



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

地址: 山东省济南市历下区经十路 12111 号中润世纪中心

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PRODUCT LIST

BRIDGE PLUGS

CEMENT RETAINERS

SETTING TOOLS

PRODUCTION PACKERS

THERMAL PRODUCTION PACKERS

RETRIEVABLE PACKERS

SERVICE PACKERS

SPECIAL TOOLS

FLOW CONTROL EQUIPMENT



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BRIDGE PLUGS

“MWB” WIRELINE SET BRIDGE PLUG

“MMB” BRIDGE PLUG

“WRBP” WIDE RANGE BRIDGE PLUG

**“MWBR” WIRELINE SET BRIDGE PLUG
(RETRIEVABLE)**

“HYDRO-MECH” BRIDGE PLUG

“PRODRILL” COMPOSITE BRIDGE PLUG



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Model MWB Wireline Set Bridge Plug - MWB Top Set

Model MWB Wireline Set Bridge Plugs are compact, small OD and designed for easy drill out. These Bridge Plugs will set securely in all standard harness casing. A ratchet lock ring stores the setting force in the plug. The one piece packing element and metal back up rings combine for a superior seal. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 2 3/4" through 20" casing.

Features:

- Sets securely in all standard hardness casing
- Ratchet lock rings secure dynamic setting force
- One piece packing element and metal back up rings combine for a superior seal
- Compact, easy running
- Can be set directly with Baker wireline setting tools
- Shear studs are Baker style and connect directly to the Baker Adjuster Sub

*Please contact sales to inquire about high temperature applications.



MWB



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SPECIFICATIONS						
Part Number	Casing		Setting Range		Setting Tool	Tool OD
	OD (in.)	Wt T&C (Pounds)	Min ID (in.)	Max ID (in.)		
062-0175-008	2%	4.0-5.8	1.780	2.074	1 1/16" GO	1.75
062-0222-008	2%	6.4-6.5	2.340	2.525	1 1/16" GO	2.22
062-0275-008	3 1/2	5.7-10.3	2.867	3.258	1 1/16" GO	2.75
062-0243-008	3 1/2	12.8-15.8	2.548	2.764	1 1/16" GO	2.43
062-0314-008	4	5.6-14	3.340	3.732	#10	3.14
062-0359-008	4 1/2	9.5-15.1	3.826	4.090	#10	3.59
062-0393-008	5	11.5-20.8	4.154	4.560	#20	3.93
062-0393-007	5	11.5-20.8	4.154	4.560	#10	3.93
062-0431-008	5 1/2	13-23	4.580	5.044	#20	4.31
062-0431-007	5 1/2	13-23	4.580	5.044	#10	4.31
062-0470-008	5 3/4	14-25.2	4.890	5.290	#20	4.70
062-0537-008	6%	17-32	5.595	6.135	#20	5.37
062-0568-008	7	17-35	6.000	6.538	#20	5.68
062-0631-008	7%	20-39	6.625	7.125	#20	6.31
062-0712-008	8%	24-49	7.310	8.097	#20	7.12
062-0812-008	9%	29.3-58.5	8.435	9.063	#20	8.12
062-0943-008	10%	32.7-60.7	9.660	10.192	#20	9.43
062-1043-008	11%	38-60	10.772	11.150	#20	10.43
062-0994-008	11%	60-83	10.192	10.772	#20	9.94
062-1188-008	13%	48-84.5	12.175	12.715	#20	11.88
062-1412-008	16	65-118	14.576	15.250	#20	14.12
062-1837-008	20	94-133	18.730	19.124	#20	18.37



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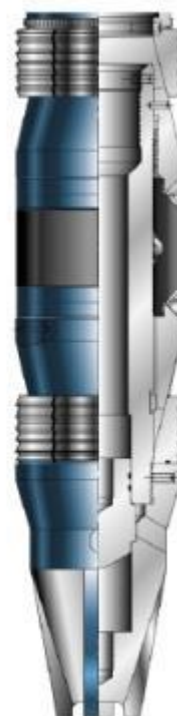
Model MMB Mechanical Bridge Plug

Model MMB Tubing Set Bridge Plugs are used to isolate zones for temporary or permanent abandonment. These drillable Bridge Plugs set securely in all standard hardness casing. A ratchet lock ring stores the setting force in the Bridge Plug. The one piece packing element and metal back up rings combine for a superior seal. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 4½" through 20" casing.

Features:

- Sets securely in most casing
- Ratchet lock rings secure dynamic setting force
- One piece packing element and rocker action metal back up rings combine for a superior seal
- Pressure balanced sleeve valve is opened and closed by tubing manipulation from the surface for better control
- Set with Model MSB Mechanical Setting Tool
- These bridge plugs can be set on standard baker style mechanical setting tools

*Please contact sales to inquire about high temperature applications.





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SPECIFICATIONS					
Part Number	Casing		Setting Range		Tool OD
	OD (in.)	Wt T&C (pounds)	Min ID (in.)	Max ID (in.)	
062-0359-009	4½	9.5-15.1	3.826	4.090	3.59
062-0393-009	5	11.5-20.8	4.156	4.560	3.93
062-0431-009	5½	13-23	4.580	5.044	4.31
062-0470-009	5¾	14-26	4.890	5.290	4.70
062-0537-009	6½	17-32	5.595	6.135	5.37
062-0568-009	7	17-35	6.004	6.538	5.68
062-0631-009	7½	20-39	6.625	7.125	6.31
062-0712-009	8½	24-49	7.511	8.097	7.12
062-0812-009	9½	29.3-58.4	8.435	9.063	8.12
062-0943-009	10¾	32.75-60.7	9.660	10.192	9.43
062-1043-009	11¾	38-60	10.772	11.150	10.43
062-0994-009	11¾	60-83	10.192	10.772	9.94
062-1188-009	13¾	48-80.7	12.175	12.715	11.88
062-1412-009	16	65-118	14.576	15.250	14.12
062-1837-009	20	94-133	18.730	19.124	18.37

“WRBP” WIDE RANGE BRIDGE PLUG



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Model WRBP Wide Range Bridge Plug

Wide Range Wireline Set Bridge Plugs are specially designed to run through tubing or restricted pipe and set securely in larger tubing or casing below. These Bridge Plugs will set securely in any hardness casing. A ratchet lock ring stores the setting force in the Plug. The three piece packing element and metal back up rings combine for a superior seal. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 1.610" through 5.044" setting range.

Features:

- Sets securely in any hardness casing, including premium grades
- Ratchet lock rings secure dynamic setting force
- Three piece packing element and rocker action metal back up rings combine for a superior seal
- Compact, easy running
- Can be set either with GO, Baker or Gearhart wireline setting tools
- 5.8" sucker rod thread on the bottom shoes to accommodate a centralizer and other tools



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SPECIFICATIONS			
Part Number	Setting Range		Tool OD
	Min ID (in.)	Max ID (in.)	
060-0146-403	1.610	1.995	1.468
060-0175-403	1.905	2.441	1.750
060-0190-403	2.156	2.765	1.906
060-0218-403	2.375	3.000	2.187
060-0228-403	2.441	3.343	2.281
060-0250-403	2.875	3.500	2.500
060-0275-403	3.187	3.920	2.750
060-0325-403	3.920	4.276	3.250
060-0350-403	3.696	4.276	3.500

**“MWBR” WIRELINE SET BRIDGE PLUG
(RETRIEVABLE)**



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MWBR



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Model MWBR Wireline Set Bridge Plug (Retrievable)

Model "MWBR" Wireline Set Retrievable Bridge Plug is a medium performance retrievable bridge plug that is run and set by a wireline pressure setting tool and retrieved by either tubing or sandline. The plug is used for zone isolation, formation fracturing, acidizing, and wellhead repair and can be lubricated in and out of the well under pressure, thereby eliminating snubbing tubing or killing the well. The plug features a balanced equalizing valve located immediately above the three piece multi-hardness packing element system. Caged, bi-directional, one piece slips are located below the packing and firmly anchor the plug against pressure differentials from above or below. The plug is retrieved by ratcheting onto the retrieving neck, picking up four inches to equalize, setting down to uplock, then picking up to remove from well. No rotation is required to retrieve.

Features:

- Compact, fast running, electric wireline set
- Tubing or sandline retrieved - No rotation required
- Balanced equalizing valve opens upwardly which reduces possibility of accidental opening
- Equalizes close to top of packing elements tubing manipulation from the surface for better control
- Field proven design



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Max OD of Bridge Plug (in.)	Release Ring Strength (pounds)	Tubing Retrieving Tool
	OD (in.)	Weight T&CT (pounds)	Min (in.)	Max (in.)			
054-5690-050	4½	9.5-15.1	3.92	4.09	3.771	30,000	054-5690-081
054-5690-051	5	15-18	4.276	4.408	4.125		054-5690-080
054-5691-050	5½	20-23	4.67	4.778	4.5		054-5691-080
054-5691-048		15.5-20	4.778	4.95	4.641		
054-5691-049		13-15.5	4.95	5.044	4.781		
054-5692-049	6%	24-32	5.675	5.921	5.5	55,000	054-5692-090
054-5692-050	7	32-35	6.004	6.094	5.812		
054-5692-051		26-29	6.184	6.276	5.968		
054-5692-052		23-26	6.276	6.366	6.078		
054-5692-053		17-20	6.456	6.538	6.266		
054-5693-050	7½	33.7-39	6.625	6.765	6.453		
054-5693-051		24-29.7	6.875	7.025	6.672		
054-5694-050	8%	32-40	7.725	7.921	7.531		054-5694-080
054-5695-050	9%	40-47	8.681	8.835	8.437		054-5695-080
054-5695-051		47-53.5	8.535	8.681	8.218		

“HYDRO-MECH” BRIDGE PLUG



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Hydro-Mechanical Bridge Plugs - HYDRO-MECH

MAP Hydro-Mech Bridge Plug is a hydraulically actuated, mechanically set bridge plug that is designed for easy drillout. It can be used in zonal isolation for squeeze cementing, fracturing, and plug and abandonment applications.

Features:

- The setting mechanism and controls are self-contained eliminating the need for a complex mechanical setting tool
- Eliminates the expense of wireline setting tool and equipment.
- Full tubing bore is available for unobstructed passage of fluids and wireline deployed perforating and logging equipment after the plug is set and tubing released.
- Can be run and set in tandem with retrievable production packers or squeeze packers
- Top equalizing during drill-out assures safe drill-out without the plug coming up the hole due to pressures contained below the plug
- Sets securely in all standard hardness casing

SPECIFICATIONS					
Part Number	Casing		Setting Range		Tool OD
	OD (in.)	Wt (pounds)	Min ID	Max ID	
062-0359-303	4½	9.5-15.1	3.826	4.090	3.59
062-0393-303	5	11.5-20.8	4.154	4.560	3.93
062-0431-303	5½	13-23	4.580	5.044	4.31
062-0537-303	6¾	17-32	5.595	6.135	5.37
062-0568-303	7	23-35	6.000	6.366	5.68
062-0600-303		17-23	6.366	6.358	6.00
062-0631-303	7¾	20-39	6.625	7.125	6.31
062-0812-303	9¾	29.3-58.4	8.435	9.063	8.12
062-1188-303	13¾	48-80.7	12.175	12.715	11.88
062-1837-303	20	94-133	18.730	19.124	18.37



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CEMENT RETAINERS

“MWR” CEMENT RETAINER



MWR



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Model MWR Cement Retainer

Model MWR Wireline Set Sleeve Valve Cement Retainers are used for secondary cementing operations. These drillable retainers set securely in all standard hardness casing. A ratchet lock ring stores the setting force in the retainer. The one piece packing element and metal back up rings combine for a superior seal. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 4½" through 20" casing.

Features:

- Sets securely in any hardness casing
- Ratchet lock rings secure dynamic setting force
- One piece packing element and rocker action metal back up rings combine for a superior seal
- Can be set directly with Baker wireline setting tools
- Shear studs are Baker style and connect directly to the Baker Adjuster Sub
- Can be converted to MMR Mechanical Set Cement Retainer
- Can be converted to Bridge Plugs

*Please contact sales to inquire about high temperature applications.



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SPECIFICATIONS					
Part Number	Casing		Setting Range		Tool OD
	OD	Wt	Min ID	Max ID	
062-0359-001	4½	9.5-15.1	3.826	4.090	3.59
062-0393-001	5	11.5-20.8	4.156	4.560	3.93
062-0431-001	5½	13.0-23.0	4.580	5.044	4.31
062-0470-001	5¾	14.0-26.0	4.890	5.290	4.7
062-0537-001	6⅝	17.0-32.0	5.595	6.135	5.37
062-0568-001	7	17.0-35.0	6.004	6.538	5.68
062-0631-001	7⅝	20.0-39.0	6.625	7.125	6.31
062-0712-001	8⅝	24.0-49.0	7.511	8.097	7.12
062-0812-001	9⅝	29.3-58.4	8.435	9.063	8.12
062-0943-001	10¾	32.75-60.7	9.660	10.192	9.43
062-1043-001	11¾	38.0-60.0	10.772	11.150	10.43
062-0994-001	11¾	60.0-83.0	10.192	10.772	9.94
062-1188-001	13⅝	48.0-80.7	12.175	12.715	11.88
062-1412-001	16	65.0-118.0	14.576	15.250	14.12
062-1837-001	20	94.0-133.0	18.730	19.124	18.37

“MMR” CEMENT RETAINER



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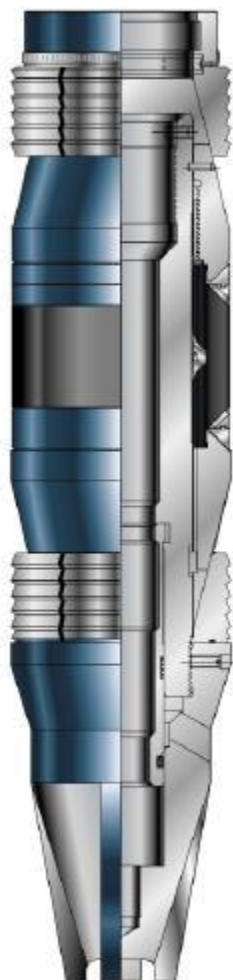
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Model MMR Cement Retainer

The Model MMR Tubing Set Sleeve Valve Cement Retainers are used for secondary cementing operations. These drillable retainers set securely in any hardness casing. The case hardened, one piece slips virtually eliminate premature setting, yet can be easily drilled out. They are available for 4½" through 20" casing.

