Products Catalogue

Baoji Jinhui Petroleum Engineering Co., Ltd

Jinhui Petroleum provides tools and services of Wireline, Wellhead Pressure Control Equipment (PCE) and Completion Equipment. Equipment are manufactured as per industry acceptable standard.

http://www.jhoiltools.com

OILTOOLS

Products Catalogue

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A

Wireline Tools

I - Tool String Connections

II - Basic Tool String

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Well Completion Tools/Equipment

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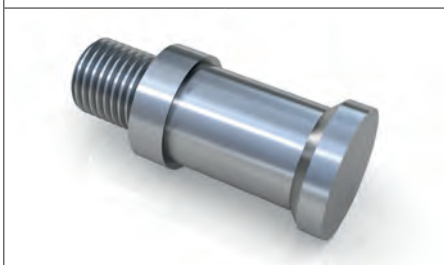
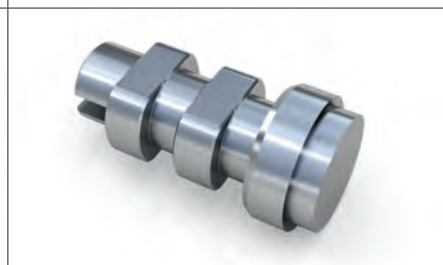
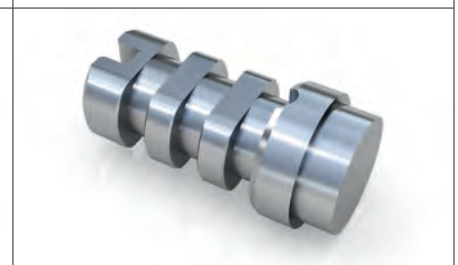
NOTE:

- All drawings for illustration purpose only.
- All prices are subject to our quotation.

Wireline Tools

I-Tool String Connections

1 Tool String Connections

Type UN Thread Connections		Type Q Quick Connections		Type P Quick Connections	
					
Thread Data	**Fishneck O.D.**	**Tools O.D.**	**Fishneck O.D.**	**Tools O.D.**	**Fishneck O.D.**
5/8"-11UN	1.000"	1 1/4"	1.187"	1 1/4"	1.187"
15/16"-10UN	1.187"	1 1/2"	1.375"	1 1/2"	1.375"
15/16"-10UN	1.375"	1 7/8"	1.750"	1 7/8"	1.750"
1 1/16"-10UN	1.750"	1 7/8"	2.313"	1 7/8"	2.313"
1 1/16"-10UN	2.313"	2 1/2"	2.313"	2 1/2"	2.313"
1 9/16"-10UN	2.313"	2 1/2"	3.125"	2 1/2"	3.125"
1 1/16"-10UN	3.125"	-	-		
1 9/16"-10UN	3.125"	-	-		

Wireline Tools

II-Basic Tool String

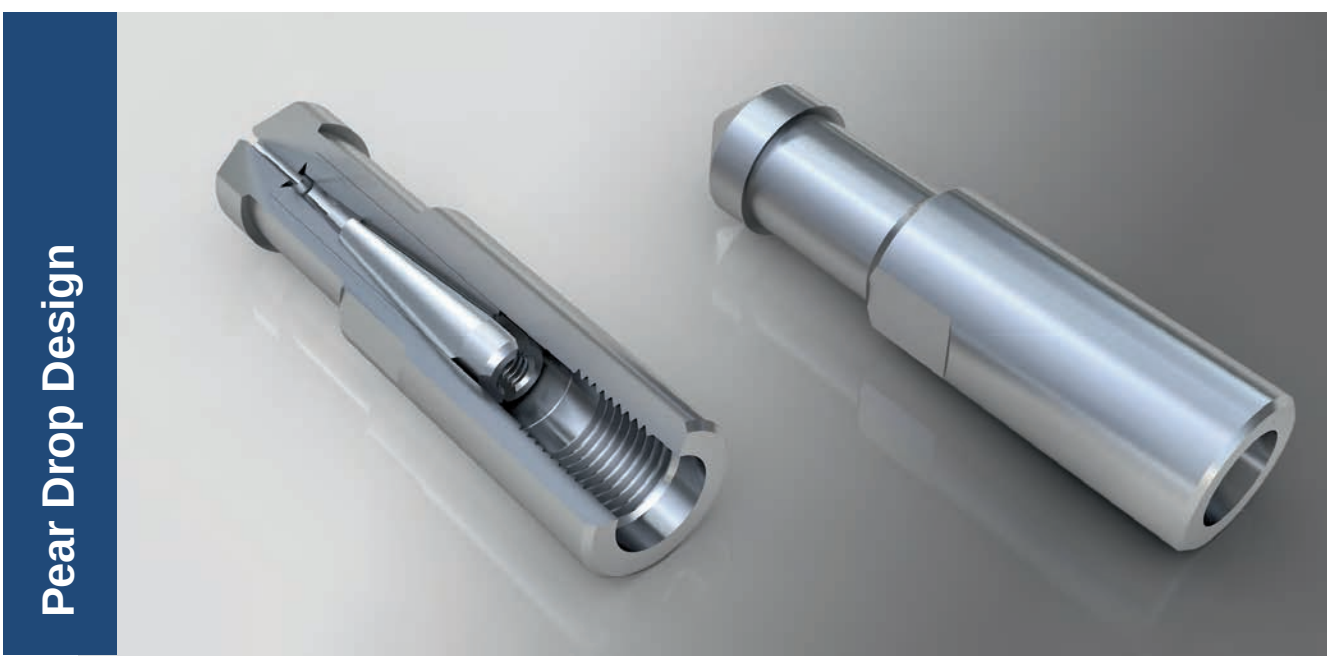
1 Rope Socket Series

1.1 Pear Drop Design

Pear Drop Design, is the uppermost component in a wireline toolstring and forms an essential link between the toolstring and the wire. The pear drop type incorporates a tapered plug (Pear Drop) which is grooved to accommodate the wireline. This acts against an opposite taper within the body retaining the wire.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Wire Size	Connection Type
0.750″	0.750″	0.092″ /0.108″	9/16″ -12UN
1.000″	1.000″	0.092″	5/8″ -11UN
1.250″	1.187″	0.092″ /0.108″	UN/JHQ/JHP
1.500″	1.375″	0.092″ / 0.108″ /0.125″	UN/JHQ/JHP
1.750″	1.750″		UN/JHQ/JHP
1.875″	1.750″		UN/JHQ/JHP
2.125″	1.750″	0.108″ / 0.125″	UN/JHQ/JHP
2.500″	2.313″		UN/JHQ/JHP



Wireline Tools

II-Basic Tool String

1 Rope Socket Series

1.2 Disc & Spring Design

Disc & Spring Design, is the uppermost component in a wireline toolstring and forms an essential link between the toolstring and the wire.

The Disc/Spring Type Rope is used with 0.092" single strand solid wireline.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Wire Size	Connection Type
1.250″	1.187″	0.092″	UN/JHQ/JHP
1.500″	1.375″		UN/JHQ/JHP
1.875″	1.750″		UN/JHQ/JHP

Wireline Tools

II-Basic Tool String

1 Rope Socket Series

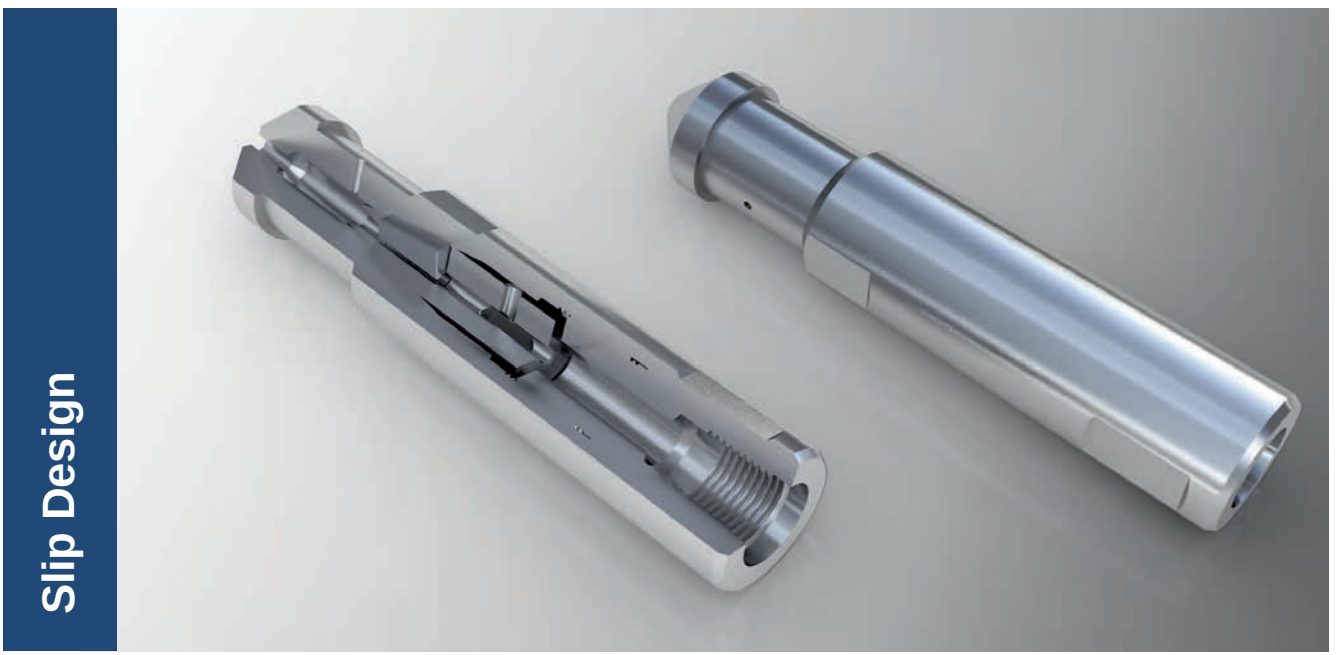
1.3 Slip Design

Slip Design is the uppermost component in a wireline toolstring and forms an essential link between the toolstring and the wire. The specially designed slip assembly secures the braided wireline to the Rope Socket.

Link tension increases the grip of the Rope Socket to the wire.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Wire Size	Connection Type
1.500″	1.375″	3/16″ | 7/32″	UN/JHQ/JHP
1.875″	1.750″		UN/JHQ/JHP
2.125″	1.750″		UN/JHQ/JHP
2.500″	2.313″		UN/JHQ/JHP



Wireline Tools

II-Basic Tool String

2 Swivel Joint

Swivel Joint is installed directly below the rope socket to provide rotation of the toolstring thereby preventing wireline twist or 'nesting' when used in conjunction with braided line. It incorporates Heavy-Duty Thrust Bearings for durability and reliability.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.250″	1.187″	UN/JHQ/JHP
1.500″	1.375″	UN/JHQ/JHP
1.875″	1.750″	UN/JHQ/JHP
2.125″	1.750″	UN/JHQ/JHP
2.500″	2.313″	UN/JHQ/JHP

Wireline Tools

II-Basic Tool String

3 Wireline Stem/Sinker Bar

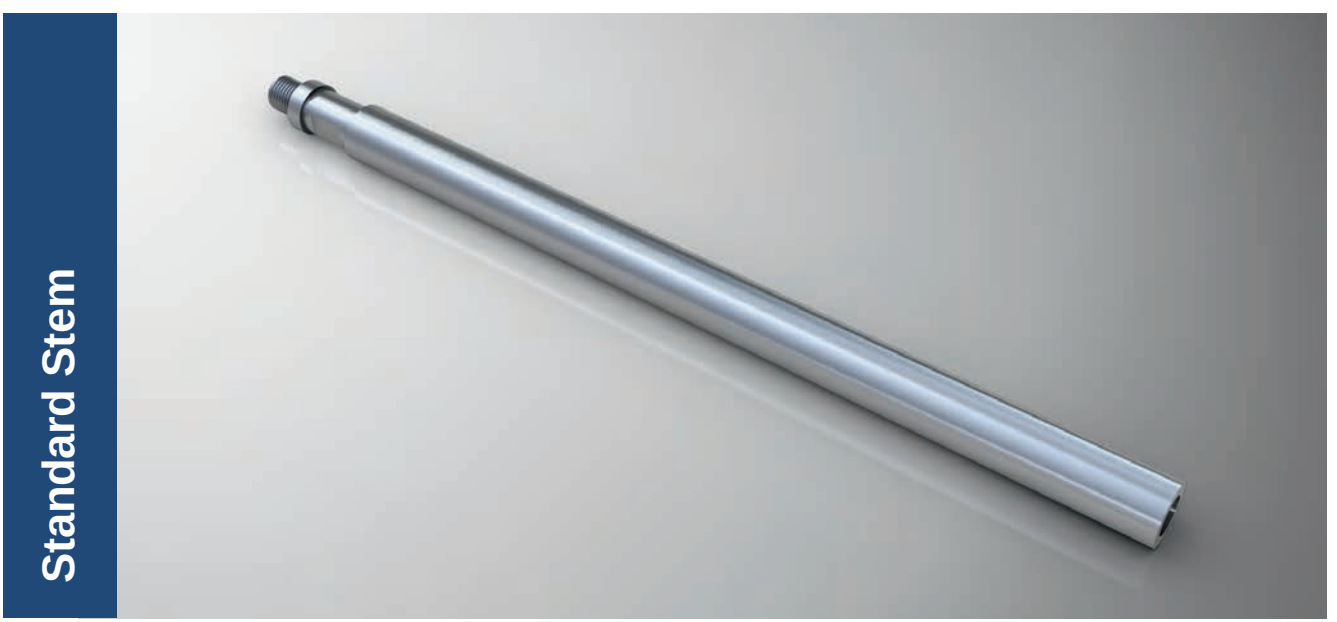
3.1 Standard Stem

Standard Stem is used as weight to overcome stuffing box packing friction, and well pressure on the cross section area of the wireline. Stem can also transmit force either upward or downward to set or retrieve downhole tools. Size and weight of the stem are determined by the impact force required and the size of the downhole tools to be run or pulled. For normal conditions five feet of stem is used, made up by combining two, three or five-foot lengths of standard stem.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length (ft)	Weight (lbs)	Weight (kg)
0.750″	0.750″	1/2″ -13UN	2'	3.1	1.4
			3'	4.4	2.0
			5'	7.5	3.4
1.250″	1.187″	UN/JHQ/JHP	2'	8.4	3.8
			3'	12.5	5.7
			5'	20.9	9.5
1.500″	1.375″	UN/JHQ/JHP	2'	12.0	5.5
			3'	18.0	8.2
			5'	30.0	13.6
1.750″	1.375″	UN/JHQ/JHP	2'	14.7	6.7
			3'	22.5	10.2
			5'	40.5	18.4
1.875″	1.750″	UN/JHQ/JHP	2'	18.8	8.5
			3'	28.2	12.8
			5'	46.9	21.3
2.000″	1.750″	UN/JHQ/JHP	2'	21.4	9.7
			3'	31.9	14.5
			5'	53.3	24.2
2.125″	1.750″	UN/JHQ/JHP	2'	24.1	10.9
			3'	36.2	16.4
			5'	60.3	27.4
2.500″	2.313″	UN/JHQ/JHP	2'	33.3	15.1
			3'	50.0	22.7
			5'	83.4	37.9

Weight shown is for (UN Thread) reference only.



Wireline Tools

II-Basic Tool String

3 Wireline Stem/Sinker Bar

3.2 Tungsten Filled Stem

Tungsten Filled Stem provides extra weight per foot when compared with the more conventional weight bar. This assists the operator to overcome the effects of friction, fluid viscosity and pressure within the well bore. It also provided the kinetic energy, which is converted into upward and downward jarring force.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length (ft)	Weight (lbs)	Weight (kg)
1.250″	1.187″	UN/JHQ/JHP	2'	10.4	4.7
			3'	16.3	7.4
			5'	28.4	12.9
1.500″	1.375″	UN/JHQ/JHP	2'	15.9	7.2
			3'	23.6	10.7
			5'	41.7	18.9
1.875″	1.750″	UN/JHQ/JHP	2'	23.8	10.8
			3'	38.6	17.5
			5'	65.3	29.6
2.125″	1.750″	UN/JHQ/JHP	2'	31.1	14.1
			3'	49.4	22.4
			5'	86.0	39.0
2.500″	2.313″	UN/JHQ/JHP	2'	40.0	18.2
			3'	68.8	31.2
			5'	120.0	54.5

Weight shown is for (UN Thread) reference only.

Tungsten Filled Stem

Wireline Tools

II-Basic Tool String

3 Wireline Stem/Sinker Bar

3.3 Roller Stem

Roller Stem is a special type of stem used to assist upward and downward jarring forces where deviation in a well is encountered and jarring using traditional jars is unsuccessful. While sliding on the tubing wall, Roller Stem helps to reduce wellbore friction thereby prevent hang up against the tubing.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length (ft)	Wheel Dia
1.250″	1.187″	UN/JHQ/JHP	2'	1.400″
			3'	
			5'	
1.500″	1.375″	UN/JHQ/JHP	2'	2.000″
			3'	
			5'	
1.875″	1.750″	UN/JHQ/JHP	2'	2.500″
			3'	
			5'	
2.125″	1.750″	UN/JHQ/JHP	2'	2.750″
			3'	
			5'	
2.500″	2.313″	UN/JHQ/JHB	2'	3.250″
			3'	
			5'	

Custom Roller OD available on request.

Wireline Tools

II-Basic Tool String

4 Wireline Jar

4.1 Mechanical Link Jar/Spang Jar

Mechanical Link Jar, also known as Spang Jar, utillses the weight of stems connected immediately above to deliver effective up and down stroke jarring impacts.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Stroke
1.250″	1.187″	UN/JHQ/JHP	20″
			24″
			30″
1.500″	1.375″	UN/JHQ/JHP	20″
			24″
			30″
1.875″	1.750″	UN/JHQ/JHP	20″
			24″
			30″
2.125″	1.750″	UN/JHQ/JHP	20″
			24″
			30″
2.500″	2.313″	UN/JHQ/JHP	20″
			24″
			30″

Mechanical Link Jar/Spang Jar

Wireline Tools

II-Basic Tool String

4 Wireline Jar

4.2 Hydraulic Jar

Hydraulic Jar is a wireline tool serving for dependable upward jarring during wireline operations. It is normally run above a set of Spang/Link Jars.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Stroke
1.500″	1.375″	UN/JHQ/JHP	8.75″
1.875″	1.750″	UN/JHQ/JHP	10.0″
2.125″	1.750″	UN/JHQ/JHP	12.0″
2.500″	2.313″	UN/JHQ/JHP	15.0″

Hydraulic Jar

Wireline Tools

II-Basic Tool String

4.Wireline Jars

4.3 Spring Jar

Spring Jar, is a telescoping upstroke jar that should be run in conjunction with wireline stem installed immediately above. The Spring Jar can be adjusted on or off the toolstring at surface to a predetermined release controlled impact force at the tool during heavy-duty wireline operations.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Stroke
1.250″	1.187″	UN/JHQ/JHP	7.9″
1.500″	1.375″	UN/JHQ/JHP	10.5″
1.875″	1.750″	UN/JHQ/JHP	12.0″
2.125″	1.750″	UN/JHQ/JHP	12.0″
2.500″	2.313″	UN/JHQ/JHP	15.0″

Wireline Tools

II-Basic Tool String

4.Wireline Jar

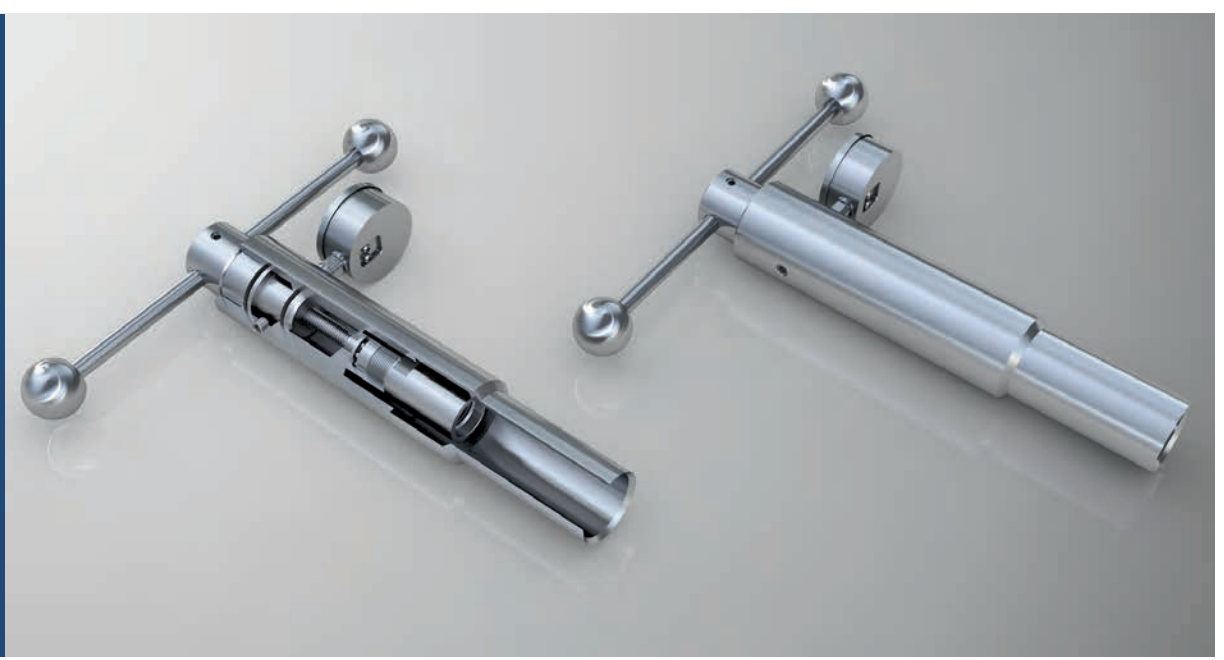
4.3.1 Spring Jar Calibration Tool

Spring Jar Calibration Tool allows quick and simple setting of the release force of the Spring Jar. The tool features a direct lead actuation plus accurate hydraulic load sensing.

Available tool sizes as shown.

