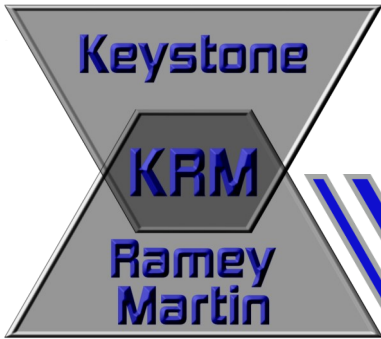
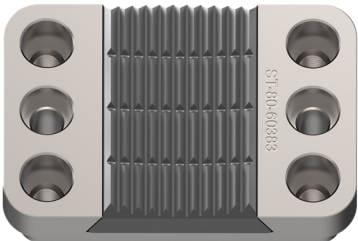
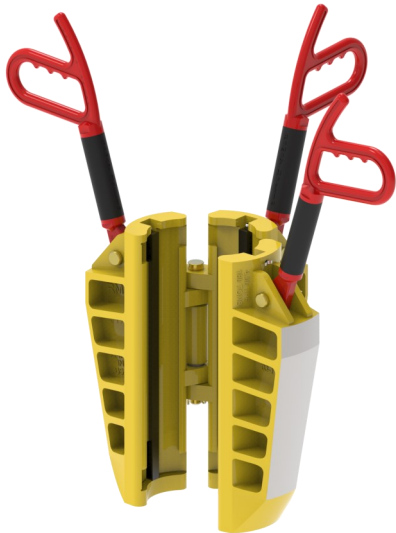
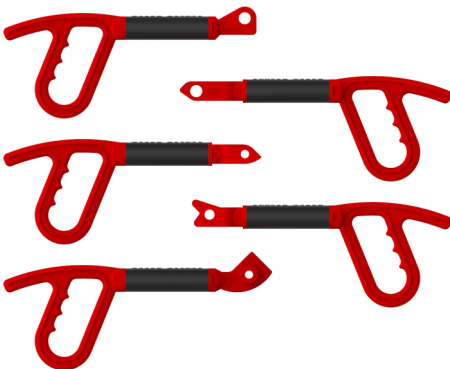
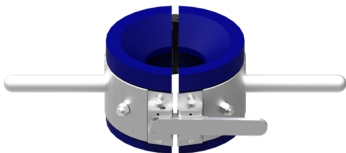
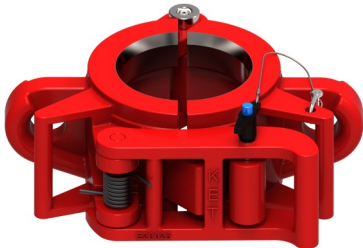
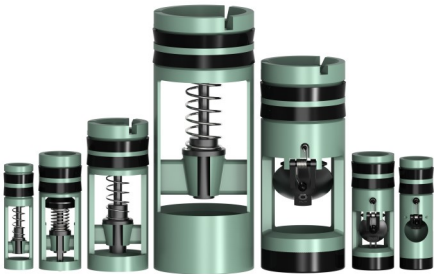
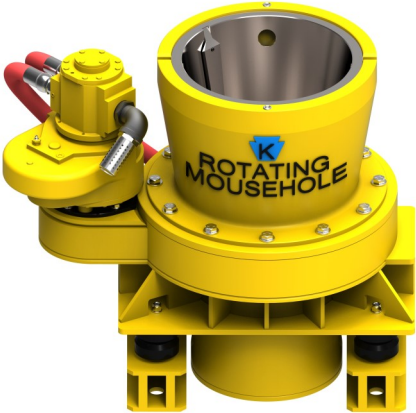




We Respond with Knowledge and Products, **On Time.**

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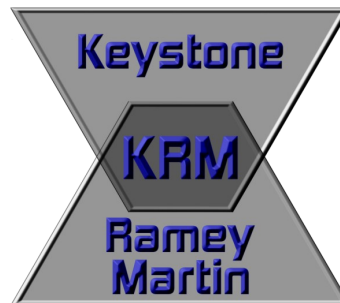
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# ABOUT US



**Keystone Ramey Martin (KRM)** was founded in 2015 as a distribution center for tools manufactured by Keystone & Ramey Martin.

## A Strategic Vision

KRM was a joint vision of the founders of Keystone Energy Tools and Ramey Martin Energy Tools, Joe Ramey, Jake Ramey, and Mark St. Martin. They envisioned offering inventory from both companies in strategic locations to better serve you.

## Providing Unsurpassed Customer Service

KRM exist to serve customers in the O&G Industry with unsurpassed quality and service, and tools Made In the U.S.A.

## Timing is Critical

KRM knows that "Timing is Critical". In the O&G Industry "Timing is Everything." Understanding this was the impetus for founding KRM. Both Keystone and Ramey Martin both understand this principle. KRM aims to service you with same-day deliveries.

## Equipped with Expertise and Product Knowledge

KRM provides knowledge, experience, and incomparable service; a trio rarely found among tool manufacturers today.

# TERMS AND CONDITIONS

## INTERPRETATION:

"Seller" means (KRM) Keystone Ramey Martin, LLC.

"Buyer" means the Purchaser of goods from the Seller.

"Goods" means all goods sold and/or delivered by the Seller to the Buyer.

"Terms" means these Terms and conditions of sale.

**APPLICATION** – These Terms apply to all Contracts for the sale of Goods by the Seller. No amendment, alteration, waiver, or cancellation of these Terms is binding on the Seller unless confirmed by the Seller in writing. The Buyer acknowledges that no employee or agent of the Seller has any right to make any representation, warranty or promise in relation to the Goods or the sale of the Goods other than as contained in these Terms.

**PRICING** – Prices are in US dollars and valid for 30 days from time of quote. All prices are confirmed at time of order. Any "Goods" quoted with special pricing are subject to change without notice.

**PAYMENT** – Payment terms are Net 30 from date of invoice unless otherwise stated. If the financial condition of the Buyer results in the insecurity of the Seller, in its sole and unfettered discretion, as to the ultimate collectability of the purchase price, Seller may, without notice to Buyer, delay or postpone the delivery of the Goods; and Seller, at its option, is authorized to change the terms of payment. In the event of default by Buyer in the payment of the purchase price or otherwise, of this or any other order, Seller, at its option, without prejudice to any other of Seller's lawful remedies, may defer delivery, cancel this Contract, or sell any undelivered products on hand for the account of Buyer and apply such proceeds as a credit, without set-off or deduction of any kind, against the Contract purchase price, and Buyer agrees to pay the balance then due to Seller on demand. Buyer agrees to pay all costs, including, but not limited to, reasonable attorney and accounting fees and any other expenses of collection resulting from any default by Buyer in any of the terms hereof.

**TAXES AND OTHER CHARGES** – Any use tax, sales tax, excise tax, duty, custom, inspection or testing fee, or any other tax, fee or charge of any nature whatsoever imposed by any governmental authority, on or measured by the transaction between Seller and Buyer shall be paid by Buyer in addition to the prices quoted or invoiced. In the event Seller is required to pay any such tax, fee or charge, Buyer shall reimburse Seller therefore; or, in lieu of such payment, Buyer shall provide Seller at the time the order is submitted an exemption certificate or other document acceptable to the authority imposing the tax, fee or charge.

**RETURNS** – Goods may not be returned for credit except with Seller's permission. Special order Goods may not be returned for credit. Any Goods returned may be subject to a 20% restocking charge and must be returned within 60 days of purchase. Credit for returned Goods shall be issued only after the Goods have been inspected by the Seller. Goods must be in the original condition at the time of sale to be considered for credit. Any Goods not accepted shall be returned to the Buyer at Buyer's expense. Any cost incurred for the return of rejected Goods shall be invoiced to the Buyer and subject to these terms and conditions. Defective or nonconforming Goods shall be replaced without charge or a refund of the purchase price shall be issued. Seller shall not in any event be liable for incidental, consequential or special damages of any kind resulting from improper use of Goods.

# TERMS AND CONDITIONS

**FORCE MAJEURE** – The Seller will not be liable for any breach of contract due to any matter or thing beyond the Buyer's control including, but not limited to, transport stoppages, transport breakdown, fire, flood, hurricane, tornado, earthquake, acts of God, strikes, lock-outs, work stoppages, wars, riots or civil commotion, intervention or public authority, explosion or accident.

**QUOTATIONS** - All quotations are in US dollars and are F.O.B. Company's point of manufacturing origin, unless otherwise expressly stipulated. Quotations are for immediate order unless a period for acceptance is otherwise stated. Lighter age, wharf age or landing charges, dues, duties or any other charges at destination are not included in quotations or indicated by list prices unless specifically stipulated. List price and discounts on all products are subject to change without notice. Prices in effect at time of shipment or delivery whether higher or lower, will prevail.

**SHIPPING WEIGHT** - All weights listed are approximate net weight only, unless otherwise specified, and do not include boxing. For approximate gross weight add 10% to net weight.

**WARRANTY** – Keystone Energy Tools and Ramey Martin Energy Tools warrants goods of our manufacture for twelve (12) months after date of shipment to be free from any defects in material and workmanship under normal use and service when installed, used and serviced in the manner provided and intended by Keystone Energy Tools and Ramey Martin Energy Tools. Our obligation under this warranty is limited to repair or replacement, at its option, if any products manufactured by Keystone Energy Tools and Ramey Martin Energy Tools are returned F.O.B. our plant and which we determine to be defective.

## CERTIFICATION

Complete operations manual, including material certification and test documentation, are available on all equipment sold by (KRM) Keystone Ramey Martin, LLC.

