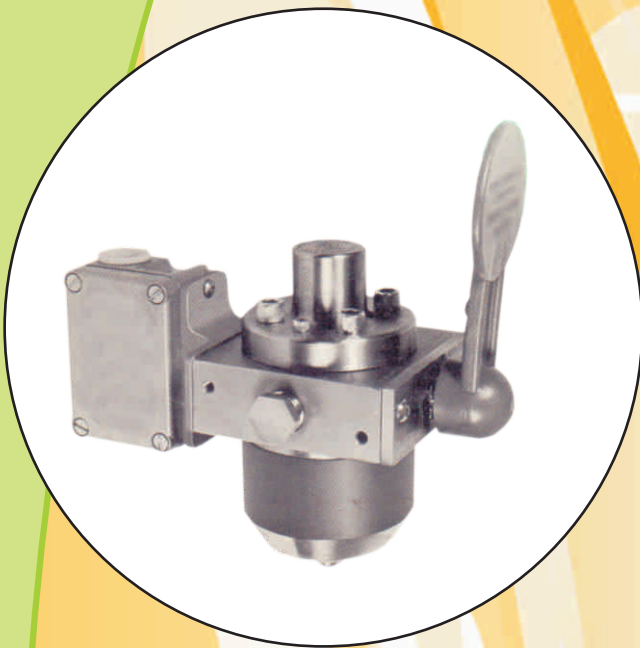
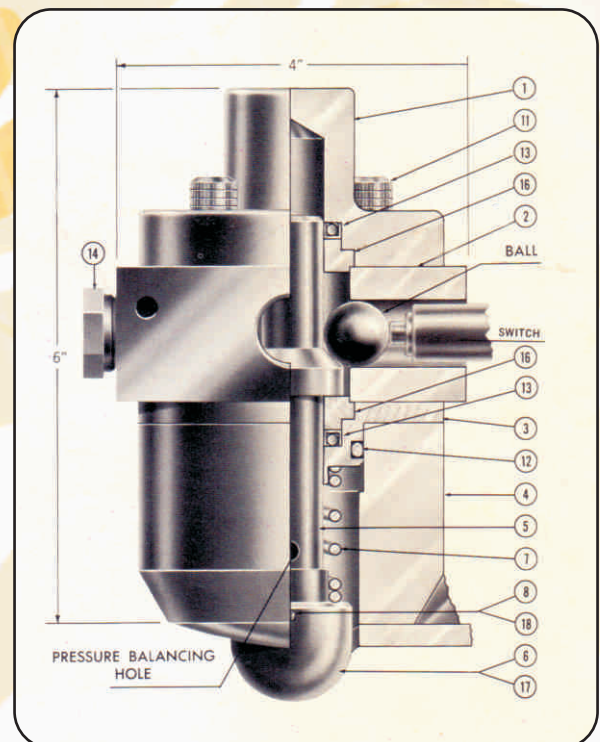


BINA PIG SIGNALER



MARK X BASIC ASSEMBLY

ITEM NO.	PART NO.	QUANTITY	DESCRIPTION
1	SH68-1	1	CAP
2	SH68-2	1	ACCESSORY PLATE
3	SH68-3	1	FLANGE
4	SH68-4	1	BASE
5	SH68-5	1	SHAFT
6	SH68-6	1	SMALL SHAFT END METER PROVER SERVICE
17	SH68-17	1	LARGE SHAFT END GENERAL PIPELINE SERVICE
7	SH68-7	1	SHAFT SPRING
8	SH68-8	1	SPRING PIN SMALL SHAFT END
18	SH68-18	1	SPRING PIN LARGE SHAFT END
9	SH68-9	2	CAP SCREW 10-24 NC X 1/2" (not shown)
10	SH68-10	2	CAP SCREW 10-24 NC X 7/8" (not shown)
11	SH68-11	4	CAP SCREW 3/8 - 24 NF X 3"
*12	SH68-12	1	"O" RING
*13	SH68-13	2	SHAFT SEALS
14	SH68-14	as req.	1/2" NPT HEX HEAD PIPE PLUG
15	SH68-15	1	5/16 ALLEN WRENCH FOR 3/8" SOCKET HEAD CAP SCREW (not shown) (to be used for pipe-line installation)
16	SH68-16	2	RETAINER SEAL RING



