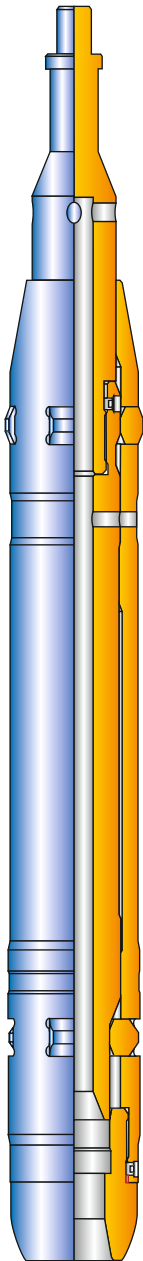


## LOCKOUT TOOL

Lockout Tool is used to shift the Lockout Sleeve of TRSSSV to establish secondary communication in the TRSSSV, thus allowing the WRSSSV to operate within TRSSSV. It is run on Standard Wireline Tool String with the capability of both upward & downward jarring.

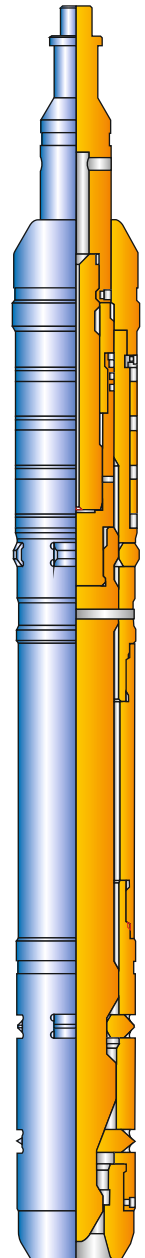


* Size	Nominal ID	Nipple Profile	Top Conn.
3-1/2"	2.31	X, R, F	1-1/16" - 10
	2.56		
	2.75		
	2.81		
4-1/2"	3.668	X, R, F	1-1/16" - 10
	3.750		
	3.813		
5"	4.125	X, R, F	1-1/16" - 10
	4.313		
5-1/2"	4.562	X, R, F	1-1/16" - 10
	4.750		

\* Other tubing sizes available on request.

## DEFORMATION LOCKOUT TOOL

Deformation Lockout Tool is made to permanently lock the TRSSV in open position. This tool is a combination mechanical & hydraulic tool. Applied tubing pressure will move the flow tube of TRSSSV downwards keeping the flapper fully open. When tubing pressure is increased further, the deforming dogs will penetrate into the TRSSSV flow tube, making it permanently deformed. This deformation of the flow tube will prevent it from traveling back into the closed position thus keeping the flapper locked in open position.



**LOCKOUT  
TOOL**

* Size	Nominal ID	Nipple Profile	Top Conn.
3-1/2"	2.31	X, R, F	1-1/16" - 10
	2.56		
	2.75		
	2.81		
4-1/2"	3.668	X, R, F	1-1/16" - 10
	3.750		
	3.813		
5"	4.125	X, R, F	1-1/16" - 10
	4.313		
5-1/2"	4.562	X, R, F	1-1/16" - 10
	4.750		

\* Other tubing sizes available on request.

**DEFORMATION  
LOCKOUT TOOL**