Calibration Tool for Spring Jar Size
1.250″
1.500″
1.875″
2.125″
2.500″

Spring Jar Calibration Tool



Wireline Tools

II-Basic Tool String

4.Wireline Jar

4.4 Knuckle Jar

Knuckle Jar is similar in construction to the Knuckle Joint. The Knuckle Jar design incorporates a length extension of the socket that allows the ball to move vertically for light jarring.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Standard Stroke
1.250″	1.187″	UN/JHQ/JHP	2″
1.500″	1.375″	UN/JHQ/JHP	2″
1.875″	1.750″	UN/JHQ/JHP	2″
2.125″	1.750″	UN/JHQ/JHP	2″
2.500″	2.313″	UN/JHQ/JHP	2″

Knuckle Jar

Wireline Tools

II-Basic Tool String

4.Wireline Jar

4.5 Tubular Jar

Tubular Jar, is a telescopic jar that should be run in conjunction with the Wireline stem installed immediately above. The body of the jar is perforated with drilled holes to minimize fluid resistance. It is used mostly in connection with jarring debris and other foreign matter from casing and large tubing. Jarring forces can be delivered in both upward and downward directions.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Stroke
1.250″	1.187″	UN/JHQ/JHP	12″
			20″
1.500″	1.375″	UN/JHQ/JHP	20″
			24″
			30″
1.875″	1.750″	UN/JHQ/JHP	20″
			24″
			30″
2.125″	1.750″	UN/JHQ/JHP	20″
			24″
			30″
2.500″	2.313″	UN/JHQ/JHP	20″
			24″
			30″

Wireline Tools

II-Basic Tool String

5 Heavy Duty Accelerator

Heavy Duty Accelerator is intended for use with the Hydro-Mechanical and Spring Jars. Accelerators are normally used at shallow depths in order to compensate for loss of stretch in the wire or cable. However, even in deep well operations, an accelerator may be used in order to deliver higher impacts from the jar. Wireline tension stores energy by compressing the springs within the accelerator. When the jar fires, this energy is released, increasing the impact at the fish.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.250″	1.187″	UN/JHQ/JHP
1.500″	1.375″	UN/JHQ/JHP
1.875″	1.750″	UN/JHQ/JHP
2.125″	1.750″	UN/JHQ/JHP
2.500″	2.313″	UN/JHQ/JHP

Heavy Duty Accelerator

Wireline Tools

II-Basic Tool String

6 Knuckle Joint

Knuckle Joint comes with a special ball and socket design, allow for angular movement between the jars and the running or pulling tool to help align them with the tubing. Knuckle joints are especially important if tubing is corkscrewed and when wireline work is to be performed in a directional hole. Where stem and jars will not align, or move freely, it may be impossible to operate tools. However, the knuckle joint acts to prevent the wireline tools from hanging up.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.250″	1.187″	UN/JHQ/JHP
1.500″	1.375″	UN/JHQ/JHP
1.875″	1.750″	UN/JHQ/JHP
2.125″	1.750″	UN/JHQ/JHP
2.500″	2.313″	UN/JHQ/JHP

Knuckle Joint

Wireline Tools

II-Basic Tool String

7 Shock Absorber

Shock Absorber is used in the wireline toolstring to reduce the effects of shock when running delicate gauges etc. It is most effective when run directly above the gauges.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.250″	1.187″	UN/JHQ/JHP
1.500″	1.375″	UN/JHQ/JHP
1.750″	1.375″	UN/JHQ/JHP
2.000″	1.750″	UN/JHQ/JHP

Shock Absorber

Wireline Tools

II-Basic Tool String

8 Wireline Crossovers

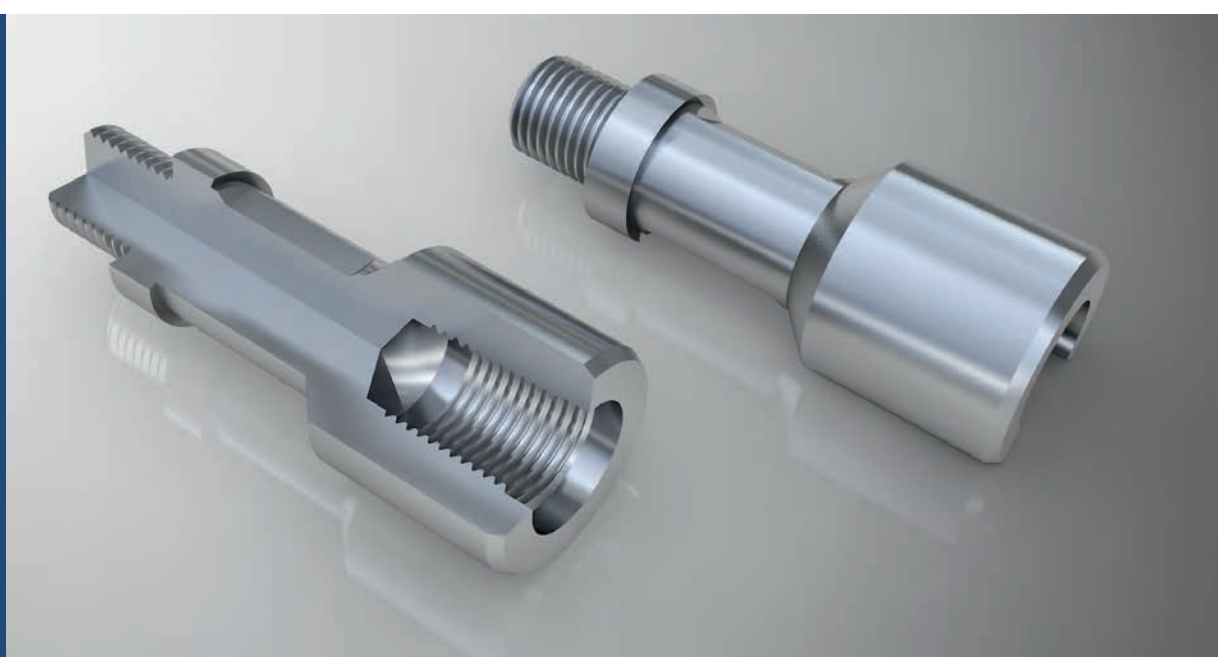
8.1 Type UN Crossover Adapter

Type UN Crossover Adapter is designed to connect two incompatible connections (UN thread to UN thread of different size) in the toolstring.

Available tool sizes as shown.

Tools O.D.	Upper Pin Connection	Lower Box Connection	Fishneck O.D.
1.250″	15/16″ -10UN	3/4″ -16UN	1.187″
1.250″	3/4″ -16UN	15/16″ -10UN	1.187″
1.500″	15/16″ -10UN	5/8″ -11UN	1.375″
1.500″	5/8″ -11UN	15/16″ -10UN	1.000″
1.500″	15/16″ -10UN	3/4″ -16UN	1.375″
1.500″	3/4″ -16UN	15/16″ -10UN	1.375″
1.875″	1 1/16″ -10UN	3/4″ -16UN	1.750″
1.875″	3/4″ -16UN	1 1/16″ -10UN	1.375″
1.875″	15/16″ -10UN	1 1/16″ -10UN	1.375″
1.875″	1 1/16″ -10UN	15/16″ -10UN	1.750″
2.500″	15/16″ -10UN	1 9/16″ -10UN	1.375″
2.500″	1 9/16″ -10UN	15/16″ -10UN	2.313″
2.500″	1 1/16″ -10UN	1 9/16″ -10UN	1.750″
2.500″	1 9/16″ -10UN	1 1/16″ -10UN	2.313″

Type UN Crossover Adapter



Wireline Tools

II-Basic Tool String

8 Wireline Crossovers

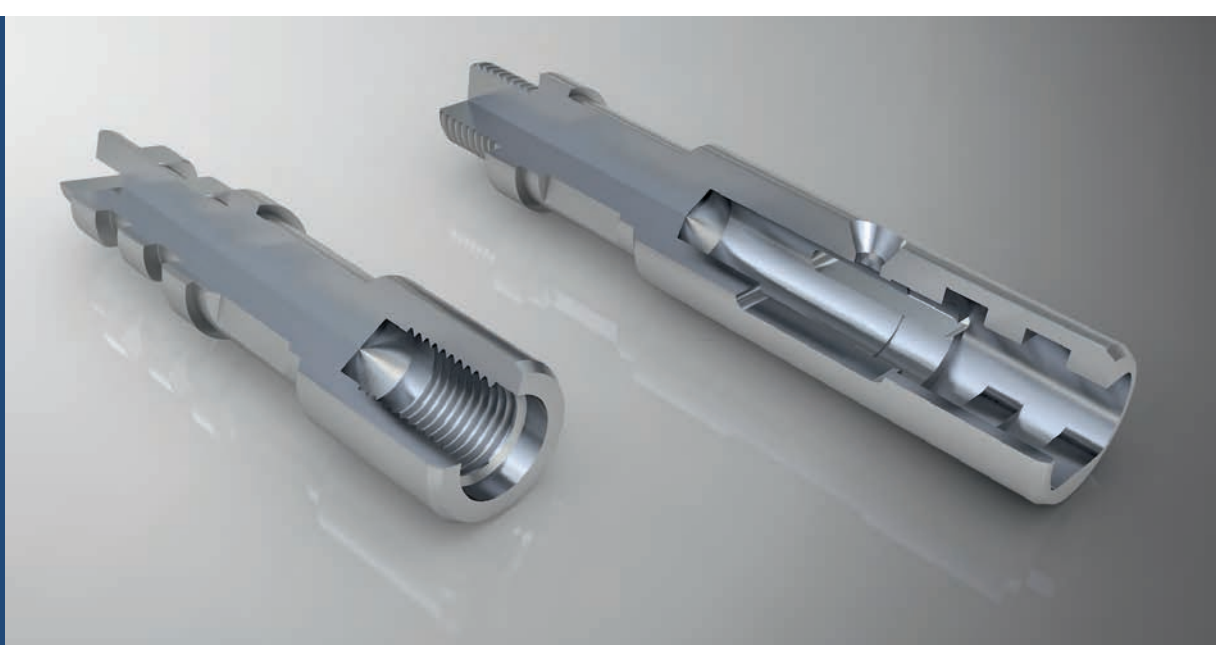
8.2 Type Q Quick Lock Crossover Adapter

Type Q Quick Lock Crossover Adapter is designed to connect Quick Lock System compatible connection to UN Thread connection in the toolstring.

Available tool sizes as shown.

Tools O.D.	Upper Pin Connection	Lower Box Connection	Fishneck O.D.
1.250″	1 1/4″ JHQ	15/16″ -10UN	1.187″
1.250″	15/16″ -10UN	1 1/4″ JHQ	1.187″
1.500″	1 1/2″ JHQ	15/16″ -10UN	1.375″
1.500″	15/16″ -10UN	1 1/2″ JHQ	1.375″
1.875″	1 7/8″ JHQ	1 1/16″ -10UN	1.750″
1.875″	1 1/16″ -10UN	1 7/8″ JHQ	1.750″
2.500″	2 1/2″ JHQ	1 9/16″ -10UN	2.313″
2.500″	1 9/16″ -10UN	2 1/2″ JHQ	2.313″

Type Q Quick Lock Crossover Adapter



Wireline Tools

II-Basic Tool String

8 Wireline Crossovers

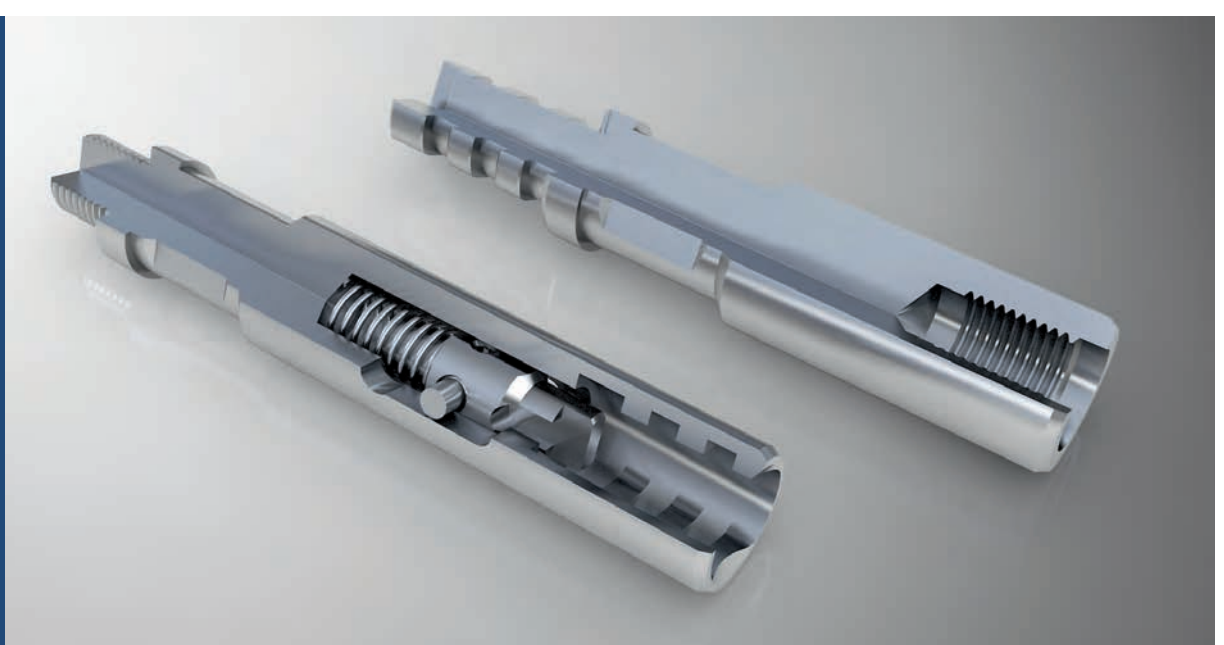
8.3 Type P Quick Lock Crossover Adapter

Type P Quick Lock Crossover Adapter is designed to connect Breech Lock compatible connection to UN Thread connection in the toolstring.

Available tool sizes as shown.

Tools O.D.	Upper Pin Connection	Lower Box Connection	Fishneck O.D.
1.250″	1 1/4″ JHP	15/16″ -10UN	1.187″
1.250″	15/16″ -10UN	1 1/4″ JHP	1.187″
1.500″	1 1/2″ JHP	15/16″ -10UN	1.375″
1.500″	15/16″ -10UN	1 1/2″ JHP	1.375″
1.875″	1 7/8″ JHP	1 1/16″ -10UN	1.750″
1.875″	1 1/16″ -10UN	1 7/8″ JHP	1.750″
2.500″	2 1/2″ JHP	1 9/16″ -10UN	2.313″
2.500″	1 9/16″ -10UN	2 1/2″ JHP	2.313″

Type P Quick Lock Crossover Adapter



Wireline Tools

III-Auxiliary Tools

1 Centralisers

1.1 Fluted Centraliser

Fluted Centraliser is run to centralise the toolstring where well deviation causes the running and pulling tools to lay off center. In addition to being a centraliser, it can also be used as a tubing drift.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.500"-2.499"	1.375″	UN/JHQ/JHP
2.500"-3.499"	1.750″	UN/JHQ/JHP
3.500"-3.999"	2.313″	UN/JHQ/JHP

Fluted Centraliser

Wireline Tools

III-Auxiliary Tools

1 Centralisers

1.2 Bow Spring Centraliser

Bow Spring Centraliser is designed to assist in centralising the toolstring inside bore tubing. In addition to centralising, this tool will also reduce toolstring shock whilst running in the well. The Design of this Centraliser enables one tool to centralise in a large range of tubing IDs. It can provide good centralisation in conventional and deviated well.

Available tool sizes as shown.

Minimum Body O.D.	Maximum Body O.D.	Fishneck O.D.	Connection Type
1.250"	4.000"	1.187"	UN/JHQ/JHP
2.000"	4.000"	1.375"	UN/JHQ/JHP
2.000"	9.000"	1.750"	UN/JHQ/JHP

Bow Spring Centraliser

Wireline Tools

III-Auxiliary Tools

1 Centralisers

1.3 Adjustable Spring Centraliser

Adjustable Spring Centraliser, is designed to centralise wireline toolstring or to provide cushion that will reduce shock transmitted to the gauges while running pressure and temperature gauges through the tail pipe and into the casing. Tension of the bow spring is adjustable to accommodate the various weight of the toolstring.

Available tool sizes as shown.

Minimum Body O.D.	Maximum Body O.D.	Fishneck O.D.	Connection Type
2.000"	7.000"	1.375"	UN/JHQ/JHP
3.500"	7.000"	1.750"	UN/JHQ/JHP

Adjustable Spring Centraliser

Wireline Tools

III-Auxiliary Tools

1 Centralisers

1.4 Adjustable Spring Roller Centraliser

Adjustable Spring Roller Centraliser, is capable of providing high centralizing loads. Loads taken by the arms are fully adjustable, to support individual toolstring configurations in deviated wells. A swivel unit is incorporated into the top sub to prevent any torsional force from being transmitted into the wire.

Available tool sizes as shown.

Tools Body O.D.	Arm Range Size O.D.	Fishneck O.D.	Connection Type
1.875"	2.000"-4.000"	1.750"	UN/JHQ/JHP
2.500"	2.560"-4.250"	2.313"	UN/JHQ/JHP
3.250"	3.300"-5.500"	2.313"	UN/JHQ/JHP
4,940"	5.000"-8.000"	2.313"	UN/JHQ/JHP

Adjustable Spring Roller Centraliser

Wireline Tools

III-Auxiliary Tools

1 Centralisers

1.5 Multi-Roller Wheel Stem

Multi-Roller Wheel Stem is designed to provide centralising for connecting toolstring in high angle deviated wells. The short and compact design facilitates a 360-degree wheel contact, thus reducing friction or 'drag' caused by full contact area of the toolstring and the tubing wall.

Available tool sizes as shown.

Tools Body O.D.	Fishneck O.D.	Length	Effective O.D.	Connection Type
1.500"	1.375"	24"	1.750"	UN/JHQ/JHP
		36"		
		60"		
1.875"	1.750"	24"	2.000"	UN/JHQ/JHP
		36"	2.125"	
		60"	2.250"	
2.125"	1.750"	24"	2.250"	UN/JHQ/JHP
		36"	2.375"	
			2.500"	
		60"	2.625"	
2.500"	2.313"	24"	2.710"	UN/JHQ/JHP
		36"	2.900"	
		60"	3.000"	
			3.250"	

Multi-Roller Wheel Stem

Wireline Tools

III-Auxiliary Tools

2 Sand Bailer

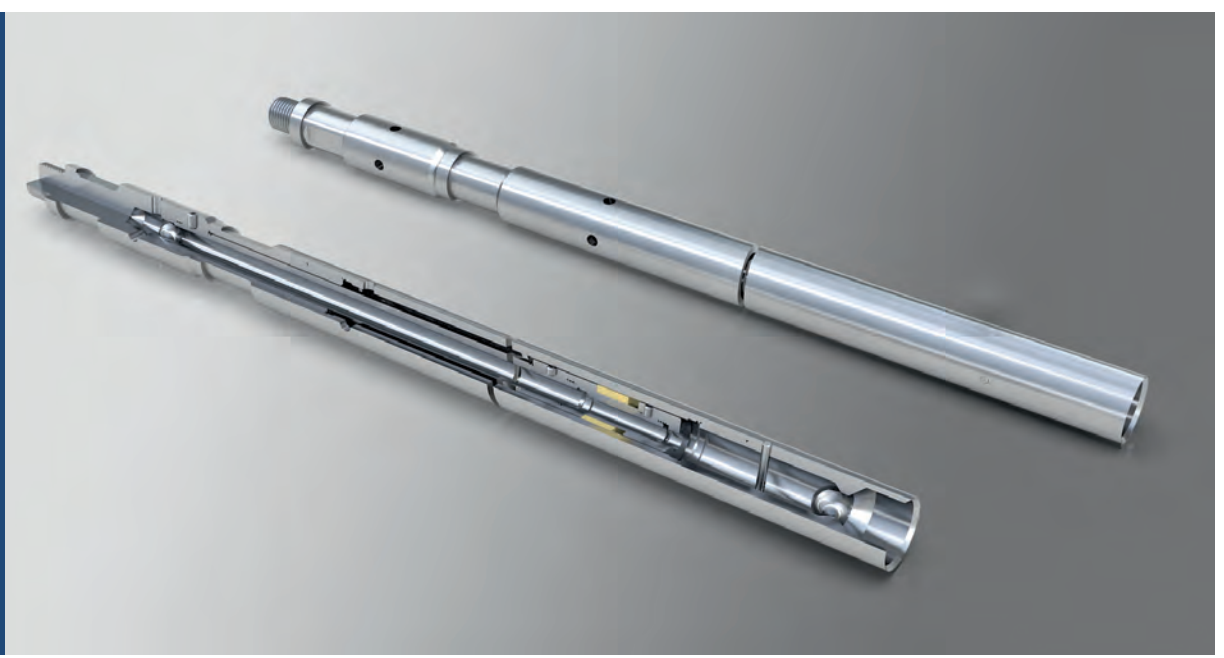
2.1 Sand Pump Bailer

Sand Pump Bailer is designed to remove sand and small debris accumulated on top of subsurface equipment within the well that is obstructing the recovery of the equipment by regular wireline operations. It consists of a piston within a cylinder. Gentle jarring up and down of the wireline causes the piston to suck debris into the cylinder for retrieval. A ball check valve then prevents the debris from being lost.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length	Capacity Per foot*
1.250"	1.187"	UN/JHQ/JHP	60"	0.2 Litres
1.500"	1.375"	UN/JHQ/JHP	60"	0.2 Litres
1.625"	1.375"	UN/JHQ/JHP	60"	0.2 Litres
1.750"	1.375"	UN/JHQ/JHP	60"	0.3 Litres
1.875"	1.750"	UN/JHQ/JHP	60"	0.3 Litres
2.000"	1.750"	UN/JHQ/JHP	60"	0.4 Litres
2.250"	1.750"	UN/JHQ/JHP	60"	0.5 Litres
2.500"	2.313"	UN/JHQ/JHP	60"	0.6 Litres
2.625"	2.313"	UN/JHQ/JHP	60"	0.7 Litres
3.000"	2.313"	UN/JHQ/JHP	60"	0.9 Litres
3.500"	2.313"	UN/JHQ/JHP	60"	1.3 Litres
5.000"	3.125"	UN/JHQ/JHP	60"	2.8 Litres

Sand Pump Bailer



Wireline Tools

III-Auxiliary Tools

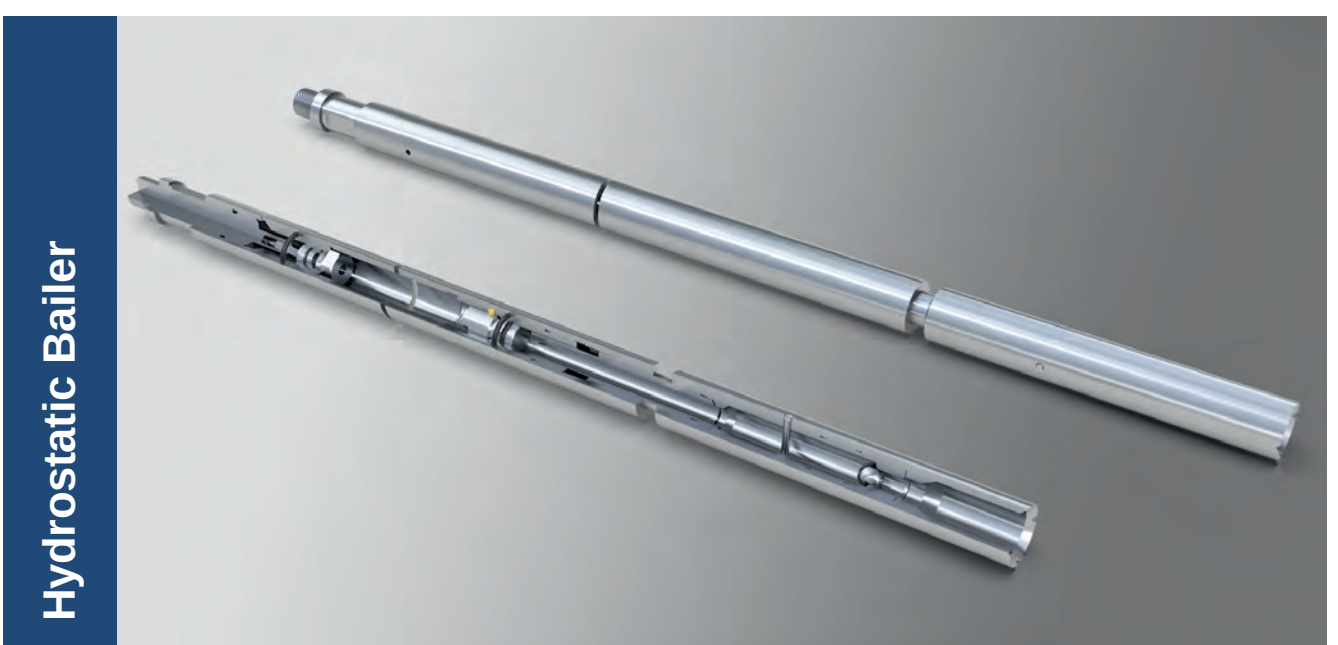
2 Sand Bailers

2.2 Hydrostatic Bailer

Hydrostatic Bailer is designed to remove small debris accumulated on top of subsurface equipment within the well thus obstructing the recovery of the equipment by regular wireline operations. Unlike traditional pump bailer, it is able to collect solid debris from the wellbore by means of suction through differential hydrostatic pressure.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length	Capacity Per foot*
1.250"	1.187"	UN/JHQ/JHP	60"	0.2 Litres
1.500"	1.375"	UN/JHQ/JHP	60"	0.2 Litres
1.750"	1.375"	UN/JHQ/JHP	60"	0.3 Litres
1.875"	1.750"	UN/JHQ/JHP	60"	0.3 Litres
2.000"	1.750"	UN/JHQ/JHP	60"	0.4 Litres
2.250"	1.750"	UN/JHQ/JHP	60"	0.5 Litres
2.500"	2.313"	UN/JHQ/JHP	60"	0.6 Litres
2.625"	2.313"	UN/JHQ/JHP	60"	0.7 Litres
3.000"	2.313"	UN/JHQ/JHP	60"	0.9 Litres
3.500"	2.313"	UN/JHQ/JHP	60"	1.3 Litres
4.000"	3.125"	UN/JHQ/JHP	60"	1.8 Litres



