



PRODUCT INDEX

Sub-Surface Safety Valve

DESCRIPTION

BHE Wireline – Retrievable Surface
Controlled Sub-Surface Safety Valve



WIRELINE SUB-SURFACE SAFETY SYSTEM

BOTIL MODEL 'BHE' WIRELINE – RETRIEVABLE SURFACE CONTROLLED SUB-SURFACE SAFETY VALVE Product No. BI 806 - 22

The Botil Model 'BHE' Wire line – retrievable surface controlled subsurface safety valve is a flapper type self equalizing safety valve, and is available in 5,000 to 10,000 psi working pressure variants. The safety valve is equipped with BRQ lock, which provides positive location while installation. The BRQ lock is also suitable for high pressure application.

Features:

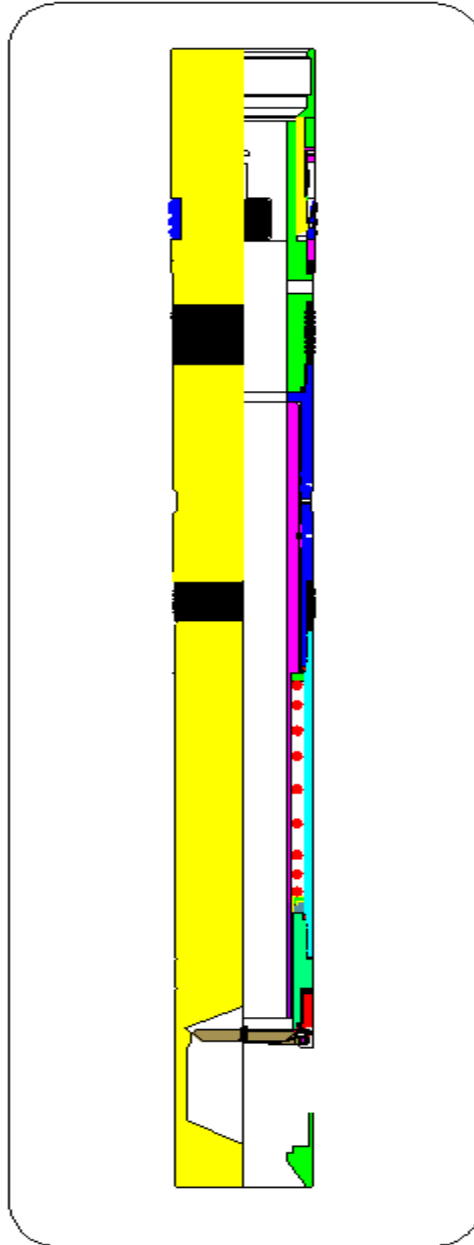
- API Q1 and API 14A quality system ensure design and manufacturing integrity.
- The number of pressure seals/potential leak paths is minimized.
- The number of connection is minimized.
- The non-elastomeric seal on the O.D of Lock Mandrel and Safety Valve can withstand high temperature and pressure. The seals are also resistive to abrasion.
- The flapper has primary metal to metal seal mounted eccentrically which provides large bore.

SPECIFICATIONS GUIDE

Parameters	Design Specifications			
Size	4-1/2" x 12.6 ppf or 5" x 3.813"	5-1/2" x 4.313"	5-1/2" x 4.562"	7" x 5.963"
Lock No-Go O.D	3.937"	4.410"	4.687"	6.100"
Safety Valve O.D	3.802"	4.300"	4.552"	5.953"
Fish neck I.D	3.125"	3.875"	4.000"	5.375"
Min.Bore	2.380"	2.500"	2.850"	3.750"
Over all length	80"	80"	83"	87"
Working Pressure	5000 - 10000 Psi			
Fail-Safe Setting Depth	1000 ft			
Opening Pressure at zero Hydro Static Pressure	1000 Psi	1200 Psi	1000 Psi	
Control line pressure to hold SSSV open after initial open	1000 Psi + Flowing Pressure			
Closing pressure at zero Hydro Static Pressure	300~400 Psi			