## PULL & LOAD TESTING

Elevators, Spiders, and Tongs are proof load tested prior to shipment.  
Load test certificates are supplied with each qualified equipment.

## INTERCHANGEABILITY

Slips, Elevators, Tongs, Spiders, Safety Clamps & Kelly Bushings are interchangeable with most other corresponding designs.

## INVENTORY

We strive to maintain a full inventory of complete assemblies and replacement parts. Most orders can be shipped same day from stock.

# FLOAT VALVE OVERVIEW

## Valve Body

Keystone cages are manufactured for today's increasingly harsh drilling environment. All cages are cast out of alloy steel and are heat treated to a hardness equal to or less than 22 Rockwell C ( $\leq 22$  Rockwell C 2 HR) to address the corrosive effects of hydrogen-sulfide gas ( $H_2S$ ). Keystone's integral cages are manufactured from one-piece casting and are not welded together the way some other competitors produce their cages. This means that you receive a superior and more reliable cage.

\*Stainless steel cages are available upon request.

## Integral Plunger Valves

All of Keystone's plunger valves are machined from one solid piece of material to produce a more reliable float valve and reduce the risk of down hole valve failure. Other leading manufacturers use two separate pieces of material to construct their plungers, which are invariably either shrunk fit, screwed, or welded together.

## Flapper Valves

All Keystone standard-service flapper valves are made of low-alloy steel and then case hardened for wear resistance, thus giving a longer operating life.

## Elastomers

Available elastomers are nitrile butadiene (NBR, Buna-N) and Viton® (fluoroelastomer, FKM)( $H_2S$  Applications)

\*Standard Service Buna Nitrile (212 Deg F) Temperature Rating

\*Hi-Temp Viton (450 Deg F) Temperature Rating

\* $H_2S$  Service Viton (450 Deg F) Temperature Rating

\*Hi-Temp  $H_2S$  Viton (450 Deg F) Temperature Rating

## Springs

Elgiloy, Inconel® or stainless steel springs come standard on all our valves. These high alloy springs are good for sour gas ( $H_2S$ ) applications and are significantly more resistant to corrosion when compared with the standard-service springs provided by most other manufacturers.

## Interchangeability

All Keystone drill-pipe float valves and replacement parts are manufactured to standard industry dimensions and are interchangeable with other major manufacturers' parts.

## Sour-Gas ( $H_2S$ ) Service

Available in both F and G models.

## Operating Pressure

Standard valves - 7,500 PSI working pressure

High pressure stainless steel valves - 10,000 PSI working pressure

**Note:** If multiple Model G or Model F float valves are to be run in a string, it is **not** recommended that they be stacked. They should be separated to prevent the top valve from crushing. Coil tubing float valves may be stacked when they are run.

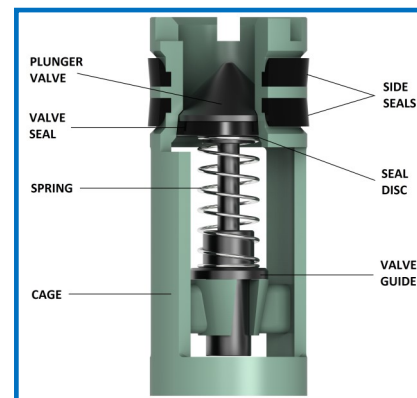
# KET PLUNGER-TYPE VALVES

## MODEL

**F**

## PLUNGER TYPE-STANDARD

The Model F is a plunger-type float valve that provides a positive instantaneous shut off, providing constant fluid control while drilling. The Model F is a reliable and economical selection under standard drilling operations

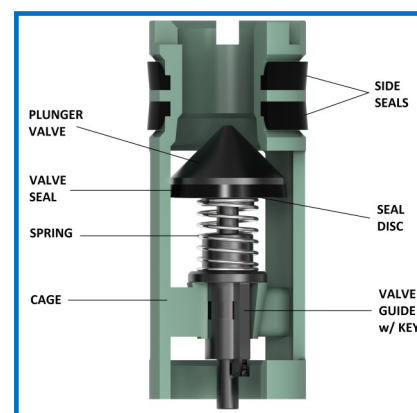


## MODEL

**FC**

## PLUNGER TYPE-AUTOMATIC FILL

The Model FC Automatic-Fill plunger-type float valve incorporates a unique key assembly and slotted valve stem to hold the plunger open during run in of the drill pipe and allows the pipe to fill from the bottom, saving time, reducing mess, and avoiding hazards. The plunger is automatically

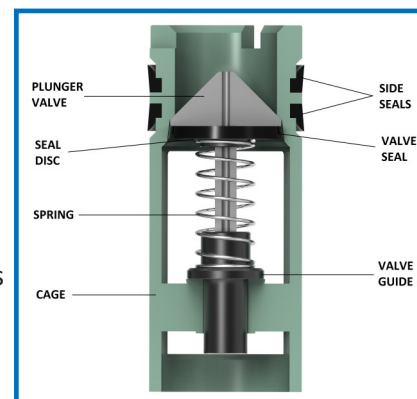


## MODEL

**FA**

## PLUNGER TYPE-PRESSURE MONITORING

The Model FA Pressure-Monitoring plunger-type float valve has a special port running through the plunger of the float valve. This valve is used when monitoring the bit head for gas pressure and



**FLOAT VALVE INSTALLATION:** Simply lubricate the side seals and slide the float valve into the cavity of the float sub or the bored-out drill collar. Caution: fill drill pipe regularly when going in the hole. Failure to do this can cause damage to the drill pipe and float valve.

**Note:** If multiple Model G or Model F float valves are to be run in a string, it is **not** recommended that they be stacked. They should be separated to prevent the top valve from crushing. Coil tubing float valves may be stacked when they are run.



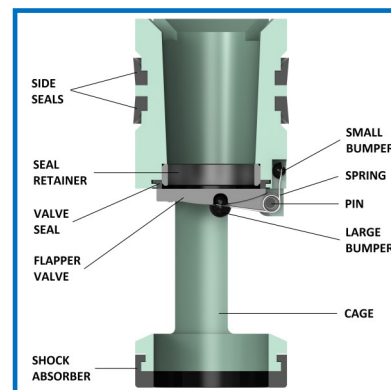
# KET FLAPPER-TYPE VALVES

## MODEL

**G**

### FLAPPER TYPE-STANDARD

The Model G is a flapper-type float valve that, when opened, offers an unobstructed bore through the float valve. The uniquely designed flapper closes rapidly to prevent shavings from entering the drill string when circulation stops and also assists primary BOP equipment in maintaining internal pressure control. The valve will fully open when the first joint is raised from the hole, preventing pulling wet joints.

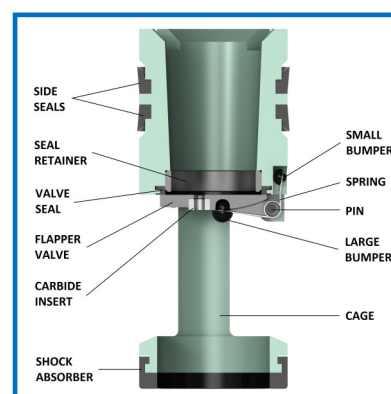


## MODEL

**GA**

### FLAPPER TYPE-PRESSURE MONITORING

The Model GA Pressure-Monitoring flapper-type float valve is indistinguishable from the Model G with the exception of a tungsten-carbide insert in the flapper valve. The insert has a quarter-inch orifice through the center that allows for differential pressure monitoring. The orifice also allows for partial automatic filling of the drill pipe during run in.

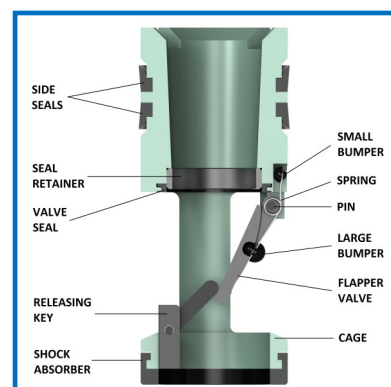


## MODEL

**GC**

### FLAPPER TYPE-AUTOMATIC FILL

The Model GC Automatic-Fill flapper-type float valve incorporates a unique self-releasing key assembly that holds the flapper partially open during run in, allowing the pipe to fill from the bottom. This eliminates the need for filling the drill pipe from the top, saving time and money. The valve will fully open when the first joint is raised from the hole, preventing pulling wet joints while avoiding the environmental and safety risks related to having mud on the rig floor. The valve can be run with the automatic-fill option or in the standard, closed position.