Wireline Tools

III-Auxiliary Tools

2 Sand Bailers

2.3 Sample Bailer

Sample Bailer is designed to collect samples such as sand and small debris accumulated on top of subsurface equipment within the well that is obstructing the recovery of the equipment. Jarring down will force the angled mule shoe at the bottom to cut into the debris and samples are collected and retained as the ball or flapper closes while retrieving the bailer.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length	Capacity Per foot*
1.500"	1.375"	UN/JHQ/JHP	17.25"	0.2 Litres
1.750"	1.375"	UN/JHQ/JHP	17.25"	0.2 Litres
1.875"	1.750"	UN/JHQ/JHP	17.25"	0.3 Litres
2.000"	1.750"	UN/JHQ/JHP	17.50"	0.4 Litres
2.500"	2.313"	UN/JHQ/JHP	17.75"	0.6 Litres
3.000"	2.313"	UN/JHQ/JHP	18.25"	0.9 Litres

Sample Bailer

Wireline Tools

III-Auxiliary Tools

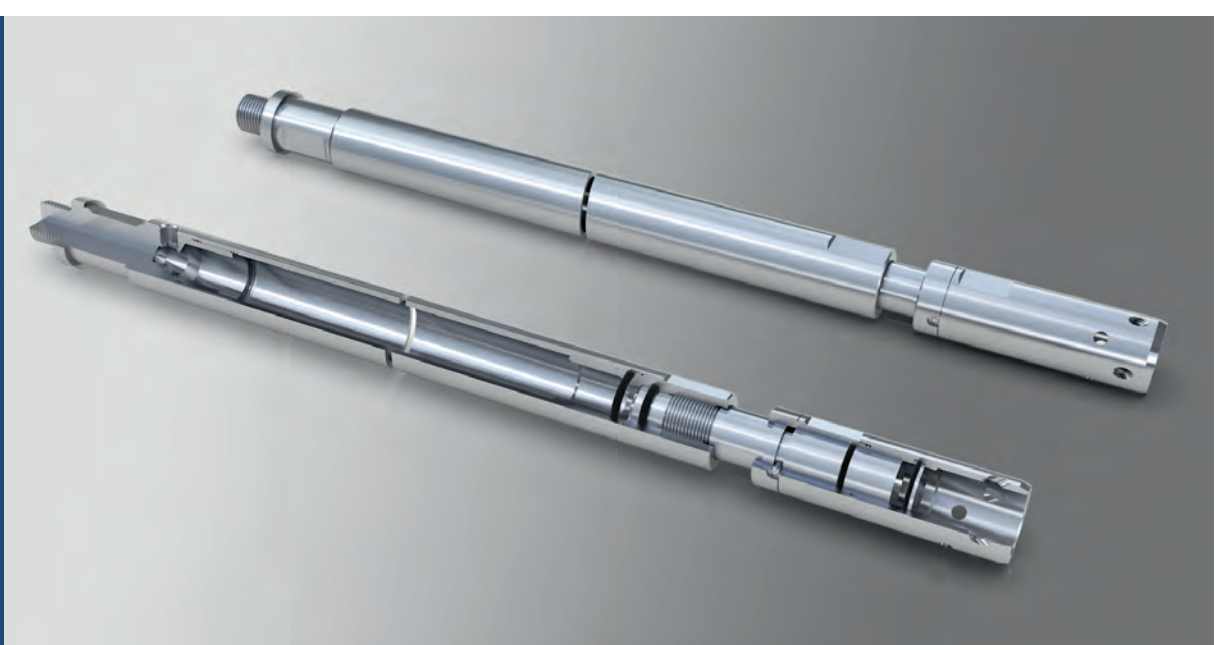
3 Dump Bailer - Inverted

Dump Bailer -Inverted type is designed to carry heavy viscosity liquid such as cement and other fluids to be released into the wellbore on top of any subsurface tools. The tool operates by downward jarring to shear the pin, causing the plunger to rupture the shear disc and allowing the fluid within to be released/dumped through the bore beneath.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Length	Capacity Per foot*
1.750"	1.375"	UN/JHQ/JHP	60"	0.3 Litres
2.000"	1.750"	UN/JHQ/JHP	60"	0.4 Litres
2.250"	1.750"	UN/JHQ/JHP	60"	0.5 Litres
2.500"	2.313"	UN/JHQ/JHP	60"	0.6 Litres
3.000"	2.313"	UN/JHQ/JHP	60"	0.9 Litres
3.500"	2.313"	UN/JHQ/JHP	60"	1.3 Litres

Dump Bailer - Inverted



Wireline Tools

III-Auxiliary Tools

4 Tubing Swage

Tubing Swage is used for the swaging of collapsed tubing to ensure the smooth of wireline run flow control devices.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

Wireline Tools

III-Auxiliary Tools

5 Tubing Cutters

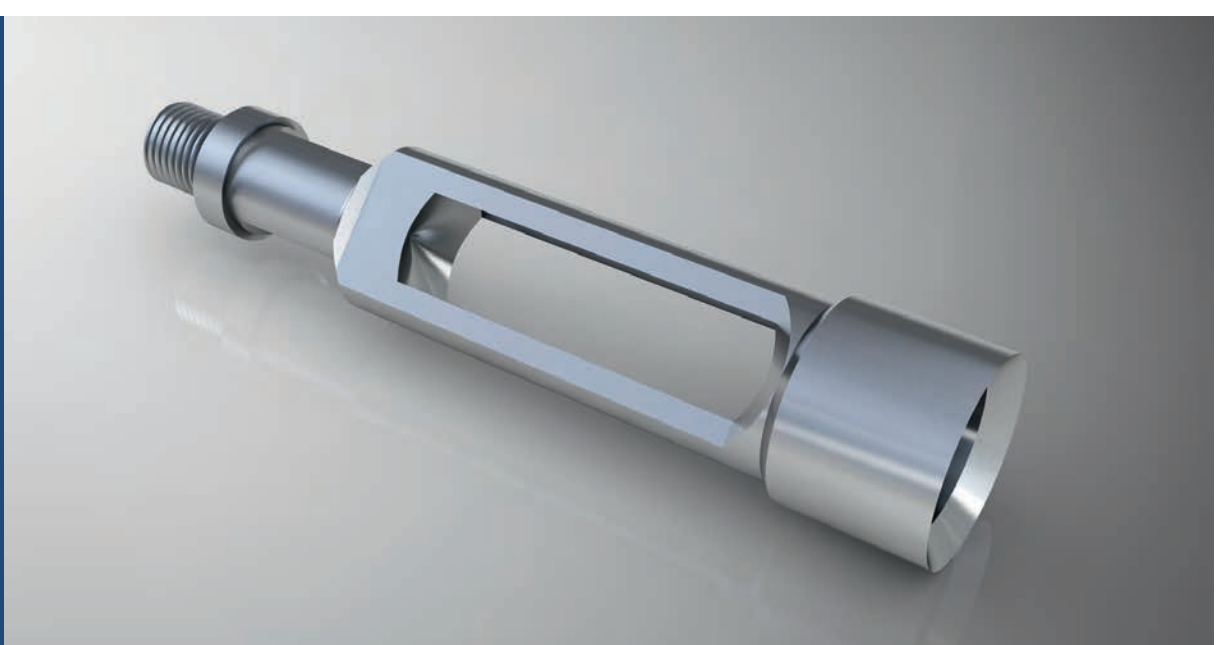
5.1 Gauge Cutter

Gauge Cutter serves as a tubing scraper that removes debris from the tubing wall, it can also be used to check tubing ID, locate nipple ID and No-Go and gauge the total depth of the completion tubing string. It is a good practice to run a Tubing Gauge Cutter prior to any operations carried out in the well to ensure smooth unimpeded run.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

Gauge Cutter



Wireline Tools

III-Auxiliary Tools

5 Tubing Cutters

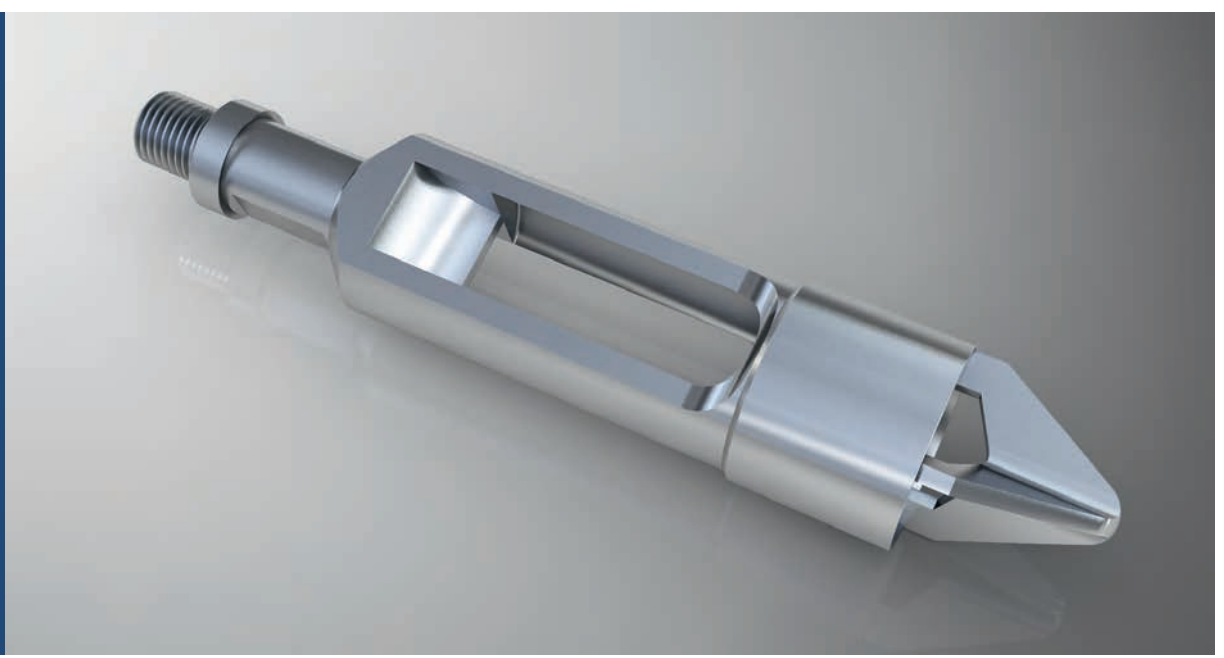
5.2 Taper Gauge Cutter

Taper Gauge Cutter is a designed tubing scraper that removes debris from the tubing wall, it can also be used to check tubing ID, locate nipple ID and No-Go and gauge the total depth of the completion tubing string. The tapered end serves as a guide for running pass bottom hole assemblies.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

Taper Gauge Cutter



Wireline Tools

III-Auxiliary Tools

5 Tubing Cutters

5.3 One Way Tubing Broach

Tubing Broach is designed as a downhole file to remove tubing restriction such as rust scale, and to repair damaged or collapsed tubing joint with its hardened, tempered cutting edges. One Way Tubing Broach is suitable to re-form the tubing wall through unidirectional jarring.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

One Way Tubing Broach

Wireline Tools

III-Auxiliary Tools

5 Tubing Cutters

5.4 Two Way Tubing Broach

Tubing Broach is designed as a downhole file to remove tubing restriction such as rust scale, and to repair damaged or collapsed tubing joint with its hardened, tempered cutting edges. Two Way Tubing Broach is suitable to re-form the tubing wall through bidirectional jarring.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

Tubing Broach

Wireline Tools

III-Auxiliary Tools

5 Tubing Cutters

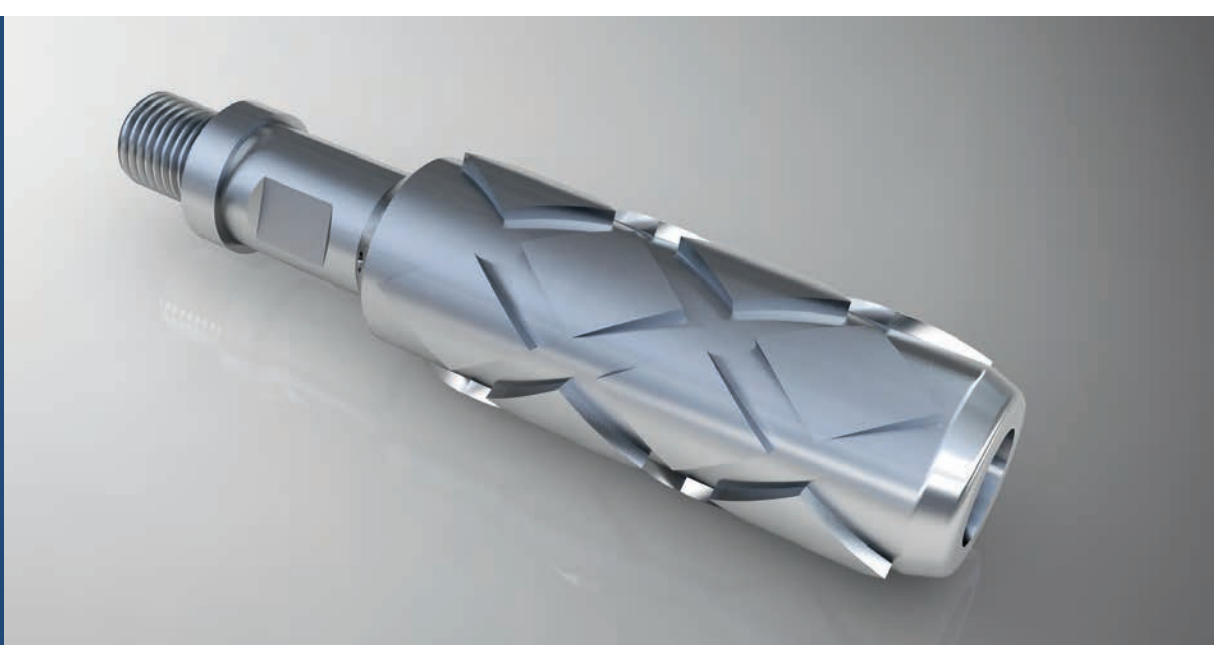
5.5 Diamond Back Broach

Diamond Back Broach is designed as the heavy-duty version of Tubing Broach to remove tubing restriction such as rust scale, tubing joint collapse, etc. with its hardened, tempered cutting edges.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.250″ -1.499″	1.187″	UN/JHQ/JHP
1.500″ -1.999″	1.375″	UN/JHQ/JHP
2.000″ -2.499″	1.375″	UN/JHQ/JHP
2.500″ -2.999″	1.750″	UN/JHQ/JHP
3.000″ -3.499″	1.750″	UN/JHQ/JHP
3.500″ -3.999″	1.750″	UN/JHQ/JHP
4.000″ -4.499″	2.313″	UN/JHQ/JHP

Diamond Back Broach



Wireline Tools

III-Auxiliary Tools

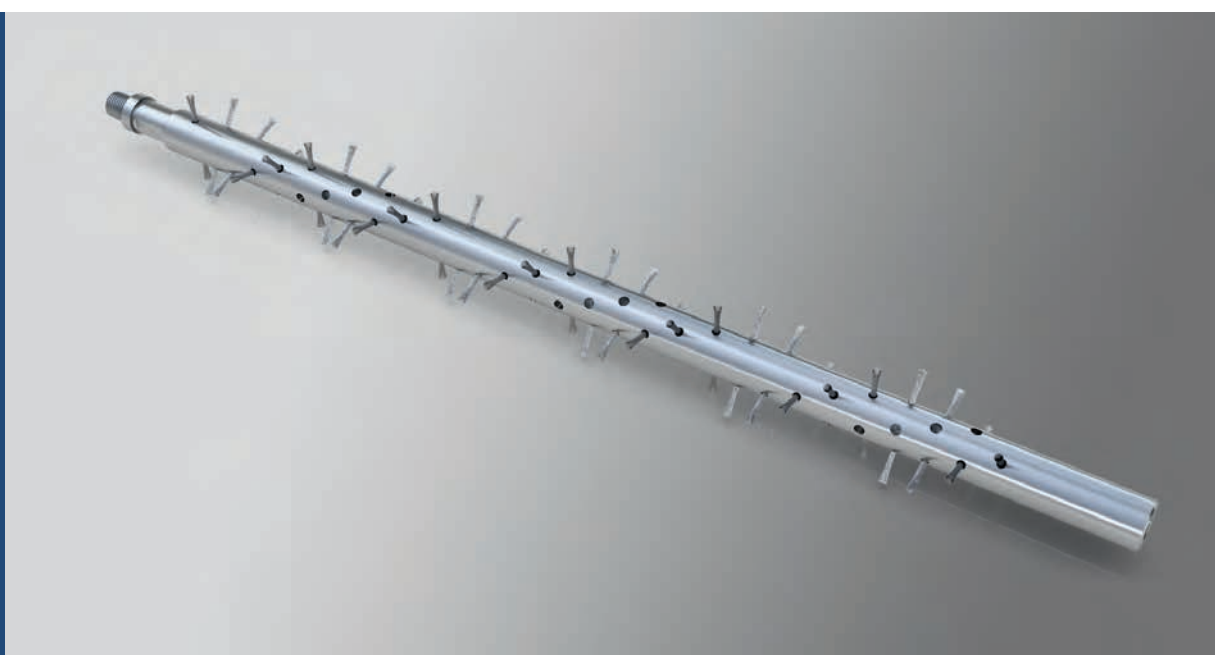
6 Wireline Brush

Wireline Brush is used to dislodge scale, paraffin wax or packing debris. A wire size of up to 3/16”is looped (or cut to suitable lengths) and inserted in holes and retained with locking screws.

Available tool sizes as shown.

Tools Body O.D.	Fishneck O.D.	Connection Type	Length	Wire Size
1.500"	1.375"	UN/JHQ/JHP	24"	7/32"
			36"	
1.875"	1.750"	UN/JHQ/JHP	24"	
			36"	
2.000"	1.750"	UN/JHQ/JHP	24"	
			36"	
2.125"	1.750"	UN/JHQ/JHP	24"	
			36"	
2.500"	2.313"	UN/JHQ/JHP	24"	
			36"	

Wireline Brush



Wireline Tools

III-Auxiliary Tools

7 Tubing End Locators

7.1 Standard Tubing End Locator

Standard Tubing End Locator is designed to locate & measure depth of tubing end at completion to provide a cross reference check of the tubing tally. Normally attached to the end of the toolstring It is run through the production string and enter the casing.

Available tool sizes as shown.

Tubing Range	Tools Body O.D.	Fishneck O.D.	Connection Type
2 3/8"& 2 7/8"	1.500"	1.375"	UN/JHQ/JHP
2 7/8"& 3 1/2"	1.875"	1.750"	UN/JHQ/JHP
2 7/8"& 3 1/2"	2.000"	1.750"	UN/JHQ/JHP
3 1/2"& 4 1/2"	2.500"	2.313"	UN/JHQ/JHP
5"& 7"	3.500"	2.313"	UN/JHQ/JHP

Standard Tubing End Locator

Wireline Tools

III-Auxiliary Tools

7 Tubing End Locators

7.2 Two Arm Repeatable Tubing End Locator

Two Arm Repeatable Tubing End Locator is used to provide accurate wireline toolstring depth correlation. Provision is made to adjust the spring tension, which acts to naturally keep the arms open. Wheels in the end of the arms reduce drag whilst running in hole.

Available tool sizes as shown.

Body O.D.	Max O.D.	Fishneck O.D.	Connection Type
1.700"	3.020"	1.375"	UN/JHQ/JHP
2.000"	3.570"	1.750"	UN/JHQ/JHP
2.370"	4.380"	1.750"	UN/JHQ/JHP
2.880"	4.810"	1.750"	UN/JHQ/JHP
3.000"	5.340"	2.313"	UN/JHQ/JHP

Two Arm Repeatable Tubing End Locator

Wireline Tools

III-Auxiliary Tools

8 Anti Blow-Up Tool

Anti Blow-Up Tool is designed to be used as part of the toolstring when intervention operation took place in a multizone completion well where high cross flow or differential pressures is present. In the situation that the differential flow rates between zones push the toolstring upwards, the two arms on the tool will throw outward and lock into the tubing wall preventing the toolstring from blowing up.

Available tool sizes as shown.

Tubing Range	Tools Body O.D.	Fishneck O.D.	Connection Type
2 3/8"& 2 7/8"	1.500"	1.375"	UN/JHQ/JHP
2 7/8"& 3 1/2"	1.875"	1.750"	UN/JHQ/JHP

Anti Blow-Up Tool

Wireline Tools

III-Auxiliary Tools

9 Junk Basket/Catcher

Junk Basket/Catcher is designed to catch and retrieve gas valve or dummy tool that fells when changing out in the gas well operation. It is commonly located in a No-Go Landing Nipple which is directly below a side pocket mandrel. The tool also serves as a debris collector when being placed above flow control equipment. The design comes with a fish neck top sub that is used to run and set the tool in place. Downward jarring will shear the pin to release the top sub.

Available tool sizes as shown.

Tools O.D.	Fishneck I.D.
2.750"	2.313"

Junk Basket/Catcher

Wireline Tools

III-Auxiliary Tools

10 Wireline Tubing Perforator

Wireline Tubing Perforator is a non-explosive mechanical punch designed to perforate holes in standard and heavy wall production tubing that is under pressure. It can be deployed into the well by conventional method, and commonly used in the condition that Sliding Side Door (SSD) becomes stuck or malfunction and the punched holes will help with the well kill operation by circulating 'kill fluid' or 'kill mud' into the production tubing.

Available tool sizes as shown.

Tubing Size	Fishneck O.D.	Connection Type	Punch Size
2 7/8"	1.375"	UN/JHQ/JHP	3/8"
3 1/2"	1.750"	UN/JHQ/JHP	7/16"

Wireline Tubing Perforator

Wireline Tools

III-Auxiliary Tools

11 Taper Guide

Taper Guide is designed as a guiding tool for downhole equipment.

Available tool sizes as shown.

Tools Body O.D.	Fishneck O.D.	Connection Type
1.250"	1.187"	UN/JHQ/JHP
1.500"	1.375"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
1.875"	1.750"	UN/JHQ/JHP
2.000"	1.750"	UN/JHQ/JHP
2.250"	1.750"	UN/JHQ/JHP
2.500"	2.313"	UN/JHQ/JHP

Taper Guide

Wireline Tools

III-Auxiliary Tools

12 Thread Chaser

Thread Chaser is an essential tool for all wireline toolbox, to use as redress tool for damaged sucker rod connections.

Available tool sizes as shown.

