



# SUBS

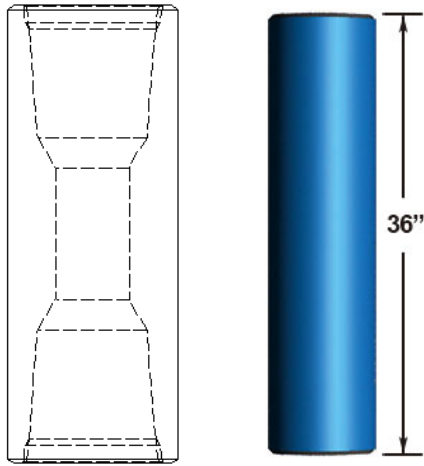
Item	Description	Upper connection	Lower connection	Size	Type
1	Kelly sub	Kelly	Drill pipe	All size	A or B
2	Drill pipe sub	Drill pipe	Drill pipe	All size	A or B
3	sub	Drill pipe	Drill collar	All size	A or B
4	Drill collar sub	Drill collar	Drill collar	All size	A or B
5	Drill Bit sub	Drill collar	Drill bit	All size	A or B
6	Swivel sub	Swivel lower sub	Kelly	All size	C
7	Fishing sub	Kelly	Drill pipe	All size	C
		Drill pipe	Fishing tool	All size	C

Type A: One sub has one same OD.

Type B: One sub has two sizes OD.

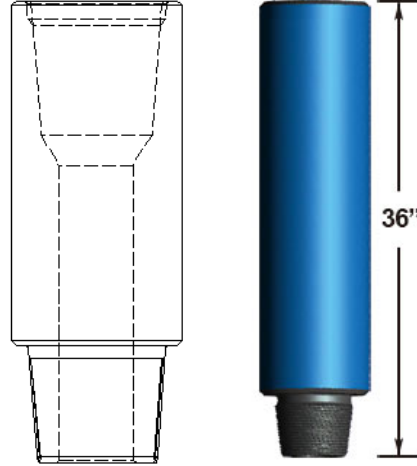
Type C: The connection type is left hand type.

# STRAIGHT OD SUBS



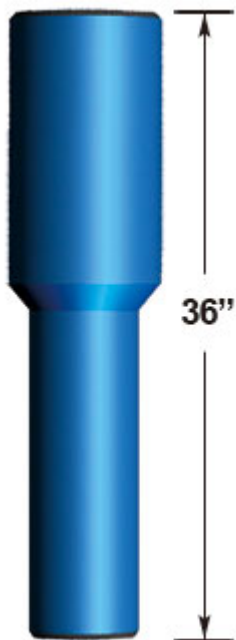
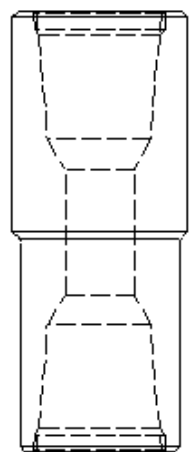
BOX\*BOX

PIN\*PIN

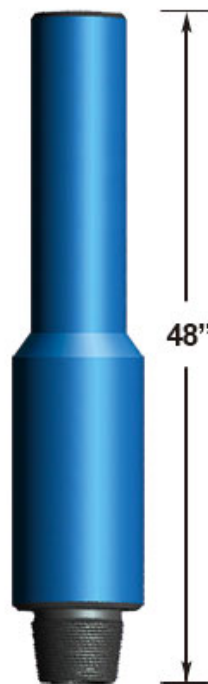
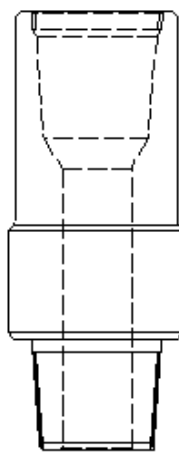


BOX\*PIN

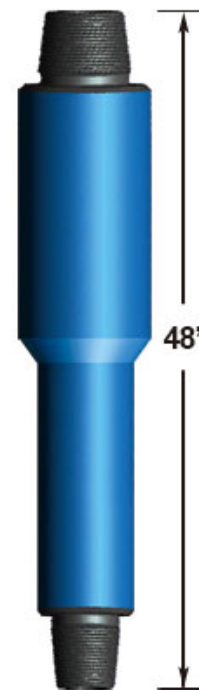
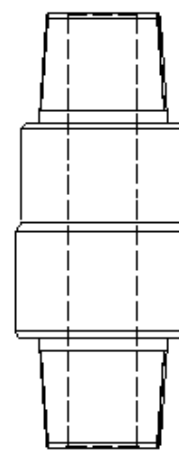
# SUBS WITH FISHING NECK



BOX\*BOX

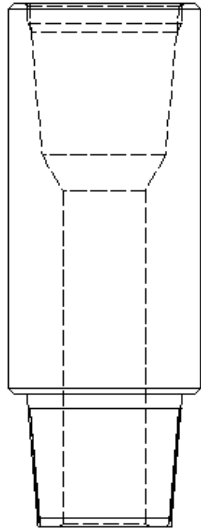


BOX\*PIN

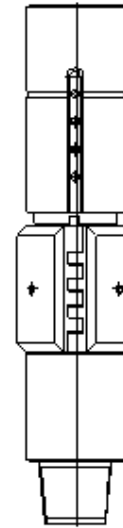
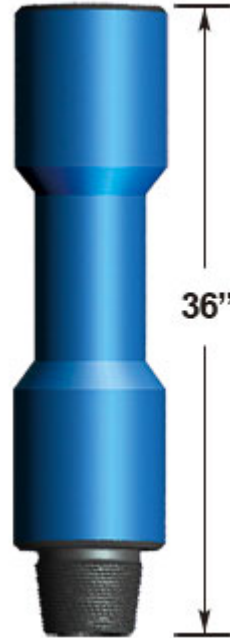


