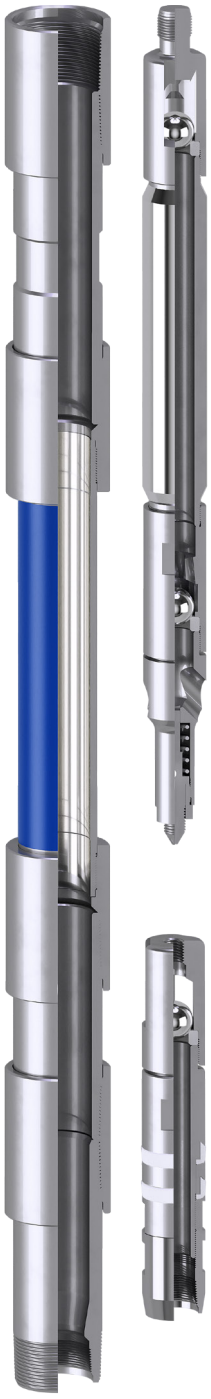
Schlumberger offers a range of tools and specialty products engineered to address common problems such as rodstring wear and damage due to gas interference, erosion, or insufficient fluid levels. These products provide greater flexibility during operations and can extend the life of the rod lift system.

Sand specialty products

- Direct solids away from the pump barrel, maintain downhole pump integrity, and extend run life with the sand diverter.

PumpTrak system

- Continuously improve operations with the PumpTrak* web-based pump service tracking system, which serves as a repository of detailed service information including service history, installation and pull date, days in use, and failure and cost analysis.
- Track why and how a failure occurred with insights into well properties and actively address its existing challenges by replacing the pump with a fit-for-purpose solution.
- Easily export reports to Excel®, view high-resolution photographs and cost information in real time, review supply and tubing anchor tickets, and download dynamometer and fluid level reports.



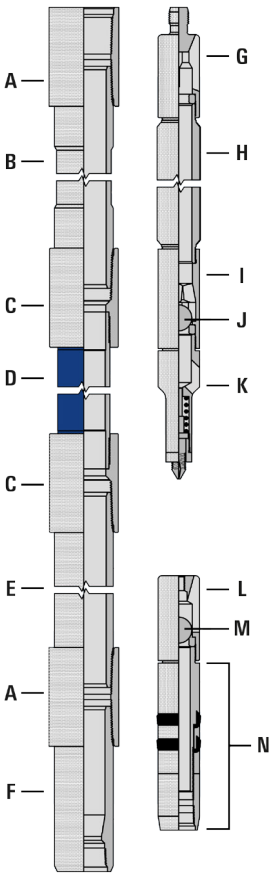
THB API tubing pump.

THB API Tubing Pumps

Stationary-Barrel, Bottom-Anchor, Cup-Type Hold-Down

			Tubing × Pump Bore Size, in			
			2⅜ × 1¾	2⅞ × 2¼	3½ × 2¾	4½ × 3¾
Description	**Item**	**Req.**	**Part Number**			
Stationary Assembly						
Coupling, tubing 8 round	A	2	05B20	05B21	05B22	05B23
Nipple, upper extension tubing pump	B	1	NE212	NE312	NE412	NE412
Coupling, barrel	C	2	CB11	CB21	CB31	CB31
Barrel, heavy wall	D		BT1016C	BT1516C	BT1716C	BT1716C
Nipple, lower extension tubing pump	E	1	NE222	NE322	NE422	NE422
Nipple, seating (2-cup)	F		80SN3	80SN4	80SN5	80SN6
Traveling Assembly						
Cage, top open	G		CF440-1	CF640-1	CF840-1	CF1040-3
Plunger	H		P414-3	P714-3	P914-3	P1114-3
Cage, closed plunger	I	1	CF41	CF61	CF81	CF101
Valve, ball and seat	J		047 + 04	049 + 06	051 + 07	054 + 09
Puller, standing valve (pin end)	K		SP20	SP30	SP40	SP60
Seating Assembly						
Cage, open standing valve	L		CF45	CF65	CF85	CF1050
Valve, ball and seat	M	1	047 + 04	049 + 06	051 + 07	054 + 09
API, 2-cup†	N		HM43	HM53	HM63	HM73

Barrel, barrel extensions, plunger, and valve rod must all be specified in length
All components may be specified by material and coating type.
†API mechanical type seating assembly also available.



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