Features:

- Sets securely in any hardness casing
- Ratchet lock rings secure dynamic setting force
- One piece packing element and metal back up rings combine for a superior seal
- Pressure balanced sleeve valve is opened and closed by tubing manipulation from the surface for better control
- Set with Model MSR Mechanical Setting Tool
- Can be converted to MWR Wireline Set Cement Retainer
- Can be converted to MMB Bridge plug

*Please contact sales to inquire about high temperature applications.



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SPECIFICATIONS					
Part Number	Casing		Setting Range		Tool OD
	OD (in)	Wt T&C (pounds)	Min ID	Max ID	
062-0359-002	4½	9.5-15.1	3.826	4.090	3.59
062-0393-002	5	11.5-20.8	4.156	4.560	3.93
062-0431-002	5½	13.0-23.0	4.580	5.044	4.31
062-0470-002	5¾	14.0-26.0	4.890	5.290	4.70
062-0537-002	6⅝	17.0-32.0	5.595	6.135	5.37
062-0568-002	7	17.0-35.0	6.004	6.538	5.68
062-0631-002	7⅝	20.0-39.0	6.625	7.125	6.31
062-0712-002	8⅝	24.0-49.0	7.511	8.097	7.12
062-0812-002	9⅝	29.3-58.4	8.435	9.063	8.12
062-0943-002	10¾	32.75-60.7	9.660	10.192	9.43
062-1043-002	11¾	38.0-60.0	10.772	11.150	10.43
062-0994-002	11¾	60.0-83.0	10.192	10.772	9.94
062-1188-002	13⅝	48.0-80.7	12.175	12.715	11.88
062-1412-002	16	65.0-118.0	14.576	15.250	14.12
062-1837-002	20	94.0-133.0	18.730	19.124	18.37

“MSS” STINGER SEAL ASSEMBLY



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

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Model MSS Stinger Seal Assembly

The MSS Stinger Seal Assembly is a tubing conveyed latching seal assembly that is used to operate the sleeve valve in an MWR Cement Retainer previously set on wireline. The MSS should always be run in conjunction with a MTC Tubing Centralizer to provide for easier entry in to the Cement retainer.

Features:

- Provide positive control when the work string is picked up to close the sleeve valve
- Re-engages each time the work string is lowered to open sleeve valve
- Helps prevent seal from pumping out during pumping operations or tubing testing
- One size operates several sizes of retainers
- Rotate or Snap-out release
- Can Run with Baker Cement Retainers

SPECIFICATIONS		
Part Number	Casing OD (in.)	Threads Box Up Pin Down
062-0359-010	4½ - 5¾	2¾ OD EU 8RD
062-0568-010	6½ - 20	2¾ OD EU 8RD

“MTC” TUBING CENTRALIZER



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Model MTC Tubing Centralizer

Model MTC Tubing Centralizer is used to center the tubing and provide for easier entry into an MWR Cement Retainer previously set by wireline.

Features:

- Provides positive control and allows one size
- Tubing centralizer covers a large range of casing weights
- Most parts are interchangeable with the MSR Mechanical Setting Tool
- Allows tubing torque to be transmitted to tools below
- Can run with Baker Cement Retainers



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SPECIFICATIONS			
Part Number	Casing		Threads Box Up Pin Down
	OD (in.)	Wt T&C (pounds)	
062-0359-011	4½	9.5-15.1	2¾ OD EU 8RD
	5	11.5-20.8	
	5½	23.0	
062-0431-011	5½	13.0-23.0	2¾ OD EU 8RD
	5¾	14.0-26.0	
062-0537-011	6⅝	17.0-32.0	2⅞ OD EU 8RD
062-0568-011	7	17.0-35.0	
062-0631-011	7⅝	20.0-39.0	
062-0712-011	8⅝	24.0-49.0	
062-0812-011	9⅝	29.3-58.4	
062-0943-011	10¾	32.75-60.7	
062-1043-011	11¾	38.0-60.0	
062-0994-011	11¾	60.0-83.0	
062-1188-011	13⅝	48.0-80.7	
062-1412-011	16	65.0-118.0	
062-1837-011	20	94.0-133.0	

**CEMENT RETAINER ACCESSORIES -
CONVERSION KITS**



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Our M series CR products can be easily converted to perform as a Slide Valve Cement Retainer, or a Bridge Plug. In addition, all sizes may be converted for electric line setting or mechanical setting by selection of proper upper slip and the appropriate running tools.

Slide Valve Cement Retainer

The Slide Valve Cement Retainer utilizes a slide valve which is pressure balanced in the closed position to reliably contain high fluid pressures, and opens at high pressure differential. Please refer to MWR and MMR for detailed information about Slide Valve Cement Retainers.

Bridge Plugs

A simple inexpensive "bridging plug" is now available in three sizes to convert Slide Valve Cement Retainers (both wireline set and tubing set) to Bridge Plugs. The Bridge Plug is held trapped between shoulders in the retainer body and valve shoe.

SPECIFICATIONS	
Part Number	Tool Size (in.)
062-0359-191	4½ & 5¼
062-0431-191	5 & 5½
062-0568-091	6½ - 20

**SETTING
TOOLS**



山东赛高石化设备有限公司

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HYDRAULIC SETTING TOOL

“MSB” MECHANICAL SETTING TOOL

“MSR” MECHANICAL SETTING TOOL

HYDRAULIC SETTING TOOL



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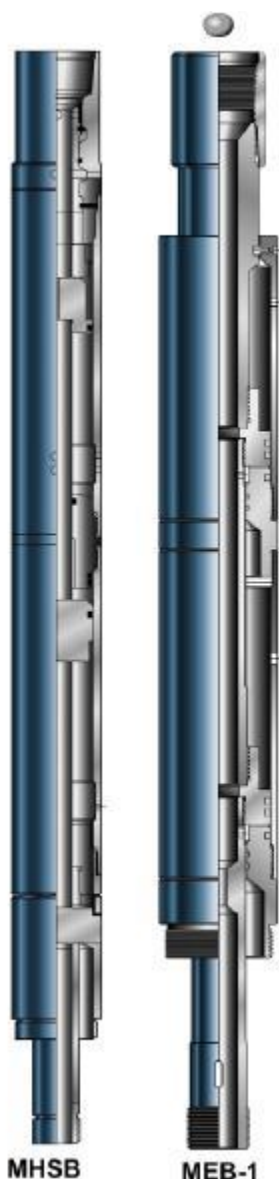
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Hydraulic Setting Tools

The MAP Model MHSB Hydraulic Setting Tools are used to run and set packers, bridge plugs and cement retainers on a work string, production tubing or coil tubing. After dropping a ball, the setting tool translates hydraulic pressure applied to the tubing to a force transmitted throughout the adapter kit to the slips and pack off the sealing element of these tools. It allows setting in or deviated wells where it is often difficult to use electric wireline equipment. While running in the hole, the setting tool automatically fills with well bore fluid and remains balanced to prevent premature setting. After setting the packer, bridge plug or cement retainer, the coil tubing or tubing string and the setting tool can then be retrieved, while allowing the well bore fluids in the tubing to discharge through bypass ports in the tool.

Features:

- Simple proven operation
- Uses the same adapters for running as are used with a Baker 10# or 20# setting tool
- Automatically fills and drains
- Hydraulically balanced while running in the hole to prevent premature setting
 - Can withstand high tensile loads
 - Two-stage cylinders are standard
 - No rotation required



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SPECIFICATIONS						
Model PN	OD (in.)	Casing OD (in.)	Suitable to Tools	Pump Pressure Setting	Max Pull (lbs)	Threads Box Up Pin Down
MHSB-10 066-0010-001	3.5	4"-4½"	Bridge Plug Cement Retainer Permanent Packer	6,000 (psi) 65,000 (lbs)	70,000	2¾" - 8RD EUE
MHSB-20 066-0020-003	3.875	≥5	Bridge Plug Cement Retainer Permanent Packer	6,000 (psi) 75,000 (lbs)	78,000	2¾" - 8RD EUE
MHSG 066-0020-002	3.875	≥5	Bridge Plug Cement Retainer Permanent Packer	6,000 (psi) 75,000 (lbs)	78,000	2¾" - 8RD EUE
MEB-1 066-0030-001	3.875	5"-5½"	Bridge Plug Cement Retainer Permanent Packer	5,000 (psi) 70,000 (lbs)	70,000	2¾" - 8RD EUE
MEB-2 066-030-004	4	≥7	Bridge Plug Cement Retainer Permanent Packer	3,750 (psi) 70,000 (lbs)	78,000	2¾" - 8RD EUE
MEB-2 066-030-006	5.5	≥5	Casing Patch	3,000 (psi) 78,000 (lbs)	78,000	2¾" - 8RD EUE

“MSB” MECHANICAL SETTING TOOL



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MSB



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Model MSB Mechanical Setting Tool

Model MSB Mechanical Setting Tools are used to mechanically set MMB Bridge Plugs. It is designed to contain the upper slips of Bridge Plug in a safe retracted position while running to setting depth. The upper slips are released by right hand rotation and slacking off on the work string.

Features:

- Special designed Bow Spring provide positive control and allows one size Mechanical Setting Tools to cover a large range of casing weight
- Locked with Bridge Plug
- The Upper slips are held in a safe retracted position while running
- Can quickly be configured to set MMR Cement Retainers
- These tools can be used to run a number of Competitive brand Baker style bridge plugs



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SPECIFICATIONS			
Part Number	Casing		Tool OD (in.)
	OD (in.)	Wt T&C (pounds)	
062-0359-004	4½ 5	9.5-15.1 11.5-20.8	3.59
062-0431-004	5½	13.0-23.0	4.31
062-0470-004	5¾	14.0-26.0	4.70
062-0537-004	6¾	17.0-32.0	5.37
062-0568-004	7	17.0-35.0	5.68
062-0631-004	7¾	20.0-39.0	6.31
062-0712-004	8¾	24.0-49.0	7.12
062-0812-004	9¾	29.3-58.4	8.12
062-0943-004	10¾	32.75-60.7	9.43
062-1043-004	11¾	38.0-60.0	10.43
062-0994-004	11¾	60.0-83.0	9.94
062-1188-004	13¾	48.0-80.7	11.88
062-1412-004	16	65.0-118.0	14.12
062-1837-004	20	94.0-133.0	18.37

“MSR” MECHANICAL SETTING TOOL



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MSR



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Model MSR Mechanical Setting Tool

Model MSR Mechanical Setting Tools are used to mechanically set MMR Sleeve Valve Cement Retainers. This tool incorporates both a stinger seal assembly and mechanical setting function. In addition, it has a built in snap latch, allowing the tool to be latched into the cement retainer with set down weight and released with either up strain or right-hand rotation. The sleeve valve on the cement retainer is in the open position while being run in the well. When the setting procedure is completed, the sleeve valve may be closed by picking up two inches at the tools or opened by slacking off two inches. The snap latch feature allows the sleeve valve to be shifted open or closed while the tubing is still anchored to the retainer. Another feature of the tool provides for running the sleeve valve either open or closed. Normally the valve is run open so the tubing may fill. However, for pressure testing the tubing, while running, the valve can be run closed. Cement Retainers can be set and pressure tested in a single trip.

Features:

- Special designed Bow Spring provide positive control and allows one size Mechanical Setting Tools to cover a large range of casing weight
- The upper slips are held in a safe retracted position while running
- Allows users to set, pressure test tubing, and squeeze in a single trip
- Can quickly be configured to set MMR Cement Retainers or MMB Bridge Plugs
- These tools can run standard Baker style plugs or retainers



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SPECIFICATIONS			
Part Number	Casing		Tool OD (in.)
	OD (in.)	Wt T&C (pounds)	
062-0359-005	4½ 5	9.5-15.1 11.5-20.8	3.59
062-0431-005	5½	13.0-23.0	4.31
062-0470-005	5¾	14.0-26.0	4.70
062-0537-005	6⅝	17.0-32.0	5.37
062-0568-005	7	17.0-35.0	5.68
062-0631-005	7⅝	20.0-39.0	6.31
062-0712-005	8⅝	24.0-49.0	7.12
062-0812-005	9⅝	29.3-58.4	8.12
062-0943-005	10¾	32.75-60.7	9.43
062-1043-005	11¾	38.0-60.0	10.43
062-0994-005	11¾	60.0-83.0	9.94
062-1188-005	13⅜	48.0-80.7	11.88
062-1412-005	16	65.0-118.0	14.12
062-1837-005	20	94.0-133.0	18.37

**PRODUCTION
PACKERS**

REPEATA-B RETRIEVABLE PRODUCTION PACKER

REPEATA-C RETRIEVABLE PRODUCTION PACKER



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REPEATA-B RETRIEVABLE PRODUCTION PACKER

REPEATA-B Retrieable Production Packer

Model Repeata-B Retrieable Production Packers are used for production, injection, testing, fracturing, squeeze cementing, gravel packing and as temporary bridge plugs. These wireline set packers are retrievable with tubing, sandline, electric wireline or coil tubing and require no rotation to release or set. The bi-directional one-piece slips hold high pressure differentials from either direction. Repeata-B packers use conventional permanent packer seal nipples and accessories. They are available for 3½" through 9½".

