



Silver Fox

SERVICE TOOLS

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Service tools are oil well completion products of various design. They are engineered and manufactured to be retrievable and used multiple times. They are not normally designed to be permanently left in the well bore.

APPLICATIONS

- *Perform acid wash on production formation*
- *Leak detection and tracking*
- *Suspension of well or zonal isolation*
- *Hydraulic setting of other tools*

LOCATIONS

229 CLEARVIEW DRIVE,
RED DEER COUNTY, ALBERTA, CANADA
403-342-1640

5820 FM 455
SANGER, TEXAS, USA
940-458-3550

2101 W 37TH ST
ODESSA, TEXAS, USA
432-363-5569

833-575-8665 (CANADA & USA)

SALES@SILVER-FOX.NET



SERVICE TOOLS



CW RETRIEVABLE BRIDGE PLUG

The CW plug is a wireline or hydraulic set packer type retrievable bridge plug. It holds high pressure from above and below, and can be used for zone isolation, temporary abandonment, acidizing, cementing and fracturing. In certain circumstances and it can also be used close to surface for well head replacements.

Setting: Attach CW with WLAK onto desired setting tool. Run in hole to desired setting depth. Activate setting tool to fully shear off of the shear stud. Once released from bridge plug, pull setting assembly out of the wellbore.

Retrieving: Thread CW retrieving tool onto tubing. Run in hole until within 1 stand of CW bridge plug. Begin circulating and slowly run tubing down to tag bridge plug, set-down weight onto bridge plug. Allow time for bridge plug to equalize. Pull over to release CW bridge plug from casing wall and pull up 1 stand to fully stretch out tool. Allow time for packing elements to relax. Pull bridge plug from wellbore.

FEATURES:

- Up to 10K PSI (69MPa) differential pressure
- Pressure Balanced Equalizing system, so Bridge Plug is equalized before release
- Straight pull to release
- Rotational Safety Release to remove Retrieving tool from plug if required
- Caged Bi-Directional Slips
- Easy to re-dress and repair

OPTIONAL:

- Element options available for various well bore conditions
- TefCote™, NickelCote™ Protective coatings available
- Carbide Slips

SETTING/RETRIEVING:

- Wireline, Hydraulic or Coil Tubing Set
- Optional Sandline or Coil Tubing retrievable



CW RETRIEVABLE BRIDGE PLUG



OD MM IN	CASING		TOOL SIZE		PRESSURE RATING MPA KSI
	WT (T&C) KG/M	SETTING RANGE MM	OD MM	OAL MM	
	LBS/FT	IN	IN	IN	
114.3 4-1/2	14.14 - 20.09	99.57 - 103.89	95.25	1216.03	69
	9.5 - 13.5	3.920 - 4.090	3.750	47.875	10
	20.09 - 22.47	97.18 - 99.57	92.71	1216.03	69
127 5	13.5 - 15.1	3.826 - 3.920	3.650	47.875	10
	17.11 - 22.32	111.96 - 115.82	107.95	1216.03	69
	11.5 - 15.0	4.408 - 4.560	4.250	47.875	10
	22.32 - 26.79	108.61 - 111.96	104.78	1216.03	69
	15.0 - 18.0	4.276 - 4.408	4.125	47.875	10
139.7 5-1/2	26.78 - 31.85	104.80 - 108.61	100.33	1216.03	69
	18.0 - 21.4	4.126 - 4.276	3.950	47.875	10
	19.35 - 23.06	125.73 - 128.12	121.44	1357.33	69
	13.0 - 15.5	4.950 - 5.044	4.781	53.438	10
	23.06 - 25.30	124.26 - 125.73	117.48	1357.33	69
	15.5 - 17.0	4.892 - 4.950	4.625	53.438	10
152.4 6	29.76 - 34.23	118.62 - 121.36	114.30	1357.33	69
	20.0 - 23.0	4.670 - 4.778	4.500	53.438	10
	34.22 - 38.69	115.52 - 118.62	111.76	1357.33	69
	23.0 - 26.0	4.548 - 4.670	4.400	53.438	10
	34.22 - 38.69	130.35 - 133.10	124.46	1357.33	69
177.8 7	23.0 - 26.0	5.132 - 5.240	4.900	53.438	10
	25.30 - 38.69	163.98 - 166.07	158.24	1463.68	69
	17.0 - 20.0	6.456 - 6.538	6.230	57.625	10
	34.23 - 38.69	159.41 - 161.70	152.98	1463.68	69
	23.0 - 26.0	6.276 - 6.366	6.023	57.625	10
244.5 9-5/8	38.69 - 47.62	154.79 - 159.41	149.23	1463.68	69
	26.0 - 32.0	6.094 - 6.276	5.875	57.625	10
	48.07 - 64.74	222.38 - 228.63	215.90	1606.55	55
	32.3 - 43.5	8.755 - 9.001	8.500	63.250	8
273.05 10-3/4	64.74 - 79.61	216.79 - 222.38	209.55	1606.55	55
	43.5 - 53.5	8.535 - 8.755	8.250	63.250	8
	48.74 - 75.90	250.19 - 258.88	244.48	1733.55	41
339.73 13-3/8	32.75 - 51.0	9.850 - 10.192	9.625	68.250	6
	71.43 - 107.15	313.61 - 322.96	307.98	1898.65	21
	48.0 - 72.0	12.347 - 12.715	12.125	74.750	3