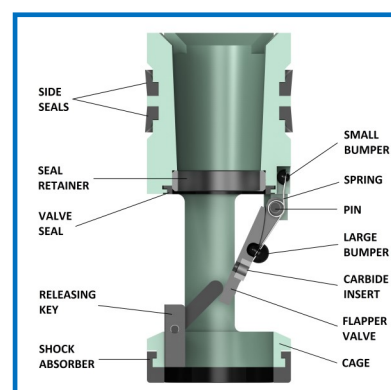


## MODEL

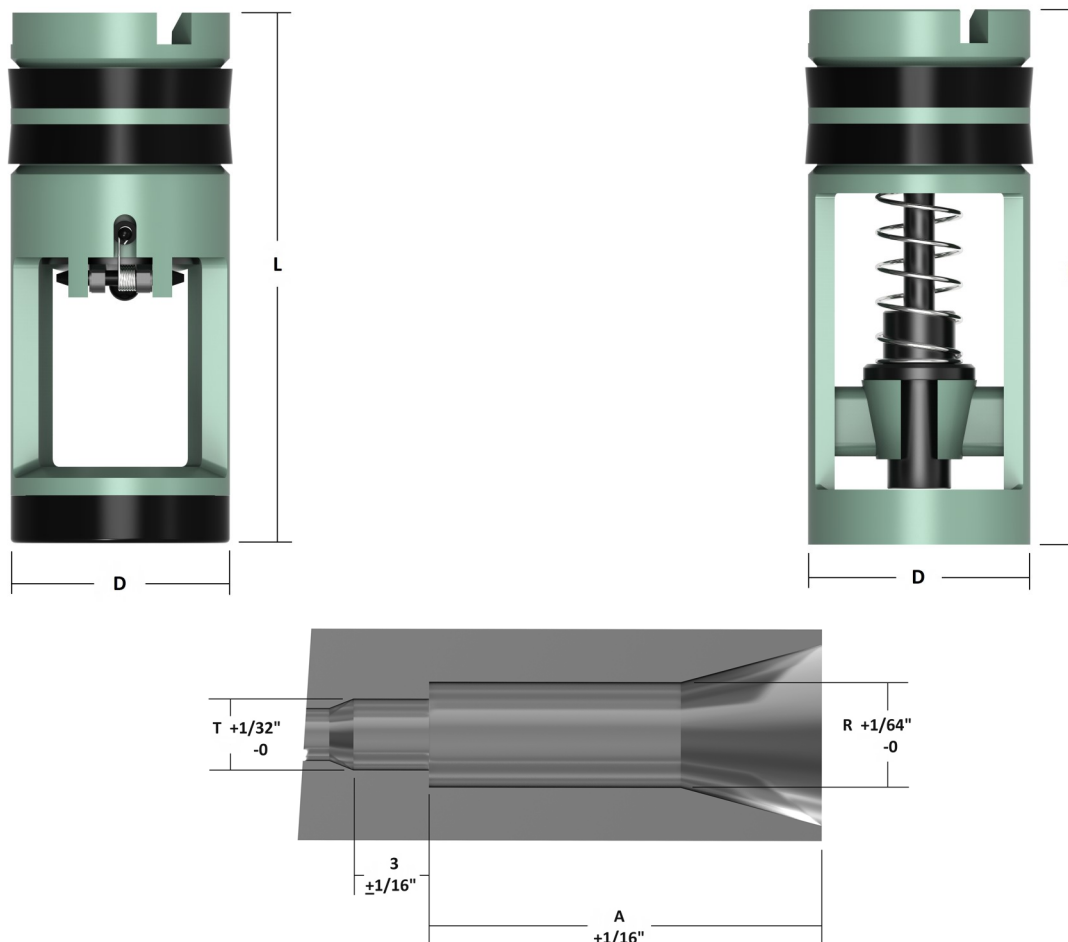
**GCA**

### FLAPPER TYPE-AUTO FILL PRESSURE MONITORING

The Model GCA Automatic-Fill/Pressure-Monitoring flapper-type float valve includes all the advantages of the Models G, GC, and GA. An unobstructed bore through the float valve, when open, permits automatic partial filling of the drill pipe from the bottom and measuring differential pressures when necessary.



## KET DIMENSIONAL DATA



$A = L$  (Length of Float Valve) + Length of Tool Joint Pin +  $1/4$ " Clearance

| Valve Size | D<br>Diameter of Valve | R<br>( $D + 1/32$ ")<br>Diameter Recess F/<br>Valve | L<br>Valve Length | T*<br>Baffle Plate<br>Recess Diameter | Valve I.D.<br>Model F | Valve I.D.<br>Model G |
|------------|------------------------|-----------------------------------------------------|-------------------|---------------------------------------|-----------------------|-----------------------|
| 1R         | 1-21/32"               | 1-11/16"                                            | 5-7/8"            | 1-5/16"                               | 1"                    | N/A                   |
| 1F-2R      | 1-29/32"               | 1-15/16"                                            | 6-1/4"            | 1-1/2"                                | 1-1/4"                | 1"                    |
| 2F-3R      | 2-13/32"               | 2-7/16"                                             | 6-1/2"            | 1-29/32"                              | 1-9/16"               | 1-1/4"                |
| 3F         | 2-13/16"               | 2-27/32"                                            | 10"               | 2-7/16"                               | 1-7/8"                | 1-5/8"                |
| 3.5IF      | 3-1/8"                 | 3-5/32"                                             | 10"               | 2-11/16"                              | 1-7/8"                | 1-5/8"                |
| 4R         | 3-15/32"               | 3-1/2"                                              | 8-5/16"           | 2-15/16"                              | 2-5/16"               | 1-31/32"              |
| 4F         | 3-21/32"               | 3-11/16"                                            | 12"               | 3-1/4"                                | 2-1/2"                | 2-3/16"               |
| 5R         | 3-7/8"                 | 3-29/32"                                            | 9-3/4"            | 3-3/8"                                | 2-3/4"                | 2-1/4"                |
| 5F-6R      | 4-25/32"               | 4-13/16"                                            | 11-3/4"           | 4-9/32"                               | 3-1/4"                | 2-7/8"                |
| 6F         | 5-11/16"               | 5-23/32"                                            | 14-5/8"           | 5-3/16"                               | 4-1/8"                | N/A                   |

\* Disregard if this diameter is the same or smaller than the standard tool joint I.D.

# KET TOOL JOINT SPECIFICATION

| TOOL JOINT TYPES                       | MODEL SIZES    |               |         |           |        |                |         |                 |                 |         |
|----------------------------------------|----------------|---------------|---------|-----------|--------|----------------|---------|-----------------|-----------------|---------|
|                                        | 1R             | 1F-2R         | 2F-3R   | 3F        | 3.5IF  | 4R             | 4F      | 5R              | 5F-6R           | 6F      |
| API REGULAR                            | 2-3/8"         | 2-7/8"        | 3-1/2"  |           |        | 4-1/2"         |         | 5-1/2" 5-9/16"* | 6-5/8" 7-5/8"   | 8-5/8"  |
| HUGHES OR REED ACME                    | 2-3/8"         | 2-7/8"        | 3-1/2"  |           |        | 4-1/2"         |         | 5-1/2" 5-       | 6-5/8"          |         |
| UNION TOOL                             | 2-3/8"         | 2-7/8" 3-1/2  |         |           |        |                | 4-1/2"  | 5-1/2" 5-9/16"* | 6-5/8"†         |         |
| HUGHES OR REED DOUBLE STREAMLINE       |                | 2-7/8" 2-3/8" | 3-1/2"  | 4" 4-1/2" |        |                | 5"      | 5-1/2" 5-9/16"* |                 |         |
| API FULL HOLE                          |                | 2-3/8"        | 2-7/8"  | 3-1/2"    | 4"     | 4-1/2"         | 4-1/2"* |                 |                 | 6-5/8"* |
| REED ACME FULL HOLE                    |                |               |         | 3-1/2"*   |        |                | 4-1/2"* |                 | 5-1/2" 5-9/16"* |         |
| HUGHES ACME STREAMLINE                 |                | 2-3/8"        | 2-7/8"  | 3-1/2" *  |        |                | 4-1/2"* |                 | 5-1/2" 5-9/16"* |         |
| HUGHES XTRA HOLE                       |                |               | 2-7/8"  | 3-1/2"    |        |                | 4-1/2"  | 5"              | 5-1/2" 5-9/16"* |         |
| REED SEMI-INTERNAL FLUSH               |                |               | 2-7/8"  | 3-1/2"    |        |                | 4-1/2"  | 5"              |                 |         |
| API INTERNAL FLUSH                     |                | 2-3/8"        | 2-7/8"  |           | 3-1/2" |                | 4"      | 4-1/2"*         |                 |         |
| HYDRIL TYPE IF (INT. FLUSH EXT. UPSET) |                | 2-3/8"*       | 2-7/8"* | 3-1/2"*   |        |                |         | 4-1/2"          | 5"              |         |
| HYDRIL EIU (EXT. INT. UPSET)           |                |               |         | 3-1/2"    |        | 4"             | 4-1/2"  |                 | 5-1/2" 5-9/16"* | 6-5/8"  |
| HYDRIL TYPE F (EXT. FLUSH)             | 2-7/8" 3-1/2"* |               |         | 4-1/2" 5" |        | 5-1/2" 5-9/16" |         | 6-5/8"          |                 |         |
| HUGHES EXT. FLUSH ACME                 |                | 3-1/2"        | 4-1/2"  |           |        | 5-1/2" 5-9/16" |         | 6-5/8"          |                 |         |
| HUGHES EXT. FLUSH FULL HOLE            |                |               |         | 4-1/2"    |        |                |         |                 |                 |         |

\* Indicates that the float subs id these sizes have a smaller ID. † Indicates interchangeability. Models G and GA, are available in sizes 1F-2R thru 5F-6R. Models GC and GCA are available in sizes 2F-3R thru 5F-6R. Models F and FA are available in all sizes. Model FC is available in sizes 2F-3R thru 6F.