Features:

- Sets securely in all standard hardness casing
- No rotation required to set or release
- Three piece packing element system
- Uses conventional drillable packer seal nipples and accessories
- Threaded pin down connection for easy installation of accessories, such as Screw-Out or Nok-Out Plug kits
- Can be set with GO, Baker or Gearhart Wireline Setting Tools



REPEATA-B



RWRT-1



RTRT-1



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SPECIFICATIONS									
Part Number	Casing		Setting Range		Packer				
	OD (in.)	Weight T & C (pounds)	Min ID (in.)	Max ID (in.)	Max OD (in.)	Seal Bore (in.)	Setting Strength (pounds)	Max Slip Travel (in.)	
051-5888-002	3½	9.2-10.2	2.922	3.031	2.750	2.000	13,000	3.093	
051-5880-002	4½	9.5-13.5	3.920	4.090	3.771	1.968	29,000	4.155	
051-5883-161		9.5-11.6	4.000		3.812	2.390		4.150	
051-5883-162	5	15.0-18.0	4.276	4.408	4.062			4.562	
051-5884-162	5½	20.0-23.0	4.670	4.778	4.500	2.687	35,000	4.968	
051-5884-161		13.0-17.0	4.892	5.044	4.656			5.187	
051-5882-163	6%	24.0-32.0	5.675	5.921	5.500	3.250	48,000	6.000	
	7	38.0							
051-5882-162	6%	17.0-20.0	6.004	6.184	5.812			6.357	
		29.0-35.0							
051-5882-161	7	20.0-29.0	6.184	6.456	5.875			6.492	
051-5886-162	7%	17.0-20.0	6.456	6.765	6.187			6.948	
		33.7-39.0							
051-5886-161		29.0-29.7	6.875	7.125	6.652			7.198	
051-5885-163	8%	36.0-49.0	7.511	7.825	7.250	4.000	55,000	8.210	
051-5885-161		24.0-36.0	7.825	8.097	7.562				
051-5887-167	9%	43.5-53.5	8.535	8.755	8.187				
051-5887-165		29.3-43.5	8.755	9.063	8.437	4.750		9.134	
051-5887-163		43.5-53.5	8.535	8.755	8.187				
051-5887-161		29.3-43.5	8.755	9.063	8.437				

**REPEATA-C RETRIEVABLE
PRODUCTION PACKER**



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REPEAT-A-C Retrievable Production Packer

Model Repeat-A-C Retrievable Production Packers feature heavy duty slips that have 25% more contact area with the casing to prevent casing damage and a built in hydraulic cylinder to assure pack off under extreme pressures. Packers are used for production, injection, testing, fracturing, squeeze cementing, gravel packing and are particularly suited as temporary bridge plugs. These electric wireline set packers are retrievable with tubing, sand line, electric wireline or coil tubing. The bi-directional one-piece slips hold high pressure differentials from either direction. Repeat-A-C packers use conventional permanent packer seal nipples and accessories. They are available for 3½" through 9⅝".

Features:

- 25% larger slip area than Repeat-A-B
- Features a built-in Hydraulic Cylinder that intensifies tubing pressure to assure that the tool stays packed under extreme pressure from below
- No rotation required to set or release
- Proven three piece packing element system available in multiple configurations for different applications
- Uses conventional drillable packer seal nipples and accessories
- Threaded pin down connection for easy installation of accessories, such as Screw-Out or Nok-Out Plug kits
- Can be set with GO, Baker or Gearhart Wireline Setting Tools



REPEAT-A-C



RWRT-1



RTRT-1



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

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SPECIFICATIONS					
Part Number	Casing		Setting Range	Tool OD	Seal Bore
	OD (in.)	Wt (pounds)	Min ID (in.)		
051-5888-202	3½	9.2-10.2	2.922	2.750	2.000
051-5880-202	4½	9.5-13.5	3.920	3.771	1.968
051-5883-201	4½	9.5-11.6	4.000	3.812	2.390
051-5883-204	5	15.0-18.0	4.276	4.062	2.687
051-5884-205	5½	20.0-23.0	4.670	4.500	3.250
051-5884-206	5½	13.0-17.0	4.892	4.656	
051-5882-204	6½	24.0-32.0 38.0	5.675	5.500	
051-5882-202	6½	17.0-20.0 29.0-35.0	6.004	5.812	
051-5882-201	7	20.0-29.0	6.184	5.874	
051-5886-204	7½	17.0-20.0 33.7-39.0	6.456	6.187	
051-5886-201	7½	20.0-29.7	6.875	6.652	
051-5885-204	8½	36.0-49.0	7.511	7.250	4.000
051-5885-201	8½	24.0-36.0	7.825	7.562	
051-5887-208	9½	43.5-53.5	8.535	8.187	
051-5887-207	9½	29.3-43.5	8.755	8.437	
051-5887-204	9½	43.5-53.5	8.535	8.187	4.750
051-5887-201	9½	29.3-43.5	8.755	8.437	

THERMAL PRODUCTION PACKERS

“DGL-SI” THERMAL PRODUCTION PACKER

“REPEATA-BSI” THERMAL PRODUCTION PACKER

“DGL-SI” THERMAL
PRODUCTION PACKER



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Model DGL-SI Thermal Production Packer

Model DGL-SI Thermal Production Packers are used on installations requiring premium production equipment for high temperatures and pressures. These wireline set millable packers are available for 2 1/8" through 11 3/4" casing.

Features:

- Sets securely in all standard hardness casing
- Anchor Latch, J-Latch, Snap Latch and locator systems available
- With EPDM Steam Service Trim, temperature rated up to 600 degrees F and pressures up to 1,800 PSI
- With specialized non-steam service trim, temperature ratings up to 450 degrees F and pressures up to 10,000 psi
- Composite proven soft set packing element system
- Ratchet lock rings secure dynamic setting force
- Three piece packing element and rocker action metal back up rings combine for a superior seal
- Threaded pin down connection for easy installation of accessories, such as Screw-Out or Nok-Out Plug kits



DGL-SI

SPECIFICATIONS						
Part Number	Casing		Setting Range		Tool OD	Seal Bore
	OD (in.)	Wt (in.)	Min ID (in.)	Max ID (in.)		
051-5811-600	6 5/8 7	17.0-20.0 23.0-35.0	6.004	6.366	5.687	3.250

**“REPEATABLE” THERMAL
PRODUCTION PACKER**



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Model Repeata-BSI Thermal Production Packer

Model Repeata-BSI Thermal Retrievable Production Packers are used for steam injection, testing, high rate and high temperature gravel packing and well screen applications, as well as temporary bridge plugs. These wireline set packers are retrievable with tubing, sandline, electric wireline or coil tubing and require no rotation to release or set. The bi-directional one-piece slips hold high pressure differentials from either direction. Repeata-BSI packers use conventional permanent packer seal nipples and accessories. They are available for 3½" through 9½".

Features:

- Sets securely in all standard hardness casing
- Anchor Latch, J-Latch, Snap Latch and locator systems available
- With EPDM Steam Service Trim, temperature rated up to 600 degrees F and pressures up to 1,800 PSI
- With specialized non-steam service trim, temperature ratings up to 450 degrees F and pressures up to 10,000 psi
- No rotation required
- Composite proven retrievable soft set packing element system
- Uses Composite Drillable Packer seal nipples and accessories
- Threaded pin down connection for easy installation of accessories, such as Screw-Out or Nok-Out Plug kits
- The new 7" x 4" ID Top Set Repeata BSI packer is ideal for High Tate G ravel pack applications with counter pressure
- Counter acting position and larger slips
- Highly reliable and very popular top retrieving system as in all Repeata packers
- Can be set using most common wireline pressure setting assemblies available from many service companies in conjunction with proper setting adapter kit
- Can also be set with our crossover and hydraulic setting tool or with your own style of crossover if you prefer

SPECIFICATIONS						
Part Number	Casing		Setting Range		Tool OD	Seal Bore
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)		
051-5882-600	7	20.0-29.0	6.184	6.456	5.875	3.250



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RETRIEVABLE PACKERS

“MAD-1” TENSION PACKER

“MG-1” COMPRESSION PACKER

“MR-3D” DOUBLE GRIP RETRIEVABLE PACKER

**“MR-3D” LARGE BORE DOUBLE GRIP RETRIEVABLE
PACKER**

“MR-3S” SINGLE GRIP RETRIEVABLE PACKER

**“MAPSET” MECHANICAL SET RETRIEVABLE
PRODUCTION PACKER**



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**“MAPSET-HP” MECHANICAL SET RETRIEVABLE
PRODUCTION PACKER**

“LOCK-SET” RETRIEVABLE CASING PACKER

“MFH” RETRIEVABLE HYDROSTATIC PACKER

“MFHL” RETRIEVABLE HYDRAULIC PACKER

“PHP-2-SR” HYDRAULIC SETTING PACKER

“MAD-1” TENSION PACKER



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MAD-1



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Model MAD-1 Tension Packer

Model MAD-1 Tension Packer is a retrievable, tension set packer, designed to hold pressure from below. This economical tension packer is for shallow wells where sufficient set-down weight is not available. This packer is primarily used in water flood, oil production or treating applications. They are available for 4" through 9 $\frac{5}{8}$ " casing. Model MADL-1 Tension Packer is a large-bore version of the Model MAD-L.

Features:

- Short compact design enables easy running procedures, as well as transport
- Bore through the packer is larger than the drift
- Easy to operate J-Slot control
- Rocker type slips
- Proven one piece packing element
- Multiple release methods
- Parts are interchangeable with other manufacturers

“MAD-1” TENSION PACKER



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SPECIFICATIONS								
Part Number	Casing		Setting Range		Size	Tool ID	Tool OD	Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)				
080-0141-100	4	9.5-11.6	3.428	3.548	41A	1.937	3.188	2 3/4 OD EU 8 Rd
080-0141-200	4 1/2	12.6-15.1	3.754	3.826	41B		3.609	
080-0143-100	4 1/2	9.5-13.5	3.91	4.09	43A		3.771	
080-0143-200	5	15-18	4.25	4.408	43B		4.125	
080-0143-300	5 5 1/2	11.5-15 26	4.408	4.56	43C		4.25	
080-0145-120	5 1/2	20-23	4.625	4.778	45A2	1.978	4.5	
080-0145-140	5 1/2	15.5-20	4.778	4.95	45A4		4.641	
080-0145-200	5 1/2 5 3/4 6	13-15.5 22.5 26	4.95	5.19	45B		4.781	
080-0145-300	6	20-23	5.191	5.39	45C		5.062	
080-0145-400	6	15-18	5.391	5.56	45D		5.156	
080-0145-540	6 3/4	28-32	5.61	5.791	45E4		5.484	
080-0147-120	6 3/4 7	24 38	5.83	5.937	47A2	2.416	5.656	2 3/4 OD EU 8 Rd
080-0147-140	6 3/4 7	17-20 32-35	5.938	6.135	47A4		5.812	
080-0147-220	7	26-29	6.136	6.276	47B2		5.968	
080-0147-240	7	20-26	6.276	6.456	47B4		6.078	
080-0147-320	7	17-20	6.456	6.578	47C2		6.266	
080-0147-340	7 3/4	33.7-39	6.579	6.797	47C4		6.453	
080-0147-420	7 3/4	24-29.7	6.798	7.025	47D2		6.672	
080-0147-440	7 3/4	20-24	7.025	7.125	47D4		6.812	
080-0149-120	8 3/4	40-49	7.511	7.725	49A2	3	7.312	3 1/2 OD EU 8 Rd
080-0149-140	8 3/4	32-40	7.725	7.921	49A4		7.531	
080-0149-200	8 3/4	20-28	7.922	8.191	49B		7.781	
080-0151-120	9 3/4	47-53.5	8.3	8.681	51A2	4	8.218	4 1/2 OD 8 Rd
080-0151-140	9 3/4	40-47	8.681	8.835	51A4		8.437	
080-0151-200	9 3/4	29.3-36	8.836	9.063	51B		8.593	

**“MG-1” RETRIEVABLE
COMPRESSION PACKER**



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MG-1 Retrievable Compression Packer, G-Type

The Model MG-1 Retrievable Compression Packer is a compact, economical set-down packer that can be used by itself for production applications or, with a companion unloader and hold-down, it can be used for well stimulation, testing and other pressuring operations and then left in the well as a production packer.

Features:

- Short compact design enables running procedures, as well as transport
- Permits passage of recording instruments
- Alternate packing element systems
- Simple construction
- Ease of operation
- Alternate body with larger I.D.

**“MG-1” RETRIEVABLE
COMPRESSION PACKER**



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	WT (pounds)	Min ID (in.)	Max ID (in.)	OD	ID	
080-0243-100	4½	9.5-15.1	3.91	4.09	3.771	1.885	2½" EU 8RD
080-0243-200	5	15.0-18.0	4.25	4.408	4.125	1.885	
080-0243-300	5 5½	11.5-15.0 26	4.408	4.56	4.25	1.885	
080-0245-120	5½	20.0-23.0	4.625	4.778	4.5	1.978	
080-0245-140	5½	15.5-20.0	4.778	4.95	4.641	1.978	
080-0245-200	5½ 5¾ 6	13.0-15.5 22.5 26	4.95	5.19	4.781	1.978	
080-0245-300	6	20.0-23.0	5.191	5.39	5.062	1.978	
080-0245-400	6	15.0-18.0	5.391	5.56	5.156	1.978	
080-0245-520	6¾	34	5.561	5.595	5.406	1.978	
080-0245-540	6¾	28.0-32.0	5.596	5.791	5.484	1.978	
080-0247-620	6¾ 7	17.0-20.0 26.0-29.0	6.049	6.276	5.812	3	3½" EU 8RD
080-0247-640	7	20.0-26.0	6.276	6.456	6.078	3	
080-0246-120	6¾	28.0-32.0	5.6	5.791	5.475	2.416	2½" EU 8RD
080-0246-140	6¾ 7	24.0-28.0 38	5.792	5.921	5.588	2.416	
080-0246-200	6¾ 7	17.0-20.0 32.0-35.0	5.922	6.135	5.781	2.416	
080-0247-120	6¾ 7	24 38	5.83	5.921	5.656	2.416	
080-0247-140	6¾ 7	17.0-20.0 32.0-35.0	5.922	6.135	5.812	2.416	
080-0247-220	7	26.0-29.0	6.136	6.276	5.968	2.416	
080-0247-240	7	20.0-26.0	6.276	6.456	6.078	2.416	
080-0247-320	7	17.0-20.0	6.456	6.538	6.266	2.416	
080-0247-340	7¾	33.7-39.0	6.539	6.765	6.453	2.416	
080-0247-420	7¾	24.0-29.7	6.766	7.025	6.672	2.416	
080-0247-440	7¾	20.0-24.0	7.025	7.125	6.812	2.416	3½" EU 8RD
080-0249-120	8¾	40.0-49.0	7.511	7.725	7.312	3	
080-0249-140	8¾	32.0-40.0	7.725	7.921	7.531	3	
080-0249-200	8¾	20.0-28.0	7.922	8.191	7.781	3	4½" 8RD Long Casing
080-0251-120	9¾	47.0-53.5	8.3	8.681	8.218	4	
080-0251-140	9¾	40.0-47.0	8.681	8.835	8.437	4	
080-0251-200	9¾	29.3-36.0	8.836	9.063	8.593	4	
080-0253-100	10¾	32.7-55.5	9.625	10.192	9.5	4	
080-0253-200	11¾	38.0-60.0	10.605	11.2	10.5	4	
080-0255-100	12¾	43.0-53.0	11.75	12.3	11.625	4	
080-0255-200	13¾	48.0-72.0	12.3	12.715	12	4	