Redress Connection Size
15/16"-10UN
1 1/16"-10UN
1 9/16"-10UN

Thread Chaser

Wireline Tools

IV-Fishing Tools

1 Wireline Wirefinder

Wireline Wirefinder is used to collect and ball up broken wire or cable down hole prior to running the Wireline Grab for retrieval.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.500"-2.499"	1.375"	UN/JHQ/JHP
2.500"-3.499"	1.750"	UN/JHQ/JHP
3.500"-4.999"	2.313"	UN/JHQ/JHP

Wireline Wirefinder

Wireline Tools

IV-Fishing Tools

2 Wireline Retriever/Finder

Wireline Retriever/Finder is an efficient wireline fishing tool designed to both locate and retrieve uppermost wire or small braided cable that has broken and fell into the wellbore.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Slot Finder Skirts O.D.	To Suit Tubing Size
			1.825"-1.995"	2 3/8"
			1.996"-2.441"	2 7/8"
1.500"	1.375"	UN/JHQ/JHP	2.442"-2.649"	3 1/2"
			2.650"-2.800"	3 1/2"
			3.070"-3.375"	4"

Wireline Retriever/Finder

Wireline Tools

IV-Fishing Tools

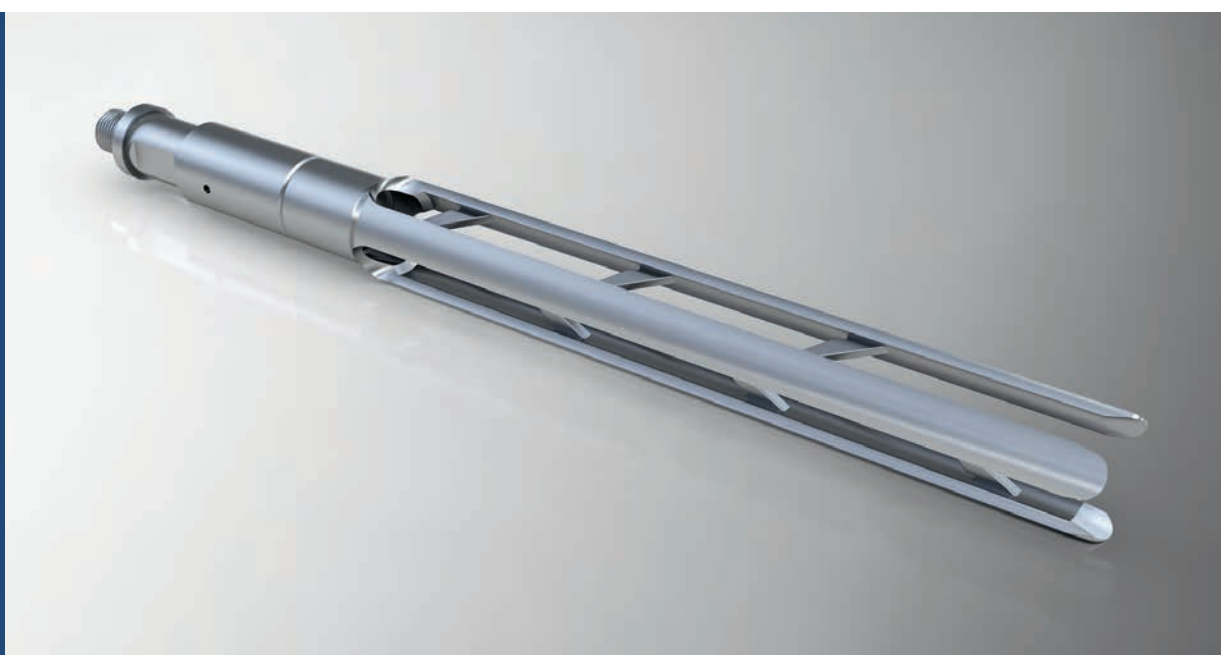
3 Wireline Grab

Wireline Grab is a wireline fishing tool designed to retrieve wire or cable that has broken and fell into the wellbore.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	No.of Prongs
1.500"	1.187"	UN/JHQ/JHP	2
1.750"	1.375"	UN/JHQ/JHP	3
2.250"	1.750"	UN/JHQ/JHP	3
2.625"	1.750"	UN/JHQ/JHP	3
3.000"	1.750"	UN/JHQ/JHP	3
3.500"	2.313"	UN/JHQ/JHP	3
4.000"	2.313"	UN/JHQ/JHP	3
4.500"	2.313"	UN/JHQ/JHP	3

Wireline Grab



Wireline Tools

IV-Fishing Tools

4 Centre Spear

Centre Spear is a wireline fishing tool designed to retrieve wire that has broken and fell into the wellbore. Unlike Wireline Grab, this tool has its teeth/barb welded on a piece of pointed rod.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.500"	1.187"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
1.875"	1.750"	UN/JHQ/JHP
2.000"	1.750"	UN/JHQ/JHP
2.250"	1.750"	UN/JHQ/JHP
2.500"	1.750"	UN/JHQ/JHP
2.750"	1.750"	UN/JHQ/JHP
3.000"	1.750"	UN/JHQ/JHP

Centre Spear

Wireline Tools

IV-Fishing Tools

5 Finder Spear

Finder Spear is designed to locate and retrieve balled up broken wire that has become stuck in the wellbore. The combination of Wireline Finder and Centre Spear completes the search and fishing in one operation.

Available size range as shown.

Size Range	Fishneck O.D.	Connection Type
1.500"-2.499"	1.375"	UN/JHQ/JHP
2.500"-3.499"	1.750"	UN/JHQ/JHP
3.500"-4.999"	2.313"	UN/JHQ/JHP

Finder Spear

Wireline Tools

IV-Fishing Tools

6 Blind Box

Blind Box is designed as a solid flat bottom tool used to push down obstructions in the tubing through heavy downward jarring. The tool can also serve as a cutting tool by jarring down to break the wire on rope socket. The OD of the Blind Box is made to suit the tubing ID, preventing the tool from bypassing the rope socket and wedged in.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.500"	1.187"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
1.875"	1.750"	UN/JHQ/JHP
2.000"	1.750"	UN/JHQ/JHP
2.250"	1.750"	UN/JHQ/JHP
2.500"	1.750"	UN/JHQ/JHP
2.750"	1.750"	UN/JHQ/JHP
3.000"	1.750"	UN/JHQ/JHP

Blind Box

Wireline Tools

IV-Fishing Tools

7 Wireline Snipper

Wireline Snipper is designed to retrieve stuck wireline above rope socket with the condition that the wire is still accessible at surface. The weight of the tool itself upon free fall impact completes the wire cutting and crimping at the same time.

Available tool sizes as shown.

Tools Body O.D.	Fishneck O.D.	Connection Type
1.500"	1.375"	0.092"-0.125"
		0.187"
1.875"	1.375"	0.092"-0.125"
		0.187"
2.000"	1.750"	0.092"-0.218"
2.500"	1.750"	0.092"-0.218"

Wireline Tools

IV-Fishing Tools

8 Wireline Rotary Cutter

Wireline Rotary Cutter is used to cut the wireline when downhole tools become stuck. The cutter is run under its own weight guided by the wire. When the cutter strikes the tool, the shock is transmitted to the rotating knife, which shears the wire. The rotation of the knife pushes a tapered slip upward to wedge the wire so that both the cutter and wire can be retrieved.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.500"	1.375"	0.092"-0.125"
1.875"	1.750"	0.092"-0.218"
2.187"	1.750"	0.108"-0.312"

Wireline Rotary Cutter

Wireline Tools

IV-Fishing Tools

9 Wireline GO-Devils

9.1 Flat Bottomed Go-Devil

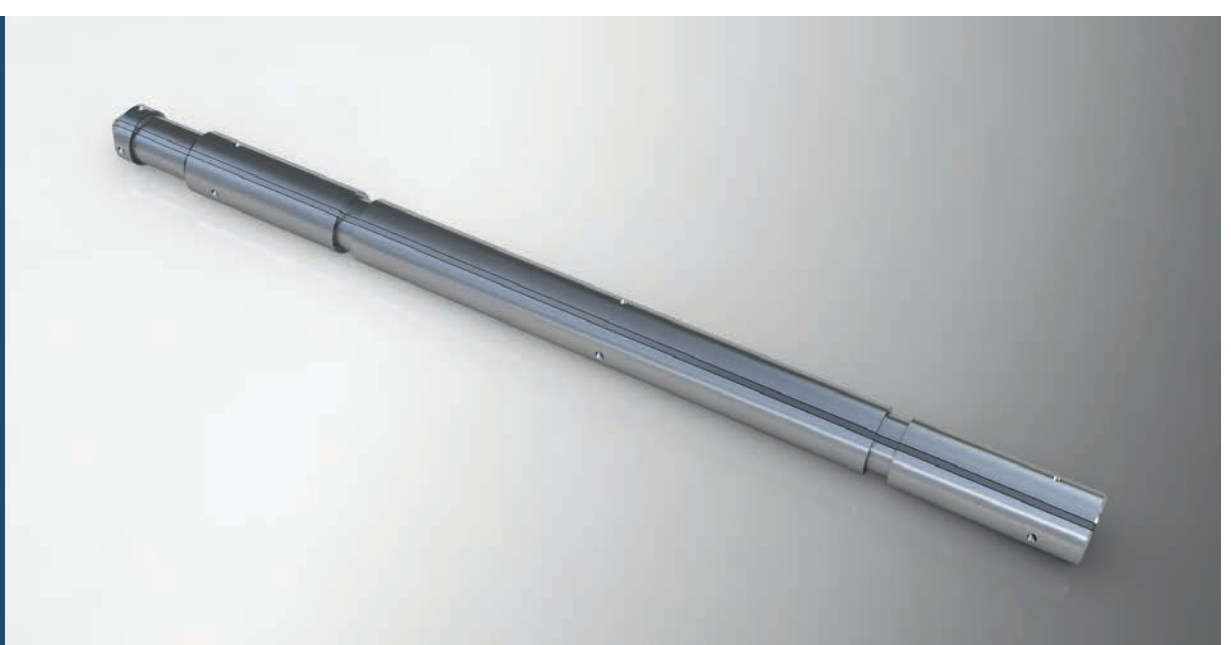
Wireline Go-Devil is designed to cut conventional wireline from a stuck toolstring. It has milled slot with filler plates to keep wire in place, ensuring a smooth run downhole.

Flat Bottomed Go-Devil is often used when debris or sand particles presented above rope socket prevent cutter tools to function properly. This design can also be used as a cutting base on sand /wire and to assist toolstring back into the tubing.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Length (ft)	To Suit Wire Size
1.500"	1.375"	2'	0.092"-0.108" 0.125" 0.187"
		3'	
		5'	
1.875"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.125"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.500"	2.313"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	

Flat Bottomed Go-Devil



Wireline Tools

IV-Fishing Tools

9 Wireline GO-Devils

9.2 Cutter Bar Go-Devil

Cutter Bar Go-Devil is often used to slice the wire on the rope socket with its beveled end in the condition that the rope socket is free from sand and other debris.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Length (ft)	To Suit Wire Size
1.500"	1.375"	2'	0.092"-0.108" 0.125" 0.187"
		3'	
		5'	
1.875"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.125"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.500"	2.313"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	

Cutter Bar Go-Devil

Wireline Tools

IV-Fishing Tools

9 Wireline GO-Devils

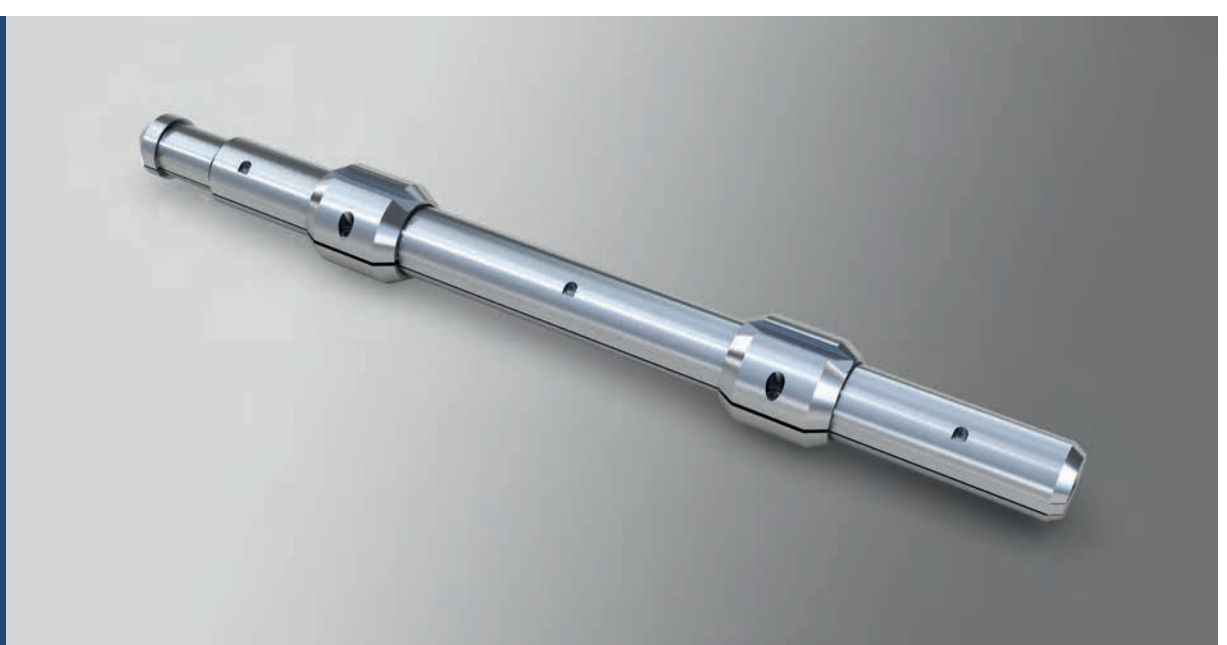
9.3 Flat Bottomed Go-Devil with Slip Over Centraliser

Flat Bottomed Go-Devil with Slip Over Centraliser has additional slip over centraliser that provide centralisation for fishing tools with small OD inside a tubing of large ID.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Length (ft)	To Suit Wire Size
1.500"	1.375"	2'	0.092"-0.108" 0.125" 0.187"
		3'	
		5'	
1.875"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.125"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.500"	2.313"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	

Flat Bottomed Go-Devil with Slip Over Centraliser



IV-Fishing Tools

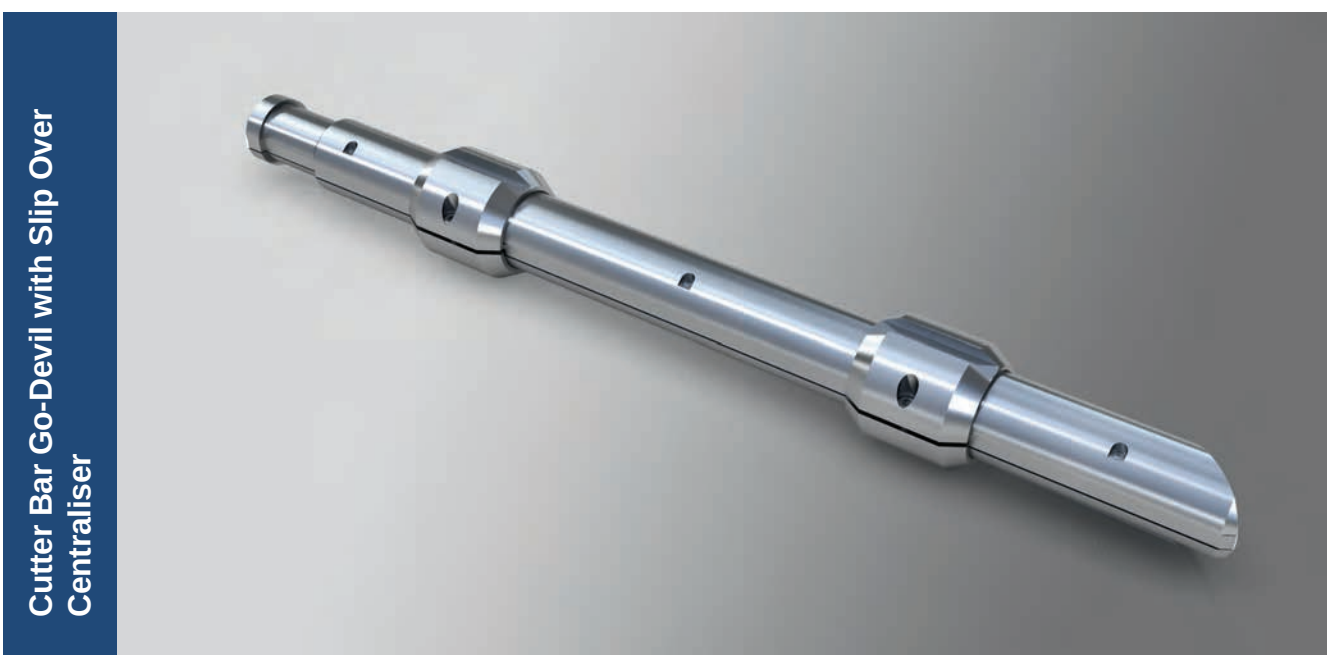
9 Wireline GO-Devils

9.4 Cutter Bar Go-Devil with Slip Over Centraliser

Cutter Bar Go-Devil with Slip Over Centraliser has additional slip over centraliser that provide centralisation for fishing tools with small OD inside a tubing of large ID.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Length (ft)	To Suit Wire Size
1.500"	1.375"	2'	0.092"-0.108" 0.125" 0.187"
		3'	
		5'	
1.875"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.125"	1.750"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	
2.500"	2.313"	2'	0.092"-0.108" 0.125" 0.187" 0.218"
		3'	
		5'	



Cutter Bar Go-Devil with Slip Over Centraliser

Wireline Tools

IV-Fishing Tools

10 Sidewall Cutter

Sidewall Cutter is designed to cut the wireline at any point within the tubing string. It runs into the tubing (Running Prong Optional) alongside the wire until the required depth is reached. Gentle downward jarring then activates the cutter. This shears the pin allowing the mandrel to force the cutter against the tubing wall. Further downward jarring will cause the cutter blades to sever the wireline.

Available tool sizes as shown.

Pinned Collet O.D.	Sheared Collet O.D.	Fishneck O.D.	Wire Size(Maximum)
1.670"	2.140"	1.375"	0.125"
2.120"	2.650"	1.750"	0.125"
2.510"	3.100"	1.750"	0.125"

Wireline Tools

IV-Fishing Tools

11 Lead Impression Block

Lead Impression Block is a lead filled steel cylinder tool primarily used in fishing operations to obtained impression of an unknown object within the tubing string. Upon light downward jarring, the shape, size and position of the top of the object will be imprinted on the soft lead that will provide information to determine the tools required for the next fishing operation.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.500"	1.187"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
1.875"	1.750"	UN/JHQ/JHP
2.000"	1.750"	UN/JHQ/JHP
2.250"	1.750"	UN/JHQ/JHP
2.500"	1.750"	UN/JHQ/JHP
2.750"	1.750"	UN/JHQ/JHP
3.000"	1.750"	UN/JHQ/JHP

Lead Impression Block

Wireline Tools

IV-Fishing Tools

12 Self Releasable Internal Fishing Spear

Self Releasable Internal Fishing Spear is a fishing tool especially designed to retrieve down hole flow control devices that have damaged fishing necks. The tool is run to depth and the collet retracts to allow entry into the fish. Upward jarring can then be continued to free the fish. To release from the fish, downward jarring will shear the pin and activate the release mandrel.

Available tool sizes as shown.

Nom Size	Tools O.D.	Fishneck O.D.	Connection Type	Collet Range
2.000"	1.750"	1.375"	UN/JHQ/JHP	1.000"-1.625"
2.500"	2.250"	1.750"	UN/JHQ/JHP	1.375"-1.875"
3.000"	2.700"	1.750"	UN/JHQ/JHP	1.500"-2.500"

Self Releasable Internal Fishing Spear

Wireline Tools

IV-Fishing Tools

13 Wireline Overshot

Wireline Overshot is designed for use when wear and other mechanical damage prevent the engagement of a regular pulling tool. It is also to engage equipment of a specific diameter. Although a given size tool may be used to engage a range of diameters, simply by installing the appropriate size set of slips.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type	Slip Will Engage
1.750"	1.375"	UN/JHQ/JHP	0.50"-0.75"
			0.75"-1.00"
			1.00"-1.25"
1.850"	1.375"	UN/JHQ/JHP	0.50"-0.75"
			0.75"-1.00"
			1.00"-1.25"
			1.25"-1.50"
2.250"	1.375"	UN/JHQ/JHP	0.50"-0.75"
			0.75"-1.00"
			1.00"-1.25"
			1.25"-1.50"
2.625"	1.750"	UN/JHQ/JHP	0.50"-0.75"
			0.75"-1.00"
			1.00"-1.25"
			1.25"-1.50"
			1.50"-2.00"
			1.75"-2.00"
2.650"	1.750″	UN/JHQ/JHP	0.50"-0.75"
			0.75"-1.00"
			1.00"-1.25"
			1.25"-1.50"
			1.50"-2.00"
			1.75"-2.00"
3.350"	2.313"	UN/JHQ/JHP	0.50"-0.80"
			0.80"-1.10"
			1.10"-1.40"
			1.40"-1.70"
			1.70"-2.00"
			2.00"-2.30"
			2.30"-2.60"
3.800"	2.313"	UN/JHQ/JHP	0.50"-0.80"
			0.80"-1.10"
			1.10"-1.40"
			1.40"-1.70"
			1.70"-2.00"
			2.00"-2.30"
			2.30"-2.60"
			2.60"-2.90"

Wireline Overshot

Wireline Tools

IV-Fishing Tools

14 Releasable Overshot

Releasable Overshot is a wireline tool designed for retrieving equipment where the fish neck has parted or is no longer serviceable. The robust design of the Overshot allows for prolonged and serve jarring as is often the case during fishing operations. The tool is released by downward jarring whereby pins are sheared allowing the inner mandrel to travel up pulling the collet fingers from the tapered bottom sub housing.

Available tool sizes as shown.

Nom Size	Tools O.D.	Fishneck O.D.	Connection Type	Slip Range (In 1/8" Increments)
2.000"	1.75"	1.375"	UN/JHQ/JHP	0.500"-1.375"
	1.85"			0.500"-1.375"
2.500"	2.25"	1.750"	UN/JHQ/JHP	0.500"-1.750"
3.000"	2.625"	1.750"	UN/JHQ/JHP	0.500"-1.750"
	2.650"			0.500"-2.125"
	2.740"			0.500"-2.125"
3.500"	3.350"	2.313"	UN/JHQ/JHP	0.500"-2.750"
4.000"	3.800"	2.313"	UN/JHQ/JHP	0.500"-3.000"
5.000"	4.150"	3.125"	UN/JHQ/JHP	0.375"-3.500"

Releasable Overshot

Wireline Tools

IV-Fishing Tools

15 Alligator Grab

Alligator Grab is a wireline fishing tool used in recovering loose objects. Prior to running into the well, operator can predetermine set the amount of spring tension that will give its jaws an effective grip on the fish. The retaining pin will keep the jaw in place until the pin is sheared by downward jarring, allowing the jaws to bite onto the fish. It is not recommended to be used on operation involve heavy downward jarring.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
1.500"	1.375"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
2.250"	1.750"	UN/JHQ/JHP
2.600"	2.313"	UN/JHQ/JHP

Alligator Grab

Wireline Tools

IV-Fishing Tools

16 Wireline Magnet

Wireline Magnet is a special purpose fishing tool designed to retrieve debris such as pieces of small ferrous metal that are attractable to magnet, found on top of subsurface control device. The magnet component is contained within a demagnetised sleeve and upon reaching the top of the device with fallen metal pieces, the magnet is force down to collect and clear any debris that prevent the retrieval of the subsurface tool.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection
1.500"	1.187"	UN/JHQ/JHP
1.750"	1.375"	UN/JHQ/JHP
2.000"	1.375"	UN/JHQ/JHP
2.250"	1.375"	UN/JHQ/JHP
2.500"	1.375"	UN/JHQ/JHP
2.750"	1.750"	UN/JHQ/JHP
3.000"	1.750"	UN/JHQ/JHP

Wireline Magnet

Wireline Tools

IV-Fishing Tools

17 Type GO Fishing Socket

Type GO Fishing Socket is used primarily to extract subsurface equipment. It is also commonly used for latching tools with fishing necks that have become badly damaged during regular pulling operations. It can also be used as an overshot when attached with an extended cylinder, to latch a fishing neck below an extra-long stub looking up.