## BIT AND SHANK SIZES

| Bit Size (in.)                | 3-1/4 | 3-3/8 | 4-1/2 | 4-3/4 | 5-1/2 | 6     | 6-1/8 | 6-1/4 | 6-1/2 | 6-3/4 | 7-1/8 | 8-1/4 | 8-1/2 | 8-3/4 | 9-1/2 | 9-3/4 | 10-1/2 | 11    | 12-1/4 | 13-1/2 | 20    | 24    | 25    |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|-------|-------|-------|
| Std. API Pin Shank Size (in.) | 2-3/8 | 2-3/8 | 2-3/8 | 2-7/8 | 3-1/2 | 3-1/2 | 3-1/2 | 3-1/2 | 3-1/2 | 3-1/2 | 4-1/2 | 4-1/2 | 4-1/2 | 4-1/2 | 6-5/8 | 6-5/8 | 6-5/8  | 6-5/8 | 6-5/8  | 6-5/8  | 7-5/8 | 7-5/8 | 7-5/8 |

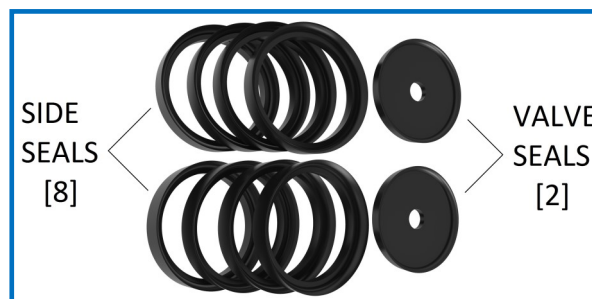
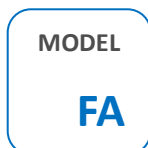
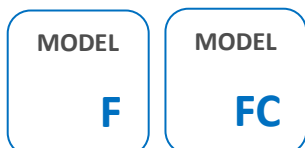
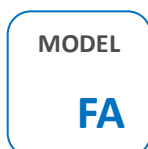
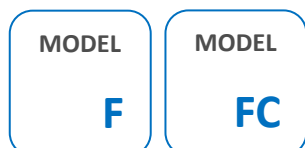
## KET BIT SUB INFORMATION

| VALVE SIZE | THREAD SIZE | TOOL JOINT TYPE  | STANDARD OD | FACE TO SHOULDER<br>OR FACE TO FACE |
|------------|-------------|------------------|-------------|-------------------------------------|
| 1R         | 2-3/8"      | API REGULAR      | 3-1/8"      | 18"                                 |
| 1F-2R      | 2-7/8"      |                  | 3-3/4"      | 20"                                 |
| 2F-3R      | 3-1/2"      |                  | 4-1/4"      | 20"                                 |
| 4R         | 4-1/2"      |                  | 5-1/2"      | 24"                                 |
| 5R         | 5-1/2"      |                  | 6-3/4"      | 28"                                 |
| 5F-6R      | 6-5/8"      |                  | 7-3/4"      | 30"                                 |
| 5F-6R      | 7-5/8"      |                  | 8-7/8"      | 30"                                 |
| 6F         | 8-5/8"      |                  | 10"         | 30"                                 |
| 3F         | 3-1/2"      | API FULL HOLE    | 4-5/8"      | 24"                                 |
| 3.5 IF     | 4"          |                  | 5-1/4"      | 24"                                 |
| 4F         | 4-1/2"      |                  | 5-3/4"      | 28"                                 |
| 5F-6R      | 5-1/2"      |                  | 7"          | 30"                                 |
| 6F         | 6-5/8"      |                  | 8"          | 30"                                 |
| 1F-2R      | 2-3/8"      | API IF           | 3-3/8"      | 18"                                 |
| 2F-3R      | 2-7/8"      | API IF BOX X PIN | 4-1/8"      | 20"                                 |
| 3.5 IF     | 3-1/2"      | API IF           | 4-3/4"      | 24"                                 |
| 4F         | 4"          |                  | 5-3/4"      | 28"                                 |
| 5R         | 4-1/2"      |                  | 6-3/8"      | 28"                                 |
| 5F-6R      | 5-1/2"      |                  | 7-3/8"      | 30"                                 |
| 6F         | 6-5/8"      |                  | 8-3/4"      | 30"                                 |

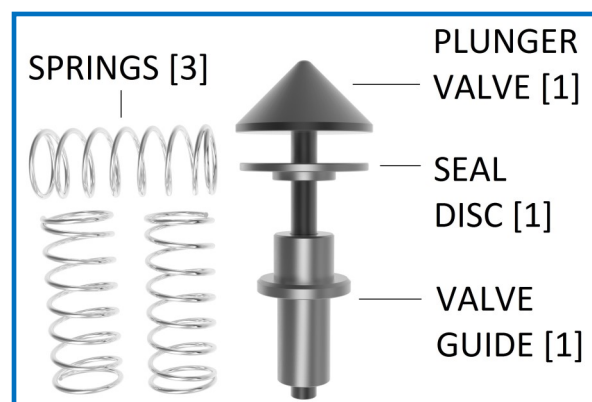
The information guide above is for reference purposes only. Please use appropriate API specifications when manufacturing these subs.

# KET FLOAT VALVE REPAIR KITS

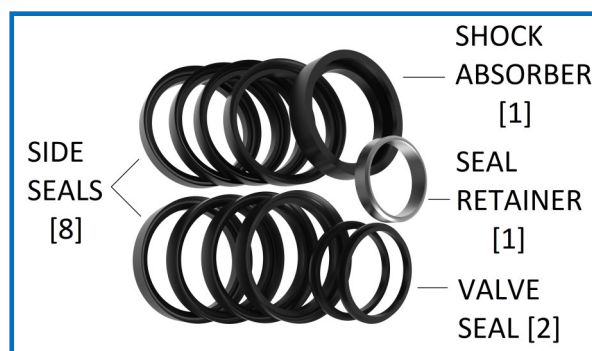
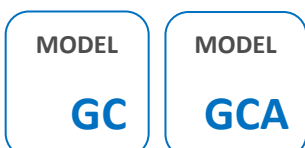
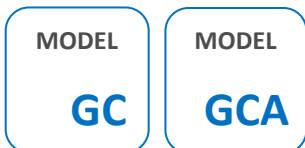
## RUBBER REPAIR KIT F



## METAL REPAIR KIT F



## RUBBER REPAIR KIT G



## METAL REPAIR KIT G



# KET VALVE PULLERS

MODEL

F

MODEL

FC

## MODEL F (TOP) PULLER

The model F valve (top) puller is designed to remove float valves from the top of the sub. Simply squeeze the forks together and press against the head of the valve plunger. Once the forks are engaged with the cage the valve can be pulled. Disengage by sliding the separator away from the valve and squeezing the forks together and the puller can be removed.



MODEL

FA

MODEL

F

MODEL

FC

## MODEL F (BOTTOM) PULLER

The Model F Valve Puller makes easy work of removing stuck or tight float valves from the sub or drill collar. Simply engage the special catch into the bottom of the float valve, rotate 90°, and then simply slide the bumper into the stop and the float valve is removed.

**Note:** when using the puller to remove a Model FC valve, special care must be taken when engaging the catch so that it does not make contact with the releasing key.



MODEL

FA

MODEL

G

MODEL

GA

## MODEL G PULLER

The Model G Valve Puller is dual-purpose tool. In addition to removing tight or stuck float valves from subs or drill collars, it assists in removing and installing the seal-retaining ring when changing out the valve seal.



MODEL

GC

MODEL

GCA

# DUAL FLAPPER FLOAT VALVES

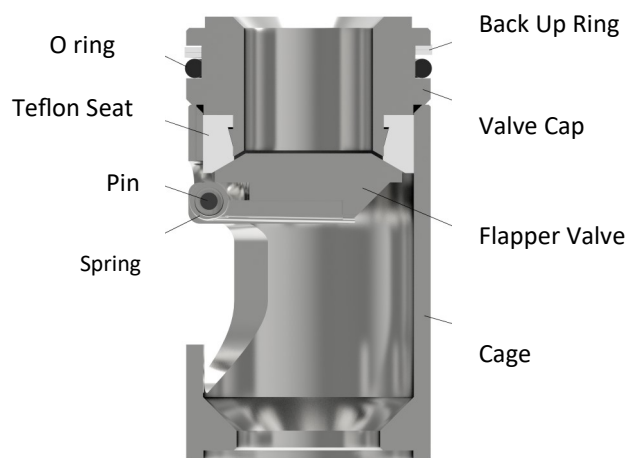
MODEL

CTFV

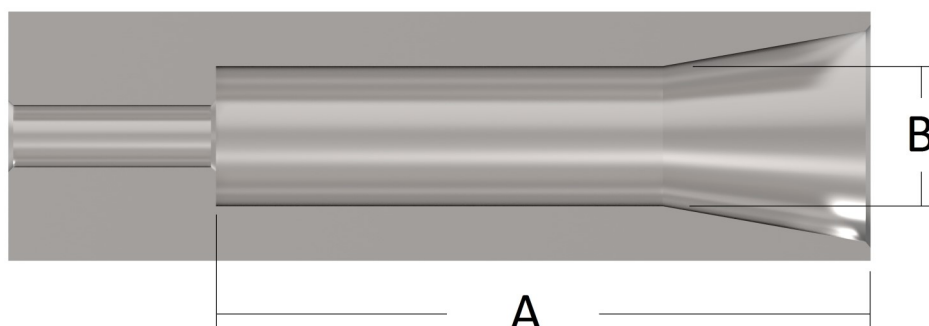
## FLAPPER VALVE F/ DUAL FLAPPER CHECK VALVE

| SIZE          | ASSEMBLY  | WEIGHT (lbs) | O.D    | I.D    | LENGTH EA. | STACKED LENGTH | SUB I.D/ B | SUB I.D/ A |
|---------------|-----------|--------------|--------|--------|------------|----------------|------------|------------|
| 1"            | 480111100 | 1.00         | .990"  | .560"  | 3.000"     | 5.875"         | 1.000"     | 5.886"     |
| 1 5/16"       | 480111400 | 1.10         | 1.305" | .688"  | 2.375"     | 4.690"         | 1.313"     | 4.705"     |
| 1 1/2"        | 480111500 | 1.22         | 1.490" | .810"  | 2.720"     | 5.380"         | 1.500"     | 5.405"     |
| 1 11/16"      | 480112100 | 1.45         | 1.680" | 1.020" | 2.720"     | 5.380"         | 1.688"     | 5.405"     |
| 1 7/8" /1F-2R | 480113100 | 1.6          | 1.900  | 1.000  | 3.940      | 7.880          | 1.910      | 7.905      |