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)	OD	ID	
080-0243-100	4½	9.5-15.1	3.91	4.09	3.771	1.885	2½"EU 8RD
080-0243-200	5	15.0-18.0	4.25	4.408	4.125	1.885	
080-0243-300	5 5½	11.5-15.0 26	4.408	4.56	4.25	1.885	
080-0245-120	5½	20.0-23.0	4.625	4.778	4.5	1.978	
080-0245-140	5½	15.5-20.0	4.778	4.95	4.641	1.978	
080-0245-200	5½ 5¾ 6	13.0-15.5 22.5 26	4.95	5.19	4.781	1.978	
080-0245-300	6	20.0-23.0	5.191	5.39	5.062	1.978	
080-0245-400	6	15.0-18.0	5.391	5.56	5.156	1.978	
080-0245-520	6½	34	5.561	5.595	5.406	1.978	
080-0245-540	6½	28.0-32.0	5.596	5.791	5.484	1.978	
080-0247-620	6½ 7	17.0-20.0 26.0-29.0	6.049	6.276	5.812	3	3½" EU 8RD
080-0247-640	7	20.0-26.0	6.276	6.456	6.078	3	
080-0246-120	6½	28.0-32.0	5.6	5.791	5.475	2.416	
080-0246-140	6½ 7	24.0-28.0 38	5.792	5.921	5.588	2.416	2½" EU 8RD
080-0246-200	6½ 7	17.0-20.0 32.0-35.0	5.922	6.135	5.781	2.416	
080-0247-120	6½ 7	24 38	5.83	5.921	5.656	2.416	
080-0247-140	6½ 7	17.0-20.0 32.0-35.0	5.922	6.135	5.812	2.416	
080-0247-220	7	26.0-29.0	6.136	6.276	5.968	2.416	
080-0247-240	7	20.0-26.0	6.276	6.456	6.078	2.416	
080-0247-320	7	17.0-20.0	6.456	6.538	6.266	2.416	
080-0247-340	7½	33.7-39.0	6.539	6.765	6.453	2.416	
080-0247-420	7½	24.0-29.7	6.766	7.025	6.672	2.416	
080-0247-440	7½	20.0-24.0	7.025	7.125	6.812	2.416	
080-0249-120	8½	40.0-49.0	7.511	7.725	7.312	3	3½" EU 8RD
080-0249-140	8½	32.0-40.0	7.725	7.921	7.531	3	
080-0249-200	8½	20.0-28.0	7.922	8.191	7.781	3	



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)	OD	ID	
080-0243-100	4½	9.5-15.1	3.91	4.09	3.771	1.885	2½" EU 8RD
080-0243-200	5	15.0-18.0	4.25	4.408	4.125	1.885	
080-0243-300	5 5½	11.5-15.0 26	4.408	4.56	4.25	1.885	
080-0245-120	5½	20.0-23.0	4.625	4.778	4.5	1.978	
080-0245-140	5½	15.5-20.0	4.778	4.95	4.641	1.978	
080-0245-200	5½ 5¾ 6	13.0-15.5 22.5 26	4.95	5.19	4.781	1.978	
080-0245-300	6	20.0-23.0	5.191	5.39	5.062	1.978	
080-0245-400	6	15.0-18.0	5.391	5.56	5.156	1.978	
080-0245-520	6%	34	5.561	5.595	5.406	1.978	
080-0245-540	6%	28.0-32.0	5.596	5.791	5.484	1.978	
080-0247-620	6% 7	17.0-20.0 26.0-29.0	6.049	6.276	5.812	3	3½" EU 8RD
080-0247-640	7	20.0-26.0	6.276	6.456	6.078	3	
080-0246-120	6%	28.0-32.0	5.6	5.791	5.475	2.416	2½" EU 8RD
080-0246-140	6% 7	24.0-28.0 38	5.792	5.921	5.588	2.416	
080-0246-200	6% 7	17.0-20.0 32.0-35.0	5.922	6.135	5.781	2.416	
080-0247-120	6% 7	24 38	5.83	5.921	5.656	2.416	
080-0247-140	6% 7	17.0-20.0 32.0-35.0	5.922	6.135	5.812	2.416	
080-0247-220	7	26.0-29.0	6.136	6.276	5.968	2.416	
080-0247-240	7	20.0-26.0	6.276	6.456	6.078	2.416	
080-0247-320	7	17.0-20.0	6.456	6.538	6.266	2.416	
080-0247-340	7%	33.7-39.0	6.539	6.765	6.453	2.416	
080-0247-420	7%	24.0-29.7	6.766	7.025	6.672	2.416	
080-0247-440	7%	20.0-24.0	7.025	7.125	6.812	2.416	
080-0249-120	8%	40.0-49.0	7.511	7.725	7.312	3	3½" EU 8RD
080-0249-140	8%	32.0-40.0	7.725	7.921	7.531	3	

080-0251-120	9%	47.0-53.5	8.3	8.681	8.218	4	4½" 8RD Long Casing
080-0251-140	9%	40.0-47.0	8.681	8.835	8.437	4	
080-0251-200	9%	29.3-36.0	8.836	9.063	8.593	4	
080-0253-100	10¾	32.7-55.5	9.625	10.192	9.5	4	
080-0253-200	11¾	38.0-60.0	10.605	11.2	10.5	4	
080-0255-100	12¾	43.0-53.0	11.75	12.3	11.625	4	
080-0255-200	13¾	48.0-72.0	12.3	12.715	12	4	



山东赛高石化设备有限公司

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Model MR-3D Double Grip Retrievable Packer, R-3 Type

Model MR-3D Double Grip Retrievable Casing Packers are used in production, stimulation and testing applications. Their hydraulic hold down is below the pressure equalization valve. They feature a proven three element packing system and a balance sleeve device to assist in keeping the by-pass closed. They are available for 4½" through 9⅝" casing.

Features:

- Three piece packing element system
- Hydraulic hold down button unit with large internal flow path located below the bypass valve to reduce element swabbing and button wicker dulling
- Surface controlled combination bypass and equalizing valve
- Tubing pressure actuated collet lock to eliminate excessive set down weight requirements
- Parts are interchangeable with other manufacturers
- Field-proven design Carbide rocker slips available



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“MR-3D” DOUBLE GRIP RETRIEVABLE PACKER

SPECIFICATIONS							
Part Number Double Grip	Casing		Setting Range		Size	Tool OD (in.)	Threads Box Up Pin Down
	OD (in.)	WT T & C (pounds)	Min ID (in.)	Max ID (in.)			
080-1043-101	4½	9.5-13.5	3.910	4.090	43A	3.771	2½ EU 8RD
080-1043-100	4½	9.5-13.5	3.910	4.090	43A	3.771	2½ EU 8RD
080-1043-200	5	15.0-18.0	4.250	4.408	43B	4.125	
080-1043-300	5 5½	11.5-15.0 26.0	4.408	4.560	43C	4.250	
080-1045-120	5½	20.0-23.0	4.625	4.778	45A2	4.500	
080-1045-140	5½	15.5-20.0	4.778	4.950	45A4	4.641	
080-1045-200	5½ 5¾ 6	13.5-15.5 22.5 26.0	4.950	5.190	45B	4.781	
080-1045-300	5½	20.0-23.0	5.191	5.390	45C	5.062	
080-1045-400	5¾	15.0-18.0	5.391	5.560	45D	5.156	
080-1045-520	6	34.0	5.561	5.609	45E2	5.406	
080-1045-540	6	28.0-32.0	5.610	5.791	45E4	5.484	
080-1045-560	6	24.0-28.0	5.791	5.921	45EF	5.484	2½ EU 8RD
080-1046-120	6¾	28.0-32.0	5.600	5.791	46A2	5.475	
080-1046-140	6¾ 7	24.0-28.0 38.0	5.791	5.921	46A4	5.588	
080-1046-200	6¾ 7	17.0-20.0 32.0-35.0	5.922	6.135	46B	5.781	
080-1047-120	6¾ 7	24.0 38.0	5.830	5.937	47A2	6.656	
080-1047-140	6¾ 7	17.0-20.0 32.0-35.0	5.938	6.135	47A4	5.812	
080-1047-220	7	26.0-29.0	6.136	6.276	47B2	5.968	
080-1047-520	7	26.0-29.0	6.136	6.276	47B2	5.968	3½ EU 8RD
080-1047-240	7	20.0-26.0	6.276	6.456	47B4	6.078	2½ EU 8RD
080-1047-320	7	17.0-20.0	6.454	6.578	47C2	6.266	
080-1047-340	7¾	33.7-39.0	6.579	6.797	47C4	6.453	
080-1047-420	7¾	24.0-29.7	6.798	7.025	47D2	6.672	
080-1047-440	7¾	20.0-24.0	7.025	7.125	47D4	6.812	



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080-1049-120	8%	44.0-49.0	7.511	7.687	49A2	7.312	3½ EU 8RD
080-1049-140	8%	32.0-40.0	7.688	7.921	49A4	7.531	
080-1049-200	8%	20.0-28.0	8.017	8.191	49B	7.781	
080-1051-120	9%	47.0-53.5	8.343	8.681	51A2	8.218	
080-1051-140	9%	40.0-47.0	8.681	8.835	51A4	8.437	
080-1051-200	9%	29.3-36.0	8.836	9.063	51B	8.593	2½ EU 8RD
080-1151-140	9%	40.0-47.0	8.681	8.835	51A4	8.437	
080-1151-200	9%	29.3-36.0	8.921	9.063	51B	8.593	

**“MR-3D” LARGE BORE DOUBLE
GRIP RETRIEVABLE PACKER**



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MR-3D
Large Bore

Model MR-3D Large Bore Double Grip Retrievable Packer

Large Bore Model MR-3D Double Grip Retrievable Casing Packers are used in production, stimulation and testing operations where maximum I.D. is required. Their hydraulic hold down is below the pressure equalization valve. They feature a proven three element packing system and a balance sleeve device to assist in keeping the by-pass closed. They are available for 5½" through 7½" casing.

Features:

- Proven three piece packing element system available in multiple configurations for different applications
- Hydraulic hold down button unit with large internal flow path located below the bypass valve to reduce element swabbing and button wicker dulling
- Surface controlled combination bypass and equalizing valve
- Tubing pressure actuated collet lock to eliminate excessive set down weight requirements
- Carbide rocker slips available
- Parts are interchangeable with other manufacturers
- Large bore



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SPECIFICATIONS							
Part Number Double Grip	Casing		Setting Range		Size	Tool OD (in.)	Threads Box Up Pin Down
	OD (in.)	Wt T & C (pounds)	Min ID (in.)	Max ID (in.)			
080-1145-120	5½	20.0-23.0	4.625	4.777	45A2	4.500	2½ EU 8RD
080-1145-140	5½	17.0-20.0	4.778	4.892	45A4	4.641	
080-1145-200	5½ 5¾ 6	13.0-15.5 22.5 26.0	4.893	5.044	45B	4.781	
080-1147-140	6½ 7	20.0 32.0-35.0	5.983	6.135	47A4	5.812	3½ EU 8RD
080-1147-220	6½ 7	17.0 26.0-29.0	6.136	6.276	47B2	5.968	
080-1147-240	7	20.0-26.0	6.276	6.456	47B4	6.078	
080-1147-320	7	17.0-20.0	6.454	6.578	47C2	6.266	
080-1147-340	7%	33.7-39.0	6.579	6.797	47C4	6.453	
080-1147-420	7%	24.0-29.7	6.798	7.025	47D2	6.672	
080-1147-440	7%	20.0-24.0	7.025	7.125	47D4	6.812	

**“MR-3S” SINGLE GRIP
RETRIEVABLE PACKER**



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Model MR-3S Single Grip Retrievable Packer

Model MR-3 Single Grip Retrievable Casing Packers are used in production as a convention long stroke Packer. They feature a proven three element packing system and a large by-pass area through the Packer. They are available for 4" through 9 5/8" casing.

Features:

- Proven three piece packing element system available in multiple configurations for different applications
- Large by-pass area
- Surface controlled combination bypass and equalizing valve
- Carbide rocker slip available
- Parts are interchangeable with other manufacturers



**“MR-3S” SINGLE GRIP
RETRIEVABLE PACKER**



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SPECIFICATIONS							
Part Number Single Grip	Casing		Setting Range		Size	Tool OD (in.)	Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)			
080-1541-100	4	9.5-11.6	3.428	3.546	41A	3.303	2% EU 8 RD
080-1541-200	4½	15.1	3.754	3.826	41B	3.620	
080-1543-100	4½	9.5-13.5	3.910	4.090	43A	3.771	
080-1543-200	5	15.0-18.0	4.25	4.408	43B	4.125	
080-1543-300	5 5½	11.5-15.0 26	4.408	4.560	43C	4.250	
080-1545-120	5½	20.0-23.0	4.625	4.778	45A2	4.500	
080-1545-140	5½	15.5-20.0	4.778	4.950	45A4	4.641	
080-1545-200	5½ 5¾ 6	13.0-15.5 22.5 26.0	4.950	5.190	45B	4.781	
080-1545-300	6	20.0-23.0	5.191	5.390	45C	5.062	
080-1545-400	6	15.0-18.0	5.391	5.560	45D	5.156	
080-1545-520	6%	34.0	5.561	5.609	45E2	5.406	
080-1545-540	6%	28.0-32.0	5.610	5.791	45E4	5.484	
080-1545-560	6%	24.0-28.0	5.791	5.921	45EF	5.484	
080-1645-120	5½ x 2%	20.0-23.0	4.625	4.777	45A2	4.500	2% EU 8RD
080-1645-140	5½ x 2%	17.0-20.0	4.778	4.892	45A4	4.641	
080-1645-200	5½ x 2%	13.0-15.5	4.893	5.044	45B	4.781	
080-1546-120	6%	28.0-32.0	5.600	5.791	46A2	5.475	
080-1546-140	6% 7	24.0-28.0 38.0	5.791	5.921	46A4	5.588	
080-1546-200	6% 7	17.0-20.0 32.0-35.0	5.922	6.135	46B	5.781	
080-1547-120	6% 7	24.0 38.0	5.830	5.937	47A2	5.656	
080-1547-140	6% 7	17.0-20.0 32.0-35.0	5.938	6.135	47A4	5.812	
080-1547-220	7	26.0-29.0	6.136	6.276	47B2	5.968	
080-1547-240	7	20.0-26.0	6.276	6.456	47B4	6.078	
080-1547-320	7	17.0-20.0	6.456	6.578	47C2	6.266	
080-1547-340	7%	33.7-39.0	6.579	6.797	47C4	6.453	
080-1547-420	7%	24.0-29.7	6.798	7.025	47D2	6.672	
080-1547-440	7%	20.0-24.0	7.025	7.125	47D4	6.812	
080-1549-120	8%	44.0-49.0	7.511	7.687	49A2	7.312	3% EU 8RD
080-1549-140	8%	32.0-40.0	7.688	7.921	49A4	7.531	
080-1549-200	8%	20.0-28.0	7.922	8.191	49B	7.781	
080-1551-120	9%	47.0-53.5	8.343	8.681	51A2	8.218	
080-1551-140	9%	40.0-47.0	8.681	8.835	51A4	8.437	
080-1551-200	9%	29.3-36.0	8.836	9.063	51B	8.593	



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“MAPSET” MECHANICAL SET RETRIEVABLE PRODUCTION PACKER





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MAPSET Mechanical Set Retrievable Production Packers

The Model MAPSET single string mechanical Production Packer is a retrievable, double grip compression or tension-set production packer that holds pressure from above or below. Once set the tubing string can be left in tension, compression, or in a neutral position. A large internal bypass reduces the swabbing effect during run-in and retrieval, and closes when the packer is set. When the packer is released, the bypass opens first, allowing the pressure to equalize before the upper slips are pulled from the casing. The Model MAPSET also features an upper slip releasing system that reduces the force required to release the packer. A non-directional slip is released first, making it easier to release other slips. These flexible features allow the MAPSET to be run in a variety of applications ranging from Production Packer to Bridge Plug to Service Packer.

