



Artificial Lift Services

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Q2-LATCH ON-OFF TOOL ASSEMBLY

The Q2-Latch On-Off Tool provides a dependable method of positively engaging and disengaging the sucker rods at or above the bottom hole pump. This tool has several applications which will save the producer both time and money. The tool primarily is used in providing a means of running oversized tubing pumps, to increase overall production without replacing the entire tubing string. The Q2-Latch On-Off Tool is field proven and will give the producer the ability to disengage sucker rods from oversized tubing pump to eliminate stripping jobs caused by sanded up or scaled up pumps.

DESCRIPTION

The complete tool consists of two assemblies: An upper assembly containing a spring-loaded lock follower, and the lower - a one-piece locking key. The follower is made up with the body, followed by a heavy duty spring inserted above the follower which is compressed by a top bushing. The top bushing makes up on the sucker rod string. The follower is guided by two ball bearings and allowed to travel vertically against the spring. The lock is a one-piece part with an A.P.I. polished rod box thread which makes up on the pump pull rod adapter or valve cage.

ADVANTAGES

- Heavy Duty design engineered for superior strength with premium materials, thicker material in critical areas, and gas nitriding case hardening.
- Gas Nitriding of the Lock and the Body enhance fatigue endurance, corrosion resistance, wear resistance, and reduce friction of the Q2-Latch On-Off Tool.
- The ability to increase fluid production from a smaller tubing string.
- It gives the producer the ability to disengage rod string from pump therefore eliminating the need to strip rod string while leaving the pump downhole.
- The Q2-Latch On-Off Tool is also available in INCONEL® for increased fatigue strength and superior corrosion resistance.
- INCONEL® is a nickel-based super alloy with excellent tensile, creep, and impact strength. It is highly resistant to chloride and sulfide stress corrosion cracking and has high temperature resistance.



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SPECIFICATIONS

Tubing Size		2-3/8"	2-7/8"		2-7/8"		4-1/2"	
Tool OD (in.)		1.625	1.812		2.312		2.740	
Sucker Rod Size (in.)		3/4	3/4	7/8	7/8	1	1	
Ball OD (in.)		5/8	11/16	11/16	13/16	13/16	1-1/16	
Assembly Number	RH	160KW-BM	160NW-BM	160NX-BM	160QX-BM	160QY-BM	160UY-BM	
	LH	160KW-LH-BM	160NW-LH-BM	160NX-LH-BM	160QX-LH-BM	160QY-LH-BM	160UY-LH-BM	
QTY	Description	Part Number						
1	Top Bushing	160KW1-BM	160NW1-BM	160NX1-BM	160QX1-BM	160QY1-BM	160UY1-BM	
1	Spring	160N2	160N2		160Q2		160Q2	
1	Back-up Spring	-	-		160Q2B		160Q2B	
2	Guide Ball	10BS	10DS2		10FS1		10HS1	
1	Follower	RH	160K4-BM	160N4-BM	160N4-BM	160Q4-BM	160Q4-BM	160U4-BM
		LH	160K4-LH-BM	160N4-LH-BM	160N4-LH-BM	160Q4-LH-BM	160Q4-LH-BM	160U4-LH-BM
1	Body	160K3-BM	160N3-BM		160Q3-BM		160U3-BM	
1	Lock	160KW5-BM	160NW5-BM		160QX5-BM		160UY5-BM	

Standard On-Off Tool is right hand (RH) tool latch, order left-hand (LH) tool for opposite direction latch.