- Cages, caps , and flappers are manufactured from heat-treated stainless steel.
- Elgiloy springs
- Viton elastomers.
- Working Pressure 10,000 PSI
- Stackable



$$A = SL \text{ (Stacked Length)} + \text{Length of Tool Joint Pin } +.063" \text{ } +.010 / -.000$$



# KET STANDARD SERVICE VALVES

**MODEL F**

## PLUNGER TYPE

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 1R     | 480131200 | 1.44         | 15929800         | 0.37         | 16012200          | 0.28         | N/A                 | N/A          | 911200                 | 12.4         |
| 1F-2R  | 480131422 | 1.68         | 16011300         | 0.47         | 16012300          | 0.35         | N/A                 | N/A          | 911200                 | 12.4         |
| 2F-3R  | 480132432 | 3.05         | 16011400         | 0.91         | 16012400          | 0.55         | 933600              | 4.26         | 912432                 | 12.65        |
| 3F     | 480133400 | 5.63         | 16011500         | 1.42         | 16012500          | 0.60         | 933600              | 4.26         | 913400                 | 13.05        |
| 3.5 IF | 480133600 | 7.08         | 16011500         | 1.42         | 16012600          | 0.94         | 933600              | 4.26         | 913400                 | 13.05        |
| 4R     | 480134200 | 7.3          | 16011700         | 2.25         | 16012700          | 1.09         | 934200              | 8.7          | 914200                 | 8.0          |
| 4F     | 480134400 | 9.9          | 16011800         | 2.95         | 16012800          | 0.88         | 934210              | 9.0          | 914400                 | 13.4         |
| 5R     | 480135200 | 10.58        | 16011900         | 3.68         | 16012900          | 1.0          | 934225              | 8.7          | 914400                 | 13.4         |
| 5F-6R  | 480135462 | 18.01        | 16012000         | 4.910        | 16013000          | 1.23         | 934250              | 12.25        | 914400                 | 13.4         |
| 6F     | 480136400 | 27.63        | 16012100         | 8.48         | 16013100          | 1.95         | 934265              | 9.0          | 916400                 | 13.0         |

**MODEL FA**

## PLUNGER TYPE-PRESSURE MONITORING

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 1R     | 480121200 | 1.5          | 15929805         | 1.0          | 16012200          | 0.1          | N/A                 | N/A          | 911200                 | 6.0          |
| 1F-2R  | 480121422 | 1.5          | 16011305         | 1.0          | 16012300          | 0.1          | N/A                 | N/A          | 911200                 | 6.0          |
| 2F-3R  | 480122432 | 2.5          | 16011405         | 2.0          | 16012400          | 0.8          | 933600              | 8.0          | 912432                 | 8.0          |
| 3F     | 480123400 | 5.0          | 16011505         | 2.0          | 16012500          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 3.5 IF | 480123600 | 5.0          | 16011505         | 2.0          | 16012605          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 4R     | 480124200 | 7.0          | 16011705         | 2.0          | 16012700          | 1.0          | 934200              | 12.0         | 914200                 | 12.0         |
| 4F     | 480124400 | 9.5          | 16011805         | 2.0          | 16012800          | 1.0          | 934210              | 13.0         | 914400                 | 13.4         |
| 5R     | 480125200 | 9.5          | 16011905         | 3.5          | 16012900          | 1.0          | 934225              | 15.0         | 914400                 | 13.4         |
| 5F-6R  | 480125462 | 16.0         | 16012005         | 5.0          | 16013000          | 1.1          | 934250              | 19.0         | 914400                 | 13.4         |
| 6F     | 480126400 | 28.0         | 16012105         | 5.0          | 16013100          | 1.2          | 934265              | 21.0         | 916400                 | 21.0         |

**MODEL FC**

## PLUNGER TYPE-AUTOMATIC FILL

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 2F-3R  | 480182432 | 2.5          | 70017100         | 2.0          | 16012400          | 0.8          | 933600              | 8.0          | 912432                 | 8.0          |
| 3F     | 480183400 | 5.0          | 70017300         | 2.0          | 16012500          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 3.5 IF | 480183600 | 5.0          | 70017300         | 2.0          | 16012600          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 4R     | 480184200 | 7.0          | 70017400         | 2.0          | 16012700          | 1.0          | 934200              | 12.0         | 914200                 | 12.0         |
| 4F     | 480184400 | 9.5          | 70017500         | 3.0          | 16012800          | 1.0          | 934210              | 13.0         | 914400                 | 13.4         |
| 5R     | 480185200 | 9.5          | 70017600         | 4.0          | 16012900          | 1.0          | 934225              | 15.0         | 914400                 | 13.4         |
| 5F-6R  | 480185462 | 16.0         | 70017700         | 5.0          | 16013000          | 1.1          | 934250              | 19.0         | 914400                 | 13.4         |
| 6F     | 480186400 | 28.0         | 70017800         | 5.0          | 16013100          | 2.0          | 934265              | 21.0         | 916400                 | 21.0         |



# KET STANDARD SERVICE VALVES

**MODEL G**

## FLAPPER TYPE

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 1F-2R  | 480151422 | 2.0          | 51988400         | 0.7          | 51988300          | 0.5          | 901422          | 7.0          |
| 2F-3R  | 480152432 | 3.5          | 16013200         | 0.8          | 16013800          | 0.6          | 902432          | 8.0          |
| 3F     | 480153400 | 5.0          | 16013300         | 1.0          | 16013900          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480153600 | 5.5          | 16013300         | 1.0          | 51982000          | 1.0          | 903400          | 10.0         |
| 4R     | 480154200 | 7.0          | 16013400         | 1.1          | 16014000          | 1.5          | 904200          | 12.0         |
| 4F     | 480154400 | 8.0          | 16013500         | 1.4          | 16014100          | 1.6          | 904400          | 13.0         |
| 5R     | 480155200 | 9.0          | 16013600         | 1.6          | 16014200          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480155462 | 18.0         | 16013700         | 1.8          | 16014300          | 2.0          | 905462          | 19.0         |

**MODEL GA**

## FLAPPER TYPE-PRESSURE MONITORING

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 1F-2R  | 480161422 | 2.0          | 52070800         | 0.7          | 51988300          | 0.5          | 901422          | 7.0          |
| 2F-3R  | 480162432 | 3.5          | 17135000         | 0.8          | 16013800          | 0.6          | 902432          | 8.0          |
| 3F     | 480163400 | 5.0          | 17136700         | 1.0          | 16013900          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480163600 | 5.5          | 17136700         | 1.0          | 51982000          | 1.0          | 903400          | 10.0         |
| 4R     | 480164200 | 7.0          | 17116000         | 1.1          | 16014000          | 1.5          | 904200          | 12.0         |
| 4F     | 480164400 | 8.0          | 17136800         | 1.4          | 16014100          | 1.6          | 904400          | 13.0         |
| 5R     | 480165200 | 9.0          | 17136900         | 1.6          | 16014200          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480165462 | 18.0         | 17134200         | 1.8          | 16014300          | 2.0          | 905462          | 19.0         |

**MODEL GC**

## FLAPPER TYPE-AUTOMATIC FILL

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 2F-3R  | 480192432 | 3.5          | 16013200         | 0.8          | 16013800          | 0.6          | 902432          | 8.0          |
| 3F     | 480193400 | 5.0          | 16013300         | 1.0          | 16013900          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480193600 | 5.5          | 16013300         | 1.0          | 51982000          | 1.0          | 903400          | 10.0         |
| 4R     | 480194200 | 7.0          | 16013400         | 1.1          | 16014000          | 1.5          | 904200          | 12.0         |
| 4F     | 480194400 | 8.0          | 16013500         | 1.4          | 16014100          | 1.6          | 904400          | 13.0         |
| 5R     | 480195200 | 9.0          | 16013600         | 1.6          | 16014200          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480195462 | 18.0         | 16013700         | 1.8          | 16014300          | 2.0          | 905462          | 19.0         |

# KET STANDARD SERVICE VALVES

MODEL

**GCA**
**FLAPPER TYPE-AUTO FILL-PRESSURE MONITORING**

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL<br>REPAIR KIT | WEIGHT (lbs) | RUBBER<br>REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|---------------------|--------------|----------------------|--------------|-----------------|--------------|
| 2F-3R  | 480192433 | 3.5          | 17135000            | 0.8          | 16013800             | 0.6          | 902432          | 8.0          |
| 3F     | 480193401 | 5.0          | 17136700            | 1.0          | 16013900             | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480193601 | 5.5          | 17136700            | 1.0          | 51982000             | 1.0          | 903400          | 10.0         |
| 4R     | 480194201 | 7.0          | 17116000            | 1.1          | 16014000             | 1.5          | 904200          | 12.0         |
| 4F     | 480194401 | 8.0          | 17136800            | 1.4          | 16014100             | 1.6          | 904400          | 13.0         |
| 5R     | 480195201 | 9.0          | 17136900            | 1.6          | 16014200             | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480195463 | 18.0         | 17134200            | 1.8          | 16014300             | 2.0          | 905462          | 19.0         |