Features

- Internal bypass reduces swabbing
- Holds 7,500 psi high pressure differentials from above or below
- Incorporates standard setting and releasing methods of only one quarter turn to the right
- Tubing string can be held in tension, compression or neutral set while the packer remains engaged
- Optional shear release features available upon request
- Many different elastomers are available for different running requirements
- Bypass valve is below upper slips so the debris is washed from slips when the valve is opened
- Can be configured with Carbide Slips and Drag Blocks for premium casing

**“MAPSET” MECHANICAL SET
RETRIEVABLE PRODUCTION PACKER**



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)	OD	ID	
054-5330-201	3½	7.7-10.2	2.922	3.068	2.781	1.25	1.500" NU 10RD
054-5330-001	4½	15.1-16.6	3.754	3.826	3.594	1.5	1.900" NU 10RD
054-5330-002		9.5-13.5	3.920	4.090	3.750	1.938	2¾" EU 8RD
054-5330-003		13.5-15.1	3.826	3.920	3.650	1.938	
054-5330-006	5	18.0-20.8	4.156	4.276	4.000	1.938	
054-5330-007		11.5-15	4.408	4.560	4.125	1.938	
054-5331-001	5½	20.0-23.0	4.670	4.778	4.500	1.938	2½" EU 8RD
054-5331-002		14.0-20.0	4.778	5.012	4.625		
054-5331-006		20.0-23.0	4.670	4.778	4.500	2.375	
054-5331-007		15.5-17.0	4.892	4.95	4.625		
054-5331-008		13.0-14.0	5.012	5.044	4.775		
054-5331-009		9.0-13.0	5.044	5.192	4.813		
054-5332-001	6%	24.0-32.0	5.675	5.921	5.500	3.000	3½" EU 8RD
054-5332-002		20.0-24.0	5.921	6.049	5.750		
054-5332-003		17.0-24.0	5.921	6.135	5.750		
054-5332-004	7	26.0-32.0	6.094	6.276	5.875	2.500	2½" EU 8RD
054-5332-005		17.0-26.0	6.276	6.538	6.000		
054-5332-006		26.0-32.0	6.094	6.276	5.875	3.000	3½" EU 8RD
054-5332-007		17.0-26.0	6.276	6.538	6.000		
054-5333-001	7%	33.7-39.0	6.625	6.765	6.437	2.500	2½" EU 8RD
054-5333-002		33.7-39.0	6.625	6.765	6.437	3.000	3½" EU 8RD
054-5333-003		24.0-29.7	6.875	7.025	6.672		
054-5333-004		24.0-29.7	6.875	7.025	6.672	2.500	2½" EU 8RD
054-5335-001	9%	43.5-53.5	8.535	8.755	8.250	4.000	4½" EU 8RD
054-5335-002		32.3-43.5	8.755	9.001	8.500		

**"MAPSET-HP" MECHANICAL
SET PACKER**



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MAPSET-HP



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MAPSET-HP-Mechanical Set Retrievable Production Packer

The Model MAPSET-HP single string Mechanical Production Packer is a retrievable, double grip compression or tension-set production packer that holds pressure from above or below. Once set, the tubing string can be left in tension, compression, or in a neutral position. A large internal bypass reduces the swabbing effect during run-in and retrieval, and closes when the packer is set. When the packer is released, the bypass opens first, allowing the pressure to equalize before the upper slips are pulled from the casing. The Model MAPSET-HP also features an upper slip releasing system that reduces the force required to release the packer. A non-directional slip is released first, making it easier to release the other slips. These flexible features allow the MAPSET-HP to be run in a variety of applications ranging from Production Packer to Bridge Plug to Service Packer.

Features:

- Internal bypass reduces swabbing
- Holds 10,000 psi high pressure differentials from above or below
- 7,500 psi (7.5K) option for lower pressure applications. See MAPSET
- Only one-quarter right rotation is required to set and release
- Tubing string can be held in tension, compression or neutral set while the packer remains engaged
- Optional shear release features are available upon request
- Packing element options are available for hostile environments
- Bypass valve is below upper slips so the debris is washed from slips when the valve is opened
- Can be configured with Carbide Slips and Drag Blocks for premium casing



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool OD	Tool ID	Threads Box Up Pin Down
	OD	Wt	Min ID	Max ID			
054-5360-002	4½	9.5-13.5	3.92	4.09	3.750	1.938	2¾"EU 8RD
054-5360-003		13.5-15.1	3.826	3.92	3.650		
054-5360-006	5	18.0-20.8	4.156	4.276	4.000		
054-5360-007		11.5-15.0	4.408	4.56	4.125		
054-5361-001	5½	20.0-23.0	4.670	4.778	4.500	2.375	2¾"EU 8RD
054-5361-002		14.0-20.0	4.778	5.012	4.625		
054-5361-009		23.0-26.0	4.548	4.670	4.406		
054-5361-006		20.0-23.0	4.670	4.778	4.500		
054-5361-007	7	15.5-20.0	4.778	4.95	4.625	2.500	
054-5362-004		26.0-32.0	6.094	6.276	5.875		
054-5362-005		17.0-26.0	6.276	6.538	6.000		
054-5363-001	7¾	33.7-39.0	6.625	6.765	6.453		
054-5363-004		24.0-29.7	6.875	7.025	6.672		

**“PHP-2-SR” HYDRAULIC
SET PACKER**



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PHP-2-SR



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Model PHP-2-SR Hydraulic Set Packer

Model PHP-2-SR Retreivable Hydraulic Packers can be run in single or multiple zone installations. It is recommended for deviated wells where conditions are not suitable for mechanical or electric wire packers. No tubing movement is required or generated to set the packer. Once set, the packer is locked in place by one-piece bi-directional slips and will hold high differential pressures. The packer can be released by either straight pull or right-hand tubing rotation. An equalizing and by-pass feature is incorporated in the release mechanism. They are available for 5" through 9 5/8" casing.

Features:

- Recommended for deviated wells
- Tubing pressure actuated
- Proven three piece packing element system available in multiple configurations for different applications
- Straight pull or rotational release
- Bi-directional one-piece slips below the packing



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool OD		Threads Box Up Pin Down
	OD (in.)	Weight T & C (pounds/ft.)	Min (in.)	Max (in.)	OD (in.)	ID (in.)	
054-5670-002	5	15.0-18.0	4.276	4.408	2.000	4.070	2 ³ / ₈ " EU 8 RD
054-5671-004	5 ¹ / ₂ x 2 ³ / ₈	20.0-23.0	4.670	4.778	1.930	4.500	
054-5671-003	5 ¹ / ₂ x 2 ³ / ₈	14.0-20.0	4.778	5.012	1.930	4.500	
054-5671-008	5 ¹ / ₂ x 2 ³ / ₈	9.0-13.0	5.044	5.192	1.930	4.810	
054-5671-013	5 ¹ / ₂ x 2 ³ / ₈	20.0-23.0	4.670	4.778	1.930	4.500	2 ⁷ / ₈ " EU 8 RD
054-5671-012	5 ¹ / ₂ x 2 ³ / ₈	14.0-20.0	4.778	5.012	1.930	4.500	
054-5671-009	5 ¹ / ₂ x 2 ³ / ₈	9.0-13.0	5.044	5.192	1.930	4.810	
054-5672-007	7 x 2 ⁷ / ₈	29.0-38.0	5.920	6.184	2.440	5.680	
054-5672-002	7 x 2 ⁷ / ₈	26.0-29.0	6.184	6.279	2.440	5.960	
054-5672-001	7 x 2 ⁷ / ₈	20.0-26.0	6.279	6.456	2.440	6.070	3 ¹ / ₂ " EU 8 RD
054-5672-008	7 x 3 ¹ / ₂	29.0-38.0	5.920	6.184	3.000	5.680	
054-5672-005	7 x 3 ¹ / ₂	26.0-29.0	6.184	6.279	3.000	5.960	
054-5672-004	7 x 3 ¹ / ₂	20.0-26.0	6.279	6.456	3.000	6.070	2 ⁷ / ₈ " EU 8 RD
054-5674-003	9 ⁵ / ₈ x 2 ⁷ / ₈	43.5-53.5	8.538	8.755	2.440	8.180	
054-5674-004	9 ⁵ / ₈ x 2 ⁷ / ₈	36.0-47.0	8.681	8.921	2.440	8.430	3 ¹ / ₂ " EU 8 RD
054-5674-001	9 ⁵ / ₈ x 3 ¹ / ₂	43.5-53.5	8.538	8.755	3.000	8.180	
054-5674-002	9 ⁵ / ₈ x 3 ¹ / ₂	36.0-47.0	8.681	8.921	3.000	8.430	

**“LOCK-SET” RETRIEVABLE
CASING PACKER**



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Lock-Set



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Model Lock-Set Double-Grip Retrievable Packer

The MAP Model Lock-Set Retrievable Casing Packer is a Full Bore Double Grip Retrievable Packer with a built-in pressure equalizing unloader. It holds pressure from above or below. The opposed, non-transferring dovetail slips prevent movement of the packer in either direction, while allowing landing of the tubing in tension, compression, or neutral. It is a general purpose packer for production, injection, zone isolation, or remedial operations.

Features:

- Sets securely in all standard hardness casing
- Internal by-pass
- Opposed dovetail slips for positive set
- Holds pressure from above or below
- Can leave tubing in a tension, compression, or neutral position
- Right-hand rotation sets and releases the packer
- Carbide inserted slips available for higher grade casing
- Converts to Mechanical Bridge Plug with the addition of MAP Model K-Connector Valve

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SPECIFICATIONS								
Part Number	Casing		Setting Range		Tool		Size	Threads Box Up Pin Down
	OD (in.)	Wt T & C (pounds/ft.)	Min ID (in.)	Max ID (in.)	OD (in.)	ID (in.)		
080-2343-120	4½	11.6-13.5	3.91	4.000	3.771	1.978	43A2	2½" EU 8RD
080-2343-140	4½	9.6-10.5	4.001	4.090	3.771		43A4	
080-2343-200	5	15.0-18.0	4.25	4.408	4.125		43B	
080-2343-300	5 5½	11.5-15.0 26.0	4.408	4.560	4.250		43C	
080-2345-120	5½	20.0-23.0	4.625	4.778	4.500	2.000	45A2	
080-2345-140	5½	15.5-20.0	4.778	4.950	4.641		45A4	
080-2345-200	5½ 6	13.0-15.5 26.0	4.95	5.190	4.781		45B	
080-2345-300	6	20.0-23.0	5.191	5.39	5.062		45C	
080-2345-400	6	15.0-18.0	5.391	5.56	5.156		45D	
080-2345-500	6%	34.0	5.561	5.609	5.406		45E	
080-2345-600	6%	24.0-32.0	5.61	5.921	5.484		45F	
080-2345-700	6%	17.0-24.0	5.922	6.135	5.781		45G	
080-2347-120	6½ 7	24.0 38.0	5.830	5.937	5.656	2.438	47A2	2½" EU 8RD
080-2347-140	6½ 7	17.0-20.0 32.0-35.0	5.938	6.135	5.812		47A4	
080-2347-220	7	26.0-29.0	6.136	6.276	5.968		47B2	
080-2347-240	7	23.0-26.0	6.276	6.366	6.078		47B4	
080-2347-320	7	17.0-20.0	6.456	6.578	6.266		47C2	
080-2347-340	7%	33.7-39.0	6.579	6.797	6.453		47C4	
080-2347-420	7%	24.0-29.7	6.798	7.025	6.672		47D2	
080-2347-440	7%	20.0-24.0	7.025	7.125	6.812		47D4	
080-2349-120	8%	44.0-49.0	7.511	7.687	7.312	3.481	49A2	4" NU 8RD
080-2349-140	8%	32.0-40.0	7.688	7.921	7.531		49A4	
080-2349-200	8%	20.0-28.0	7.922	8.191	7.781		49B	
080-2351-120	9%	47.0-53.5	8.343	8.681	8.218		51A2	
080-2351-140	9%	40.0-47.0	8.681	8.835	8.437		51A4	
080-2351-200	9%	29.3-36.0	8.836	9.063	8.593		51B	

**“MFH” RETRIEVABLE
HYDROSTATIC PACKER**



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MFH



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Model MFH Retrievable Double-Grip Hydrostatic Single-string Packer

The Model MFH Retrievable Hydrostatic Packer is used in production, injection and zonal isolation. It can be run in single or multiple zone installations. It is recommended for deviated wells where conditions are not suitable for mechanical or wireline set packers. No tubing movement is required or generated to set the packer. Once set, the packer is locked in place by one-piece no-directional slips. The packer can be released by straight pull. They are available in 4½" through 9½" casing.