SERVICE TOOLS

CW SETTING & RETRIEVING TOOLS



The CW plug can be set using Wireline, Hydraulic or Coil Tubing. The WLAK is used to mate up with the users preferred Baker style #10 or #20 setting method.

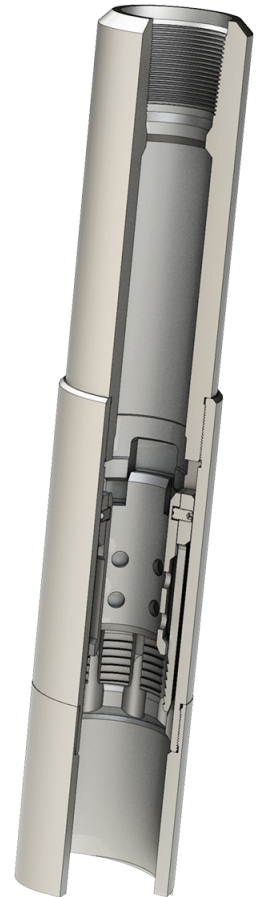
The WLAK typically comprises of a sleeve, adjuster nut, lock spring and set screws.

The WLAK automatically disconnects from the CW Bridge Plug during final set procedure, and is easily retrieved and can be used multiple times.

The CW Retrieval tool is required to equalize, release and retrieve the CW Bridge Plug from the well.

The Retrieving tool typically comprises of a top sub, adaptor sleeve, skirt, latch, latch adaptor, and set screws.

The Retrieval tool is designed to automatically engage the CW plug with the appropriate set down weight. Once engaged, the retrieval tool will hold CW in place while also allowing plug to equalize.



TOOL SIZE	CASING	SETTING SLEEVE			RETRIEVAL TOOL
OD	WT (T&C)	OD	OAL	BAKER	OD
MM	KG/M	MM	MM	STYLE	MM
IN	LBS/FT	IN	IN		IN
114.3 4-1/2	14.14 - 20.09	95.25	1066.8	10	95.25
	9.5 - 13.5	3.750	42.0		3.750
	20.09 - 22.47	92.71	1066.8		92.71
	13.5 - 15.1	3.650	42.0		3.650
127	17.11 - 26.79	95.25	1066.8		95.25
5	11.5 - 21.4	3.750	42.0		3.750
139.7	19.35 - 38.69	111.76	1016.0	20	111.00
5-1/2	13.0 - 26.0	4.400	40.0		4.370
152.4	34.22 - 38.69	111.76	1016.0		111.00
6	23.0 - 26.0	4.400	40.0		4.370
177.8	25.30 - 47.61	114.30	1016.0		120.65
7	17.0 - 32.0	4.500	40.0		4.750
219.1	48.07 - 79.61	193.68	877.6		193.68
9-5/8	32.3 - 53.5	7.625	34.55		7.625
273.1	25.30 - 47.61	193.68	877.6		225.43
10-3/4	32.75 - 51.0	7.625	34.55		8.875
339.7	35.71 - 59.51	193.68	877.6	301.63	
13-3/8	48.0 - 80.0	7.625	34.55	11.875	