Available tool sizes as shown.

Nom Size	Actual O.D.	Fishneck O.D.	Connection Type	Will Engage
2.000"	1.840"	1.375"	UN/JHQ/JHP	1.000"
2.000"	1.840"	1.375"	UN/JHQ/JHP	1.375"
2.500"	2.340"	1.375"	UN/JHQ/JHP	1.750"
3.000"	2.880"	1.750"	UN/JHQ/JHP	2.313"
4.000"	3.750"	2.313"	UN/JHQ/JHP	3.125"

Type GO Fishing Socket

Wireline Tools

IV-Fishing Tools

18 Bull Dog Spear

Bull Dog Spear is a fishing tool designed to catch tubular sections lost in the well bore or damaged internal fishing necks of flow control devices.

Available tool sizes as shown.

Body Dia	Collet Dia	Fishneck O.D.	Connection Type
1.250"	1.250"	1.187"	UN/JHQ/JHP
1.500"	1.750"	1.375"	UN/JHQ/JHP
1.750"	2.000"		UN/JHQ/JHP
2.000"	2.250"		UN/JHQ/JHP
2.000"	2.500"		UN/JHQ/JHP
2.500"	2.750"	1.750"	UN/JHQ/JHP
2.500"	2.800"		UN/JHQ/JHP
2.500"	2.840"		UN/JHQ/JHP
2.875"	3.000"		UN/JHQ/JHP
2.875"	3.250"		UN/JHQ/JHP
2.875"	3.500"		UN/JHQ/JHP
3.375"	3.750"	1.750"	UN/JHQ/JHP
3.375"	3.875"		UN/JHQ/JHP
3.375"	4.000"		UN/JHQ/JHP

Wireline Tools

IV-Fishing Tools

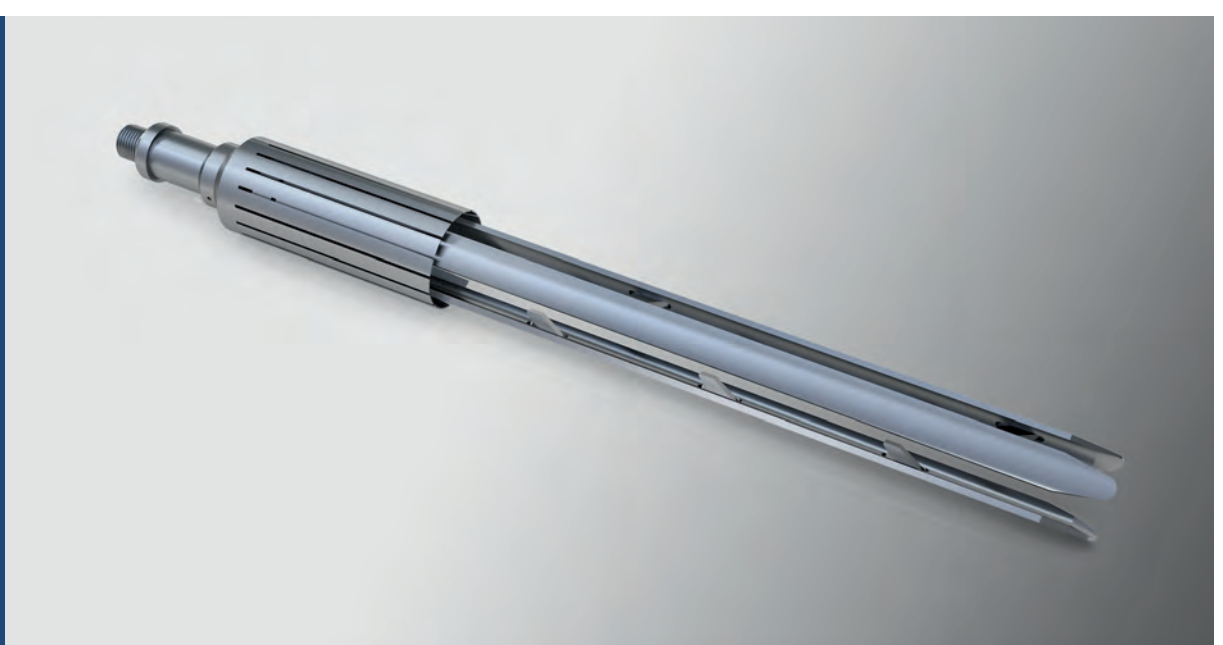
19 Finder Grab

Finder Grab is used in the same way as the standard wireline grab to retrieve broken wireline from the well bore.However, by using a skirt with the grab, the chances of passing the top of the broken wireline are reduced.

Available tool sizes as shown.

Skirt O.D.	Grab O.D	Number of Prongs	Fishneck O.D.	Connection Type
1.800"	1.500"	3	1.375"	UN/JHQ/JHP
2.250"	1.750"	3	1.375"	UN/JHQ/JHP
2.700"	2.000"	3	1.750"	UN/JHQ/JHP
2.900"-3.900"	2.000"-2.500"	3	1.750"	UN/JHQ/JHP

Finder Grab



Wireline Tools

V-Pulling Tools

1 Type R Pulling Tool

Type R Pulling Tool is designed to engage industry standard external fishing neck on subsurface equipment and has the shear to release feature by jarring up to shear the pin. It comes with 3 types of interchangeable core, which are RB, RS and RJ.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach	Core
1 1/4"	1.220"	1.000"	UN	1.000"	1.219"	RB
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	1.122"	
2"	1.766"	1.375"	UN/JHQ/JHP	1.375"	1.230"	
2 1/2"	2.187"	1.375"	UN/JHQ/JHP	1.750"	1.280"	
3"	2.740"	2.313"	UN/JHQ/JHP	2.313"	1.380"	
4"	3.670"	2.313"	UN/JHQ/JHP	3.125"	1.490"	
1 1/4"	1.224"	1.000"	UN	1.000"	2.140"	RS
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	1.602"	
2"	1.766"	1.375"	UN/JHQ/JHP	1.375"	2.000"	
2 1/2"	2.187"	1.375"	UN/JHQ/JHP	1.750"	2.000"	
3"	2.740"	2.313"	UN/JHQ/JHP	2.313"	2.190"	
4"	3.670"	2.313"	UN/JHQ/JHP	3.125"	2.156"	
1 1/4"	1.224"	1.000"	UN	1.000"	1.844"	RJ
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	2.547"	
2"	1.766"	1.375"	UN/JHQ/JHP	1.375"	2.547"	
2 1/2"	2.187"	1.375"	UN/JHQ/JHP	1.750"	2.547"	
3"	2.740"	2.313"	UN/JHQ/JHP	2.313"	2.609"	
4"	3.670"	2.313"	UN/JHQ/JJHP	3.125"	3.000"	

Type R Pulling Tool

Wireline Tools

V-Pulling Tools

2 Type S Pulling Tool

Type S Pulling Tool is used to engage industry standard external fishing neck on subsurface equipment and has the shear to release feature by jarring down to shear the pin. S Type Pulling Tool comes with 3 types of core: SB, SM and SS.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach	Core
1 1/4"	1.220"	1.000"	UN	1.000"	1.320"	SB
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	1.000"	
2"	1.766"	1.375"	UN/JHQ/JHP	1.375"	1.270"	
2 1/2"	2.187"	1.375"	UN/JHQ/JHP	1.750"	1.281"	
3"	2.740"	2.313"	UN/JHQ/JHP	2.313"	1.380"	
4"	3.670"	2.313"	UN/JHQ/JHP	3.125"	1.500"	
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	1.578"	SM
2"	1.770"	1.375"	UN/JHQ/JHP	1.375"	1.671"	
1 1/2"	1.420"	1.187"	UN/JHQ/JHP	1.187"	1.552"	SS
2"	1.766"	1.375"	UN/JHQ/JHP	1.375"	2.090"	
2 1/2"	2.187"	1.375"	UN/JHQ/JHP	1.750"	2.190"	
3"	2.740"	2.313"	UN/JHQ/JHP	2.313"	2.330"	

Type S Pulling Tool

Wireline Tools

V-Pulling Tools

3 Type JD Pulling Tool

Type JD Pulling Tool is designed to engage and retrieve subsurface equipment with jar-up to release feature and industry standard external fishing neck. The tool comes with safety disconnect mechanism of shear to release by jarring down to shear the pin. It comes with 3 types of core: JDC, JDS and JDL.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach	Core
1 1/4"	1.291"	1.187"	UN/JHQ/JHP	0.875"	1.937"	JDC
1 3/8"	1.375"	1.187"	UN/JHQ/JHP	1.000"	1.875"	
1 1/2"	1.422"	1.187"	UN/JHQ/JHP	1.187"	1.093"	
1 5/8"	1.625"	1.187"	UN/JHQ/JHP	1.187"	1.093"	
2"	1.859"	1.375"	UN/JHQ/JHP	1.375"	1.437"	
2 1/2"	2.250"	1.375"	UN/JHQ/JHP	1.750"	1.313"	
3"	2.796"	1.750"	UN/JHQ/JHP	2.313"	1.437"	
4"	3.750"	2.313"	UN/JHQ/JHP	3.125"	2.313"	
1 1/4"	1.291"	1.187"	UN/JHQ/JHP	0.875"	2.687"	JDS
1 3/8"	1.375"	1.187"	UN/JHQ/JHP	1.000"	2.625"	
1 1/2"	1.422"	1.187"	UN/JHQ/JHP	1.187"	1.844"	
1 5/8"	1.625"	1.187"	UN/JHQ/JHP	1.187"	1.844"	
2"	1.859"	1.375"	UN/JHQ/JHP	1.375"	2.125"	
2 1/2"	2.250"	1.375"	UN/JHQ/JHP	1.750"	2.188"	
3"	2.796"	1.750"	UN/JHQ/JHP	2.313"	2.125"	
4"	3.750"	2.313"	UN/JHQ/JHP	3.125"	3.373"	

Wireline Tools

V-Pulling Tools

4 Type JU Pulling Tool

Type JU Pulling Tool is designed to engage and retrieve subsurface equipment with jar-down to release feature and industry standard external fishing neck. It has safety disconnect mechanism of shear to release by jarring up to shear the pin. The tool has 3 types of core: JUC, JUS and JUL.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach	Core
1 1/4"	1.291"	1.187"	UN/JHQ/JHP	0.875"	1.937"	JUC
1 3/8"	1.375"	1.187"	UN/JHQ/JHP	1.000"	1.875"	
1 1/2"	1.422"	1.187"	UN/JHQ/JHP	1.187"	1.093"	
1 5/8"	1.625"	1.187"	UN/JHQ/JHP	1.187"	1.093"	
2"	1.859"	1.375"	UN/JHQ/JHP	1.375"	1.437"	
2 1/2"	2.250"	1.375"	UN/JHQ/JHP	1.750"	1.313"	
3"	2.796"	1.750"	UN/JHQ/JHP	2.313"	1.437"	
4"	3.750"	2.313"	UN/JHQ/JHP	3.125"	2.313"	
1 1/4"	1.291"	1.187"	UN/JHQ/JHP	0.875"	2.687"	JUS
1 1/2"	1.422"	1.187"	UN/JHQ/JHP	1.187"	1.844"	
2"	1.859"	1.375"	UN/JHQ/JHP	1.375"	2.125"	
2 1/2"	2.250"	1.375"	UN/JHQ/JHP	1.750"	2.188"	
3"	2.796"	1.750"	UN/JHQ/JHP	2.313"	2.125"	
4"	3.750"	2.313"	UN/JHQ/JHP	3.125"	3.373"	

Type JU Pulling Tool

Wireline Tools

V-Pulling Tools

5 Type GS Pulling Tool

Type GS Pulling Tool is designed to engage various of subsurface equipment with industry standard internal fishing neck like Lock Mandrel, and has the shear to release feature by jarring down to shear the pin. Downward jarring should be kept to minimal to avoid premature shearing. For jarring up release function, please refer to Type GR Pulling Tool.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach	Probe Thread
1 1/2"	1.470"	1.187"	UN/JHQ/JHP	1.380"	1.620"	1/2"-13UNC
2"	1.850"	1.375"	UN/JHQ/JHP	1.380"	1.620"	1/2"-13UNC
2 1/2"	2.250"	1.750"	UN/JHQ/JHP	1.810"	1.620"	5/8"-11UNC
3"	2.720"	2.313"	UN/JHQ/JHP	2.310"	1.620"	5/8"-11UNC
3 1/2"	3.110"	2.313"	UN/JHQ/JHP	2.620"	1.620"	1 3/8"-12UNF
4"	3.620"	2.313"	UN/JHQ/JHP	3.120"	1.620"	2 1/8"-12UN
5"	4.500"	3.125"	UN/JHQ/JHP	4.000"	1.620"	2 1/2"-12UN
6"	5.560"	3.125"	UN/JHQ/JHP	4.750"	1.620"	2 3/4"-10UNS
7"	5.830"	3.125"	UN/JHQ/JHP	5.380"	1.620"	3 5/8"-10UN

Type GS Pulling Tool

Wireline Tools

V-Pulling Tools

6 Type GR Pulling Tool

Type GR Pulling Tool, also known as GU Adapter, is the converted version of GS Pulling Tool, to engage various of subsurface equipment with industry standard internal fishing neck purpose, e.g. Lock Mandrel, and has the shear to release feature by jarring up to shear the pin. It is made up of GU/Shear Up Adapter and Type GS Pulling Tool of fish neck and shear pin removed.

Available tool sizes as shown.

Nom Size	Tools O.D.	Fishneck O.D.	Connection Type	Engaging Neck I.D.	Reach	Probe Thread
1 1/2"	1.470"	1.187"	UN/JHQ/JHP	1.380"	1.620"	1/2"-13UNC
2"	1.850"	1.375"	UN/JHQ/JHP	1.380"	1.620"	1/2"-13UNC
2 1/2"	2.250"	1.750"	UN/JHQ/JHP	1.810"	1.620"	5/8"-11UNC
3"	2.720"	2.313"	UN/JHQ/JHP	2.310"	1.620"	5/8"-11UNC
3 1/2"	2.720"	2.313"	UN/JHQ/JHP	2.620"	1.620"	1 3/8"-12UNF
4"	2.720"	2.313"	UN/JHQ/JHP	3.120"	1.620"	2 1/8"-12UN
5"	4.500"	3.125"	UN/JHQ/JHP	4.000"	1.620"	2 3/4"-12UN
6"	4.850"	3.125"	UN/JHQ/JHP	5.150"	1.620"	2 3/4"-10UNS

Type GR Pulling Tool

Wireline Tools

V-Pulling Tools

7 Type PRS Pulling Tool

Type PRS Pulling Tool is designed to engage and retrieve subsurface equipment with industry standard internal fishing neck and has the shear to release feature by jarring down to shear the pin. Once the pin is sheared, the core spring feature will hold the tool in the release position.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	Prong Thread
2"	1.812"	1.375"	UN/JHQ/JHP	1/2"-13UN
2 1/2"	2.296"	1.375"	UN/JHQ/JHP	1/2"-13UN
5 1/2"	4.375"	2.313"	UN/JHQ/JHP	1 1/2"LP

Type PRS Pulling Tool

Wireline Tools

V-Pulling Tools

8 Bell Guide Tool

Bell Guide Tool is designed to fit over Pulling Tool and to provide centralisation within a large wellbore. The inner thread allows fishing tools such as pulling tool or overshot to be threaded within the bell guide, then acting as a centraliser to run within a large wellbore and is particularly effective to fish small size tools found inside the tubing.

Available tool sizes as shown.

Tools O.D.	Fishneck O.D.	Connection Type
2.250"	1.187"	UN/JHQ/JHP
3.000"	1.375"	UN/JHQ/JHP
4.000"	1.750"	UN/JHQ/JHP
6.000"	1.750"	UN/JHQ/JHP

Bell Guide Tool

Wireline Tools

V-Pulling Tools

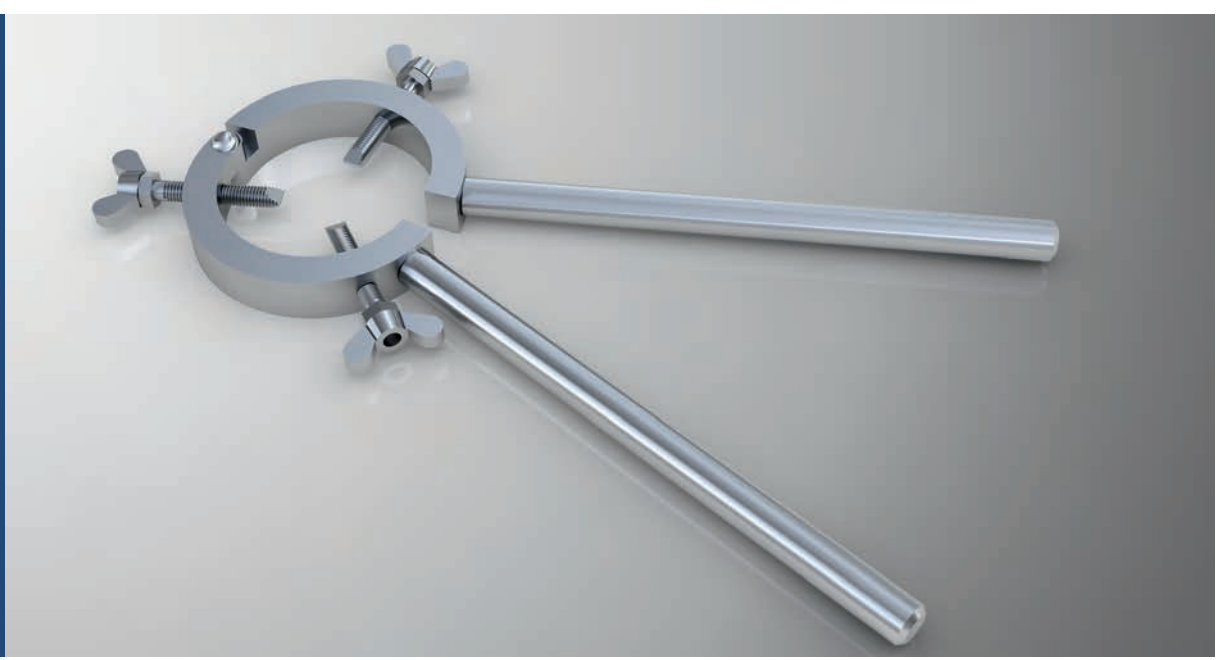
9 Releasing Tool for Type R/S Pulling Tool

Releasing Tool is designed to manually remove latched device from standard R/S Pulling tool without removing the shear pin.

Available tool sizes as shown.

Nom Size
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Releasing Tool for Type R/S Pulling Tool



Wireline Tools

V-Pulling Tools

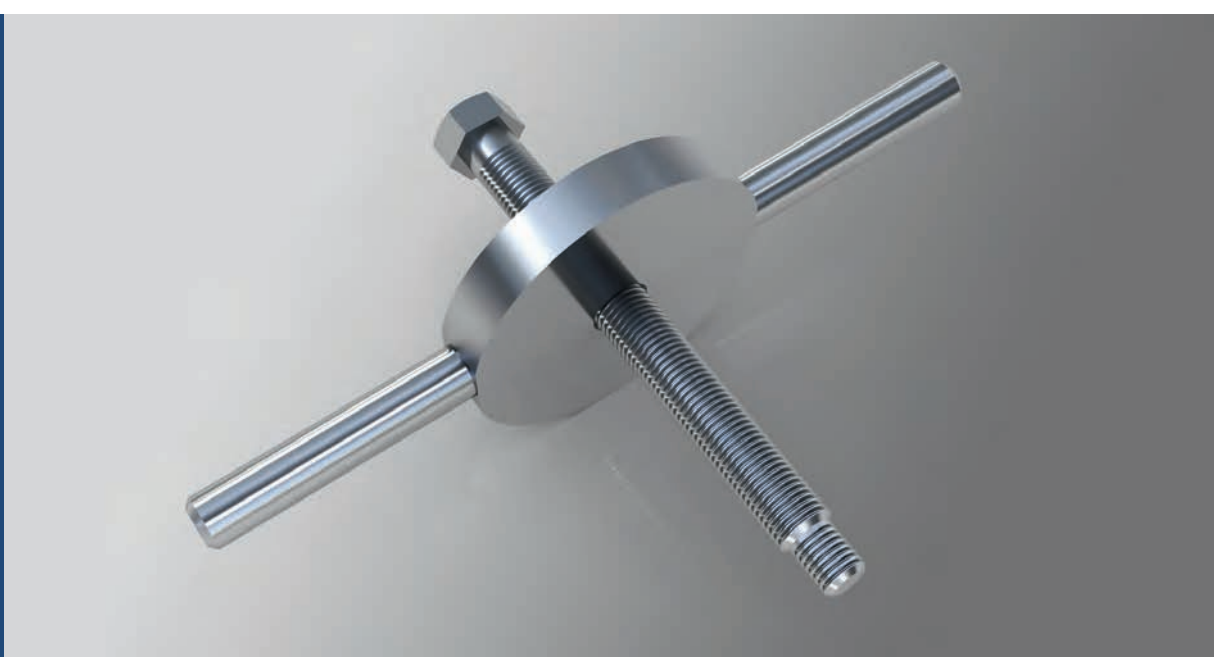
10 Re-Pinning Tool for Type R/S Pulling Tool

Type R/S Re-Pinning tool is an essential wireline tool kit designed to compress the main spring of the standard R/S Pulling tool by rotating the plate against the skirt until shear pin holes are aligned for new pin to be inserted.

Available tool sizes as shown.

Nom Size
1 1/4"
1 1/2"
2"
2 1/2"
3"
4"

Re-Pinning Tool for Type R/S Pulling Tool



Wireline Tools

V-Pulling Tools

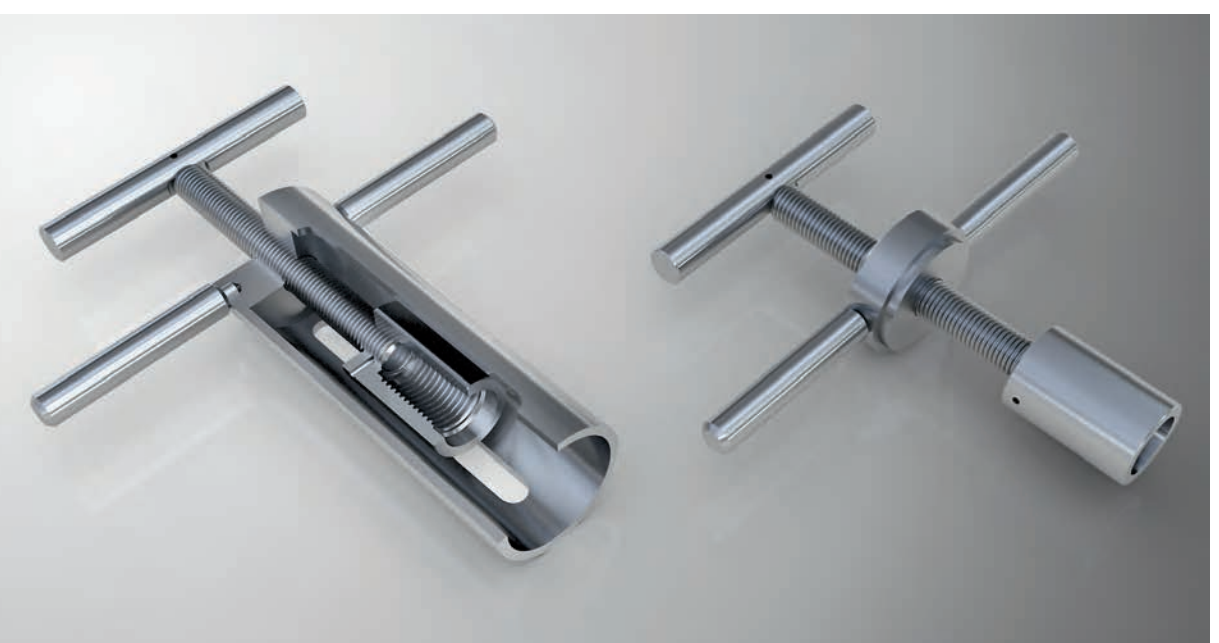
11 Re-Pinning Tool for Type GS Pulling Tool

Type GS Re-Pinning Tool is an essential wireline tool kit designed to compress the main spring of the Type GS Pulling tool by rotating the plate against the skirt until shear pin holes are aligned for new pin to be inserted.