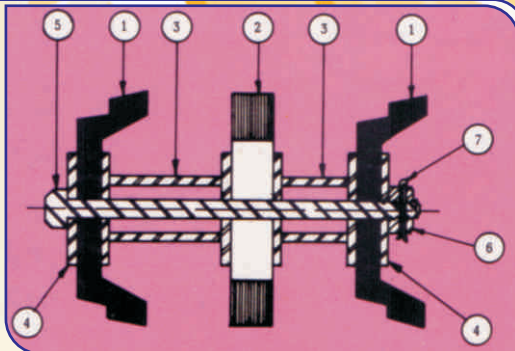
BINA ENGINEERING COMPANY

P-1, Ghosh Niwas, Pandavkund, Nardas Nagar, Bhandup (W), Mumbai - 400 078

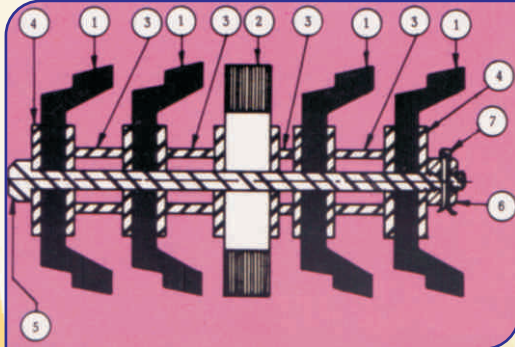
Mob: 09757019234 / 9561748879 / 9004398305 • Tel.: 022-25946855

E-mail: binaengineering1@gmail.com, bina_company2010@rediffmail.com

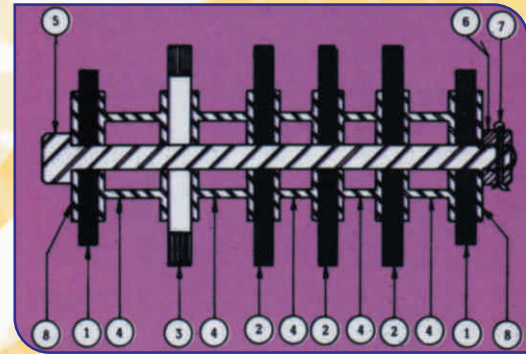
**CLEANING
PIG
(2 Cups)**



**CLEANING
PIG
(4 Cups)**



No.	DESCRIPTION
1	CUP
2	CIRCULAR STEEL WIRE BRUSH
3	SPACER SPOOL
4	BACK UP DISC
5	MANDREL
6	LOCK NUT
7	SPLIT PIN



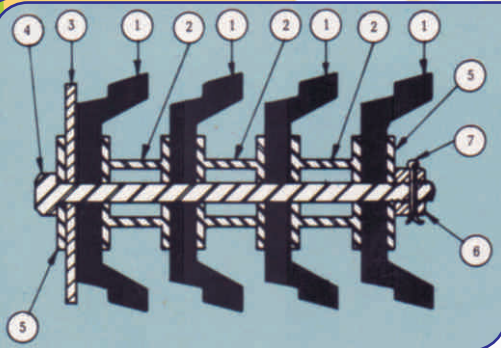
BI-DIRECTIONAL CLEANING PIG

No.	DESCRIPTION
1	GUIDING DISC
2	SEALING DISCS
3	CIRCULAR STEEL WIRE BRUSH
4	SPACER SPOOL
5	MANDREL
6	LOCK NUT
7	SPLIT PIN
8	BACK UP DISCS