WR RETRIEVABLE BRIDGE PLUG

The WR plug is a wireline or hydraulic set packer type retrievable bridge plug. It holds high pressure from above and below, and can be used for zone isolation, temporary abandonment, acidizing, cementing and fracturing. In certain circumstances and it can also be used close to surface for well head replacements.

Setting: Attach WR with WLAK onto desired setting tool. Run in hole to desired setting depth. Activate setting tool to fully shear off of the shear stud. Once released from bridge plug, pull setting assembly out of the wellbore.

Retrieving: Thread WR retrieving tool onto tubing. Run in hole until within 1 stand of WR bridge plug. Begin circulating and slowly run tubing down to tag bridge plug, set-down weight onto bridge plug. Allow time for bridge plug to equalize. Pull over to release WR bridge plug from casing wall and pull up 1 stand to fully stretch out tool. Allow time for packing elements to relax. Pull bridge plug from wellbore.

FEATURES:

- Up to 10K PSI (69MPa) differential pressure
- Pressure Balanced Equalizing system, so Bridge Plug is equalized before release
- Straight pull to release
- Rotational Safety Release to remove Retrieving tool from plug if required
- Caged Bi-Directional Slips
- Easy to re-dress and repair
- Collet held equalizer sleeve

OPTIONAL:

- Element options available for various well bore conditions
- TefCote™, NickelCote™ Protective coatings available
- Carbide Slips

SETTING/RETRIEVING:

- Wireline, Hydraulic or Coil Tubing Set
- Conventional Tubing retrievable only





SERVICE TOOLS

WR RETRIEVABLE BRIDGE PLUG



OD MM IN	CASING		TOOL SIZE		PRESSURE RATING MPA KSI
	WT (T&C) KG/M	SETTING RANGE MM	OD MM	OAL MM	
	LBS/FT	IN	IN	IN	
114.3 4-1/2	14.14 - 20.09	99.57 - 103.89	95.25	1216.03	69
	9.5 - 13.5	3.920 - 4.090	3.750	47.875	10
	20.09 - 22.47	97.18 - 99.57	92.71	1216.03	69
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	17.11 - 22.32	111.96 - 115.82	107.95	1216.03	69
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	13.0 - 15.5	4.950 - 5.044	4.781	53.438	10
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	23.0 - 26.0	5.132 - 5.240	4.900	53.438	10
	25.30 - 38.69	163.98 - 166.07	158.24	1463.68	69
	17.0 - 20.0	6.456 - 6.538	6.230	57.625	10
	34.23 - 38.69	159.41 - 161.70	152.98	1463.68	69
244.5 9-5/8	23.0 - 26.0	6.276 - 6.366	6.023	57.625	10
	38.69 - 47.62	154.79 - 159.41	149.23	1463.68	69
	26.0 - 32.0	6.094 - 6.276	5.875	57.625	10
	48.07 - 64.74	222.38 - 228.63	215.90	1606.55	55
273.05 10-3/4	32.3 - 43.5	8.755 - 9.001	8.500	63.250	8
	64.74 - 79.61	216.79 - 222.38	209.55	1606.55	55
	43.5 - 53.5	8.535 - 8.755	8.250	63.250	8
339.73 13-3/8	48.74 - 75.90	250.19 - 258.88	244.48	1733.55	41
	32.75 - 51.0	9.850 - 10.192	9.625	68.250	6
	71.43 - 107.15	313.61 - 322.96	307.98	1898.65	21
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The WR plug can be set using Wireline, Hydraulic or Coil Tubing. The WLAK is used to mate up with the users preferred Baker style #10 or #20 setting method.