Available tool sizes as shown.

Nom Size
1 1/2"
2"
2 1/2"
3"
3 1/2"
4"
5"
6"
7"

Re-Pinning Tool for Type GS Pulling Tool



Wireline Tools

V-Pulling Tools

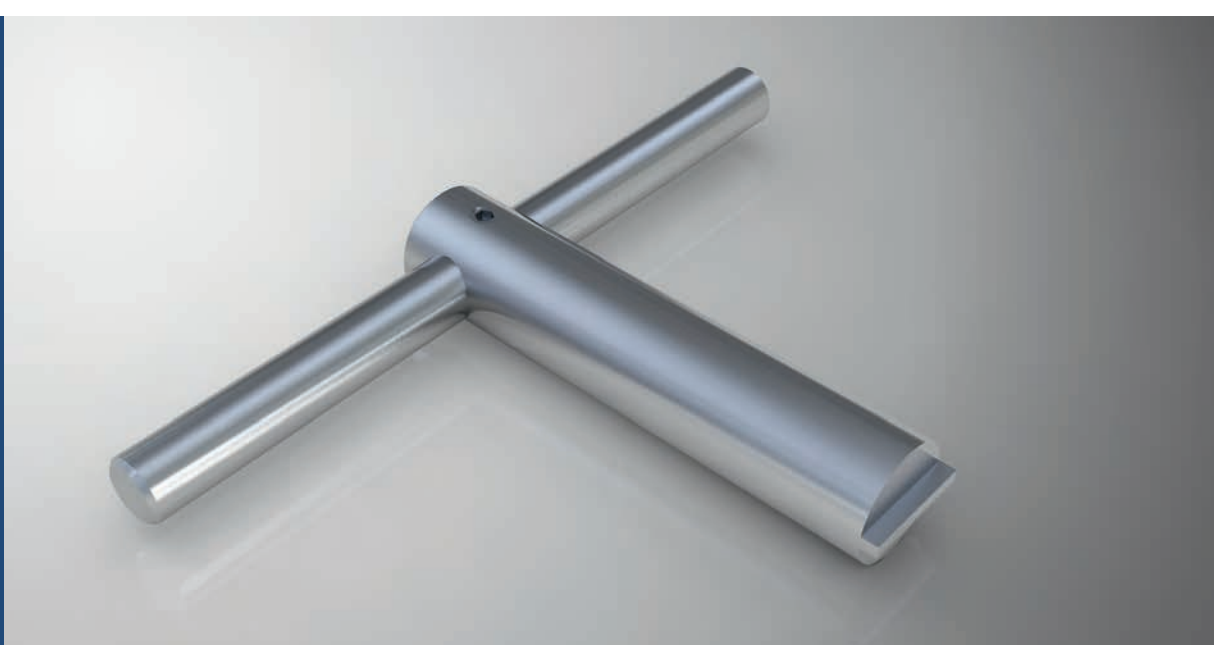
12 Disassembly Tool for Type JD/JU Pulling Tool

Used for disassembly for JD/JU Tools.

Available tool sizes as shown.

Nom Size
1 1/4"
1 3/8"
1 1/2"
1 5/8"
2"
2 1/2"
3"
4"

Disassembly Tool for Type JD/JU Pulling Tool



Wireline Tools

V-Pulling Tools

13 Universal Type Pulling Tool

Universal Type Pulling Tool is designed for running and retrieving down hole flow control devices with external fishing necks. It is a 'Shear-up', Shear-down', three reach pulling tool used to set and retrieve subsurface devices with an external fish neck from the well bore. Adapted from a 'Shear-up' to release to a 'Shear-down' to release tool, without any need of additional parts.

Available tool sizes as shown.

Nom Size	Tools O.D	Fishneck O.D.	Connection Type	To Engage Fish Neck	Reach		
					Short	Medium	Long
2"	1.860"	1.375"	UN/JHQ/JHP	1.375"	1.250"	2.050"	2.600"
2 1/2"	2.250"	1.375"	UN/JHQ/JHP	1.750"	1.300"	2.100"	2.600"

Universal Type Pulling Tool

Wireline Tools

V-Pulling Tools

14 Type BB & BE Pulling Tool

Type BB & BE Pulling Tool is designed to engage external fishing necks on sub-surface controls within the well. The tool has no skirts and the dogs are exposed, making this type of tool particularly useful for engaging fishing necks fouled by sand, trash or other debris.

Available tool sizes as shown.

Nom Size	Tools O.D.	Fishneck O.D.	Connection Type	Engaging Neck I.D.
2"	1.750"	1.375"	UN/JHQ/JHP	1.375"
2 1/2"	2.250"	1.750"	UN/JHQ/JHP	1.750"

Type BB & BE Pulling Tool

Wireline Tools

V-Pulling Tools

15 Heavy Duty Type Pulling Tool

Heavy Duty Type Pulling Tool was developed to withstand high impact forces. The Tool incorporates a 360-degree coverage collet to maximise contact on the fishing profile. This Collet is supported by the Bottom Sub to give increased load bearing capability. A Fish Neck Cage is positioned between the Collet finger to support the fishing profile upon release, this ensures there are no 'hang ups', even when used in heavily deviated wells.

Available tool sizes as shown.

Nom Size	Tools O.D.	Fishneck O.D.	Connection Type	To Engage Fish Neck
1 3/16"	1.290"	1.187"	UN/JHQ/JHP	0.875"
1 1/4"	1.688"	1.187"	UN/JHQ/JHP	1.000"
1 1/2"	1.875"	1.187"	UN/JHQ/JHP	1.187"
2"	2.125"	1.375"	UN/JHQ/JHP	1.375"
2 1/2"	2.500"	1.750"	UN/JHQ/JHP	1.750"
3"	3.050"	2.313"	UN/JHQ/JHP	2.313"
4"	3.800"	2.313"	UN/JHQ/JHP	3.125"

Heavy Duty Type Pulling Tool

Well Completion Tools/Equipment

I- Running/Shifting Tools

1 Type X Running Tool

Type X Running Tool is designed to run and set Type X or Type XN Lock Mandrel in the corresponding Landing Nipple in the well. It comes in 2 settings: selective and non-selective. When runs in selective setting, it can be run pass Nipples and selectively choose which nipple to set the Lock Mandrel. For non-selective setting, the lock is usually set on the highest nipple profile in the tubing or the bottom No-Go Nipple profile.

Type X Running Tool is used in conjunction with Type X Lock Mandrel. Please refer to Type X Lock Mandrel for more information.

Available tool sizes as shown.

Size	Actual O.D.	Fishneck O.D.	Connection Type	Bottom Connection
1.875"	1.772"	1.375"	UN/JHQ/JHP	1/2"-13UN
2.313"	2.171"	1.750"	UN/JHQ/JHP	5/8"-11UN
2.750"	2.720"	2.313"	UN/JHQ/JHP	3/4"-10UN
2.813"	2.720"	2.313"	UN/JHQ/JHP	3/4"-10UN
3.313"	3.250"	2.313"	UN/JHQ/JHP	1 3/8"-11UN
3.813"	3.750"	2.313"	UN/JHQ/JHP	2 1/8"-12UN

Type X Running Tool

Well Completion Tools/Equipment

I- Running/Shifting Tools

2 Positioning Tools

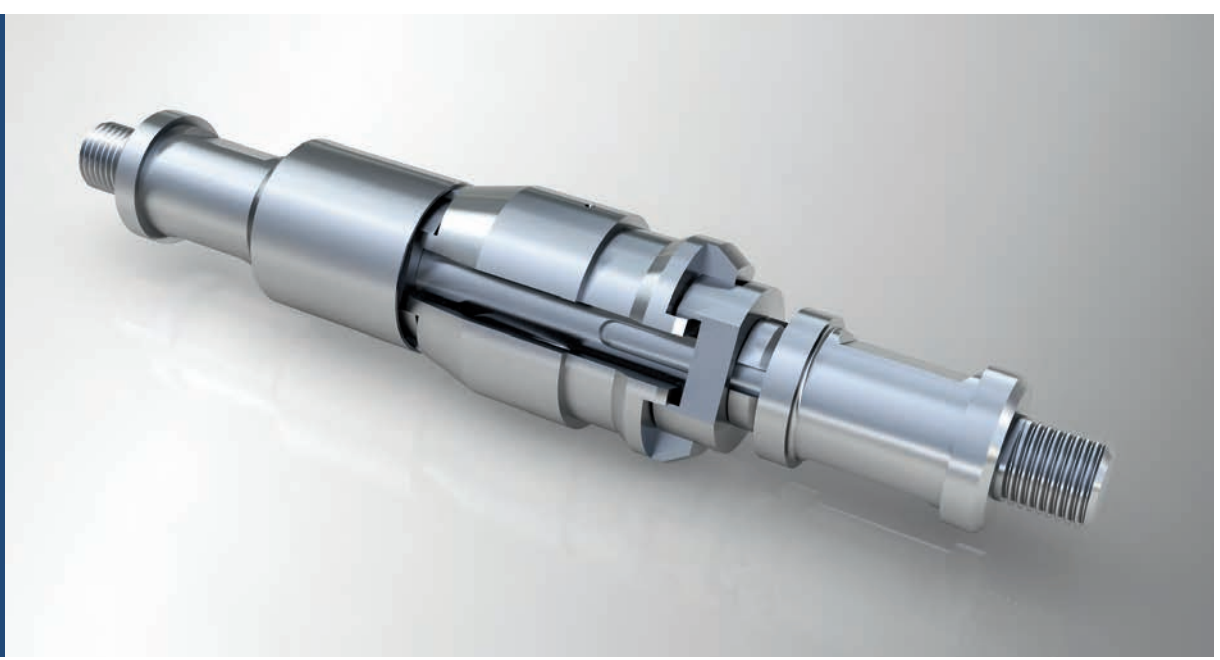
2.1 Type B Self Releasing Positioning Tool

Type B Self Releasing Positioning Tool is used to shift the inner sleeve of the Sliding Side Door (SSD) to its open or closed position. The Keys are designed with one sloped end and the other with 90-degree shoulder, where one end will slide through the sleeve and the other to engage and shift the SSD. It also incorporates an automatic self-release feature where the tool will only released when travel to its fully open or closed position. This tool will not pass through a no.1 Type S Nipple.

Available tool sizes as shown.

Sleeve Size	OD With Keys Expanded	OD With Keys Retracted	Fishing Neck OD	Connection Type
1.875"	2.160"	1.840"	1.375"	UN/JHQ/JHP
2.313"	2.650"	2.340"	1.750"	UN/JHQ/JHP
2.750"	3.030"	2.720"	2.313"	UN/JHQ/JHP
2.813"	3.160"	2.720"	2.313"	UN/JHQ/JHP
3.313"	3.760"	3.250"	2.313"	UN/JHQ/JHP
3.813"	4.090"	3.750"	3.125"	UN/JHQ/JHP

Type B Self Releasing Positioning Tool



Well Completion Tools/Equipment

I-Running/Positioning Tools

2 Positioning Tools

2.2 Type BO Selective Positioning Tool

Type BO Selective Positioning Tool is designed to selectively shift the closing sleeve of multiple Sliding Side Door (SSD) of the same size within the tubing string to its downward position only. This tool features a selective control mechanism, through multiple SSD till it locates the target SSD to be shifted inside the wellbore. The tool is picked up after passing the targeted SSD sleeve and this will release the keys while the dogs engaging the packing bore has changed SSD to non-selective mode.

Available tool sizes as shown.

Sleeve Size	OD With Keys Expanded	OD With Keys Retracted	Fishing Neck OD	Connection Type
1.875"	2.160"	1.840"	1.375"	UN/JHQ/JHP
2.313"	2.650"	2.340"	1.750"	UN/JHQ/JHP
2.750"	3.030"	2.720"	2.313"	UN/JHQ/JHP
2.813"	3.160"	2.720"	2.313"	UN/JHQ/JHP
3.313"	3.760"	3.250"	2.313"	UN/JHQ/JHP
3.813"	4.090"	3.750"	3.125"	UN/JHQ/JHP

Type BO Selective Positioning Tool

Well Completion Tools/Equipment

II-Downhole Flow Control Equipment

1 Landing Nipples

1.1 Type X Landing Nipple

Type X Landing Nipple is a short downhole completion tubing designed with internal locking profile and a seal surface to provide predetermined landing position for subsurface flow control equipment, such as plugs and chokes. Type X Landing Nipple is furnished with compatible completion tubing connection and used in standard weight tubing applications.

Available tool sizes as shown.

Tubing Size	Seal Bore
2 3/8"	1.875"
2 7/8"	2.313"
3 1/2"	2.750"
	2.813"
4"	3.313"
4 1/2"	3.813"

Well Completion Tools/Equipment

II-Downhole Flow Control Equipment

1 Landing Nipple

1.2 Type XN Landing Nipple

Type XN Landing Nipple is designed to provide landing position for subsurface flow control equipment. The 'No-Go' shoulder located below the seal bore provides positive indication of tool being set in position. It is commonly located at the bottom of other Nipples, and also serve as a barrier to protect toolstring being run or dropped below the tubing string. The tool is furnished with compatible completion tubing connection and used in standard weight tubing applications.

Available tool sizes as shown.

Tubing Size	Seal Bore
2 3/8"	1.875"
2 7/8"	2.313"
3 1/2"	2.750"
	2.813"
4"	3.313"
4 1/2"	3.813"

Type XN Landing Nipple

Well Completion Tools/Equipment

II-Downhole Flow Control Equipment

2 Lock Mandrels

2.1 Type X Lock Mandrel

Type X Lock Mandrel is a selective downhole locking devices designed to locate and set flow control equipment in a compatible Type X Landing Nipple. It features X profile (90-degree shoulder) Key, and Vee Packing seal stack. Type X Lock Mandrel is able to hold pressure from above and below when set in place.

Available tool sizes as shown.

Lock Size	Tubing Size	Fishing Neck I.D.
1.875"	2 3/8"	1.380"
2.313"	2 7/8"	1.810"
2.750"	3 1/2"	2.310"
2.813"	3 1/2"	2.310"
3.313"	3 1/2"	2.620"
3.813"	3 1/2"	3.120"

II-Downhole Flow Control Equipment

2 Lock Mandrels

2.2 Type XN Lock Mandrel

Type XN Lock Mandrel is a non-selective downhole locking devices designed to locate and set flow control equipment in a compatible Type XN Landing Nipple. The tool features XN profile (45-degree shoulder) Key, and Vee Packing seal stack. Type XN Lock Mandrel is able to hold pressure from above and below when set in place.

Available tool sizes as shown.

Lock Size	Tubing Size	Fishing Neck I.D.
1.875"	2 3/8"	1.380"
2.313"	2 7/8"	1.810"
2.750"	3 1/2"	2.310"
2.813"	3 1/2"	2.310"
3.313"	4"	2.620"
3.813"	4 1/2"	3.120"

Type XN Lock Mandrel

Well Completion Tools/Equipment

II-Downhole Flow Control Equipment

3 Type PX Equalising Prong

Type PX Equalising Prong is used in conjunction with Type X Lock Mandrel to act as a plug to hold pressure from either above or below the well to perform replacement or repair work of surface equipment. The external fish neck on the prong allows easy retrieval and the prong body prevents sand from entering the lock and equalising sub. Equalising prong can be removed from the plug assembly to achieve equalization.

Available tool sizes as shown.

Size	Fishneck O.D.
1.875"	1.375"
2.313"	1.375"
2.750"	1.375"
2.813"	1.375"
3.313"	1.750"
3.813"	3.125"

Type PX Equalising Prong

Well Completion Tools/Equipment

II-Downhole Flow Control Equipment

Available tool sizes as shown.

4 Plug Assembly

4.1 Lock with Equalizing Housing

When combining a Lock Mandrel assembly to an equalising housing and they will form a PX Plug. When Type PX Equalizing Prong is added to this tool,which is able to hold top & bottom well pressure set in a Landing Nipple. This allows repair or replacement work to be carried out while the pressure is contained. The extended P Prong is able to prevent well solids from entering the lock and housing during run in and allow easy retrieval with its prong external fishing neck.

Lock Size	Tubing Size	Fishing Neck I.D.
1.875"X	2 3/8"	1.380"
1.875"XN		
2.313"X	2 7/8"	1.810"
2.313"XN		
2.750"X	3 1/2"	2.310"
2.750"XN		
2.813"X		
2.813"XN		
3.313"X	4"	2.620"
3.313"XN		
3.813"X	4 1/2"	3.120"
3.813"XN		

Lock with Equalizing Housing

II-Downhole Flow Control Equipment

Available tool sizes as shown.

4 Plug Assembly

4.2 Lock Mandrel with Equalizing Valve(Melon)& Housing

When combining a Lock Mandrel assembly to a melon type equalising valve and housing, they form a XX plug assembly which is used to hold top & bottom well pressure set in a Landing Nipple. This allows repair or replacement work to be carried out while the pressure is contained. This design allows fluid bypass when run in to set the lock with a running prong attached to a running tool.

Lock Size	Tubing Size	Fishing Neck I.D.
1.875"X	2 3/8"	4 1/2"
1.875"XN	2 3/8"	4 1/2"
2.313"X	2 7/8"	1.810"
2.313"XN	2 7/8"	1.810"
2.750"X	3 1/2"	2.310"
2.750"XN	3 1/2"	2.310"
2.813"X	3 1/2"	2.310"
2.813"XN	3 1/2"	2.310"
3.313"X	4"	2.620"
3.313"XN	4"	2.620"
3.813"X	4 1/2"	3.120"
3.813"XN	4 1/2"	3.120"

Lock Mandrel with Equalizing Valve(Melon)& Housing

Wellhead Pressure Control Equipment

I- Quick Unions

1 Type B Connection

Quick Union connections are designed to be easily assembled by hand for wireline service lubricator and related equipment. An O-ring on the pin section provides sealing when made up with the box. Two of the most commonly used quick unions are 'Type O' and 'Type B'. They are not interchangeable. One of the quickest way to identify Type B Quick Union is the 90-degree shoulder.

Product Specifications

Thread	Seal Diameter	Bore	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	10000	STD
4 3/4"-4ACME	3.750"	2.50"	5000	STD
4 3/4"-4ACME	3.750"	3.00"	5000	STD
6 5/16"-4ACME	4.375"	2.50"	10000	H2S
6 5/16"-4ACME	4.375"	3.00"	10000	H2S
6 5/16"-4ACME	4.375"	2.50"	15000	H2S
7"-5SA	5.250"	4.00"	5000	H2S

Type B Connection

Wellhead Pressure Control Equipment

I- Quick Unions

2 Type O Connection

Quick Union connections are designed to be easily assembled by hand for wireline service lubricator and related equipment. An O-ring on the pin section provides sealing when made up with the box. Two of the most common use quick unions are 'Type O' and 'Type B'. They are not interchangeable. One of the quickest way to identify Type O Quick Union is the 45-degree internal angle.

Product Specifications

Thread	Seal Diameter	Bore	WP (psi)	Service
5"-4ACME	3.500"	2.50"/3.00"	10000	STD
5"-4ACME	3.500"	2.50"/3.00"	5000	STD
5"-4ACME	3.500"	2.50"	15000	STD
5 3/4"-4ACME	4.000"	3.00"	10000	H2S
6 1/4"-4ACME	4.000"	2.62"	15000	H2S
6 1/2"-4ACME	4.750"	4.00"	5000/10000	STD
7 1/2"-4ACME	5.500"	3.00"	15000	H2S
8 1/4"-4ACME	6.187"	5.00"	10000	STD
8 1/4"-4ACME	6.187"	5.00"	5000	STD
8 3/8"-4ACME	5.250"	4.00"	10000	H2S
9"-4ACME	6.750"	5.00"	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	5000	H2S
9 1/2"-4ACME	6.250"	4.00"	15000	H2S
11 1/2"-4ACME	8.250"	6.38"	10000	H2S

Type O Connection

Wellhead Pressure Control Equipment

II-Wellhead Equipment

1 Wellhead Adapter

1.1 Flange Adapter

Wellhead Flange Adapter is a crossover which connect wellhead to the wireline walve and lubricator assembly in wireline operations. This tool features a flange bottom that comply to API standard and a quick union box. It is important to select compatible flange bore size to the wellhead to provide unrestricted passage of wireline work string run into the production tubing.

Product Specifications

A.P.I Flange Size	WP (psi)	Thread	Type	Service
2 1/16"	5000	4 3/4"-4ACME	B	STD
		5"-4ACME	O	
2 1/16"	10000	5 3/4"-4ACME	O	H2S
		6 5/16"-4ACME	B	
2 9/16"	5000	4 3/4"-4ACME	B	STD
		5"-4ACME	O	
2 9/16"	10000	5 3/4"-4ACME	O	H2S
		6 5/16"-4ACME	B	
3 1/16"	10000	5 3/4"-4ACME	O	H2S
		6 5/16"-4ACME	B	
3 1/8"	5000	5 3/4"-4ACME	O	H2S
		6 5/16"-4ACME	B	
4 1/16"	5000	6 1/2"-4ACME	O	STD
		7"-5SA	B	H2S
5 1/8"	5000	8 1/4"-4ACME	O	STD
		9 1/2"-4ACME	O	H2S

Wellhead Pressure Control Equipment

II-Wellhead Equipment

1 Wellhead Adapter

1.2 Crossover Adapter

Crossover Adapter provides a means of safely connecting incompatible components for well operations. Two types of combination are available - Quick union to tubing thread.

Product Specifications

Thread	Thread	Type	I.D.	WP (psi)	Service
2 7/8"EUE	4 3/4"-4ACME	B	2.44"	5000	STD
	5"-4ACME	O			
	5 3/4"-4ACME	O			H2S
	6 5/16"-4ACME	B			
2 7/8"EUE	4 3/4"-4ACME	B	2.28"	5000	STD
	5"-4ACME	O			
	5 3/4"-4ACME	O			H2S
	6 5/16"-4ACME	B			
3 1/2"EUE	4 3/4"-4ACME	B	3.00"	5000	STD
	5"-4ACME	O			
	5 3/4"-4ACME	O			H2S
	6 5/16"-4ACME	B			
3 1/2"NU	4 3/4"-4ACME	B	3.00"	5000	STD
	5"-4ACME	O			
	5 3/4"-4ACME	O			H2S
	6 5/16"-4ACME	B			
4 1/2"EUE	5"-4ACME	O	3.00"	5000	STD
	6 1/2"-4ACME	O	3.74"		
	8 1/4"-4ACME	O			
4 1/2"NU	5"-4ACME	O	3.00"	5000	STD
	6 1/2"-4ACME	O	3.74"		
	8 1/4"-4ACME	O			

Crossover Adapter

Wellhead Pressure Control Equipment

II-Wellhead Equipment

1 Wellhead Adapter

1.3 Quick Union Crossover

Quick Union Crossover provides safely connecting incompatible components for well operations. Two types of Quick Union combinations.