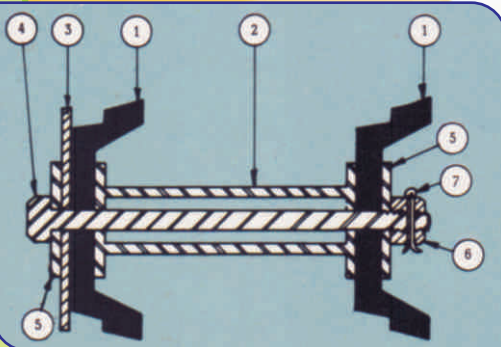
BINA



PIPELINE PIGS



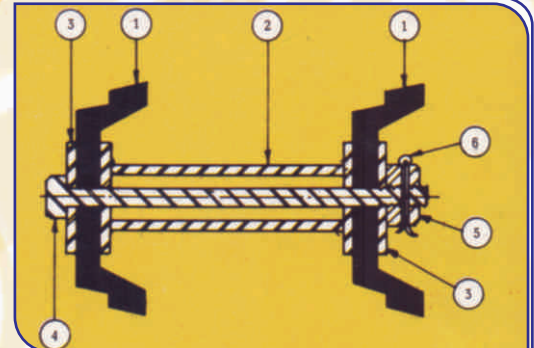
**GAUGING
PIG
(4 Cups)**



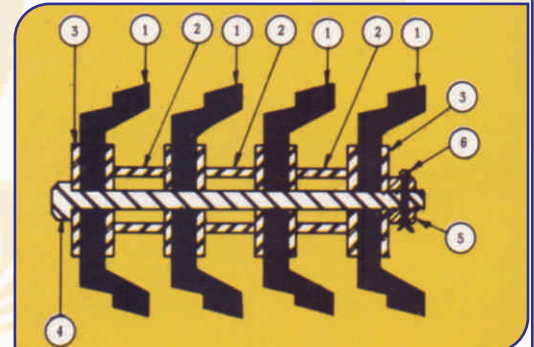
**GAUGING
PIG
(2 Cups)**

No.	DESCRIPTION
1	CUP
2	SPACER SPOOL
3	GAUGE PLATE
4	MANDREL
5	BACK UP DISC
6	LOCK NUT

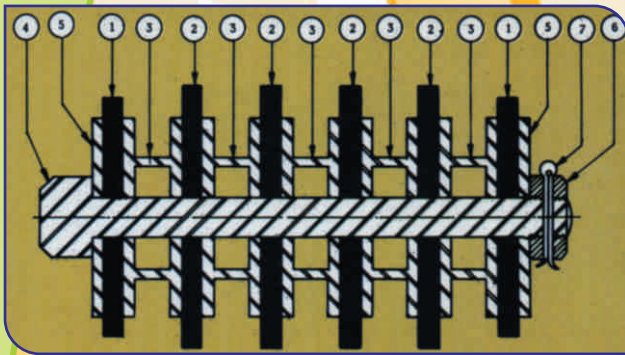
**BATCHING
PIG
(2 Cups)**



**BATCHING
PIG
(4 Cups)**

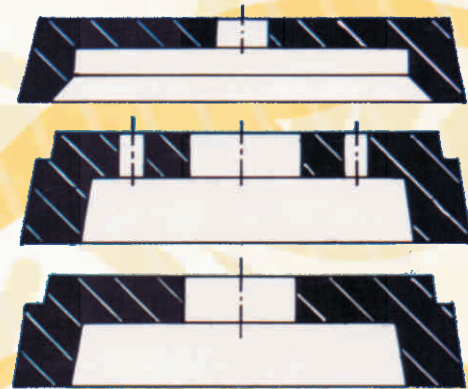


No.	DESCRIPTION
1	CUP
2	CIRCULAR STEEL WIRE BRUSH
3	SPACER SPOOL
4	BACK UP DISC
5	MANDREL
6	LOCK NUT

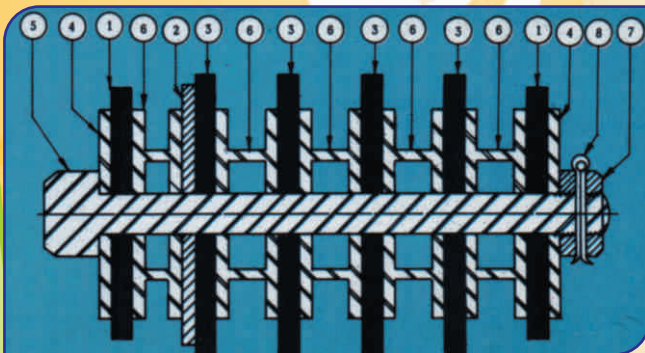


BI-DIRECTIONAL BATCHING PIG

No.	DESCRIPTION
1	GUIDING DISCS
2	SEALING DISCS
3	SPACER SPOOL
4	MANDREL
5	BACK UP DISCS
6	LOCK NUT
7	SPLIT PIN

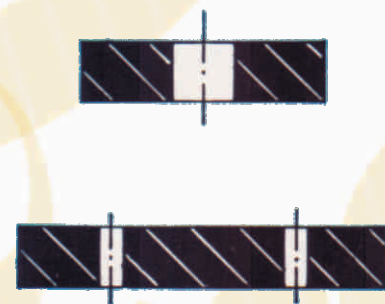


CUPS FOR PIGS

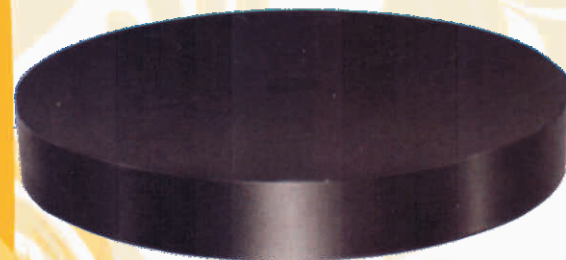


BI-DIRECTIONAL GAUGING PIG

No.	DESCRIPTION
1	GUIDING DISCS
2	GAUGE PLATE
3	SEALING DISCS
4	BACK UP DISCS
5	MANDREL
6	SPACER SPOOL
7	LOCK NUT
8	SPLIT PIN



DISCS FOR BI-DIRECTIONAL PIGS





Type P.S.C. (Polyurethane Scraper Cups)
2" - 48"

These cups, made of resilient wear resistant polyurethane, are designed to fit on standard types of pigs for pipeline cleaning. Upon request the cups can be supplied with other bolt circle and/or center hold to fit non-standard pipeline pigs.



Type SEP-3 (Separation Pigs)
16" - 48"

Description:
Welded steel body with 4 polyurethane scraper cups.
Function:
Designed for separation, swabbing or displacement operations.
Bends:
1.5 D radius bends. Full diameter branches.
Remarks:
Can be fitted with a gauging plate and/or discs.
Can be equipped with a polyurethane protection nose.



Type P.C.C. (Polyurethane Conical Cups)
4" - 48"

These polyurethane conical cups are made of a special designed polyester polyurethane compound, with very high physical properties. The very special design with large wear surface promotes longer cup life compared to standard scraper cups. The polyurethane conical cups are easy to assemble and maintain. The 4" - 14" (100mm - 350mm) range are extra equipped with cast external ribs.



Type GAU-1 (Gauging Pigs)
2" - 14"

Description:
Welded steel body with 2 polyurethane scraper cups and a hard faced gauging plate
Function:
Designed for construction testing and commissioning.
Bends:
1.5 D radius bends.
Remarks:
Can be fitted with steel or aluminium gauging plate
Can be equipped with a polyurethane protection nose.



Type P.S.R.D. (Polyurethane Scraper Discs)
4" - 48"

These bidirectional scraper discs, made of resilient wear resistant polyurethane, are designed to fit on standard types of pipeline bi-directional pigs. The reinforced middle center of the scraper discs prevents the active working part from tearing during the runs. Upon request the discs can be supplied with different outside diameter other bolt circle and/or center hole.



Type GAU-2 (Gauging Pigs)
16" - 48"

Description:
Welded steel body with 2 polyurethane scraper cups and a hard faced gauging plate
Function:
Designed for construction testing and commissioning.
Bends:
1.5 D radius bends.
Remarks:
Can be fitted with steel or aluminium gauging plate
Can be equipped with a polyurethane protection nose.



Type SEP-1 (Separation Pigs)
2" - 8"

Description:
Compact short steel body equipped with 4 polyurethane scraper cups.
Function:
Designed for separation, swabbing or displacement operations.
Bends:
4"-8" 1.5 D radius bends. Full diameter branches.
2"-3" 3 D radius bends. Full diameter branches.
Remarks:
Can be fitted with a gauging plate and/or discs.
Can be equipped with a polyurethane protection nose.



Type CLE-1 (Cleaning Pigs)
4" - 14"

Description:
Welded steel body with 2 polyurethane scraper cups and 2 circular crimped wire bristle brushes.
Function:
Designed for in service cleaning.
Bends:
1.5 D radius bends.
Remarks:
Can be fitted with steel or nylon brushes.
Can be equipped with a polyurethane protection nose.



Type SEP-2 (Separation Pigs)
10" - 14"

Description:
Welded steel body with 4 polyurethane scraper cups.
Function:
Designed for separation, swabbing or displacement operations.
Bends:
1.5 D radius bends. Full diameter branches.
Remarks:
Can be fitted with a gauging plate and/or discs.
Can be equipped with a polyurethane protection nose.