The WLAK typically comprises of a sleeve, adjuster nut, lock spring and set screws.

The WLAK automatically disconnects from the WR Bridge Plug during final set procedure, and is easily retrieved and can be used multiple times.

The WR Retrieval tool is required to equalize, release and retrieve the WR Bridge Plug from the well.

The Retrieving tool typically comprises of a top sub, adaptor sleeve, skirt, latch, latch adaptor, and set screws.

The Retrieval tool is designed to automatically engage the WR plug with the appropriate set down weight. Once engaged, the retrieval tool will hold WR in place while also allowing plug to equalize.



TOOL SIZE	CASING	SETTING SLEEVE			RETRIEVAL TOOL
OD	WT (T&C)	OD	OAL	BAKER	OD
MM	KG/M	MM	MM	STYLE	MM
IN	LBS/FT	IN	IN		IN
114.3 4-1/2	14.14 - 20.09	95.25	1066.8	10	95.25
	9.5 - 13.5	3.750	42.0		3.750
	20.09 - 22.47	92.71	1066.8		92.71
	13.5 - 15.1	3.650	42.0		3.650
127 5	17.11 - 26.79	95.25	1066.8		95.25
	11.5 - 21.4	3.750	42.0		3.750
139.7 5-1/2	19.35 - 38.69	111.76	1016.0	20	111.00
	13.0 - 26.0	4.400	40.0		4.370
152.4 6	34.22 - 38.69	111.76	1016.0		111.00
	23.0 - 26.0	4.400	40.0		4.370
177.8 7	25.30 - 47.61	114.30	1016.0		120.65
	17.0 - 32.0	4.500	40.0		4.750
219.1 9-5/8	48.07 - 79.61	193.68	877.6		193.68
	32.3 - 53.5	7.625	34.55		7.625
273.1 10-3/4	25.30 - 47.61	193.68	877.6		225.43
	32.75 - 51.0	7.625	34.55		8.875
339.7 13-3/8	35.71 - 59.51	193.68	877.6		301.63
	48.0 - 80.0	7.625	34.55		11.875



SERVICE TOOLS



B110 / B120 HYDRAULIC SETTING TOOL

The B110/120 Hydraulic Setting Tool is a multi-stage setting tool designed to set conventionally wireline set tools hydraulically on tubing. This is advantageous for setting of tools in highly deviated or horizontal wells where wireline has difficulty in obtaining depth required or when a wireline unit may not be available. The B110/120 setting tool uses a bottom connection identical to the Baker E-4 wireline pressure setting assembly so standard adaptor kits are used.

Setting Procedure: Thread desired tool and wireline adaptor kit onto setting tool. Run assembly into the wellbore. If running fill sub drop ball and allow time for it to naturally fall. Pressure up tubing/setting tool to predetermined pressures to sufficiently set tools being run and shear the shear stud. Pull setting tool from wellbore.

FEATURES:

- Robust design
- Simple Operation
- Multiple setting chambers can be added to change overall setting pressure
- Parts are interchangeable with other manufacturers
- Easily convertible between the B110 size and the B120 size

OPTIONAL:

- Can be used to run equipment in high temperature applications
- Fill Sub top sub can be an added allowing user to run tubing in Open condition

THREAD	TOOL TYPE	BAKER STYLE	OD	TOOL SIZE		
				STAGE COUNT		
				3	4	5
MM IN			MM IN	MM IN	MM IN	MM IN
60.3 2-3/8	B110	10	88.9 3.50	116.97 46.050	140.53 55.330	164.11 64.610
	B120	20	96.5 3.80	131.00 51.578	154.58 60.858	178.15 70.138



