

## Oil Lift Rod Lock – BOP

### Oil Lift Rod Lock

The patented rod lock Composite Pumping Tee (CPT) allows for safe and secure surface equipment servicing without the need for a work-over rig. The rod lock can suspend the polished rod and complete rod string while safely isolating tubing pressure in the well. Stuffing box service, belt replacement and even drive removal is made much safer. Rod Pump Stuffing box repair and stroke length changes are made simple and safe.

#### Applications

With the industry's widest variety of configurations and models available, each is specifically engineered to address problematic well conditions. Oil Lift offers rod locks for any application – regardless of site characteristics.

- Typical PC Pump and Rod Pump Applications
- Sandy or Heavy Oil Wells
- High Pressure Environments

#### Key Features

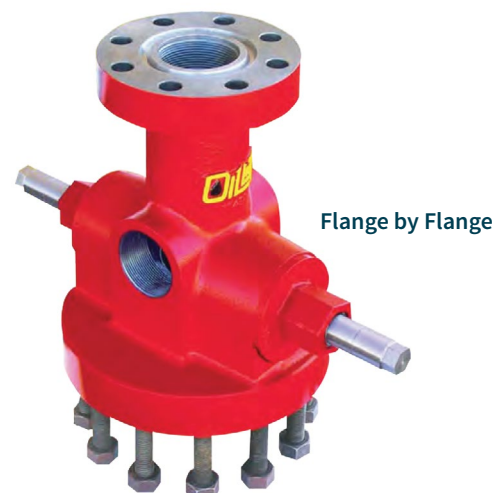
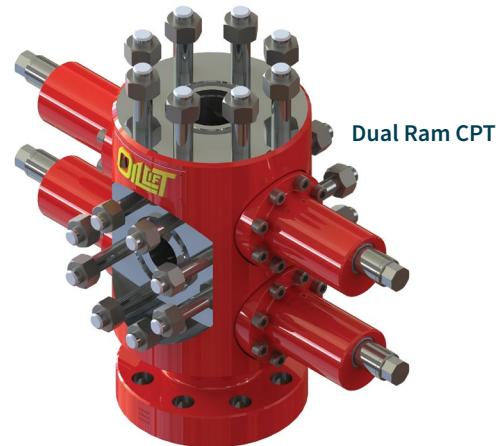
- Service a stuffing box or drive head on a live well without gas or liquid leakage
- Perform service and maintenance using only hand tools, reducing equipment costs
- Stuffing box repairs, surface equipment maintenance, polish rod position changes are made simple and safe

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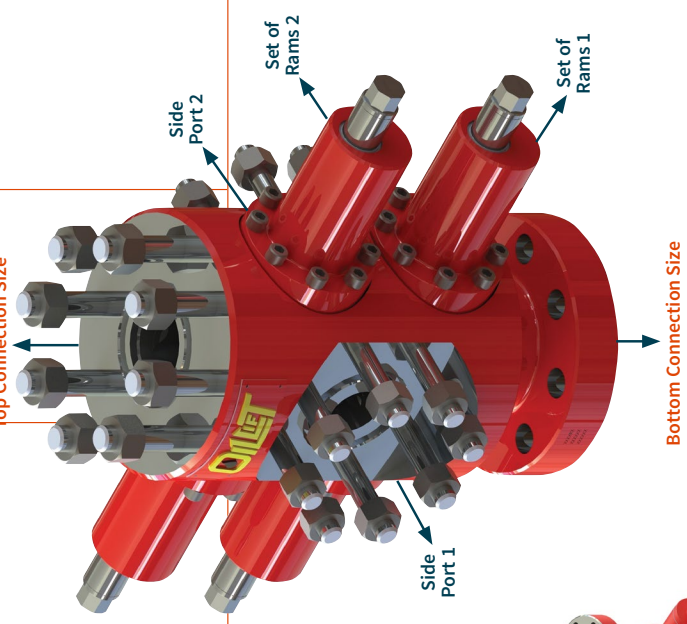
#### Oil Lift Rod Lock Types



## Oil Lift Rod Lock – BOP Chart Specifications

Type	Material	Type of Elastomer	Number of Rams Sets	Set of Rams 1	Set of Rams 2	Top Connection Type	Top Connection Size	Bottom Connection Type	Bottom Connection Size	Side Port 1	Side Port 2	Other Options
Flange by Flange	FF	Aflas (230 °C)	None	None	None	Open Flange	2A	Open Flange	2A	NN - None	NN - None	NN - None
Thread by Thread	TT	NBRH (140 °C)	Blind	Blind	Blind	Studded	2B	Studded	2B	1" LP	1" LP	1/2" NPT Test Port
Thread by Flange	TF	NBRM (100 °C)	0.875"	0.375"	0.375"	Threaded	2C	Threaded	2C	2" LP	2" LP	Side Entry Cable Port
Coil Side Entry	CS	CV75 (200 °C)	0.875"	0.875"	0.875"	Other	3A	Other	3A	3" LP	3" LP	Bottom Cavity
		XT 500 (500 °F)	1.125"	1"	1"		3B		3B	Studded - API 2-1/16" 3M/5M	Studded - API 2-1/16" 3M/5M	Hydraulic Rams
			1.25"	1.125"	1.125"		3C		3C	Studded - API 3-1/8" 3M	Studded - API 3-1/8" 3M	Nickel Coating
			1.5"	1.25"	1.25"		3D		3D	Studded - API 4-1/16" 3M	Studded - API 4-1/16" 3M	Offset Rams
			2.0"	1.5"	1.5"		3E		3E	ANSI Studded 2" 600# RTJ	ANSI Studded 2" 600# RTJ	Other
				2.0"	2.0"		3F		3F	ANSI Studded 3" 900# RTJ	ANSI Studded 3" 900# RTJ	
							3M		3M	Other	Other	
							XX		XX			

**EXAMPLE**  
Top Connection Size



### Rod Lock® – BOP Rubber Application Guidelines

Application Guidelines	NBRM	NBRH	CV75	Aflas®	XT500
Relative Cost	\$	\$	\$\$\$	\$\$\$	\$\$\$\$
Aromatics (Xylene, Toluene)	4	4	1	4	1
Amines (mixed)	1	1	3	2	1
CO <sub>2</sub> (dry, or cold)	1	4	1	1	1
HCl 37%	4	3	1	1	1
H <sub>2</sub> S (dry, cold)	1	1	2	1	1
H <sub>2</sub> S (wet, cold)	4	4	2	1	1
Petroleum Oil (below 120°C)	1	1	1	1	1
Petroleum Oil (above 120°C)	4	3	2	2	1
Steam (below 150°)	4	4	3	2	1
Steam (above 150°)	4	4	4	3	2

1 – satisfactory 2 – fair 3 – doubtful 4 – not suitable

**EXAMPLE**  
RL Configuration:

FF-AS-EH-R2-IN-1F-TS-2B-TF-5D-S4-S4-1A

FF Flange by Flange  
CS Coil Side Entry  
TT Thread by Thread  
TF Thread by Flange