Type CLE-2 (Cleaning Pigs)
16" - 48"

Description:
Welded steel body with 2 polyurethane scraper cups and with brushes, either steel wire or nylon bristles. The brush-unit are placed on spring saddles which cover 360 degrees inside pipewall and guarantee superior cleaning
Function:
Designed for in service cleaning.
Bends:
Most effective in lines with 3D radius bends
Remarks:
Can be equipped with a polyurethane protection nose.



Type CLE-2 (Cleaning Pigs) 16" - 48"

Description:

Welded steel body with 3 polyurethane scraper cups and with brushes, either steel wire or nylon bristles. The brush-unit are placed on spring saddles which cover 360 degrees inside pipewall and guarantee superior cleaning

Function:

Designed for in service cleaning.

Bends:

Most effective in lines with 3D radius bends

Remarks:

Can be equipped with a polyurethane protection nose.



Type C.S.P. 2 (Long run conical separation Pigs) 16" - 48"

Description:

Welded steel body with a polyurethane protection nose equipped with 2 polyurethane conical drive cups

These conical pigs are equipped with spring steel fingers on the inside of the cups which assures that no bypass occurs between pipewall and the cuplips. They also provides tighter wall seal and continued wall contact.

Function:

Designed to operate for long distance runs either separation, swabbing or displacement and testing.

Will seal in, out of round pipe, providing a continuous seal.

Bends: 1.5 D radius bends.

Remarks: Can be fitted with a gauging plate.



Type CLE-4 (Cleaning Pigs) 20" - 48"

Description:

Welded steel body with 4 polyurethane scraper cups and with brushes, either steel wire or nylon bristles.

The brush-unit are placed on spring saddles which cover 360 degrees inside pipewall and guarantee superior cleaning

Function:

Designed for in service cleaning.

Bends:

Most effective in lines with 5D radius bends

Remarks:

Can be equipped with a polyurethane protection nose.



Type C.C.P. 1 (Long run conical cleaning pigs) 4" - 14"

Description:

Welded steel body with a polyurethane protection nose equipped with 2 polyurethane conical drive cups and 2 circular crimped wire bristle brushes.

Function:

Designed to operate for long distance cleaning runs

Bends:

Most effective in lines with 3D radius bends

Remarks:

Can be equipped with steel wire or nylon brushes.



Type N.M.F. 4 (Non Metallic Flexipig) 3" - 16"

Description:

Casted polyurethane body equipped with 4 polyurethane scraper cups

Function:

Designed for special separation, swabbing and displacement operations whereby metal to metal contact must be prevented.

Bends:

1.5 D radius bends. Full diameter branches.

Remarks:

Can be fitted with nylon brushes.



Type C.C.P. 2 (Long run conical cleaning pigs) 16" - 48"

Description:

Welded steel body with a polyurethane protection nose equipped with 2 polyurethane conical drive cups and with brushes, either steel wire or nylon bristles.

The brush-units are placed on spring saddles which cover 360 degrees inside pipewall and guarantee an utmost cleaning

Function:

Designed to operate for long distance cleaning runs

Bends:

Most effective in lines with 3D radius bends.



Type N.M.F. 6 (Non Metallic Flexipig) 3" - 16"

Description:

Casted polyurethane body equipped with 6 polyurethane scraper cups

Function:

Designed for special separation, swabbing and displacement operations whereby metal to metal contact must be prevented.

Bends:

1.5 D radius bends. Full diameter branches.

Remarks:

Can be fitted with nylon brushes.



Type C.C.P. 3 (Long run conical cleaning pigs) 16" - 48"

Description:

Welded steel body with a polyurethane protection nose equipped with 2 polyurethane conical drive cups and with brushes, either steel wire or nylon bristles.

The blade-units are placed on spring saddles which cover 360 degrees inside pipewall and guarantee an utmost cleaning

Function:

Designed to operate for long distance cleaning runs

Bends:

Most effective in lines with 3D radius bends.



Type C.S.P. 1 (Long run conical separation Pigs) 4" - 14"

Description:

Welded steel body with a polyurethane protection nose equipped with 2 polyurethane conical drive cups

Function:

Designed to operate for long distance runs either separation, swabbing or displacement and testing.

Will seal in, out of round pipe,, providing a continuous seal.

Bends:

1.5 D radius bends.

Remarks:

Can be fitted with a gauging plate.



Type BID-1 (Bi-directional Pigs) 4" - 14"

Description:

Welded steel body with 4 polyurethane scraper disc.