B110 / B120 ACCESSORIES

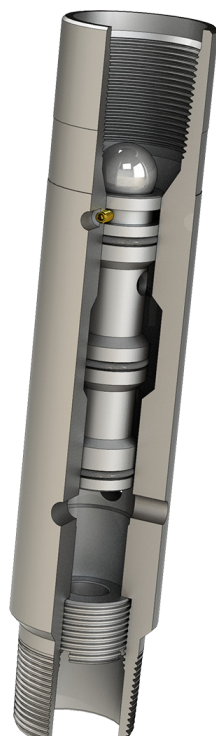
EXTRA STAGES



B110 KIT



B120 KIT



FILL SUB

A Fill Sub can be used in conjunction with the B series setting tool. This tool allows the tubing to be ran in an open condition, allowing it to be filled during the run in procedure. This tool is threaded directly onto the top of the B series setting tool, and is available in 60.3mm / 2-3/8" EUE Box x Pin connections.

Operation

Once setting depth has been achieved, pressure activates the ball against the seat, shifting sleeve to the closed position, the pressure is then allowed to flow through the Fill Sub and apply against the B series setting tool.



SERVICE TOOLS



TXT-2 PACKER

The TXT-2 packer is a compression-set retrievable service packer used for remedial applications such as squeeze cementing, fracturing, acidizing and other operations where high pressure differentials are required.

Carbide inserted drag blocks, carbide inserted slips and a three-piece packing element system enhance packer performance. Hydraulic hold-down buttons are protected during running or circulating, minimizing damage potential.

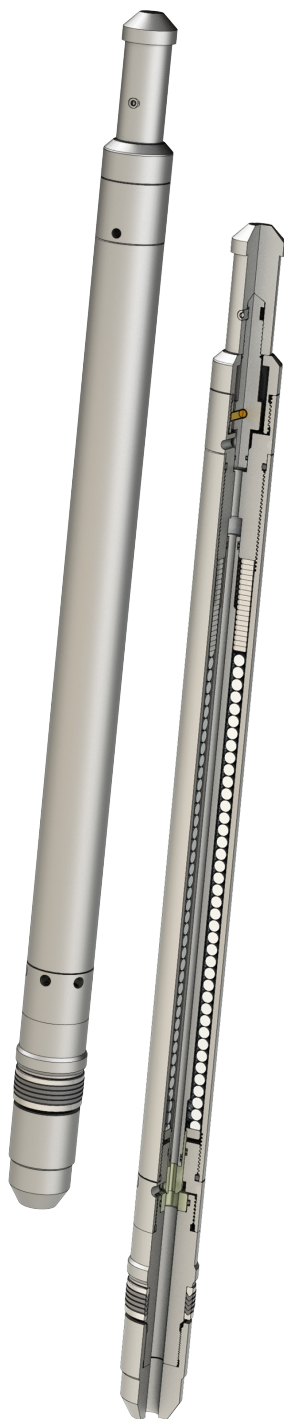
To Set the Packer: Run Packer to setting depth, rotate tubing ¼ Left Hand Rotation, Set-down weight to set packer. The collet releases during setting by applying tubing weight, closing the bypass.

To Release the Packer: Pickup weight off of packer and continue to pull up. This upward movement will open the unloader, relax the packing elements, unset the slips and re-jay the packer. Pull packer out of wellbore.

