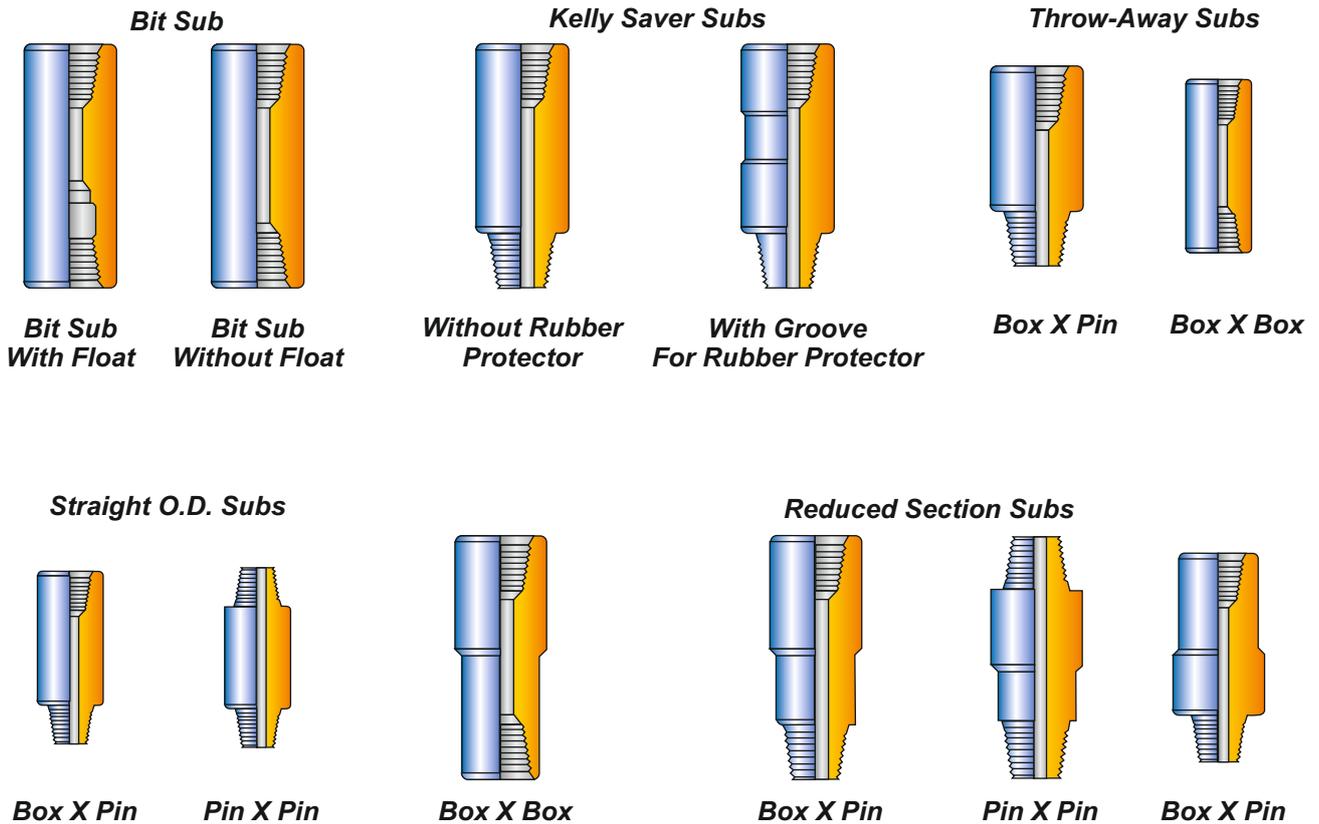


## DRILL STEM SUBS

ACT manufactures all the Four Types of Subs e.g. Straight O.D. Type 'A' or Reduced Section Type 'B' or Swivel Sub Type 'C' or Lift Sub Type 'D' as per API 7. These would be with box and pin connections or with box or pin connection on both sides. Class of Subs manufactured are (a) Kelly subs (b) Tool Joint Subs (c) Crossovers Subs (d) Drill Collars Subs (e) Bit Subs (f) Swivel Subs (g) Lift Subs. Bit Subs can be bored out for installation of float Valve assembly. A few of the Subs are shown after:



**The Mechanical Properties Of All New Steel Drill Stem Subs Shall Conform To The Same Standards As DRILL COLLARS.**

O.D. Range	Min. Yield Strength	Min. Tensile Strength	Elongation Min.	Min. Brinell Hardness
3.1/2 THRU 6.7/8	110,000 PSI	140,000 PSI	13%	285
7 THRU 10	100,000 PSI	135,000 PSI	13%	277

Subs manufactured by ACT shall be marked with ACT API-License Number, the inside dia size and style of connection at each end. These marking will be done in a recess, located on O.D of sub, approx. 3" long, 3/4" wide and 3/16" deep. Rotary shoulder connections can be provided for NC 23-31 to NC 70-100, 2.3/8" Reg. to 8.5/8" Reg. and 5 1/2" FH & 6.5/8" FH. Any other Connections e.g. Extra Hole ( X.H.), Slim Hole ( S.H.) H-90, Hydril etc. can also be provided upon request.