Product Specifications

Union Box	WP (psi)	I.D.×I.D.	Union Size	Union Type	Service
4 3/4"-4ACME	5000	3.00"×3.00"	5"-4ACME	O	STD
		3.00"×4.00"	6 1/2"-4ACME	O	STD
	10000	3.00"×3.00"	5 3/4"-4ACME	O	H2S
			6 5/16"-4ACME	B	H2S
5"-4ACME	5000	3.00"×3.00"	4 3/4"-4ACME	B	STD
			5 3/4"-4ACME	O	H2S
			6 5/16"-4ACME	B	H2S
		3.00"×4.00"	6 1/2"-4ACME	O	STD
5 3/4"-4ACME	5000	3.00"×3.00"	4 3/4"-4ACME	B	STD
			5"-4ACME	O	STD
	10000	3.00"×3.00"	6 5/16"-4ACME	B	H2S
6 5/16"-4ACME	5000	3.00"×3.00"	4 3/4"-4ACME	B	STD
			5"-4ACME	O	STD
	10000	3.00"×3.00"	5 3/4"-4ACME	O	H2S
6 1/2"-4ACME	5000	4.00"×4.00"	7"-5SA	B	H2S
	10000	3.00"×3.00"	5 3/4"-4ACME	O	H2S
		3.00"×4.00"	8 3/8"-4ACME	O	H2S
8 1/4"-4ACME	5000	5.00"×5.00"	9"-4ACME	O	H2S
	10000	4.00"×4.00"	8 3/8"-4ACME	O	H2S
		4.00"×5.00"	9"-4ACME	O	H2S
8 3/8"-4ACME	10000	4.00"×5.00"	9"-4ACME	O	H2S
9"-4ACME	10000	5.00"×6.38"	11 1/2"-4ACME	O	H2S
9 1/2"-4ACME	5000	6.38"×5.12"	9"-4ACME	O	H2S
		6.38"×6.38"	11 1/2"-4ACME	O	H2S

Quick Crossover

Wellhead Pressure Control Equipment

II-Wellhead Equipment

2 Pump-in Tee/Sub

Pump-in Tee/Sub is an essential part of a wireline rig-up designed to provide convenient entry path for large flow fluid into pressure control equipment for hydrostatic testing or for well control by pumping fluids into the well below a closed wireline valve. This tool also features a Weco type side entry port which is connected to a kill-line to kill the well in an emergency situation.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Side Connection	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	2"-1502	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	2"-1502	STD
5"-4ACME	3.500"	3.00"	O	5000	2"-1502	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	2"-1502	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	2"-1502	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	2"-1502	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	2"-1502	H2S
9"-4ACME	6.750"	5.00"	O	10000	2"-1502	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	2"-1502	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	2"-1502	H2S

Pump-in Tee/Sub

Wellhead Pressure Control Equipment

II-Wellhead Equipment

3 Side Entry Fishing Branch Sub

Side Entry Fishing Branch Sub is positioned between the wireline valve and the lowest lubricator section. It is designed to allow a second fishing tool string to be deployed into the well on wireline in the event that the original tool string should become stuck or jar action should be lost.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service	Side Entry Connection
5"-4ACME	3.500"	3.00"	O	5000	STD	5"-4ACME
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD	

Side Entry Fishing Branch Sub

Wellhead Pressure Control Equipment

II-Wellhead Equipment

4 Tool Traps

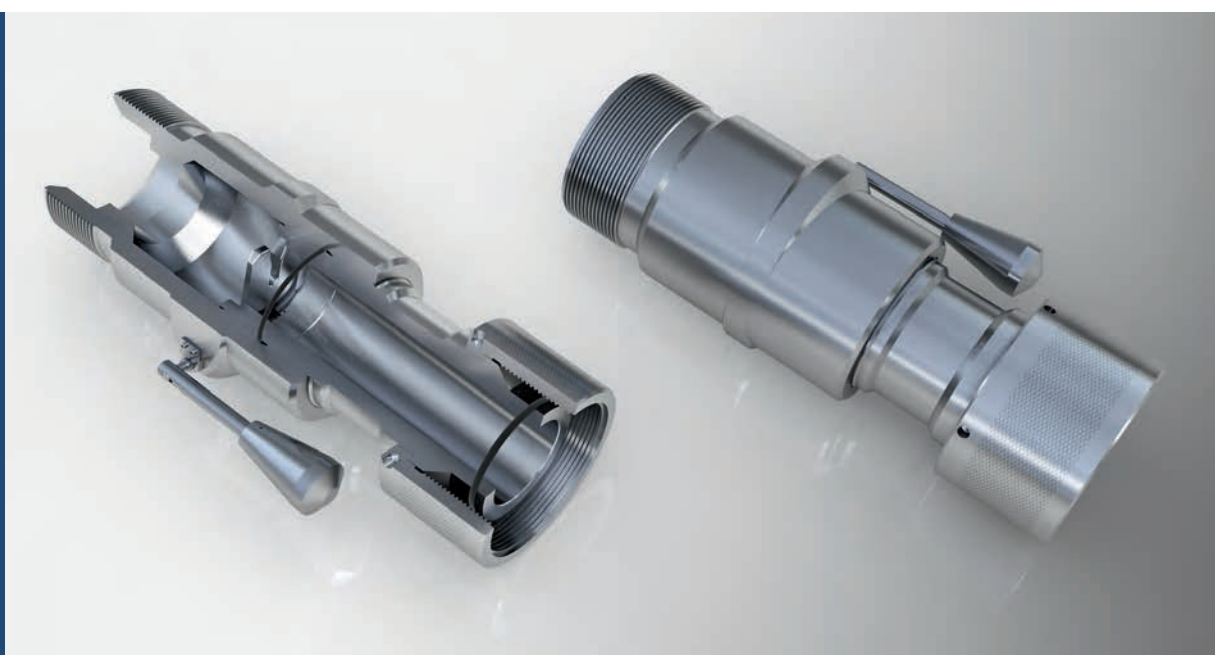
4.1 Manual

Manual Tool Trap is a safety device designed to stop wireline tools from falling into the wellbore should the wireline accidentally break at the Rope Socket while in lubricator. This tool features manually operated hinged flappers which are installed within to provide a passage for tools to enter the well bore when in open position. The manual handle provides a clear visual indication of the position of the flappers 'Closed' or 'Open'.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	H2S
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Manual



Wellhead Pressure Control Equipment

II-Wellhead Equipment

4 Tool Traps

4.2 Hydraulic

Hydraulic Tool Trap is a safety device designed to stop wireline tools from falling into the wellbore should the wireline accidentally break at the Rope Socket while in lubricator. This tool features hydraulic operated flappers to provide a passage for tools to enter the well bore when in open position. The hydraulic mechanism can be easily operated by using hand pump or remotely and therefore reduce the exposure to hazardous environment.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	H2S
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Hydraulic

Wellhead Pressure Control Equipment

II-Wellhead Equipment

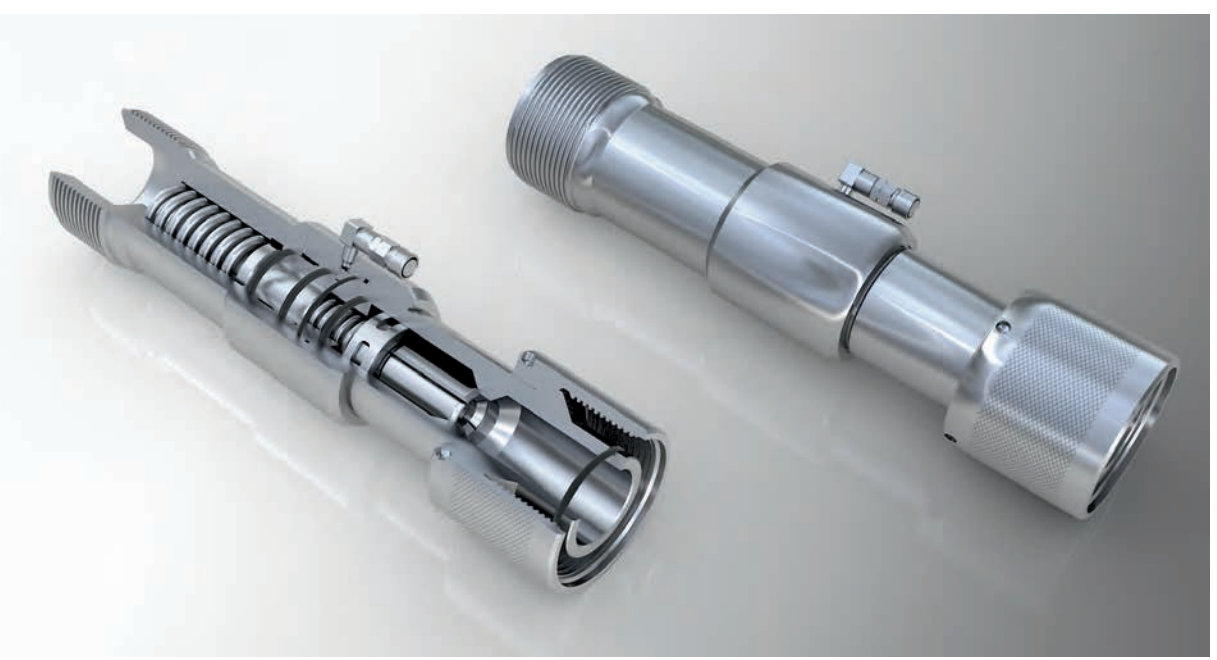
5 Hydraulic Tool Catcher

Hydraulic Tool Catcher is a safety device normally placed on top of the upper Lubricator just below the Stuffing Box or Grease Injection Head (GIH). This tool is designed with an internal dog that catch the rope socket and prevent toolstring from falling downhole in the situation that the toolstring got caught up between Lubricator and Stuffing Box or GIH thereby forcing wireline out of the rope socket.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	To Engage Fish Neck	Service
5"-4ACME	3.500"	3.00"	O	5000	1.375"/1.750"	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	1.375"/1.750"	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	1.375"/1.750"	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	1.375"/1.750"	H2S

Hydraulic Tool Catcher



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

6.1 Single Manual

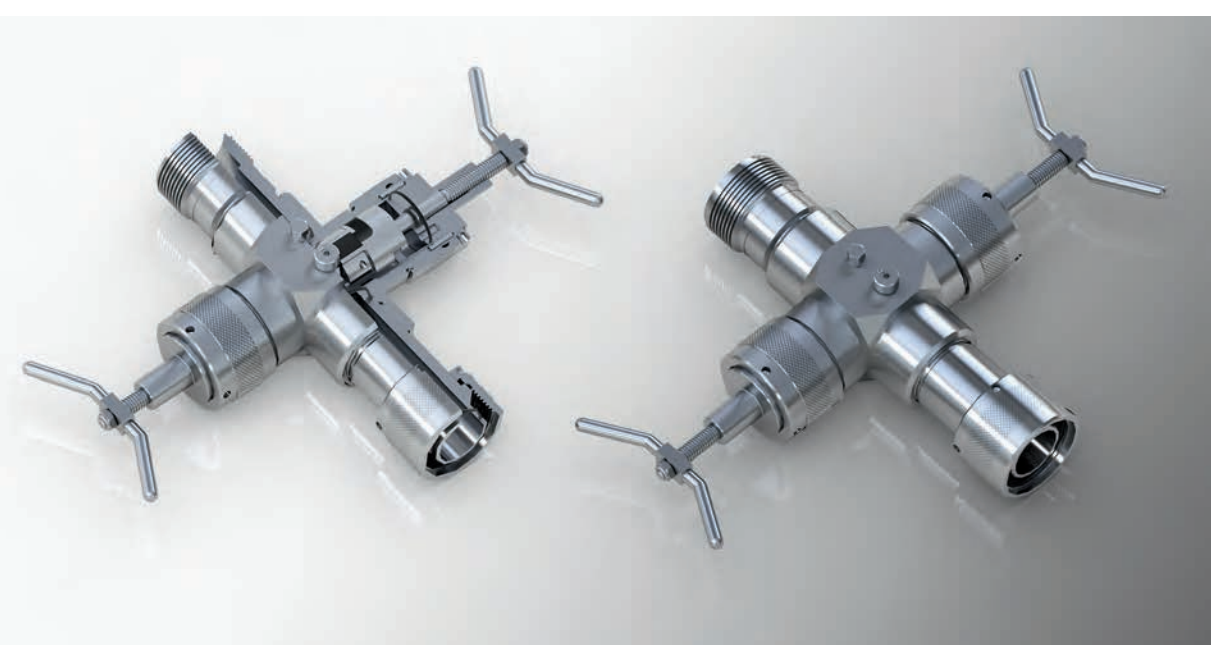
Wireline Valve, also known as Blow Out Preventer (BOP), is commonly found located between Lubricator and Wellhead. The design allows pressure to be contained within the well once the bodies are closed. It allows the equalisation of lubricator and well pressure when the operation is to be resumed.

Single manual operated Wireline Valve features a pair of Ram assemblies and stem connected handle that can be manipulated by manually rotating the handles to open or close the rams. This tool is designed only suitable for slickline operation.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD

Single -Manual



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

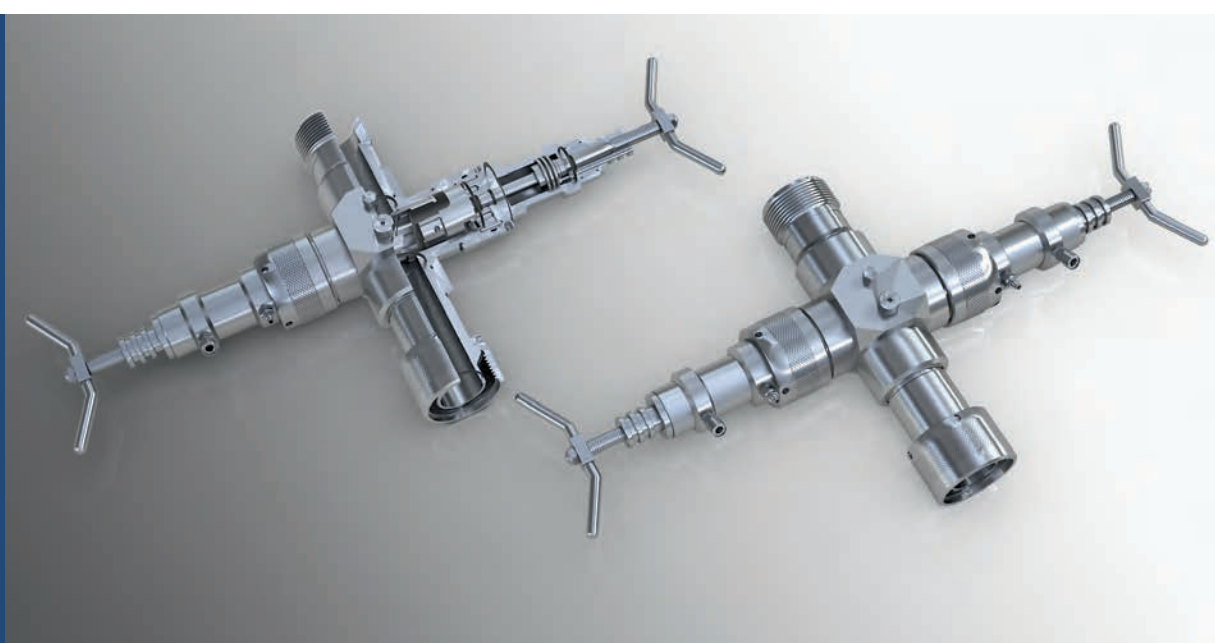
6.2 Single-Hydraulic Type 1

Single-Hydraulic operated Wireline Valve features a pair of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Single Hydraulic Type 1 is only suitable for slickline operation.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	STD

Single-Hydraulic Type 1



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

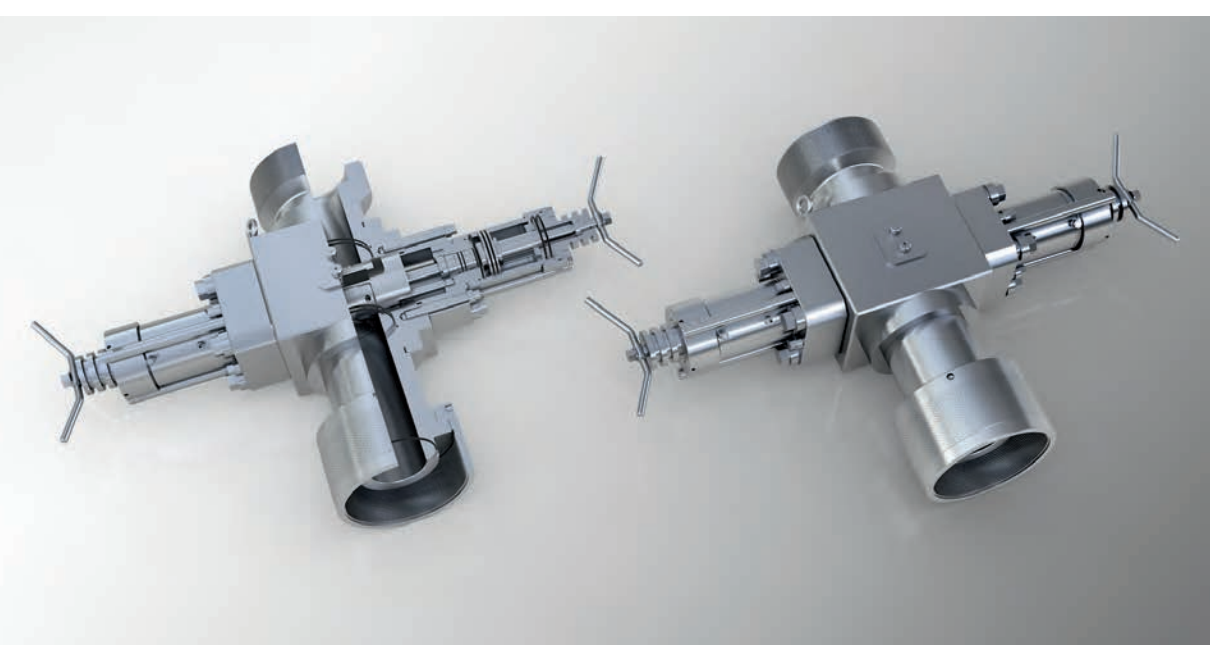
6.3 Single Hydraulic Type 2

Single-Hydraulic operated Wireline Valve features a pair of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Single Hydraulic Type 2 is only suitable for slickline operation.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Single Hydraulic Type 2



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

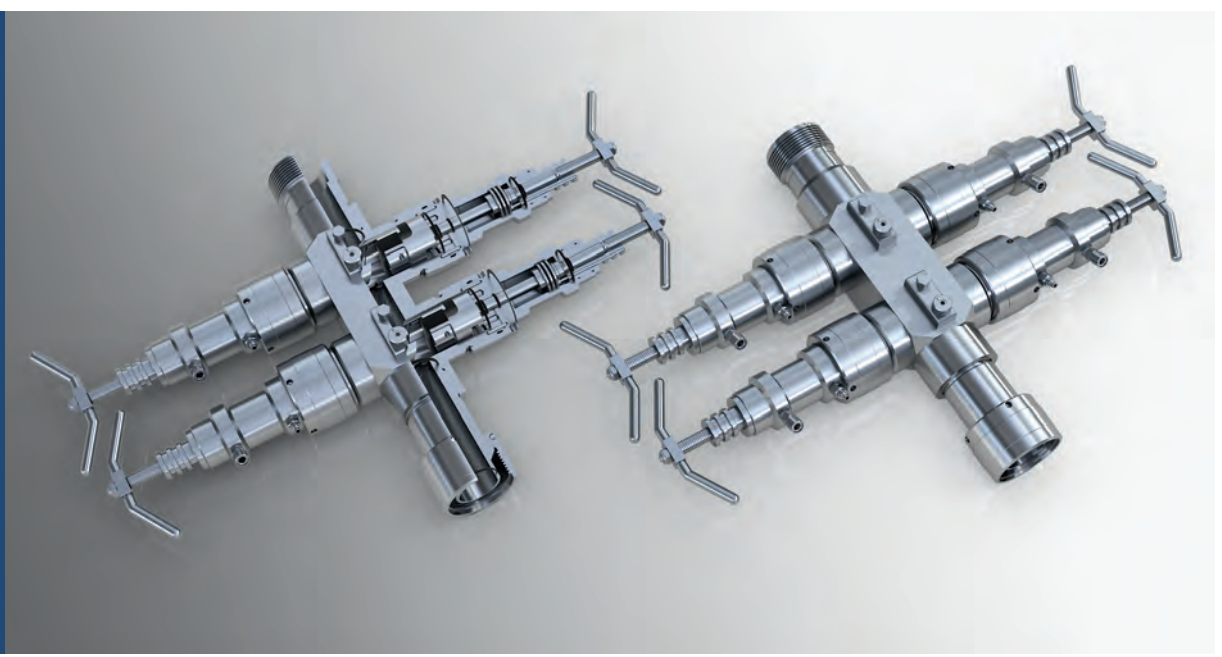
6.4 Dual Hydraulic Type 1

Dual Hydraulic operated Wireline Valve features two sets of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Dual Hydraulic Type 1 is suitable for slickline and braided line operation by changing its respective rams.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	STD

Dual Hydraulic Type 1



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

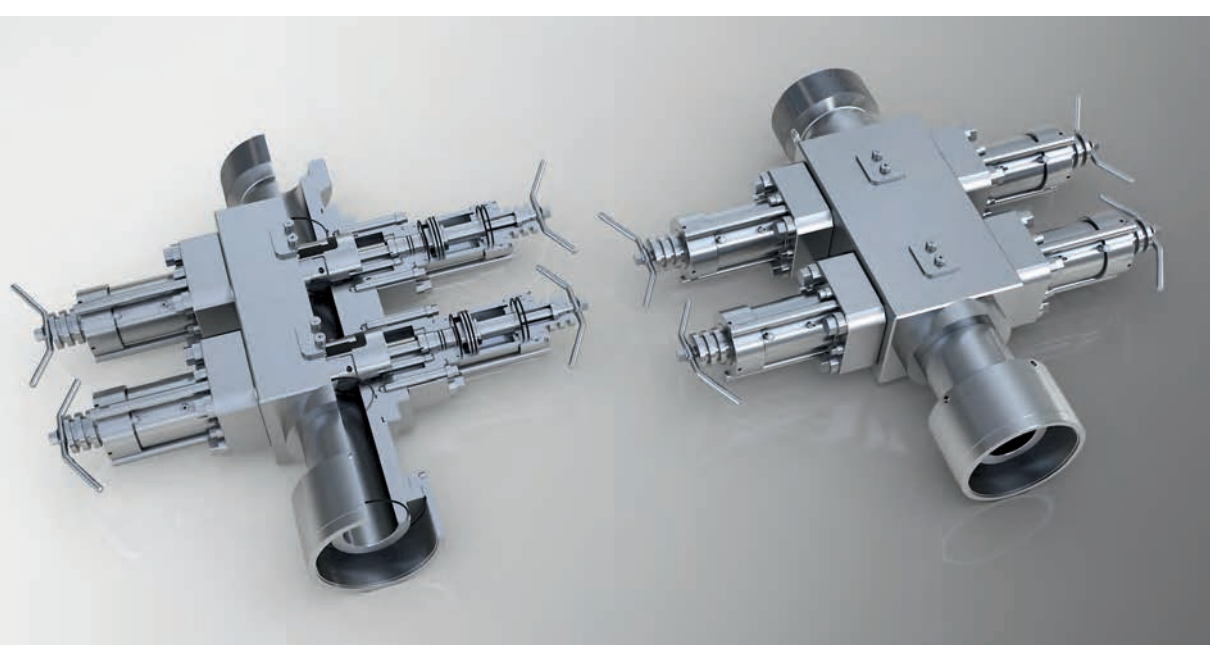
6.5 Dual-Hydraulic Type 2

Dual-Hydraulic operated Wireline Valve features two sets of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Dual Hydraulic Type 2 is suitable for slickline and braided line operation by changing its respective rams.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Dual-Hydraulic Type 2