# KET H<sub>2</sub>S/HIGH TEMP SERVICE VALVES

MODEL **F**

## PLUNGER TYPE

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 1R     | 480301200 | 1.5          | 15929800         | 1.0          | 71081701          | 0.5          | N/A                 | N/A          | 911200                 | 6.0          |
| 1F-2R  | 480301422 | 1.5          | 16011300         | 2.0          | 71081801          | 0.7          | N/A                 | N/A          | 911200                 | 6.0          |
| 2F-3R  | 480302432 | 2.5          | 16011400         | 2.0          | 71081901          | 0.8          | 933600              | 8.0          | 912432                 | 8.0          |
| 3F     | 480303400 | 5.0          | 16011500         | 2.0          | 71082001          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 3.5 IF | 480303600 | 5.0          | 16011500         | 2.0          | 71082101          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 4R     | 480304200 | 7.0          | 16011700         | 2.0          | 71082201          | 1.0          | 934200              | 12.0         | 914200                 | 12.0         |
| 4F     | 480304400 | 9.5          | 16011800         | 3.0          | 71082301          | 1.0          | 934210              | 13.0         | 914400                 | 13.4         |
| 5R     | 480305200 | 9.5          | 16011900         | 4.0          | 71082401          | 1.0          | 934225              | 15.0         | 914400                 | 13.4         |
| 5F-6R  | 480305462 | 16.0         | 16012000         | 5.0          | 71082501          | 1.1          | 934250              | 19.0         | 914400                 | 13.4         |
| 6F     | 480306400 | 28.0         | 16012100         | 5.0          | 71082601          | 2.0          | 934265              | 21.0         | 916400                 | 21.0         |

MODEL **FA**

## PLUNGER TYPE-PRESSURE MONITORING

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 1F-2R  | 480351422 | 1.62         | 16011305         | 1.0          | 71081801          | 0.4          | N/A                 | N/A          | 911200                 | 6.0          |
| 2F-3R  | 480352432 | 2.5          | 16011405         | 2.0          | 71081901          | 0.8          | 933600              | 8.0          | 912432                 | 8.0          |
| 3F     | 480353400 | 5.0          | 16011505         | 2.0          | 71082001          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 3.5 IF | 480353600 | 5.0          | 16011505         | 2.0          | 71082101          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 4R     | 480354200 | 7.0          | 16011705         | 2.0          | 71082201          | 1.0          | 934200              | 12.0         | 914200                 | 12.0         |
| 5R     | 480355200 | 10.5         | 16011905         | 3.7          | 71082401          | 1.2          | 934225              | 8.7          | 914400                 | 13.4         |
| 5F-6R  | 480355462 | 16.0         | 16012005         | 5.0          | 71082501          | 1.1          | 934250              | 19.0         | 914400                 | 13.4         |

MODEL **F-10**

## PLUNGER TYPE-10,000 PSI STAINLESS STEEL H<sub>2</sub>S/HIGH TEMP SERVICE VALVES

| SIZE   | ASSEMBLY     | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | TOP PULLER ASSEMBLY | WEIGHT (lbs) | BOTTOM PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|--------------|--------------|------------------|--------------|-------------------|--------------|---------------------|--------------|------------------------|--------------|
| 2F-3R  | 480132432-10 | 3.05         | 16011400-10      | .91          | 71081901          | 0.8          | 933600              | 8.0          | 912432                 | 8.0          |
| 3.5 IF | 480133600-10 | 7.08         | 16011500-10      | 1.42         | 71082101          | 1.0          | 933600              | 10.0         | 913400                 | 10.0         |
| 4R     | 480134200-10 | 7.3          | 16011700-10      | 2.25         | 71082201          | 1.0          | 934200              | 12.0         | 914200                 | 12.0         |
| 5R     | 480135200-10 | 10.58        | 16011900-10      | 3.71         | 71082401          | 1.2          | 934225              | 8.7          | 914400                 | 13.4         |
| 5F-6R  | 480135462-10 | 18.01        | 16012000-10      | 5.0          | 71082501          | 1.1          | 934250              | 19.0         | 914400                 | 13.4         |

\*NOTE -10,000 PSI drill pipe float valves I.D's are 1/8" smaller. See chart below. Refer to [page 12](#) for all other dimensions except for valve I,D's

| Valve Size | Valve I.D. Model F |
|------------|--------------------|
| 2F-3R      | 1-7/16"            |
| 3.5IF      | 1-3/4"             |
| 4R         | 2-3/16"            |
| 5R         | 2-5/8"             |
| 5F-6R      | 3-1/8"             |

# KET H<sub>2</sub>S/HIGH TEMP SERVICE VALVES

MODEL **G**

## FLAPPER TYPE

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 1F-2R  | 480311422 | 2.0          | 51997300         | 0.7          | 51997200          | 0.5          | 901422          | N/A          |
| 2F-3R  | 480312432 | 3.5          | 71085901         | 0.8          | 71082701          | 0.6          | 902432          | 8.0          |
| 3F     | 480313400 | 5.0          | 71086001         | 1.0          | 71082801          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480313600 | 5.5          | 71086001         | 1.0          | 52125001          | 1.0          | 903400          | 10.0         |
| 4R     | 480314200 | 7.0          | 71086101         | 1.1          | 71082901          | 1.5          | 904200          | 12.0         |
| 4F     | 480314400 | 8.0          | 71086201         | 1.4          | 71083001          | 1.6          | 904400          | 13.0         |
| 5R     | 480315200 | 9.0          | 71086301         | 1.6          | 71083101          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480315462 | 18.0         | 71086401         | 1.8          | 71083201          | 2.0          | 905462          | 19.0         |

MODEL **GA**

## FLAPPER TYPE-PRESSURE MONITORING

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 1F-2R  | 480261422 | 2.0          | 52070801         | 0.7          | 51997200          | 0.5          | 901422          | 7.0          |
| 2F-3R  | 480262432 | 3.5          | 17135001         | 0.8          | 71082701          | 0.6          | 902432          | 8.0          |
| 3F     | 480263400 | 5.0          | 17136701         | 1.0          | 71082801          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480263600 | 5.0          | 17136701         | 1.0          | 52125001          | 1.0          | 903400          | 10.0         |
| 4R     | 480264200 | 7.0          | 17116001         | 1.1          | 71082901          | 1.5          | 904200          | 12.0         |
| 4F     | 480264400 | 8.0          | 17136801         | 1.4          | 71083001          | 1.6          | 904400          | 13.0         |
| 5R     | 480265200 | 9.0          | 17136901         | 1.6          | 71083101          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480265462 | 12.0         | 17134201         | 1.8          | 71083201          | 2.0          | 905462          | 19.0         |

MODEL **GC**

## FLAPPER TYPE-AUTOMATIC FILL

| SIZE   | ASSEMBLY  | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|--------|-----------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 2F-3R  | 480332432 | 3.5          | 71085901         | 0.8          | 71082701          | 0.6          | 902432          | 8.0          |
| 3F     | 480333400 | 5.0          | 71086001         | 1.0          | 71082801          | 1.0          | 903400          | 10.0         |
| 3.5 IF | 480333600 | 5.0          | 71086001         | 1.0          | 52125001          | 1.0          | 903400          | 10.0         |
| 4R     | 480334200 | 7.0          | 71086101         | 1.1          | 71082901          | 1.5          | 904200          | 12.0         |
| 4F     | 480334400 | 8.0          | 71086201         | 1.4          | 71083001          | 1.6          | 904400          | 13.0         |
| 5R     | 480335200 | 9.0          | 71086301         | 1.6          | 71083101          | 1.6          | 905200          | 15.0         |
| 5F-6R  | 480335462 | 12.0         | 71086401         | 1.8          | 71083201          | 2.0          | 905462          | 19.0         |

MODEL **G-10**

## FLAPPER TYPE-10,000 PSI STAINLESS STEEL H<sub>2</sub>S/HIGH TEMP SERVICE VALVES

| SIZE  | ASSEMBLY     | WEIGHT (lbs) | METAL REPAIR KIT | WEIGHT (lbs) | RUBBER REPAIR KIT | WEIGHT (lbs) | PULLER ASSEMBLY | WEIGHT (lbs) |
|-------|--------------|--------------|------------------|--------------|-------------------|--------------|-----------------|--------------|
| 2F-3R | 480152432-10 | 3.5          |                  | 0.8          |                   | 0.6          | 902432          | 8.0          |
| 4R    | 480154200-10 | 7.73         |                  | 1.1          |                   | 1.5          | 904200          | 12.0         |
| 5R    | 480155200-10 | 9.0          | 71086301-10      | 1.6          | 71083101-10       | 1.6          | 905200          | 15.0         |
| 5F-6R | 480155462-10 | 18.0         | 16013700-10      | 1.8          | 71083201-10       | 2.0          | 905462          | 19.0         |

\*NOTE - 10,000 PSI drill pipe float valves I.D's are 1/8" smaller. See chart below. Refer to [page 12](#) for all other dimensions except for valve I,D's

| Valve Size | Valve I.D. G-10 |
|------------|-----------------|
| 2F-3R      | 1-1/8"          |
| 4R         | 1-27/32"        |
| 5R         | 2 -1/8"         |
| 5F-6R      | 2- 3/4"         |

# KET BAFFLE PLATES

## BAFFLE PLATES

Baffle plates can be placed on top of the drill-pipe float valve or the drill bit to help prevent damage from recorders or other wire-line tools that are dropped down the string.