FEATURES:

- Large internal bypass area to maximize running and circulating rates
- Internal collet to prevent premature bypass closing
- Multiple holddown button slip assembly for maximum pressure performance
- Three-piece packing element system for reliable, proven performance
- Alloy steel manufacturing for optimum reliability in severe applications
- Convertible to left-hand operation
- Balance Piston reduces amount of set-down weight required

PACKER		CASING		TOOL SIZE		PRESSURE RATING
OD	THREAD	WT (T&C)	SETTING RANGE	OD	ID	
MM	MM	KG/M	MM	MM	MM	MPA
IN	IN	LBS/FT	IN	IN	IN	KSI
114.3	60.3	14.14 - 20.09	99.57 - 103.89	95.78	44.45	69
4-1/2	2-3/8	9.5 - 13.5	3.920 - 4.090	3.771	1.75	10
139.7	60.3	19.35 - 23.07	125.73 - 128.12	121.44	49.28	69
		13.0 - 15.5	4.950 - 5.044	4.781	1.94	10
		23.07 - 29.76	121.36 - 125.73	117.86	49.28	69
		15.5 - 20.0	4.778 - 4.950	4.640	1.94	10
5-1/2	2-3/8	29.76 - 34.23	118.62 - 121.36	114.30	49.28	69
		20.0 - 23.0	4.670 - 4.778	4.500	1.94	10
		25.30 - 29.76	163.98 - 166.07	159.16	60.45	69
		17.0 - 20.0	6.456 - 6.538	6.266	2.38	10
177.8	73.0	29.76 - 38.69	159.41 - 163.98	154.25	60.45	69
		20.0 - 26.0	6.276 - 6.456	6.073	2.38	10
		38.69 - 43.16	157.07 - 159.41	151.46	60.45	69
		26.0 - 29.0	6.184 - 6.276	5.963	2.38	10
7	2-7/8	47.62 - 52.09	152.50 - 154.79	147.50	60.45	69
		32.0 - 35.0	6.004 - 6.094	5.807	2.38	10



TYPE 'M' FLUID CONTROL VALVE

The Model 'M' Fluid Control Valve is a pressure activated valve used to provide surface control over fluids. Ideally suited for injection wells with low reservoir pressures.

Running:

- The fluid control valve can be installed in the landing nipple before the packer is run.
- The fluid control valve may be run to the seating nipple using a JDC Pulling Tool or equivalent mechanism.
- If wellbore is full of fluid, the fluid control valve may be dropped from surface, allowing time for the valve to naturally fall into place. It will then usually need to be pressured up and pumped into the landing nipple on its first pressure cycle.

Once the fluid control valve is at desired depth and seated into the landing nipple, squeeze operations can now commence. Pressure is used to open and close the valve. Predetermined applied pressure opens the valve, allowing fluid to flow through it to the formation below.

Pulling:

The valve is removed from the seating nipple by a JDC Pulling tool or equivalent device and conventional wireline operations.

FEATURES:

- Operates using differential pressure and is not dependent on well depth
- Prevents loss of expensive chemical in low fluid level wells
- Utilizes chemical and wear resistant seals to ensure problem free operation
- Protects sensitive formations by holding displacement fluids in tubing
- Sand line or wireline retrievable
- Surface controlled by tubing pressure
- Meters precise volumes of liquids

APPLICATIONS:

- Typically used in conjunction with a selective stimulation tool or straddle type packer to provide fluid control when selectively acidizing low fluid levels
- Selective scale removal
- Chemical treatments

TUBING THREAD	MAX VALVE OD	SEATING NIPPLE ID
MM	MM	MM
IN	IN	IN
60.3	47.371	46.025
2-3/8	1.865	1.812



SERVICE TOOLS

MECHANICAL COLLAR LOCATOR

The MCCL (mechanical collar locator) consists of indexing drag blocks that are mounted on either a swivel body or solid body. The tool provides a reliable means to locating casing collars as the sub is ran in or out of the hole. The index blocks can be orientated to indicate casing collars while going in the hole or coming out.

To Orientate MCCL: Position sharp back angle of the index block toward the direction you require indication from.