Function:

Filling and emptying, hydrostatic testing and special bi-directional applications.

Bends:

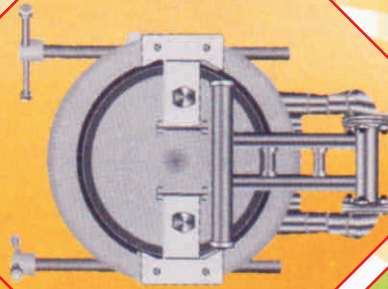
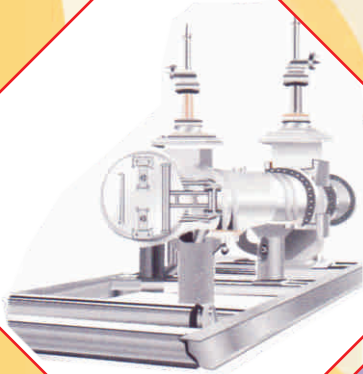
3 D radius bends.

Remarks:

Can be equipped with a polyurethane protection nose.

BINA

PIG LAUNCHER AND RECEIVERS



PIG LAUNCHER AND RECEIVERS

BINA Pig Launchers and Receivers are simple in design, safe in operation and made from field proven equipment.

The Receivers can be designed to facilitate receipt of two or more pigs simultaneously without having to open the barrel. From our experience this becomes necessary at time during batching operations.

BINABRAND END CLOSURES

BINA end closures are designed to accommodate dual clamp lock with tell-tale port for detection of leakage if any. The safety feature incorporate a mechanical locking device which prevents the operator from opening the barrel till it is completely depressurised. The Opening and closing of the barrel is easy, smooth and quick. The mechanism incorporates two square threaded studs made of alloy steel for strength and long life

BINA WIRELINE TOOLS



PEAR DROP
ROPE SOCKET

The rope socket is used to make the connection between the slickline and tool string. Several types are commonly found, selection generally being dependent on slickline size and type:
0.092 in. slickline – Disc & Spring type.
0.092 in., 0.108 in., 0.125 in. slickline - Pear drop (brass & wedge) type.



DISC & SPRING
ROPE SOCKET



BLIND BOX

The blind box is used when heavy downward jarring is required to dislodge a fish or push something down the hole. It is flat on the bottom and hardened to reduce wear and damage. Blind boxes are available in a range of sizes to suit the application and dimensions of the completion through which it is to be run. When used as a cutter bar, it is made up below some stem and a rope socket then dropped in the well bore to cut wire down hole.



IMPRESSION
BOX

The impression block or lead impression block (LIB) is similar in appearance to the blind box, but it is filled with lead. The lead is keyed in position by a roll pin or a hex headed bolt that is installed prior to pouring molten lead inside the housing. The impression block is used to obtain a picture (impression) of the component creating the down hole blockage or obstruction. The information gained is used in selecting an appropriate fishing tool assembly. To prepare the impression block, roughly flatten the lead face with a hammer, then smooth with a coarse rasp. Finish with a smooth file and a piece of steel shear stock rubbed across the face to give a polished surface. There should be no indentations in the surface prior to running and a check should be made to ensure there are no overlapping edges that may hang up in the collars when pulling out and dislodge or distort the lead. When refilling the impression block, always melt the previous lead out and replace in a continuous pour. Stopping and restarting will create a weak flaw, which could separate down hole. In operation, the impression block should be positioned on the obstruction and one jar down only applied to obtain one clear image. Subsequent jarring may cause multiple impressions that will confuse the image.



TUBING END
LOCATOR

The tubing end locator is used to locate the end of the tubing string to provide a cross-reference or correlation check of the tool string depth against known tubing depth references. The end locator is also used to correlate the tag sand depth accurately from the bottom of the tubing (depth known from completion records). The tool may be fitted with more than one shear pin position to enable the same tool to be run in different size tubing strings. Since the tool operates on a one-shot basis, care should be taken to ensure the pin is not accidentally sheared, e.g., take care pulling the tubing end locator up into the lubricator. After the tubing end locator is started in the hole, it must be run out the bottom of the tubing string, so that the loaded finger trips to the horizontal position. Pick-up to tag the tubing end and obtain the tubing end depth reference. A subsequent jar-up action shears the 3/16 in. brass pin below the finger and allows the tool to be removed from the well bore.