WIRELINE SUB-SURFACE SAFETY SYSTEM



SUB-SURFACE SAFETY VALVE



WIRELINE SUB-SURFACE SAFETY SYSTEM

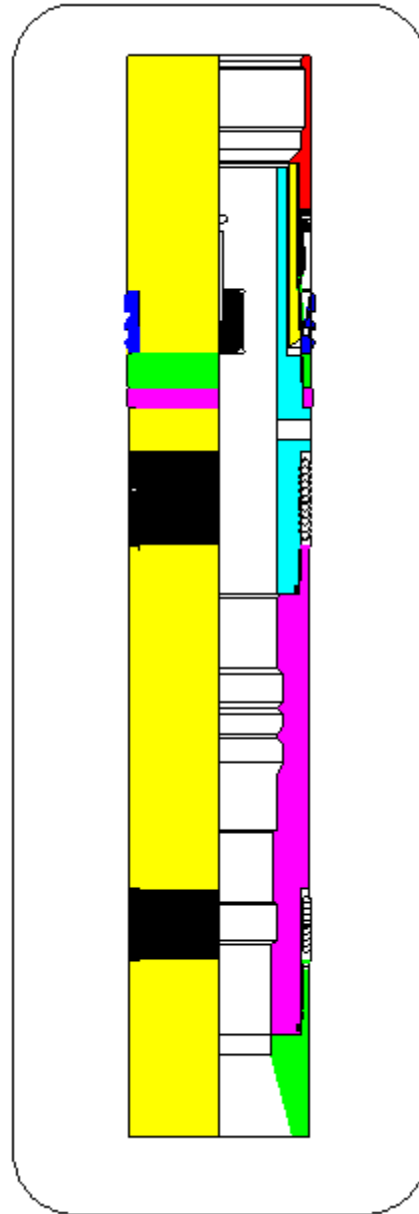
BOTIL DUMMY VALVE/SEPARATIONSLEEVE PROD. No. BI 806-24

Dummy valve/Separation Sleeve have application of separating control line from tubing string when installed in landing nipple instead of SSSV, to avoid pressure leakage thru ported nipple.

An Otis Type XN RN, Landing Nipple profile is featured in the Dummy valve/Separation Sleeve and polished pack-off area to install blanking plug to plug production tubing.

SPECIFICATION GUIDE

Size	4- 1/2"12.6 ppf ,or 5" x 3.813"	5-1/2" x 4.313"	5-1/2" x 4.562"	7" x 5.963"
Profile	XN	XN	XN	RN
Seal Bore	1.875	2.313	2.750	3.688



SEPERATION SLEEVE



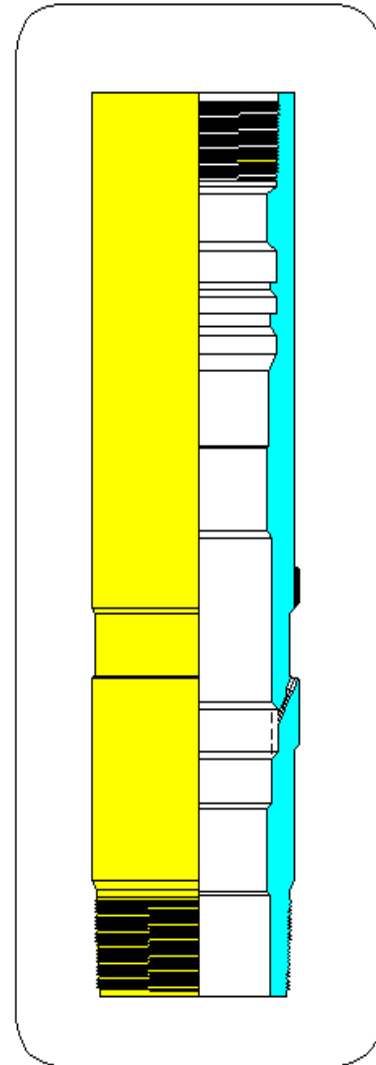
WIRELINE SUB-SURFACE SAFETY SYSTEM

BOTIL SAFETY VALVE LANDINGNIPPLE PROD. No. BI 806-23

Safety valve landing nipple is a ported nipple having 1/4" NPT control line connection. The landing nipple has two sealing bores. The upper bore is larger than lower bore which facilitates easy passage of lower seal unit of SSSV during running in. The nipple has BRQ Top No Go profile which facilitates positive location of SSSV in landing nipple.

SPECIFICATION GUIDE

Description	SIZES			
	4-1/2" 12.6 ppf, or 5" x 3.813"	5-1/2" x 4.313"	5-1/2" x 4.562"	7" x 5.963"
A(Upper Seal Bore)	3.875"	4.345"	4.600"	6.000"
B(Lower Seal Bore)	3.813"	4.313"	4.562"	5.963"
Max. O.D	5.860"	6.650"	6.650"	8.300"
THD. Connection	4-1/2" 12.6# OR 5" New Vam	5-1/2" New Vam		7" New Vam