Features:

- Hydraulically activated, hydrostatic set
- Contains both a built-in unloader and bypass
- Packoff is mechanically locked and constantly reinforced by hydrostatic pressure
- Proven three piece packing element system available in multiple configurations for different applications
- No mandrel movement during setting allows stacked packer applications
- Simple operation with a straight pull release

**“MFH” RETRIEVABLE
HYDROSTATIC PACKER**



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	Weight T & C (pounds/ft.)	Min (in.)	Max (in.)	OD (in.)	ID (in.)	
080-2043-100	4½	9.5-13.5	3.910	4.090	3.771	1.93	2¾" EU 8RD
080-2043-200	5	15.0-18.0	4.250	4.408	4.125		
080-2043-300	5 5½	11.5-15.0 26.0	4.408	4.560	4.250		
080-2045-120	5½	20.0-23.0	4.625	4.778	4.500	1.995	2 ⅜" EU 8RD or 2½" EU 8RD
080-2045-140	5½	15.5-20.0	4.778	4.950	4.641		
080-2045-200	5½ 6	13.0-15.5 26	4.950	5.190	4.781		
080-2045-300	6	20.0-23.0	5.191	5.39	5.062		
080-2045-400	6	15.0-18.0	5.391	5.56	5.156		
080-2045-520	6%	34	5.561	5.609	5.406		
080-2045-540	6%	28.0-32.0	5.610	5.791	5.484		
080-2046-140	6% 7	24.0-28.0 38.0	5.791	5.921	5.588	2.416	2¾" EU 8RD
080-2047-120	6% 7	24.0 38.0	5.830	5.937	5.656	2.000 or 2.416	2¾" EU 8RD or 2½" EU 8RD
080-2047-140	6% 7	17.0-20.0 32.0-35.0	5.938	6.135	5.812		
080-2047-220	7	26.0-29.0	6.136	6.276	5.968		
080-2047-240	7	20.0-26.0	6.276	6.456	6.078		
080-2047-320	7	17.0-20.0	6.456	6.578	6.266		
080-2047-340	7%	33.7-39.0	6.579	6.797	6.453		
080-2047-420	7%	24.0-29.7	6.798	7.025	6.672		
080-2047-440	7%	20.0-24.0	7.025	7.125	6.812		
080-2049-120	8%	44.0-49.0	7.511	7.687	7.312	2.000 or 2.500 or 3.000	2¾" EU 8RD or 2½" EU 8RD or 3½" EU 8RD
080-2049-140	8%	32.0-40.0	7.688	7.921	7.531		
080-2049-200	8%	20.0-28.0	7.922	8.191	7.781		
080-2051-120	9%	47.0-53.0	8.343	8.681	8.218		
080-2051-140	9%	40.0-47.0	8.681	8.835	8.437		
080-2051-200	9%	29.3-36.0	8.921	9.063	8.593		

MFHL HYDRAULIC SET PACKER



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MFHL



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MFHL - Hydraulic Set Packer, FHL Type

The Model MFHL Retrievable Double-Grip Large Bore Hydrostatic Single String Packer is a large bore version of the Model MFH Packer. Features, advantages and operational procedures are basically the same as those described for the Model MFH Packer shown in basic unit filed in front of this index tab. Only the information that differs from that shown in the basic unit is contained in this unit.

Features:

- Hydraulically activated, hydrostatic set
- Contains both a built-in unloader and bypass
- Pack-off is mechanically locked and constantly reinforced by hydrostatic pressure
- Proven three piece packing element system available in multiple configurations for different applications
- No mandrel movement required during setting allows for stacked packer applications
- Simple operation with a straight pull release



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool		Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID	Max ID	OD	ID	
080-2147-120	6 ⁵ / ₈ 7	24.0 38.0	5.83	5.921	5.66	3	3 ¹ / ₂ "EU 8RD
080-2147-140	6 ⁵ / ₈ 7	20.0 32.0-35.0	5.989	6.094	5.81	3	
080-2147-220	6 ⁵ / ₈ 7	17.0 26.0-29.0	6.135	6.276	5.97	3	
080-2147-240	7	20.0-26.0	6.276	6.456	6.08	3	
080-2147-320	7	17.0-20.0	6.456	6.578	6.27	3	
080-2147-340	7 ⁵ / ₈	33.7-39.0	6.579	6.765	6.45	3	
080-2147-420	7 ⁵ / ₈	24.0-29.7	6.766	7.025	6.67	3	
080-2147-440	7 ⁵ / ₈	20.0-24.0	7.025	7.125	6.81	3	
080-2151-120	9 ⁵ / ₈	47.0-53.0	8.343	8.681	8.22	4	4 ¹ / ₂ "Lg. Casing
080-2151-140	9 ⁵ / ₈	40.0-47.0	8.681	8.835	8.44	4	
080-2151-200	9 ⁵ / ₈	29.3-36.0	8.836	9.063	8.59	4	

**SERVICE
TOOLS**



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“PC-1” RETRIEVABLE PACKER

“CS-1” RETRIEVABLE PACKER

“JS®-2A” RETRIEVABLE PACKER

“JS®-3” RETRIEVABLE PACKER

“MSV-2” STORM VALVE

“MTXT” RETRIEVABLE SERVICE PACKER

“PC-1” RETRIEVABLE PACKER



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PCU-1



PC-1



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

地址: 山东省济南市历下区经十路 12111 号中润世纪中心

Address: Zhongrun Century Center, No 12111, Jingshi Road,

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Model PC-1 Retrievable Packer

Model PC-1 Retrievable Packers are used for a variety of well treating and producing operations including squeeze cementing, formation fracturing, acidizing and testing. The PC-1 is a versatile tension set tool that holds differential pressure from above and below. It has a full opening bore that allows unrestricted fluid flow and easy passage of wireline tools. It is ideal for straddle operations using the Retrievable Bridge Plug. They are available for 3½" through 9⅝" casing.

Features:

- Sets securely in all standard hardness casing
- Full opening bore, thick wall, one piece body
- Three piece packing element system
- Holds differential pressure from above and below
- Used where shallow setting depth prevents use of compression set packers
- Can be used with PCU-1 Unloader
- Field-proven design, recommended to 275 degrees F applications, if need high temp, please contact MAP



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SPECIFICATIONS		
Part Number	Casing	
	OD (in.)	Weight T & C (pounds)
054-5603-201	3½	9.2-10.2
054-5603-001	4½	9.5-13.5
054-5603-002	5	15.0-18.0
054-5603-101	5½ x 2¾ ID	20.0-23.0
054-5603-102		15.5-17.0
054-5603-103	5½ x 2 ID	13.0-15.5
054-5603-104		20.0-23.0
054-5603-105		15.5-17.0
054-5603-106	7	13.0-15.5
054-5603-301		38.0-40.0
054-5603-302		32.0-35.0
054-5603-303		28.0-30.0
054-5603-304		23.0-26.0
054-5603-308	7¾	17.0-20.0
054-5603-305		33.7-39.0
054-5603-306		24.0-29.7

Cont.

054-5603-307	8%	20.0-24.0
054-5603-501		49.0
054-5603-502		44.0
054-5603-503		36.0-40.0
054-5603-504	9%	32.0
054-5603-505		24.0-28.0
054-5603-601		53.5
054-5603-602		43.5-47.0
054-5603-603		40.0
054-5603-604		29.3-36.0

“CS-1” RETRIEVABLE PACKER



山东赛高石化设备有限公司

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CS-1



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Website: www.saigaonutri.com

Model CS-1 Retrievable Packer

Model CS-1 Retrievable Packers are used for a variety of well treating and producing operations including squeeze cementing, formation fracturing, acidizing and testing. These double-grip, single-string packers have a full opening bore that allows unrestricted fluid flow and easy passage of wireline tools. They also include hydraulically actuated upper button type slips and a built-in pressure relief unloader. They are available for 4½" through 7⅝" casing.

Features:

- Sets securely in all standard hardness casing
- Long carbonized friction pads act independent of slips and allow trouble free passage through collar and recesses and stage tool profiles
- Full opening bore, thick wall, one piece body
- Three piece packing element system
- Hydraulic hold down
- Surface controlled pressure equalization valve that requires no separate unloader



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SPECIFICATIONS		
Part Number	Casing	
	OD (in.)	Weight T & C (pounds)
054-5640-001	4½	9.5-13.5
054-5640-005	4½	15.1
054-5640-002	5	15.0-18.0
054-5640-003	5	11.5-15.0
	5½	26.0
054-5641-001	5½	20.0-23.0
054-5641-005		15.0-20.0
054-5641-002		13.0-15.5
054-5642-001	6⅝	24.0
	7	38.0
054-5642-009	6⅝ 7	17.0-20.0
		32.0-35.0
054-5642-010		26.0-29.0
054-5642-003	6⅝ 7	12.0
		20.0-26.0
054-5643-004		17.0-20.0
054-5643-001	7⅝	33.7-39.0
054-5643-002		24.0-29.7
054-5643-003		20.0-24.0

“JS[®]-2A” RETRIEVABLE PACKER



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JS8-2A



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Website: www.saigaonutri.com

JS[®]-2A Retrievable Packers

Retrievable Service Packer Model JS[®]-2A (with P110 Body, Coupling, Sub and Carbide Slips, Drag Blocks)

Model JS[®]-2A Retrievable Packers are used in stimulation, perforating, gravel packing and testing applications. The hydraulic hold down is below the pressure equalization valve. The tool features a proven three element packing system and a hydraulically controlled balance piston designed to keep the by-pass closed when set. The tools are available in a 4½" through 16" casing.

Features:

- Sets securely in all standard hardness casing
- Three piece packing element system with metal backups accommodate low and high pressure applications for the broadest range of service
- Hydraulic hold down button unit with large internal flow path located below the bypass valve to reduce element swabbing and button wicker dulling. These hold down piston type slips are set by pressure from below
- Surface controlled combination bypass and equalizing valve
- Tubing pressure actuated hydraulic piston eliminate excessive set down weight requirements. This feature is far more efficient than collet type locking systems
- Automatic Jay Unit, setting the packer is accomplished by running to depth, picking up a few feet rotating ¾ turns to the right and setting down



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- Straight pickup of the tubing will first open the bypass valve and equalize pressure, continued pickup will release the packer and automatically engage the packer in the running position for further operations up or down the hole
- All JS®-2A packers come with heavy duty long acme threads and dual O-Ring Backups on the body to coupling connections
- All JS®-2A packers come standard with 8 Round top and bottom connections. For API IF connections see our JS®-3 packers. For other premium threads please contact sales
- Carbide slips, pistons and friction pads for high hardness casing
- P110 body coupling and sub for heavy duty jobs

“JS®-2A” RETRIEVABLE PACKER

SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool OD	Tool ID	Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)			
054-5640-401	4½	9.5-13.5	3.91	4.09	3.77	1.812	2½ EU 8 RD
054-5640-402	5	15.0-18.0	4.25	4.408	4.13	1.812	
054-5640-504	5 5½	11.5-15.0 26	4.408	4.56	4.25	1.812	
054-5641-601	5½	20.0-23.0	4.625	4.778	4.51	1.938	
054-5641-605	5½	15.5-20.0	4.778	4.95	4.64	1.938	
054-5641-602	5½	13.0-15.5	4.95	5.19	4.78	1.938	
054-5642-601	6½ 7	24 38	5.83	5.937	5.65	2.375	2½ EU 8 RD
054-5642-609	7	32.0-35.0	5.938	6.135	5.81	2.375	
054-5642-610	7	26.0-29.0	6.136	6.276	5.97	2.375	
054-5642-603	7	20.0-26.0	6.276	6.456	6.07	2.375	
054-5642-604	7	17.0-20.0	6.456	6.578	6.27	2.375	
054-5643-601	7½	33.7-39.0	6.579	6.797	6.45	2.375	
054-5643-602	7½	24.0-29.7	6.798	7.025	6.67	2.375	
054-5643-603	7½	20.0-24.0	7.025	7.125	6.81	2.375	



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054-5644-601	8%	44.0-49.0	7.511	7.625	7.31	3	3½ EU 8 RD
054-5644-602	8%	32.0-40.0	7.725	7.921	7.53	3	
054-5644-603	8%	20.0-28.0	8.017	8.191	7.78	3	
054-5645-601	9%	47.0-53.5	8.535	8.681	8.21	3	
054-5645-602	9%	40.0-47.0	8.681	8.835	8.44	3	
054-5645-603	9%	29.3-36.0	8.921	9.063	8.59	3	
054-5646-601	10%	40.5-55.5	9.75	10.05	9.5	3	
054-5647-602	11%	60.0-83.0	10.192	11.772	10.06	3	
054-5647-601	11%	38.0-65.0	10.682	11.15	10.38	3	
054-5648-601	13%	48.0-72.0	12.347	12.715	12.13	3	
054-5649-601	16	75.0-102.0	14.75	15.125	14.5	3.75	



“JS[®]-3” RETRIEVABLE PACKER



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Model JS[®]-3 Retrievable Storm Packer

Model JS[®]-3 Retrievable Storm Packers are also used in production, stimulation, perforating gravel, packing and testing applications. The hydraulic hold down is below the pressure equalization valve. The tool features a proven three element packing system and a hydraulically controlled balance piston designed to keep the by-pass closed when set. The tools are available in 5½" through 20" casing. Comes standard with API IF thread forms.

Features:

- Sets securely in all standard hardness casing
- Three piece packing element system with metal backups accommodate low and high pressure applications for the broadest range of service
- Hydraulic hold down button unit with large internal flow path located below the bypass valve to reduce element swabbing and button wicker dulling these hold down piston type slips are set by pressure from below
- Surface controlled combination bypass and equalizing valve
- Tubing pressure actuated hydraulic piston eliminate excessive set down weight requirements. This feature is far more efficient than collet type locking systems
- Automatic Jay Unit, setting the packer is accomplished by running to depth, picking up a few feet rotating ¾ turns to the right and setting down
- Straight pickup of the tubing will first open the bypass valve and equalize pressure, continued pickup will release the packer and automatically engage the packer in the running position for



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Shandong Saigao Group Corporation.