## BAFFLE PLATES

### RING AND SPIDER TYPE



RING TYPE



SPIDER TYPE

| PART NO.    | CONNECTION TYPE/SIZE                               | DPFV SIZE      | TYPE   | WEIGHT (lbs) | BAFFLE PLATE OD |
|-------------|----------------------------------------------------|----------------|--------|--------------|-----------------|
| K-91701 **  | 2-7/8" API REG                                     | 1F-2R          | SPIDER | 0.5          | 1.94            |
| K-91702 **  | 3-1/2" API REG                                     | 2F-3R          | RING   | 0.4          | 2.28            |
| K-91703 **  | 4-1/2" API REG                                     | 4R             | RING   | 0.8          | 3.22            |
| K-91704 **  | 5-9/16" API REG                                    | 5R             | RING   | 1.3          | 3.87            |
| K-91705 **  | 6-5/8" API REG                                     | 5F-6R          | RING   | 1.5          | 4.63            |
| K-91706 **  | 7-5/8" API REG                                     | 5F-6R          | RING   | 1.7          | 5.33            |
| K-91707 **  | 8-5/8" API REG                                     | 6F             | RING   | 2.2          | 6.18            |
| K-91711 *** | REPLACED BY K-91721                                | 3F             | SPIDER | 0.6          | 2.75            |
| K-91712 *** | 4-1/2" API FH                                      | 4F             | RING   | 0.9          | 3.36            |
| K-91713 *** | 5-9/16" API FH                                     | 5F-6R          | RING   | 1.5          | 4.63            |
| K-91714 **  | 6-5/8" API FH                                      | 6F             | RING   | 2.2          | 5.45            |
| K-91721 *   | 3-1/2" API FH                                      | 3F             | SPIDER | 0.6          | 2.63            |
| K-91722*    | 4-1/2" API FH<br>4-1/2" API REG<br>5-9/16" API REG | 4F<br>4R<br>5R | SPIDER | 0.7          | 3.44            |
| K-91723*    | 5-9/16" FH<br>6-5/8" FH/ 6-5/8" REG                | 5F-6R<br>5F-6R | SPIDER | 1.0          | 4.68            |
| K-91724 *   | 6-5/8" API FH                                      | 6F             | SPIDER | 1.0          | 6.56            |
| K-91725 *   | 3-1/2" API IF                                      | 3.5IF          | SPIDER | 0.6          | 3.06            |
| K-91726 *   | REPLACED BY K-91722                                | 5R             | SPIDER | 0.8          | 3.76            |
| K-91741 *** | 3-1/2" API IF                                      | 3.5IF          | RING   | 0.7          | 3.06            |
| K-91742 *** | 4-1/2" API IF                                      | 5R             | RING   | 1.6          | 4.22            |
| K-91743 *** | 2-7/8" API IF                                      | 2F-3R          | SPIDER | 0.7          | 2.44            |
| K-91744 *** | 4" API IF / 4-1/2"XH                               | 4F             | RING   | 1.0          | 3.88            |

\* For use on float. \*\*For use on bit. \*\*\*For use in joint.

**www.krmsupply.com**

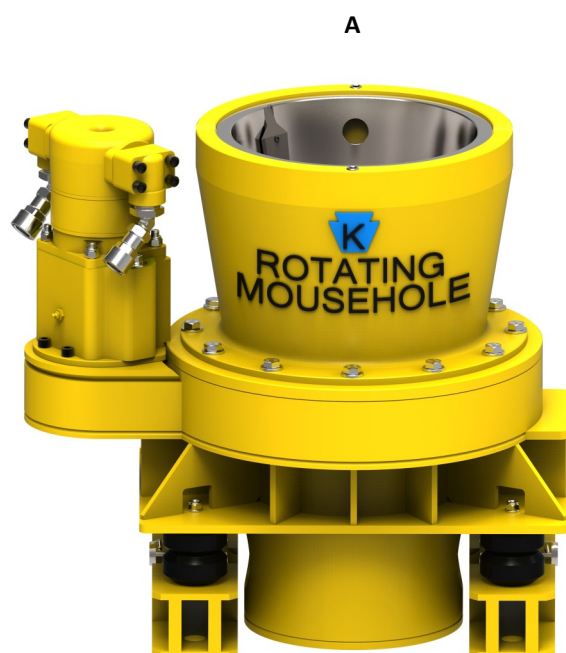
# KET ROTATING MOUSEHOLE

The Rotating Mouse-hole allows the drilling crew to quickly and efficiently build stands simultaneously while drilling ahead with the top drive. By utilizing pre-assembled stands connection time is reduced by as much as 66%.

- ▶ Available in pneumatic or hydraulic
- ▶ Installs flush with the rig floor
- ▶ Rotates tubular below the rig floor

## ROTATING MOUSEHOLE

| ITEM | PART NO.     | DESCRIPTION                                                                                                                                                                                |
|------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A    | RMH-50010    | Rotating Mouse-Hole Complete w/Pneumatic Motor, #3 Bowl, #3 Bowl Puller, Retrieving Tool, Variable Speed Hand Control Valve, 3ea. 30' x 1" Air Hoses, and Mouse-hole Hanger Cap.           |
| A    | RMH-50050    | Rotating Mouse-Hole Complete w/Hydraulic Motor, #3 Bowl, #3 Bowl Puller, Retrieving Tool, Variable Speed Hand Control Valve, 2ea. 30' x 1 1/2" Hydraulic Hoses, and Mouse-hole Hanger Cap. |
| B    | RMH-50550-G3 | ROTATING MOUSEHOLE COMPLETE WITH SLIP LIFTING DIVICE STD. HYD. MTR, #3 BOWL PULLER, LAND & , RET.TOOL, DUAL CONTROL VALVE, & 4EA. 30' HYDRAULIC HOSES                                      |



# KET ELEVATOR OVERVIEW

## CASTINGS

Keystone elevators are made in the USA and are built to meet or exceed API specification 8C requirements. All elevators are made using high-alloy heat treated steel.

## DOCUMENTATION

Every elevator comes with complete certification including an operations manual outlining safety instructions, operation, maintenance, critical area drawings and repair. A documentation package containing inspection of material specs, hardness, proof of load test, magnetic particle examination and dimensional inspection is also included.

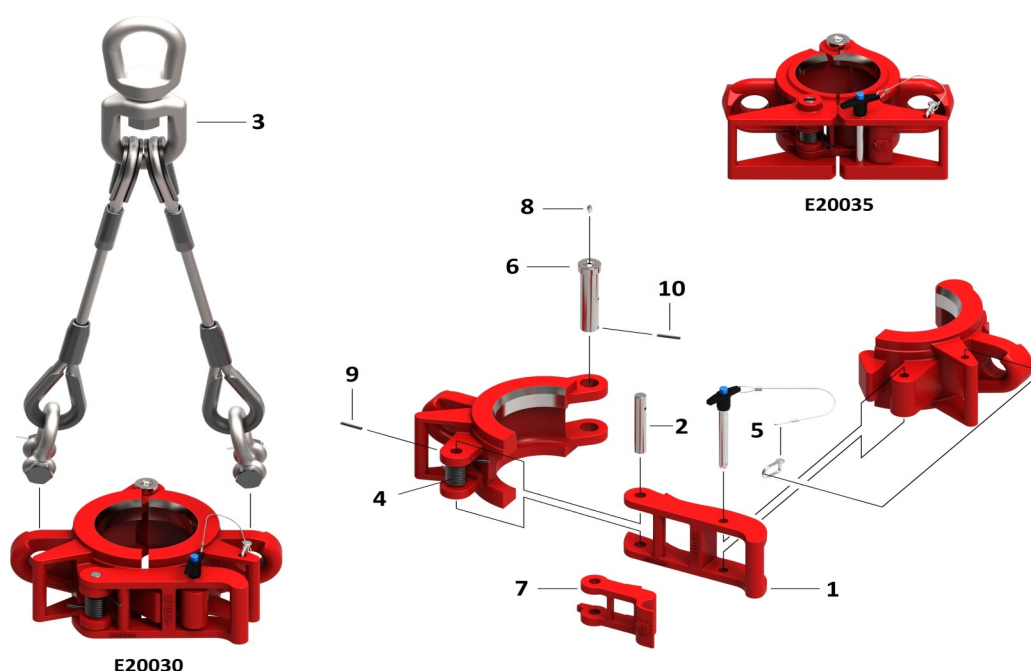
## SAFETY FEATURES

All Keystone elevators incorporate a safety latch lock mechanism to prevent accidental opening of the elevator. Keystone Safety Latches are readily available and can be replaced in the field without the inconvenience of having to send the whole elevator to the repair center.