PORTED LANDING NIPPLE



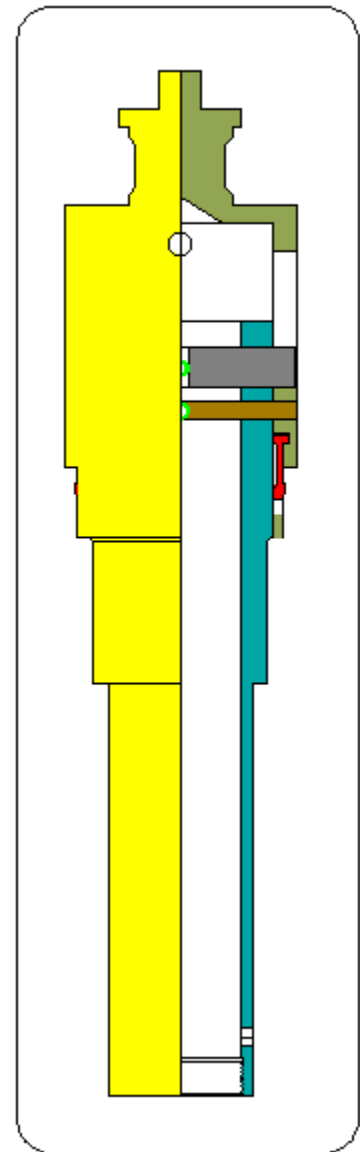
WIRELINE SUB-SURFACE SAFETY SYSTEM

BOTIL RUNNING TOOL Product No. BI 811-10

BOTIL Model 'BRQ' Running Tool is used to run 'BRQ' Lock Mandrel in Top No-Go Landing Nipple.

SPECIFICATION GUIDE

Description	SIZES			
	3.813"	4.313"	4.562"	5.963"
A (Fish neck)	2.312"	3.125"		
Will latch in internal fishing neck	3.125"	3.875"	4.000"	5.375"
Max. O.D	3.802"	4.250"	4.500"	6.000"
THD. Connection	1.062-10 N			



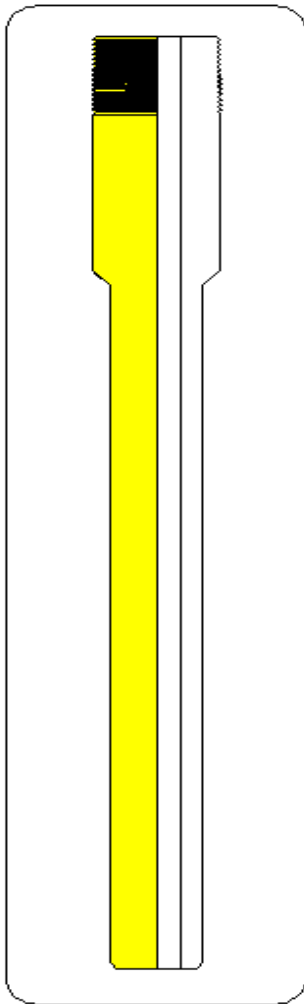
RUNNING TOOL



WIRELINE SUB-SURFACE SAFETY SYSTEM

BOTIL RUNNING PRONG PROD. BI 811-92

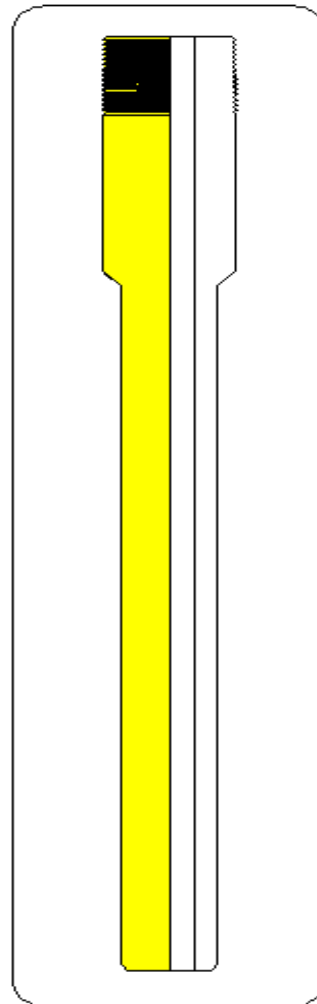
Running prong is used with running tool to keep flapper of SSSV in open position while running in.



RUNNING PRONG

BOTIL PULLING PRONG PROD. No.811-93

Pulling prong is used with pulling tool to Open flapper of SSSV for equalizing of pressure above and below for easy retrieval.



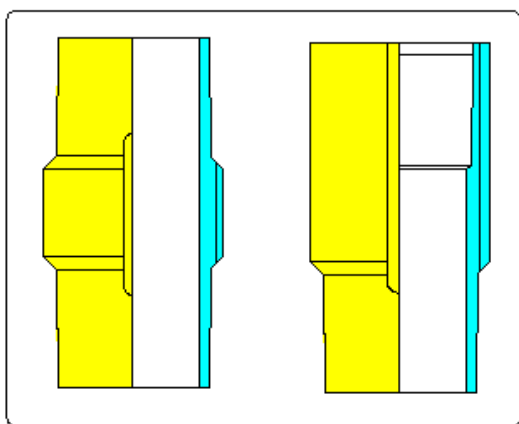
PULLING PRONG



WIRELINE SUB-SURFACE SAFETY SYSTEM

BOTIL FLUTED CASING SUB PRODUCT NO. BI 299-70

The BOTIL Fluted Casing Sub facilitates easy passage of control line outside the casing O.D



SPECIFICATION GUIDE:

Size	I.D	O.D	LENGTH
4 1/2	4.000	5.670	18" OR 16" Approx.
5	4.408	5.670	
7	6.184	8.250	