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Website: www.saigaonutri.com

further operations up or down the hole

- All thread connection comes standard in API IF thread form
- All pressure bearing o-rings have backups for higher pressure resistance
- Load and pressure resistance designed to meet high load applications
- P110 body, coupling and sub for heavier duty jobs
- Carbide slips, pistons and drag blocks for high hardness casing

“JS-3” RETRIEVABLE PACKER



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SPECIFICATIONS								
Part Number	Casing		Setting Range		Tool OD	Tool ID	Threads Box Up Pin Down	
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)				
054-5641-512	5½	20.0-23.0	4.625	4.778	4.51	1.75	2⅝ IF	
054-5641-514	5½	15.5-20	4.778	4.950	4.64			
054-5641-513	5½	13.0-15.5	4.95	5.190	4.78			
054-5642-716	6⅞ 7	24.0 38.0	5.830	5.937	5.65	2.25	3½ IF	
054-5642-715	7	32.0-35.0	5.938	6.135	5.81			
054-5642-712	7	26.0-29.0	6.136	6.276	5.97			
054-5642-713	7	20.0-26.0	6.276	6.456	6.07			
054-5642-714	7	17.0-20.0	6.456	6.578	6.27			
054-5643-710	7⅞	33.7-39.0	6.579	6.797	6.45			
054-5643-711	7⅞	24.0-29.7	6.798	7.025	6.67			
054-5643-712	7⅞	20.0-24.0	7.025	7.125	6.81			
054-5644-709	8⅞	44.0-49.0	7.511	7.625	7.31			
054-5644-710	8⅞	32.0-40.0	7.725	7.921	7.53			
054-5644-711	8⅞	20.0-28.0	8.017	8.191	7.78	2.75	4½ IF	
054-5645-716	9⅞	47.0-53.5	8.535	8.681	8.21			
054-5645-713								
054-5645-714	9⅞	40.0-47.0	8.681	8.835	8.44			
054-5645-717								
054-5645-718	9⅞	29.3-36.0	8.921	9.063	8.59			
054-5645-715								
054-5646-705	10⅞	40.5-55.5	9.750	10.050	9.5			
054-5646-706	10⅞	60.7	9.504	9.660	9.38			
054-5647-708	11⅞	60.0-83.0	10.192	10.772	10.06			
054-5647-707	11⅞	38.0-65.0	10.682	11.150	10.38			
054-5648-703	13⅞	48.0-72.0	12.347	12.715	12.13	3.75	4½ IF	
054-5649-704	16	65.0-84.0	14.750	15.125	14.5			
054-5649-903	20	94.0-133.0	18.730	19.124	18.4			



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MSV-2

“MSV-2” STORM VALVE

Model MSV-2 Storm Valve

The Storm Valve is a combination Back Pressure Valve and Safety Joint that is run above a JS®-3 Storm Packer, in order to provide well control protection during a temporary abandonment of the well, without having to pull the drill pipe. The Storm Valve allows the packers to be set and then permits disconnection and retrieval of the drill pipe and the upper sub of the valve, while at the same time automatically closing the Storm Valve, isolating the drill pipe below the Storm Packer.

Features:

- Can be easily run by rotating the tubing string which can open and close the valve
- In emergency situation, the plug can open the drill pipe passage
- It is designed to be used with right hand set compression type packers only



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SPECIFICATIONS						
Part Number	Casing OD	Gage Ring NO.	Tool max OD	Tool min ID	Threads Box Up Pin Down	
054-5605-103	7%	054-5605-144	6.125	1.75	4½" IF	
	8%	054-5605-145	7			
	9%	054-5605-146	8			
	13¾	054-5605-147	11.75			
054-5605-104	7	054-5605-143	5.5	1.75	3½" IF	
	7%	054-5605-144	6.125			
	8%	054-5605-145	7			
	9%	054-5605-146	8			
	13¾	054-5605-147	11.75			
054-5605-105	5½	NA	3.72	1	2⅞" EU 8RD	
054-5605-107		054-5605-167	4.5		2⅞" IF	
054-5605-109						



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**“MTXT” RETRIEVABLE
SERVICE PACKER**



MTXT



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Model MTXT Retrievable Service Packer

Model MTXT Service Packer is a 1/4 turn, compression set, retrievable packer that is capable of holding high pressure from above and below.

It is used for acidizing, fracturing, cementing, and casing pressure tests.

Features:

- Full opening packer bore.
- Hydraulic hold down pistons for pressure from below.
- Built in unloader system.
- Large by-pass area.
- Left hand manual jay is standard.
- Other jay systems are available.
- Internal latch mechanism allows circulation at high rates of speed.
- Carbide slips, pistons and drag blocks for high hardness casing.

SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool OD (in.)	Tool ID (in.)	Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)			
080-2443-100	4½	9.5-13.5	3.920	4.090	3.771	1.750	2¾" EU 8 RD
080-2443-200	5	15.0-18.0	4.276	4.408	4.125		
080-2445-120	5½	20.0-23.0	4.670	4.778	4.500	1.938	
080-2445-140		15.0-20.0	4.778	4.950	4.641		
080-2445-200		13.0-15.5	4.950	5.044	4.781		
080-2447-140	7	32-35	6.004	6.094	5.807	2.375	2½" EU 8 RD
080-2447-220		26-29	6.184	6.276	5.963		
080-2447-240		20-26	6.276	6.456	6.073		
080-2447-320		17-20	6.456	6.538	6.266		



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SPECIAL TOOLS

“TAC-B” TUBING ANCHOR CATCHER

“MKV-1” K-CONNECTOR VALVE

“H” UNLOADER

“PCU-1” UNLOADER

“CSU-1” TUBING TESTER

“C” TYPE SUR-GRIP VISE

“TAC-B” TUBING ANCHOR CATCHER



山东赛高石化设备有限公司

Shandong Saigao Group Corporation.

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TAC-B



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Model "TAC-B" Tubing Anchor Catcher

The MAP Model TAC-B Tubing Anchor acts as a tubing anchor to maintain tension in the tubing string during the pump cycle and as a tubing catcher to prevent parted pipe from falling into the well. It is used in most rod pumping applications where it is important to maintain the tubing tension.

Features:

- Increases pump efficiency
- Reduces operating costs by reducing maintenance and down time caused by casing, tubing or sucker rod wear
- Rotates left to set, right to release
- Straight pull emergency release
- Parts interchangeable with other manufactures
- Available with Right Hand Set



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SPECIFICATIONS							
Part Number	Casing		Setting Range		Tool OD	Tool ID	Threads Box Up Pin Down
	OD (in.)	Wt (pounds)	Min ID (in.)	Max ID (in.)			
080-5601-203	4	9.5-12.6	3.364	3.548	3.250	1	2⅜" EU 8 RD
080-5601-204	4½	9.5-13.5	3.920	4.090	3.750	1.978	
080-5601-205	5	11.5-18.0	4.276	4.560	4.000		
080-5601-214	5	11.5-15.0	4.408	4.778	4.125		
	5½	20.0-23.0					
080-5601-216	5½	13.0-23.0	4.670	5.044	4.500	2.375	2⅞" EU 8 RD
080-5601-206							
080-5601-207	6	17.0-23.0	5.240	5.424	4.812		
080-5601-208	6⅝	28.0-32.0	5.675	5.791	5.125	2.438	2⅜" EU 8 RD
080-5601-215	6⅝	17.0-32.0	5.675	6.456	5.500		
080-5601-209	7	20.0-38.0					
080-5601-210	7	17.0-20.0	6.413	7.125	6.250		2⅞" EU 8 RD
	7⅞	20.0-39.0					
080-5601-211	6⅝ 7	17.0-32.0 17.0-38.0	5.675	6.538	5.500	3	3½" EU 8 RD
080-5601-212	7 7⅞	17.0-20.0 20.0-39.0	6.413	7.125	6.260		
080-5601-217	8⅞	24.0-49.0	7.250	8.093	7.000		
080-5601-218	9⅞	32.3-47.0	8.681	9.001	8.000		

“MKV-1” K-CONNECTOR VALVE



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Features:

- Lock open/closed
- Molded seals for multiple sets
- Running tool utilizes auto jay reconnect

SPECIFICATIONS				
Part Number	Tool Size	Tool OD (in.)	Running Tool PN#	Threads
080-0010-001	2 $\frac{3}{8}$ "	3.00	080-0010-011	2 $\frac{3}{8}$ " EU 8RD
080-0010-002	2 $\frac{7}{8}$ "	3.50	080-0010-012	2 $\frac{7}{8}$ " EU 8RD

Model MKV-1 K-Connector Valve

The MAP MKV-1 K-Connector Valve or K-Valve is a valve that converts the Lock-Set Retrievable Packer or MAPSET Retrievable Packer into a Retrievable Bridge Plug. The valve can be used at any time to create temporary zonal isolation when testing, squeezing or treating the wellbore, as well as when performing any work on the well head. The valve allows pressure to be equalized above and below the packer prior to releasing.



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“H” UNLOADER



MODEL-H



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Model H Unloader - Compression Activated Unloader

The Model H Compression Unloader is used with set down type packers for equalizing tubing and annulus pressures. Pressure is contained by three extra-large O-ring type seals which withstand repeated cycles of unloading and equalizing.

The unloader is manufactured in either a jay slot configuration or straight slot configuration. Both configurations provide means of transmitting torque through the unloader to ready the companion packer for setting. The straight slot unloader is closed by direct set down weight and opened by direct pick up on the work string. The jay slot unloader is closed by picking up, rotating one quarter turn to the right, then setting down. After setting down, the tubing can be rotated one quarter turn to the left, if desired, to lock the unloader closed. To open the unloader, use the reverse order mentioned above.

Features:

- Unloads pressures from either above annulus or tubing
- Multiple acting
- Can be locked in the closed or open position
- Simple operation

SPECIFICATIONS				
Part Number		Size	Tool OD	Threads Box Up Pin Down
JAY Slot Type	STRAIGHT Slot Type			
054-0235-009	054-0235-010	2 $\frac{3}{8}$ "	3.75"	2 $\frac{3}{8}$ OD EU 8 RD
054-0235-055	054-0235-058	2 $\frac{7}{8}$ "	4.50"	2 $\frac{7}{8}$ OD EU 8RD
054-0235-115	054-0235-118	3 $\frac{1}{2}$ "	5.50"	3 $\frac{1}{2}$ OD EU 8RD



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“PCU-1” UNLOADER



PCU-1



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Model PCU-1 Unloader - Tension Activated Unloader

Model PCU-1 Upstrain Uploader is designed to equalize tubing and annulus pressures above a tension packer.

The unloader is made up directly above the tension packer and is usually run in the hole in the open position to allow fluid bypass through tension packer and into the annulus. Torque is transmitted through the unloader to the tension packer by a key located in a key slot of the unloader body. Applying upstrain to set the packer will close the unloader and setting down weight will open it.

Features:

- Unloads pressures from either direction
- Multiple acting. May be run in either open or closed position and then opened to closed as many times as required
- Full opening bore through tool
- Easy operation, set down weight to open and apply upstrain to close

SPECIFICATIONS	
Part Number	Size (in.)
054-5603-110	2 ³ / ₈
054-5603-310	2 ⁷ / ₈
054-5603-210	1.660

“CSU-1” TUBING TESTER



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Model CSU-1 Tubing Tester

Model CSU-1 Upstrain Tubing Tester is normally attached directly above a Model CS-1 Squeeze Packer, or any other model of weight set type packer. This valve is used to test tubing for leaks once the packer is set and to displace tubing fluid when performing a squeeze, stimulation, or injection operation.

Features:

- Pressure test tubing prior to remedy of well
- Can also be used to pressure test tubing while running tubing string into well
- Used to displace fluids while squeezing, stimulation, or treating
- For use with any retrievable set-down type squeeze packer
- Will handle differential pressures from tubing or above annulus favors
- Easy to operate

SPECIFICATIONS				
Part Number	Size	Tool OD	Tool ID	Threads Box up Pin Down
054-0240-001	2 $\frac{3}{8}$ "	3.75"	1.88"	2 $\frac{3}{8}$ OD EU 8 RD
054-0240-002	2 $\frac{7}{8}$ "	5.25"	2.38"	2 $\frac{7}{8}$ OD EU 8RD

“C” TYPE SUR-GRIP VISE



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"C" TYPE SUR-GRIP VISE

The Sur-Grip Vise is a heavy duty screw-type vise designed for holding pipe, valves, fittings, or just about anything within the capacity of its positive grip jaws.

Equipment may be placed in the versatile Sur-Grip from any of three sides with the fourth side acting as a positioning and steadying guide. The unit's easy rotating handle quickly extends at arm height for extra leverage for critical tightening applications. The Sur-Grip Vise is available in sizes 2"~13 $\frac{3}{8}$ ".

Outer Dimension: 72.83 in. (length) x 27.56 in. (width) x 55.12 in. (height)

Part Number: 041-1000-370 (up to 9 $\frac{5}{8}$ ")

041-1000-445 (up to 13 $\frac{3}{8}$ ")



"C" TYPE SUR-GRIP VISE



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FLOW CONTROL EQUIPMENT

“MT-2” ON/OFF TOOL

“MX” & “MXN” LANDING NIPPLE

“MF” & “MR” LANDING NIPPLE

“MXO” “MXA” & “MXD” CIRCULATING SLEEVE

“ML” CIRCULATING SLEEVE

“MPX” & “MPXN” BYPASS BLANKING PLUG

“MFWG” & “MRZG” BYPASS BLANKING PLUG

“MFSG” BYPASS BLANKING PLUG

“MD-2” SHIFTING TOOL

“MBS” & “MBP” SHIFTING TOOL



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“MT-2” ON/OFF TOOL



MT-2



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Model MT-2 On-Off Tool

The Model MT-2 On-Off Tool is a left-hand release, tubing disconnect device with an internal lock profile for securing flow control equipment. It is used in operations that require tubing disconnect and reengagement without releasing the packer. The internal lock profile is used to retain flow control devices such as plugs, valves or chokes.

Features:

- ¼ turn Left-hand release, auto-on
- Optional right-hand release
- Bonded seals allow multiple disconnects
- Can be pinned in a shear-up or shear-down position
- Type MX internal lock profiles are standard

SPECIFICATIONS						
Casing Size		Max OD		Min ID		Threads Box Up Pin Down
in.	mm	in.	mm	in.	mm	in.
4½	114.30	3.75	95.25	1.87	47.63	2⅜ 8 RD EUE
5½	139.70	4.50	114.30	1.87	47.63	2⅜ 8 RD EUE
		4.50	114.30	2.31	58.75	2⅞ 8 RD EUE
7	177.80	5.88	149.23	2.31	58.75	2⅞ 8 RD EUE
		5.88	149.23	2.81	71.45	3½ 8 RD EUE
7⅝	193.68	6.25	158.75	2.81	71.45	3½ 8 RD EUE
9⅝	244.48	8.02	203.71	2.31	58.75	2⅞ 8 RD EUE
				2.81	71.45	3½ 8 RD EUE

“MX” & “MXN” LANDING NIPPLE



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Model MX Landing Nipple

The "MX" Nipple offers an expanded versatility to downhole selection. Any desired number of "MX" Nipple can be placed in the production string, thereby offering an unlimited number of positions for setting and locking surface controls. May be used in the following applications:

- Land blanking plugs to shut in well or test the production tubing
- Land velocity type safety valves
- Land equalizing check valves
- Land chokes to reduce surface flowing pressures
- Land instrument hangers with geophysical devices such as pressure and temperature recorders

Features

- Versatility to reduce completion and production costs
- Nipple bore compatible with tubing size and weight to permit flow capacity
- Designed for standard tubing weight
- All premium threads available

Model MXN Landing Nipple

"MXN" Nipple is designed for use in single nipple installations or as the bottom nipple when placed in a series of type "MX" landing nipples. "MXN" Nipple can be used in the above applications as "MX", except that, it has restricted I.D. catches tools dropping during wireline work.