STEM BAR

Sometimes referred to as sinker bar, stem is used to provide additional weight to the tool string which may be required to run into the well bore against high-pressure and stuffing box friction.

Increasing the stem weight increases the impact force delivered by a jar. Flats for wrenches are provided and should be used, never grip on the fishing neck or this will damage the sharp edges.

All connections should be clean and dry. Do not lubricate down hole threads since they may unscrew down hole during extended jarring.

The stem is available in standard lengths of 2 ft, 3 ft and 5 ft.



LEAD FILLED
BAR



TUBING
SWAGE

A swaging tool is used to restore lightly collapsed or distorted damage to the tubing string. The OD of the swage should be equal to the tubing drift. To operate the swage, down-jars are required to force the swage through the tubing damage. To ensure recovery of the tool string, up-jars should also be included in the event the swage becomes jammed. The fluid bypass hole permits the passage of fluid when the OD of the swage fills the tubing ID.



TUBING
BROACH



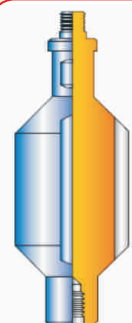
PARAFFIN
CUTTER



SAMPLE BAILER
(FLAPPER TYPE)



SAMPLE BAILER
(BALL TYPE)



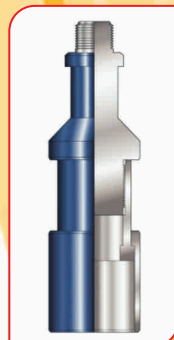
FLUTED
CENTRALISER

BINA ENGINEERING COMPANY

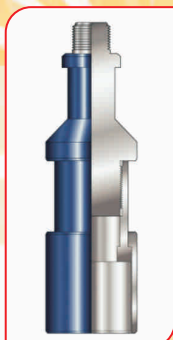
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E-mail: bina_company2010@rediffmail.com



SKIRTED MAGNET



SKIRTED MAGNET



QUICK CONNECT



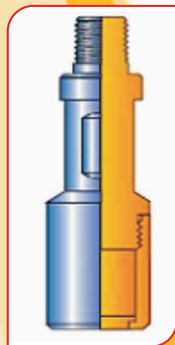
WIRE FINDER



SOLID FINDER



SWIVEL JOINT



FISHING MAGNET



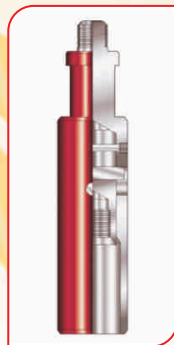
CROSSOVER



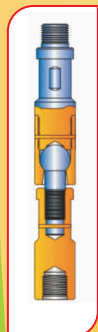
PINNING
TOOLS



RELEASING
TOOLS



GU ADAPTER



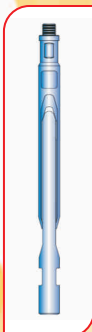
KNUCKLE
JOINT
(THREAD
TYPE)



KNUCKLE
JAR
(FORGED
TYPE)



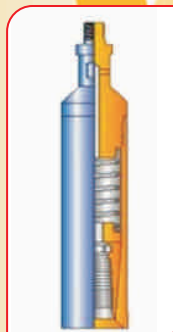
ROLLER
STEM



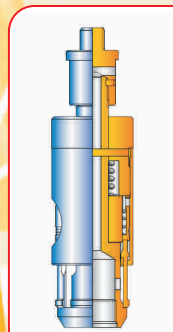
SPANG
JAR



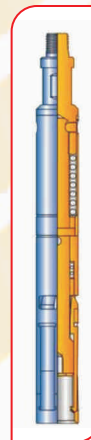
TABULAR
JAR



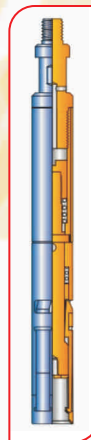
WIRELINE
OVERSHOT



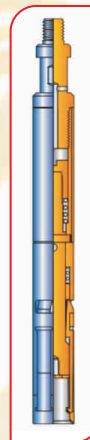
GS PULLING
TOOL



R PULLING
TOOL



S PULLING
TOOL



UNIVERSAL
PULLING
TOOL



FLAT
BOTTOM
GO DEVIL



ANGLE
BOTTOM
GO DEVIL



ROLLER
GO DEVIL



WIRELINE
GRAB



CENTER
SPEAR



WIRE
FINDER
GRAB