Wellhead Pressure Control Equipment

II-Wellhead Equipment

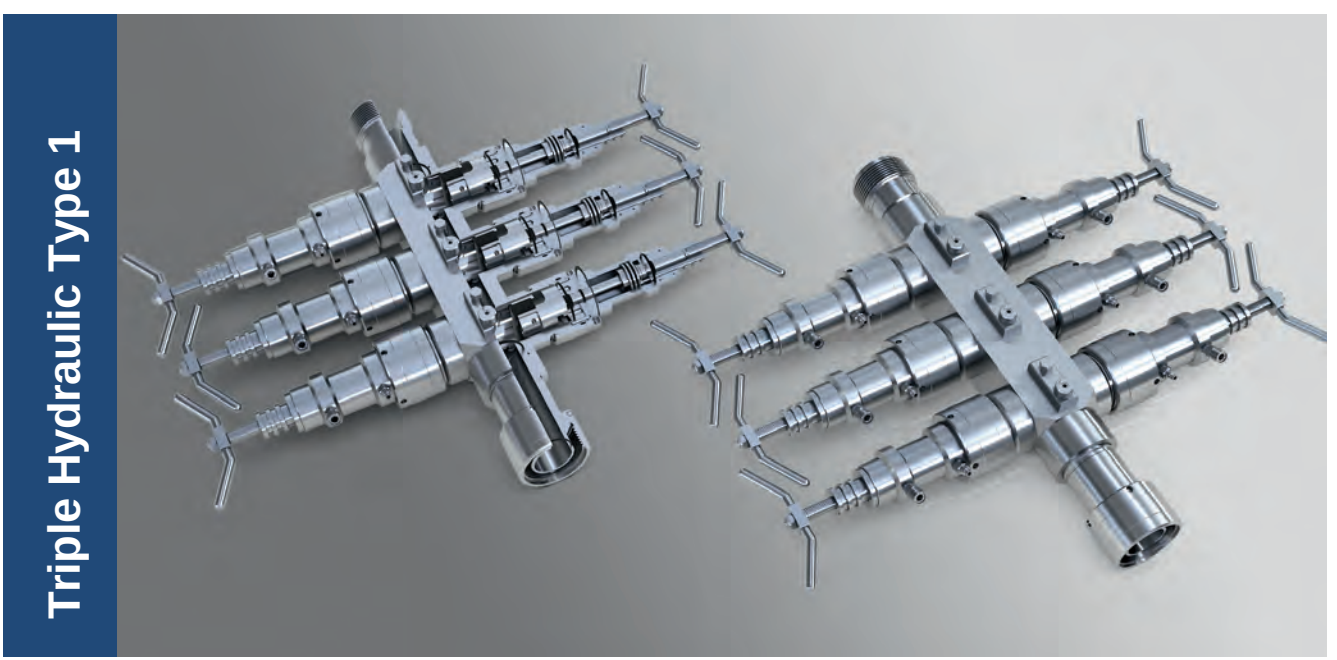
6 Wireline Valves

6.6 Triple Hydraulic Type 1

Triple Hydraulic operated Wireline Valve features three sets of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Triple Hydraulic Type 1is suitable for slickline and braided line operation by changing its respective rams.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	STD



Wellhead Pressure Control Equipment

II-Wellhead Equipment

6 Wireline Valves

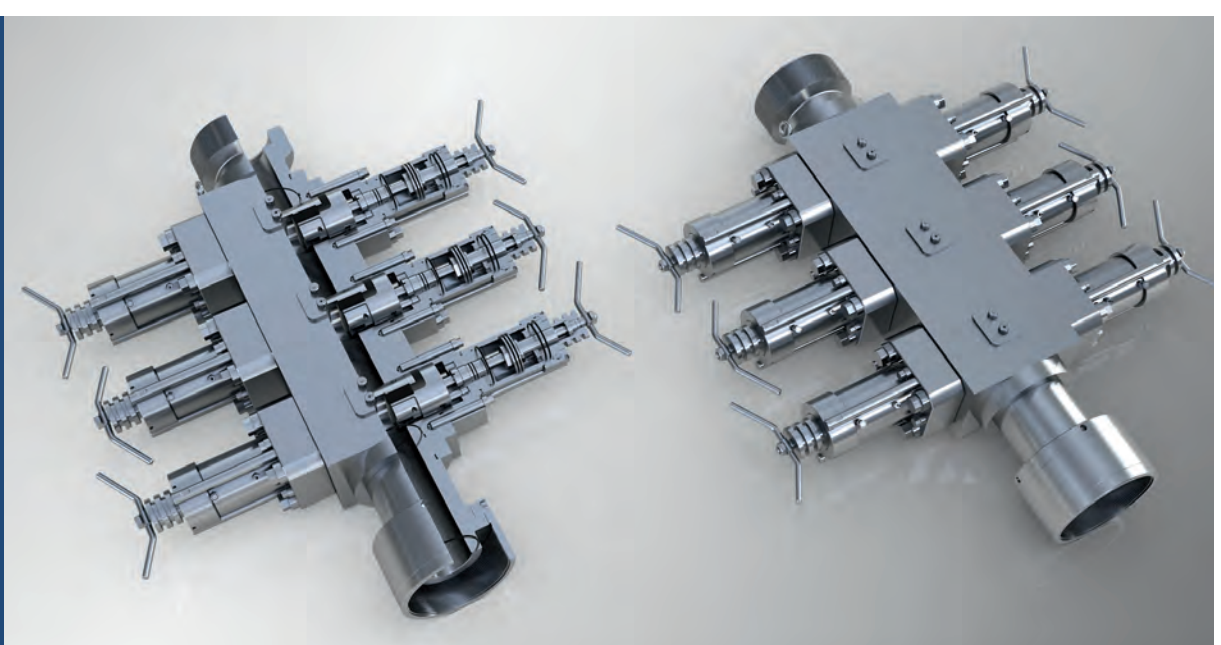
6.7 Triple Hydraulic Type 2

Triple Hydraulic operated Wireline Valve features three sets of Ram assemblies and hydraulic actuated system that allow fast, safe and easy operation in a remote location. Triple Hydraulic Type 2 is suitable for slickline and braided line operation by changing its respective rams.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Triple Hydraulic Type 2



Wellhead Pressure Control Equipment

II-Wellhead Equipment

7 Lubricators

7.1 Integral-Upper/Middle

Lubricator serves as a vessel to provide passage for running wireline toolstring into and out of the well under pressure. Normally positioned on top of Wireline Valve, Lubricator comes in three sections - Upper, Middle, Lower; to provide adequate length for wireline toolstring to be raised above wellhead, enabling the wireline valve to seal off pressure before and after wireline operations.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	H2S
9"-4ACME	6.750"	5.00"	O	5000	STD
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Integral-Upper/Middle

Wellhead Pressure Control Equipment

II-Wellhead Equipment

7 Lubricators

7.2 Integral-Lower

Lubricator serves as a vessel to provide passage for running wireline toolstring into and out of the well under pressure. Normally positioned on top of Wireline Valve, Lubricator comes in three sections - Upper, Middle, Lower; to provide adequate length for wireline toolstring to be raised above wellhead, enabling the wireline valve to seal off pressure before and after wireline operations.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	H2S
9"-4ACME	6.750"	5.00"	O	5000	STD
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Integral-Lower

Wellhead Pressure Control Equipment

II-Wellhead Equipment

8 Grease Injection System

8.1 Grease Injection Head

Grease Injection Head (GIH) is a sealing device designed for use on braided cable wireline operation. Positioned on top of the Lubricators, GIH effectively contains well pressure by pumping grease into the flow tube, forming a liquid sealing that contains the well fluids and at the same time provides lubrication to the braided cable while running into and out of the well. The grease injection outlet port provides an exit for excessive or dirty grease, allowing new grease to be pumped in through the inlet port.

Product Specifications

Thread	Seal Diameter	Type	WP (psi)	Flow Tubes	Wire Size	Service
4 3/4"-4ACME	3.750"	B	5000	3/4/5	7/32"-5/16	STD
5"-4ACME	3.500"	O	5000	3/4/5		STD
5 3/4"-4ACME	4.000"	O	10000	3/4/5		H2S
6 1/2"-4ACME	4.750"	O	5000	3/4/5		STD
8 3/8"-4ACME	5.250"	O	10000	3/4/5		H2S

Grease Injection Head

II-Wellhead Equipment

8 Grease Injection System

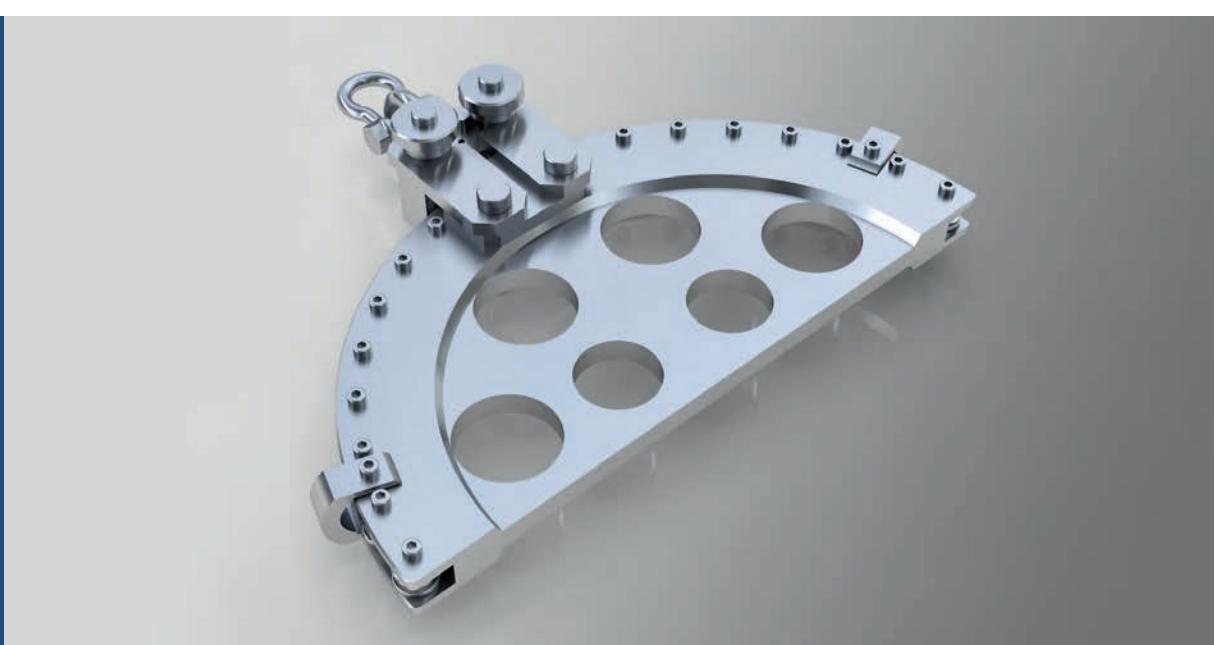
8.2 Cable Sheave for GIH

Cable Sheave for Grease Injection Head (GIH) is mainly secured above the GIH and used for cable operation to control and manipulate the direction of the cable from the top of Grease Injection Head to the cable drum of the wireline unit. This will reduce side pull force and avoid lateral loading on the Grease Injection Head during well operation.

Product Specifications

Sheave Dia	Suitable for Wire Size
20"	7/32"
	5/16"

Cable Sheave for GIH



Wellhead Pressure Control Equipment

II-Wellhead Equipment

9 Hydraulic Stuffing Box

Hydraulic Stuffing Box is used to seal off around moving or stationary solid wireline while performing wireline work under well pressure. Connected to the top section of the Lubricators, to allow the wireline to be guided in its travel; internal packings which seal off pressure and provide lubricant to the wireline; packing nut to control the hydraulic compression of the packing around wireline to minimize leakage; and a blow out plug at the lower section to provide a seal should the wireline break and be blown out of the packing.

Product Specifications

Sheave Dia	Thread	Seal Diameter	Type	WP (psi)	Suit for Wire Size
14"	5"-4ACME	3.500"	O	5000	0.092"/0.108"
	5 3/4"-4ACME	4.000"	O	10000	
	6 1/2"-4ACME	4.750"	O	5000	
16"	5"-4ACME	3.500"	O	5000	0.092"/0.108"/0.125"
	5 3/4"-4ACME	4.000"	O	10000	
	6 1/2"-4ACME	4.750"	O	5000	
	8 3/8"-4ACME	5.250"	O	10000	

Hydraulic Stuffing Box

II-Wellhead Equipment

10 Hay Pulleys

10.1 Slickline Design

Hay Pulley is used to control and manipulate the direction of the wireline from a horizontal positon to a vertical position en route to the stuffing box from the wireline unit. This tool is generally positioned at the wellhead on the lubricator to reduce side pull force and to avoid lateral loading of the lubricator during heavy jarring operations.

Slickline Design, please refer to the chart for the sizes.

Product Specifications

Sheave Dia	Suitable for Wire Size
16"	0.092"
	0.108"
	0.125"

Slickline Design

Wellhead Pressure Control Equipment

II-Wellhead Equipment

10 Hay Pulleys

10.2 Braided Cable Design

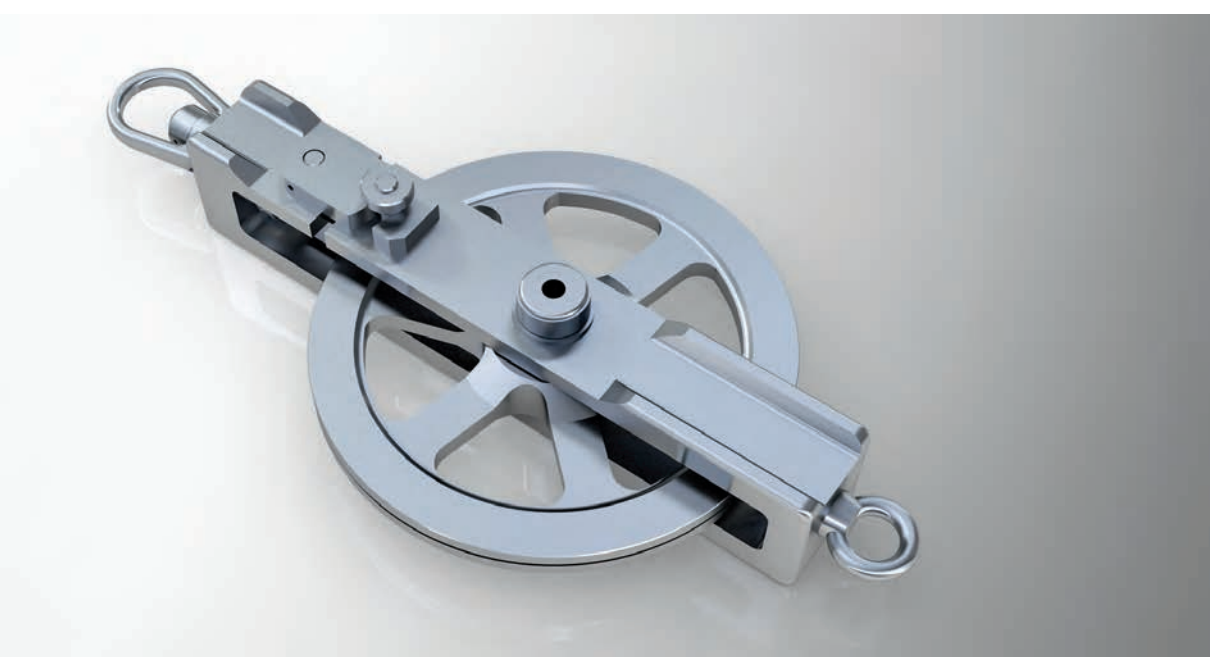
Hay Pulley is used to control and manipulate the direction of the cable from a horizontal positon to a vertical position en route to the stuffing box from the wireline unit. This tool is generally positioned at the wellhead on the lubricator to reduce side pull force and to avoid lateral loading of the lubricator during heavy jarring operations.

Braided Cable Design, please refer to the chart for the sizes.

Product Specifications

Sheave Dia	Suitable for Wire Size
20"	7/32"
	5/16"

Braided Cable Design



Wellhead Pressure Control Equipment

II-Wellhead Equipment

11 Hay Pulley Floor Stand

Hay Pulley Floor Stand is designed to keep Hay Pulley Sheave in position and protect the wireline from damage should the Hay Pulley fall down.

Product Specifications

	Suitable for Wire Size
	14"
	16"
	20"

Hay Pulley Floor Stand

II-Wellhead Equipment

12 Lubricator Lifting Clamp/ Spreader Bar

12.1 Lubricator Lifting Clamp

Lubricator Lifting Clamp is designed for lifting the Lubricator. It can be designed and load tested to customer requirement.

Product Specifications

I.D.	SWL (Tonne)
3.00"	2.5
4.00"	
5.00"	5
6.38"	

Lubricator Lifting Clamp

12 Lubricator Lifting Clamp/ Spreader Bar

12.2 Triangular Spreader Bar

Triangular Spreader Bar is designed to reduce the bending stress impact from the wireline to the Stuffing Box/Grease Injection Head. Hay Pulley/top block is used and suspended by the triangular spreader bar (no sheave is required on the Stuffing Box/ Grease Injection Head).

Triangular Spreader Bar

Wellhead Pressure Control Equipment

II-Wellhead Equipment

13 Rig-Up Dollies

Rig-Up Dollies are designed to assist wireline crews safely manhandle surface pressure control equipment both ways, i.e. horizontal to vertical and vice-versa, when rigging-up or down from a well. The quick union dolly has a steel axle and two heavy-duty wheels. The dolly is installed into the lower lubricator quick union connection. As the hoist is raised or lowered, the surface equipment weight is distributed through the wheels and the optimum lifting angle is safely maintained.

Product Specifications

Thread	Type
4 3/4"-4ACME	B
5"-4ACME	O
5 3/4"-4ACME	O
6 1/2"-4ACME	O
8 3/8"-4ACME	O
8 1/4"-4ACME	O
9"-4ACME	O
9 1/2"-4ACME	O
11 1/2"-4ACME	O

Rig-Up Dollies

Wellhead Pressure Control Equipment

II-Wellhead Equipment

14 Wireline Clamp

Wireline Clamp is used to hold the wire and to keep the toolstring in position while the lubricator is being raised or lowered down.

Product Specifications

Suitable for Wire/Cable Size	SWL（Tonne）
0.092"-0.108"	0.5
0.125"	
7/32"	

Wellhead Pressure Control Equipment

II-Wellhead Equipment

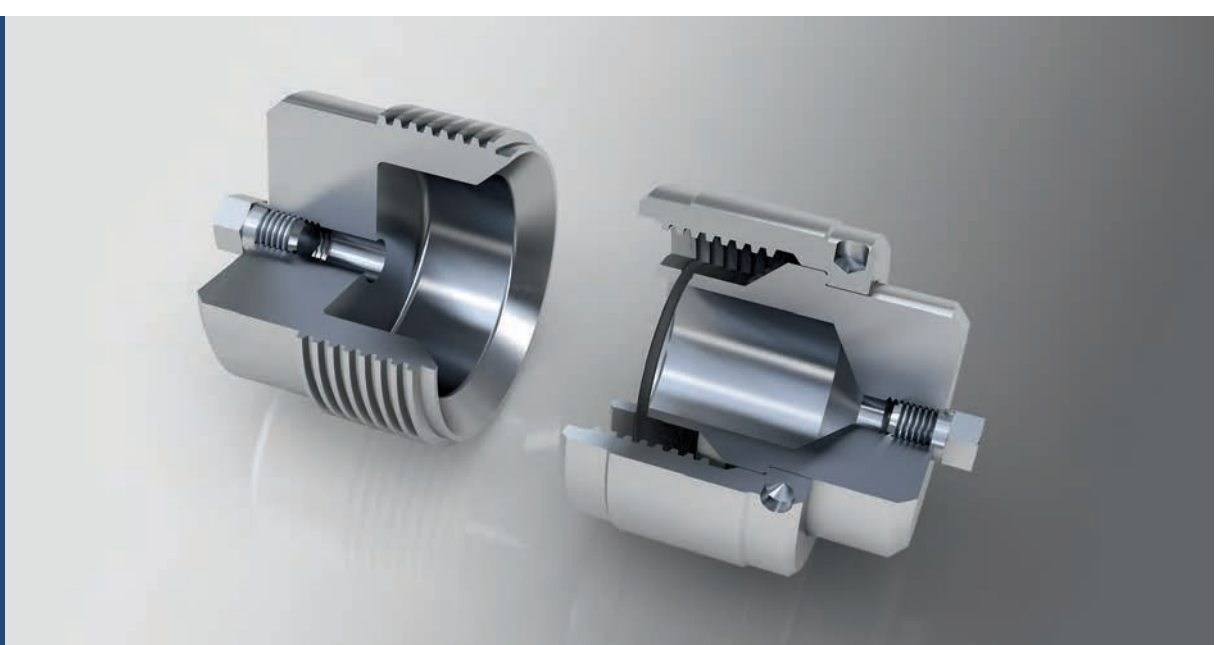
15 Quick Union Test Plug Assembly

Quick Union Test Plug Assemblies are pressure testing device that is essential to provide safe testing of pressure control equipment fitted with quick union end connections. It has a box configuration that is fitted into a Quick Union Pin & Collar. The one piece body consists of a NPT port or MP which can be fitted with either needle valve or pressure gauge suitable for working pressure up to 15K psi.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	B	5000	7500	1/2"NPT
5"-4ACME	3.500"	O	5000	7500	1/2"NPT
5 3/4"-4ACME	4.000"	O	10000	15000	1/2"NPT
6 1/2"-4ACME	4.750"	O	5000	7500	1/2"NPT
8 1/4"-4ACME	6.188"	O	5000	7500	1/2"NPT
8 3/8"-4ACME	5.250"	O	10000	15000	1/2"NPT
9"-4ACME	6.750"	O	10000	15000	1/2"NPT
9 1/2"-4ACME	8.000"	O	5000	7500	1/2"NPT
11 1/2"-4ACME	8.250"	O	10000	15000	1/2"NPT

Quick Union Test Plug Assemblies



Wellhead Pressure Control Equipment

II-Wellhead Equipment

16 Quick Test Sub

Quick Test Sub is used to reduce time spent while pressure testing of surface Pressure Control Equipment (PCE) when multiple runs are required. By its distinctive design, Lubricator system is only required to disconnect at test sub for running and retrieving of test and also conducting pressure test at test sub only while test or pressure sensitive equipment run in the Lubricator.

Product Specifications

Thread	Seal Diameter	I.D.	Type	WP (psi)	Service
4 3/4"-4ACME	3.750"	2.50"	B	5000	STD
4 3/4"-4ACME	3.750"	3.00"	B	5000	STD
5"-4ACME	3.500"	3.00"	O	5000	STD
5 3/4"-4ACME	4.000"	3.00"	O	10000	H2S
6 1/2"-4ACME	4.750"	4.00"	O	5000	STD
8 1/4"-4ACME	6.188"	5.00"	O	5000	STD
8 3/8"-4ACME	5.250"	4.00"	O	10000	H2S
9"-4ACME	6.750"	5.00"	O	10000	H2S
9 1/2"-4ACME	8.000"	6.38"	O	5000	H2S
11 1/2"-4ACME	8.250"	6.38"	O	10000	H2S

Quick Test Sub

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