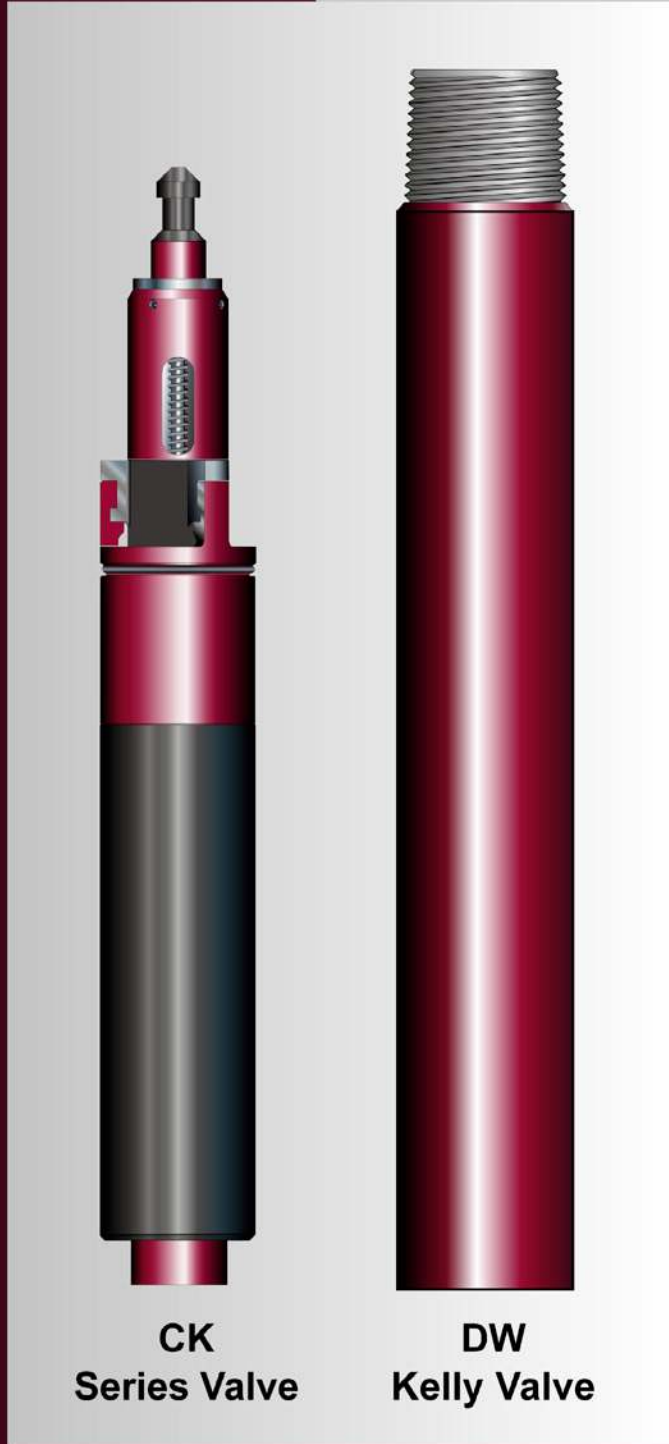


DrawWorks CK-Series™ Kelly Mud Saver Valve

Reduce or Eliminate the Loss of Mud



Features and Benefits

- **Self Aligning Seat**
 - Positive seal
 - Large flow area
 - Lower pressure drop
 - Shorter length
- **Large Opening through ID**
 - Wireline access
 - Standard 2-1/4" Totco type PCC overshot
- **Seat Material**
 - Carbide seat provides higher wear resistance*
 - *Longer periods between repair cycles
- **Check Valve**
 - Larger flow-back area
 - Can check pressure on drill pipe
 - Lower surge pressure while running in hole

Specifications

	Wireline ID	Minimum Flow Area sq-in	Maximum Flow Rate
3-1/2"	1.78"	2.49	9 bpm
4-1/2"	2.00"	3.43	16 bpm
5-1/2"	3.00"	7.00	26 bpm

Connection:

3-1/2" Valve	4-1/2" Valve	5-1/2" Valve
3-1/2" IF	4-1/2" IF	5-1/2" IF
4" FH		6-5/8" FH
4-1/2" XO		

Patent Pending



*Circulating and flow-back tools
for casing and drill pipe*