Features

- Full-opening packing bore, with a locking recess at the top of the





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Nipple and slightly restricted NO-GO at the bottom to prevent wireline tools from dropping out of the tubing string and being lost

- All premium threads available

SPECIFICATIONS				
Tubing Size (in./mm.)	"MX"		"MXN"	
	Min. Nipple I.D. (in./mm)	Packing Bore (in./mm)	Min. Nipple I.D. (in./mm)	Packing Bore (in./mm)
1.900 48.26	1.500 38.10	1.500 38.10	1.448 (NO-GO) 36.78	1.500 38.10
2 ¹ / ₁₆ 52.39	1.625 41.28	1.625 41.28	1.536 (NO-GO) 39.01	1.625 41.28
2 ³ / ₈ 60.33	1.875 47.63	1.875 47.63	1.791 (NO-GO) 45.59	1.875 47.63
2 ⁷ / ₈ 73.03	2.313 58.75	2.313 58.75	2.205 (NO-GO) 56.01	2.313 58.75
3 ¹ / ₂ 88.90	2.750 69.85	2.750 69.85	2.635 (NO-GO) 67.72	2.813 71.45
3 ¹ / ₂ 88.90	2.812 71.42	2.812 71.42	2.660 (NO-GO) 67.56	2.812 71.42

"MF" & "MR" LANDING NIPPLE



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Model MF & MR Landing Nipples

The "MF" Nipple is a top NO-GO or selective nipple which provides for the location of various wireline flow control devices in the production string. Be sure to consider carefully the location and number of the model "MF" seating nipple to provide maximum versatility in the positioning of the various flow control accessories. Model "MF" nipple may be used in the following applications:

- Land blanking plugs to shut in well or test the production tubing
- Land velocity type safety valves
- Land equalizing check valves
- Land chokes to reduce surface flowing pressures
- Land instrument hangers with geophysical such as pressure and temperature recorders.

Features of Model MF Landing Nipple

- Accept selective or top NO-GO locks
- Honed internal sealing bore for maximum sealing capacities
- Locking groove/no-go shoulder combination above seal bore
- All premium threads available

The "MR" Nipple is a bottom NO-GO seating nipple which allows for location of various flow control devices in the production string. "MR" Nipple can be used in the above applications and has restricted I.D. catches tools dropping out of the tubing and being lost





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Features of Model MR Landing Nipples

- Honed internal sealing bore for maximum sealing capacities
- Locking groove/NO-GO shoulder combination above seal bore
- All premium threads available

SPECIFICATIONS				
Tubing Size (in./mm.)	"MF"		"MR"	
	Min. Nipple I.D. (in./mm)	Packing Bore (in./mm)	Min. Nipple I.D. (in./mm)	Packing Bore (in./mm)
1.900 48.26	1.500 38.10	1.500 38.10	1.447 (NO-GO) 36.75	1.500 38.10
2 ³ / ₈ 60.33	1.781 45.24	1.781 45.24	1.728 (NO-GO) 43.89	1.781 45.24
	1.812 46.02	1.812 46.02	1.760 (NO-GO) 44.70	1.812 46.02
	1.875 47.63	1.875 47.63	1.822 (NO-GO) 46.28	1.875 47.63
2 ¹ / ₂ 73.03	2.250 57.15	2.250 57.15	2.197 (NO-GO) 55.80	2.250 57.15
	2.312 58.72	2.312 58.72	2.259 (NO-GO) 57.37	2.312 58.72
2 ⁷ / ₈ 88.90	2.750 69.85	2.750 69.85	2.697 (NO-GO) 68.50	2.750 69.85
	2.812 71.42	2.812 71.42	2.759 (NO-GO) 70.07	2.812 71.42

**"MXO" "MXA" & "MXD"
CIRCULATING SLEEVE**



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Model MXO & MXA Circulating Sleeve

The "MXO" circulating sleeve is a downhole flow control device mounted in the production tubing. It effectively controls the flow between the tubing and the casing annulus by means of internal sleeve that is opened and closed by standard wireline methods.

Features:

- Dependable, simple, quick
- Features a nipple profile above and a packing bore above and below the communication ports
- Ports can be closed without leaving any obstructions in the tubing once the shifting operation is completed
- The Model "B" shifting tool is used to open (jarring down) or close (jarring up) the "MXO" circulating sleeve
- All premium threads available



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“MXA” Circulating Sleeve

“MXA” circulating sleeve is a downhole flow control device as the “MXO” circulating sleeve. The difference is that the model “B” shifting tool is used to open (jarring up) or close (jarring down) the “MXO” circulating sleeve.

“MXD” Circulating Sleeve

“MXD” circulating sleeve is a downhole flow control device as the “MXO” circulating sleeve. The difference is that it has a larger communication port area than “MXO” circulating sleeve.

SPECIFICATIONS				
Tubing OD (in./mm)	2 $\frac{3}{8}$ 60.33	2 $\frac{7}{8}$ 73.03	3 $\frac{1}{2}$ 88.90	3 $\frac{1}{2}$ 88.90
Seal Bore (in./mm)	1.875 47.63	2.313 58.75	2.750 69.85	2.812 71.42
Max OD (in./mm)	3.093 78.56	3.750 95.25	4.500 114.30	4.500 114.30



“ML” CIRCULATING SLEEVE



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Model ML Circulating Sleeve

"ML" Circulating Sleeve is a downhole flow control device mounted in the production tubing to provide communication between the tubing and casing annulus.

Features:

- Dependable, simple, quick
- Features a nipple profile above and a packing bore above and below the communication ports
- Ports can be closed without leaving any obstructions in the tubing once the shifting operation is completed
- The Model "D-2" Shifting Tool is used to open (jarring down) the "ML" Circulating Sleeve
- All premium threads available



ML

SPECIFICATIONS										
Tubing Size (in./mm)	2 3/8 60.33			2 7/8 73.03		3 1/2 88.90		4 1/2 114.30		
Seal Bore (in./mm)	1.781 45.25	1.812 46.02	1.875 47.63	2.250 57.15	2.313 58.75	2.750 699.85	2.812 71.42	3.688 93.68	3.750 95.25	3.812 96.82

**"MPX" & "MPXN" BYPASS
BLANKING PLUG**



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Model MPX Plug

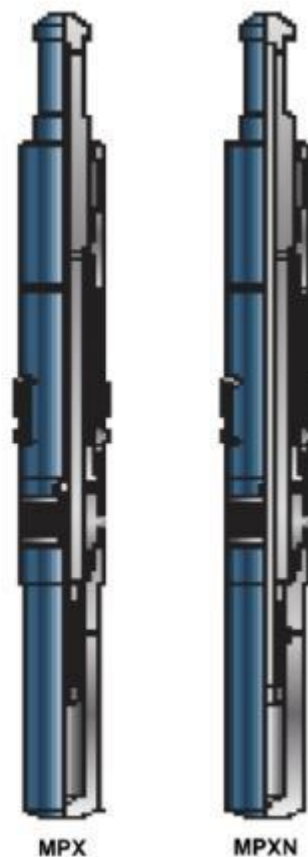
MPX plug is a selective device capable of holding pressure differentials from above or below when set at any "MX" profile nipple of the same size. Available in L-80 and 9 Chrome materials.

MPX SPECIFICATION GUIDE			
Profile Size (in./mm)	1.875 45.90	2.313 58.74	2.750 69.85
Max OD (in./mm)	1.875 47.50	2.307 58.60	2.750 69.85

Model MPXN Plug

MPXN plug is non-selective device capable of holding pressure differentials from above or below when set at any MXN profile nipple of the same size. Available in L-80 and 9-Chrome materials.

MPXN SPECIFICATION GUIDE			
Profile Size (in./mm)	1.875 47.63	2.313 58.75	2.750 69.85
Max OD (in./mm)	1.875 47.50	2.307 58.60	2.750 69.85



**“MFWG” & “MRZG” BYPASS
BLANKING PLUG**



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MFWG



MRZG



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Model MFWG Bypass Blanking Plug

The Model MFWG Bypass Blanking Plug is a Top NO-GO wireline retrievable tubing plug, which can be landing in the matched "MF" Landing Nipple. It is designed with a Removable Mandrel for equalizing pressures. The Removable Mandrel is held in the Bypass position by the running tool, to allow fluid Bypass when landing in the seating nipple. When the plug is locked into the desired Seating Nipple, the Removable Mandrel is shifted and locked to close the Bypass Ports. To equalize, a standard wireline pulling tool latches on to and retrieves the Removable Mandrel. After the pressures have been equalized through the Bypass Ports, the plug may be retrieved with a standard pulling tool and proper probe.

Model MRZG Bypass Blanking Plug

The Model MRZG Bypass Blanking Plug is a Bottom NO-GO wireline retrievable plug. It can be landing in the "MR" Landing Nipple. It's working theory and operating is same as the model "MFWG" Bypass Blanking Plug.



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SPECIFICATIONS					
Tubing Size (in./mm)	Packing Size (in./mm)	Size (in./mm)		Max. OD (in./mm)	
		MFWG	FRZG	MFWG	FRZG
1.900 48.26	1.500 38.10	1.500 38.01		1.552 39.42	1.490 37.85
2 ³ / ₈ 60.33	1.781 45.24	1.781 45.24		1.865	1.771 44.98
	1.812 46.02	1.812 46.02		47.37	1.802 45.77
	1.875 47.62	1.875 47.62		1.928 48.97	1.865 47.37
	2.250 57.15	2.250 57.15		2.302 58.47	2.240 56.90
2 ⁷ / ₈ 73.03	2.312 58.72	2.312 58.72		2.365 60.07	2.302 58.47
	2.750 69.85	2.750 69.85		2.802 71.17	2.740 69.60
3 ¹ / ₂ 88.90	2.812 71.42	2.812 71.42		2.865 72.77	2.802 71.17

* other size on request.

“MFSG” BYPASS BLANKING PLUG



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MFSG



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Model MFSG Bypass Blanking Plug

The Model MFSG Bypass Blanking Plug is a selectively wireline retrievable tubing plug that is designed with a removable mandrel for equalizing pressures. It can be landing in the matched "MF" Landing Nipple. The removable mandrel is held in the bypass position by the running tool, to allow fluid bypass when running through several of the same size nipples. When the plug is locked into the desired seating nipple, the removable mandrel is shifted and locked to close the bypass ports. To equalize, a standard wireline pulling tool latches onto and retrieves the removable mandrel. After the pressures have been equalized through the bypass ports, the plug may be retrieved with a standard pulling tool and proper probe.



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SPECIFICATIONS			
Tubing Size (in./mm)	Packing Size (in./mm)	Size (in./mm)	Max. OD (in./mm)
1.900 48.26	1.500 38.10	1.500 38.10	1.490 37.85
2 ³ / ₈ 60.33	1.781 45.24	1.781 45.24	1.771 44.98
	1.812 46.02	1.812 46.02	1.802 45.77
	1.875 47.62	1.875 47.62	1.865 47.37
2 ⁷ / ₈ 73.03	2.250 57.15	2.250 57.15	2.240 56.90
	2.312 58.72	2.312 58.72	2.302 58.47
3 ¹ / ₂ 88.90	2.750 69.85	2.750 69.85	2.740 69.60
	2.812 71.42	2.812 71.42	2.802 71.17

* Other size on request.

“MD-2” SHIFTING TOOL



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MD-2



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Model MD-2 Shifting Tool

The Model MD-2 Shifting Tool is a wireline operated tool used to open and close the Model "ML" Circulating Sleeve. Any number of sleeves, of the same size, in a single tubing string can be shifted in any combination or in any sequence.

Features:

- The Automatic Locating Collet. On the tool positively notifies the operator when the desired sleeve is reached. Running through two consecutive seal bores located two feet apart, indicates a sleeve
- Running through only one seal bore indicates a landing nipple
- Proof of Sleeve Shift. After completing a shift, an attempt to repeat the operation will give a surface indication that the shift was performed
- Safety Release. If the sleeve is opened in the presence of a differential pressure in favor of the annulus, the release mechanism is held inoperative by flow until the pressures equalize
- Emergency Release. The Shifting Tool has a shear pin release mechanism below the shifting Dogs for emergency release
- Deliberate Release. Even after the Shifting Tool is seated in a sleeve, it can be released without shifting the sleeve
- Open/Close Sequence. Upward jarring opens the sleeve. This allows the use of Hydraulic or Mechanical jars. Run in the inverted position, the tool will close the sleeve with downward jarring
- At least 6 feet, without restrictions, should be provided below the sleeve



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SPECIFICATIONS			
Tubing Size (in.)	Size (in./mm)		Pin THD
2 ³ / ₈	1.781	45.24	0.937OD. 10N THD
	1.812	46.02	
	1.875	47.63	
2 ⁷ / ₈	2.250	57.15	
	2.313	58.75	
3 ¹ / ₂	2.750	69.85	1.062OD. 10N THD
	2.812	71.42	
4 ¹ / ₂	3.688	93.68	
	3.750	95.25	
	3.812	96.82	

*Other size on request

“MBS” & “MBP” SHIFTING TOOL

MODEL MBS & MBP SHIFTING TOOL

The Model “MB” Shifting Tool is a wireline operated tool used to open and close the circulating sleeve.

The Model “MBS” Shifting Tool has selective keys, which require you to shear the pin in the shifting tool before releasing. After the tool is released, it will not engage any more sleeves.



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The model "MBP" Shifting Tool has positive keys, which can be self-release from the sleeve after shifting. After the tool is released, they also can engage sleeve traveled in the hole.

Features:

- Dependable, simple, quick
- Features a nipple profile above and a packing bore above and below the communication ports
- Ports can be closed without leaving any obstructions in the tubing once the shifting operation is completed
- The Model "D-2" Shifting Tool is used to open (jarring down) the "ML" Circulating Sleeve
- All premium threads available

SPECIFICATIONS		
Tubing Size (in./mm)	Size (in./mm)	Packing Size (in./mm)
2 3/8 60.33	1.812 46.02	1.812 46.02
	1.875 47.63	1.875 47.63
2 7/8 73.03	2.313 58.75	2.250 57.15 2.313 58.75
	2.562 65.07	2.562 65.07
3 1/2 88.90	2.812 71.42	2.750 69.85 2.812 71.42



MB



Selective Key



Positive Key