FEATURES:

- Solid or Swivel body design
- Heat treated index blocks provide service longevity
- Index blocks can be configured to indicate casing collars during either running into or pulling out of hole
- High strength construction to withstand side loading in high deviation or horizontal wells



MCCL		CASING		TOOL SIZE	
OD	THREAD	WT (T&C)	SETTING RANGE	OD	ID
MM	MM	KG/M	MM	MM	MM
IN	IN	LBS/FT	IN	IN	IN
114.3 4-1/2	60.3 2-3/8	14.14 - 18.75	100.53 - 103.89	95.25	49.3
		9.5 - 12.6	3.958 - 4.090	3.750	1.94
		20.09 - 22.47	97.18 - 99.57	92.71	49.3
139.7 5-1/2	60.3 2-3/8	13.5 - 15.1	3.826 - 3.920	3.650	1.94
		19.34 - 25.30	124.26 - 128.12	111.13	50.8
		13.0 - 17.0	4.892 - 5.044	4.375	2.00
	73.0 2-7/8	25.3 - 34.23	118.62 - 124.26	111.13	50.8
		17.0 - 23.0	4.670 - 4.892	4.375	2.00
		19.34 - 25.30	124.26 - 128.12	111.13	63.5
177.8 7	73.0 2-7/8	13.0 - 17.0	4.892 - 5.044	4.375	2.50
		25.3 - 34.23	118.62 - 124.26	111.13	63.5
		17.0 - 23.0	4.670 - 4.892	4.375	2.50
	88.9 3-1/2	25.30 - 38.68	159.41 - 166.07	145.80	63.5
		17.0 - 26.0	6.276 - 6.538	5.740	2.50
		38.68 - 47.61	154.79 - 159.41	145.80	63.5
	88.9 3-1/2	26.0 - 32.0	6.094 - 6.276	5.740	2.50
		25.30 - 38.68	159.41 - 166.07	145.80	76.2
		17.0 - 26.0	6.276 - 6.538	5.740	3.00
	88.9 3-1/2	38.68 - 47.61	154.79 - 159.41	145.80	76.2
		26.0 - 32.0	6.094 - 6.276	5.740	3.00



TUBING CENTRALIZER

The tubing centralizer consists of drag blocks that are mounted on either a swivel body or solid body. The tool provides a reliable means to centralizing the tool string in the well bore. Wherein it reduces the occurrence of eccentric wear, reduce the friction damage of the well wall, as well as ensure normal operation of downhole equipment.

FEATURES:

- Solid or Swivel body design
- Heat treated drag blocks provide service longevity
- High strength construction to withstand side loading in high deviation or horizontal wells



MCCL		CASING		TOOL SIZE	
OD	THREAD	WT (T&C)	SETTING RANGE	OD	ID
MM	MM	KG/M	MM	MM	MM
IN	IN	LBS/FT	IN	IN	IN
114.3 4-1/2	60.3 2-3/8	14.14 - 18.75	100.53 - 103.89	95.25	49.3
		9.5 - 12.6	3.958 - 4.090	3.750	1.94
		20.09 - 22.47	97.18 - 99.57	92.71	49.3
139.7 5-1/2	60.3 2-3/8	19.34 - 25.30	124.26 - 128.12	111.13	50.8
		13.0 - 17.0	4.892 - 5.044	4.375	2.00
		25.3 - 34.23	118.62 - 124.26	111.13	50.8
	73.0 2-7/8	19.34 - 25.30	124.26 - 128.12	111.13	63.5
		13.0 - 17.0	4.892 - 5.044	4.375	2.50
		25.3 - 34.23	118.62 - 124.26	111.13	63.5
177.8 7	73.0 2-7/8	25.30 - 38.68	159.41 - 166.07	145.80	63.5
		17.0 - 26.0	6.276 - 6.538	5.740	2.50
		38.68 - 47.61	154.79 - 159.41	145.80	63.5
	88.9 3-1/2	25.30 - 38.68	159.41 - 166.07	145.80	76.2
		17.0 - 26.0	6.276 - 6.538	5.740	3.00
		38.68 - 47.61	154.79 - 159.41	145.80	76.2
		26.0 - 32.0	6.094 - 6.276	5.740	3.00