PIN\*PIN

# KELLY SAVER SUBS

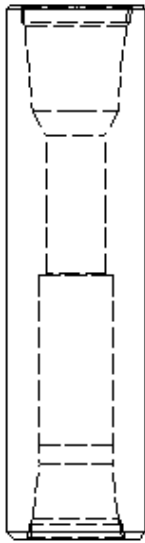


KELLY SAVER  
SUB NO PROTECTOR



KELLY SAVER SUB

# BIT SUBS



Model F  
Float valve



Model G  
Float valve

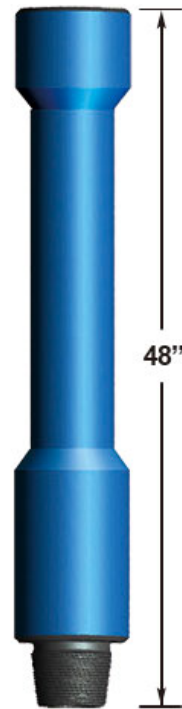


FLOAT

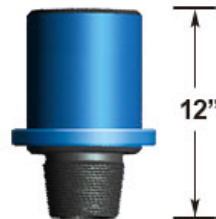
BIT SUB WITH FLOAT

BIT SUB NO

# LIFT SUB



Lift Sub

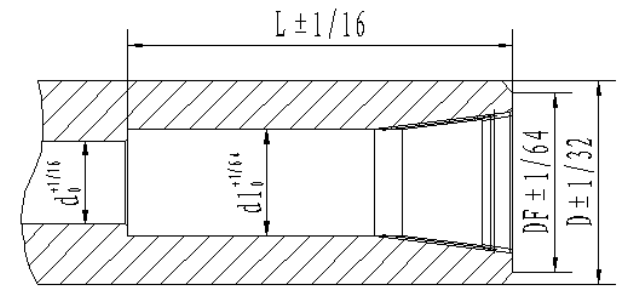


Lift Plug



Lift Cap

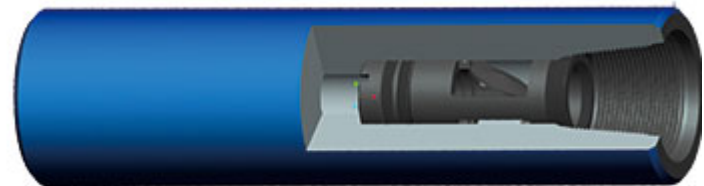
# Bit Box Float Bores



Bit Box Size	Baker Float Type	L	DF	d1
2 3/8REG	1R	9 1/8	3-3/64	1 11/16
2 7/8REG	1F-2R	10	3 39/64	1-15/16
3 1/2REG	2F-3R	10-1/2	4-7/64	2-7/16
4 1/2REG	4R	12-13/16	5-21/64	3-1/2
6 5/8REG	5F-6R	17	7-23/64	4-13/16
7 5/8REG	5F-6R	17-1/4	8-15/32	4-13/16
8 5/8REG	5F-6R	17-3/8	9-35/64	4-13/16
	6F	20-1/4	9-35/64	5-23/32



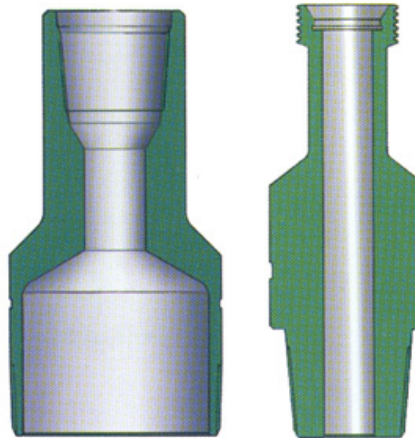
# Float Valve Sub



Technical specifications and parameters

Type	Sub O.D. (mm)	Joint connection	Valve O.D. (mm)	LD.(mm)
FFJT241	241.3	7 5/8 REG	Φ121	Φ76
FFJT228	228.6	7 5/8 REG	Φ121	Φ76
FFJT209	209.6	6 5/8 REG	Φ121	Φ76
FFJT203	203.2	6 5/8 REG	Φ121	Φ71
FFJT178	177.8	4 1/2 IF	Φ88	Φ71
FFJT165	165.2	4 1/2 REG	Φ88	Φ57
FFJT146	146	4 1/2 REG	Φ88	Φ57
FFJT121	121	3 1/2 REG	Φ61	Φ51
FFJT108	108	3 1/2 REG	Φ61	Φ38

# Circulation Sub



Thread type		I.D.	Length
Drill pipe box connection	Casing thread		
NC38	5 BTC	57	500
	5 LTC		
	5 ST & C		
NC38	5 1/2 BTC	57	580
	5 1/2 LTC		
	5 1/2 ST & C		
NC50	7 BTC	71	600
	7 LTC		
	7 ST & C		
NC50	9 5/8 BTC	71	620
	9 5/8 LTC		
	9 5/8 ST & C		
NC50	10 3/4 BTC	71	670
	10 3/4 LTC		
	10 3/4 ST & C		
NC50	13 3/8 BTC	71	670
	13 3/8 LTC		
	13 3/8 ST & C		