## KET (7.5 TON) SINGLE JOINT ELEVATOR

| PART NO. | RANGE            | WEIGHT |
|----------|------------------|--------|
| 20035    | 2-3/8" - 4"      | 45.00  |
| 20030    | 4" - 5 7/8"      | 67.00  |
| 20040    | 5-1/2" - 8-5/8"  | 78.00  |
| 20050    | 9 5/8" - 10 3/4" | 93.00  |
| 20060    | 11 3/4" - 14"    | 114.00 |
| 20065    | 16" - 20"        | 130.00 |

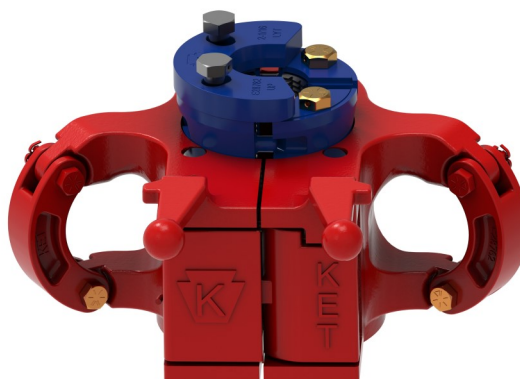


### REPLACEMENT PARTS FOR SINGLE JOINT ELEVATORS

| ITEM | QTY | PART NO. | DESCRIPTION                                         | SPARES | WIEGHT (lbs.) |
|------|-----|----------|-----------------------------------------------------|--------|---------------|
| 1    | 1   |          | LATCH-E20030, E20040, E20050, E20060, E20065        |        | 6.00          |
| 2    | 1   | 39-050   | LATCH PIN-E20030, E20040, E20050, E20060, E20065    | 1      | 0.37          |
| 2    | 1   | 39-050-1 | LATCH PIN-E20035                                    | 1      | 0.37          |
| 3    | 1   | 34568    | SJ SWIVEL SUSPENSION ASSEMBLY                       | 1      | 29.00         |
| 4    | 1   | 39-034   | LATCH SPRING-E20030, E20040, E20050, E20060, E20065 | 2      | 0.20          |
| 4    | 1   | 7829-1   | LATCH SPRING-E20035                                 | 2      | 0.20          |
| 5    | 1   | 39-051-8 | LATCH LOCK RETAINER PIN ASSY                        | 1      | 0.35          |
| 6    | 1   | 39-052   | HING PIN-BOTH                                       | 1      | 0.10          |
| 7    | 1   | 39-190   | LATCH-E20035                                        |        | 4.00          |
| 8    | 1   | 316-TI   | TAP IN GREASE FITTING—BOTH                          |        | 0.10          |
| 9    | 1   | 316RP    | LATCH PIN RETAINER—BOTH                             |        | 0.10          |
| 10   | 1   | 316RP    | HINGE PIN RETAINER—BOTH                             |        | 0.10          |

# KET LYT (20 TON) SLIP TYPE ELEVATOR

| PART NO. | RANGE          | SIZE OF LINKS   | WEIGHT |
|----------|----------------|-----------------|--------|
| 28750    | 3/4" - 2-1/16" | 1-1/4" - 2-3/4" | 58.00  |



## LYT SLIP ASSEMBLIES

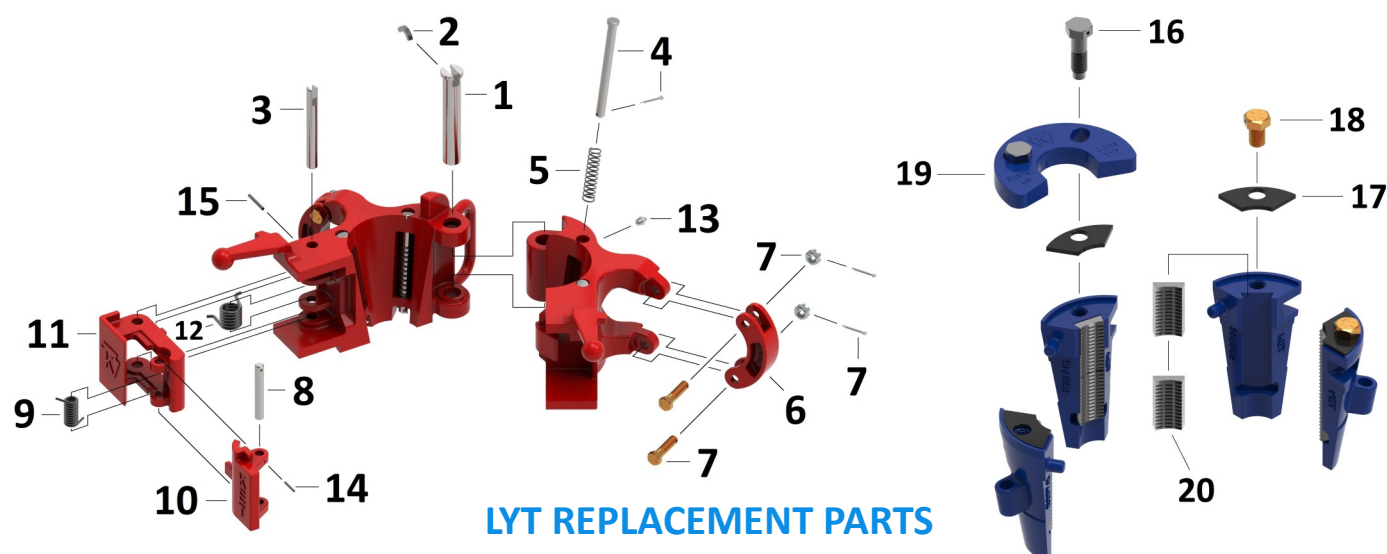
| PART NO. | DESCRIPTION                                | WEIGHT (lbs.) |
|----------|--------------------------------------------|---------------|
| 28745-6  | 2-1/16" X 2-1/16" LYT SLIP ASSEMBLY        | 17.00         |
| 28745-5  | 2-7/8" X 2" LYT SLIP ASSEMBLY              | 17.00         |
| 28745-4  | 2-7/8" X 1-1/2" (1.900") LYT SLIP ASSEMBLY | 17.00         |
| 28745-3  | 2-7/8" X 1-1/4" (1.660") LYT SLIP ASSEMBLY | 18.00         |
| 28745-2  | 2-7/8" X 1" (1.315") LYT SLIP ASSEMBLY     | 20.00         |
| 28745-7  | 2-7/8" X 3/4" (1.050") LYT SLIP ASSEMBLY   | 20.00         |

## LYT SETTING PLATES

| PART NO. | ITEM# | DESCRIPTION                   | #REQ. | WEIGHT (LBS) |
|----------|-------|-------------------------------|-------|--------------|
| 28782    | 19    | 2 1/16" SETTING PLATE         | 1     | 2.25         |
| 28737    | 19    | 2" SETTING PLATE              | 1     | 2.35         |
| 28783    | 19    | 1 1/2" (1.900") SETTING PLATE | 1     | 3.00         |
| 28784    | 19    | 1 1/4" (1.660") SETTING PLATE | 1     | 3.10         |
| 28736    | 19    | 1" (1.315") SETTING PLATE     | 1     | 3.15         |
| 28735    | 19    | 3/4" (1.050") SETTING PLATE   | 1     | 3.20         |

Recommended spares include 2 sets of inserts and 2 setting rings for each pipe size to be run.

# KET LYT (20 TON) SLIP TYPE ELEVATOR



## LYT REPLACEMENT PARTS

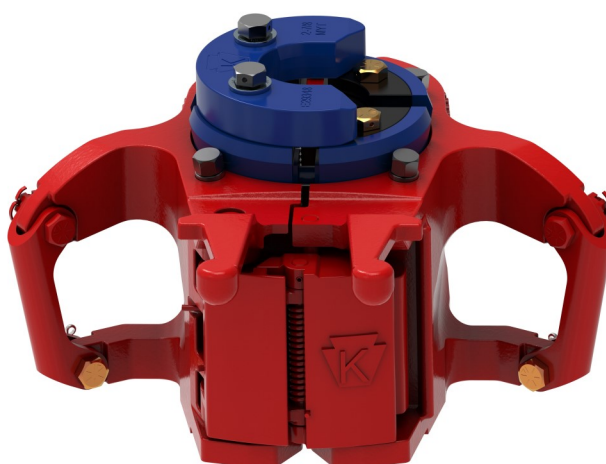
| ITEM# | QTY | PART NO.   | DESCRIPTION                   | SPARES | WT.  |
|-------|-----|------------|-------------------------------|--------|------|
| 1     | 1   | 28753      | HINGE PIN                     |        | .60  |
| 2     | 1   | 28753-R    | HINGE PIN RETAINER            | 2      | .05  |
| 3     | 1   | 28757      | LATCH PIN                     |        | .45  |
| 4     | 4   | 28760      | SLIP PIN & COTTER             |        | .25  |
| 5     | 4   | 28761      | SLIP SPRING                   | 4      | .04  |
| 6     | 2   | 28762      | LINK BLOCK                    | 2      | 1.00 |
| 7     | 4   | 28764-1    | LINK BLOCK BOLT, NUT & COTTER | 2      | 1.20 |
| 8     | 1   | 28767      | LATCH LOCK PIN                | 2      | .25  |
| 9     | 1   | 28769      | LATCH LOCK SPRING             | 1      | .12  |
| 10    | 1   | 30645      | LATCH LOCK                    | 2      | 2.00 |
| 11    | 1   | 30648      | LATCH                         |        | 4.00 |
| 12    | 1   | 32760      | LATCH SPRING                  | 1      | .08  |
| 13    | 1   | 940308-1   | GREASE ZERT FOR DOOR          | 4      | .03  |
| 14    | 1   | 947128-172 | LATCH LOCK PIN RETAINER       | 1      | .02  |
| 15    | 1   | 947128-222 | LATCH PIN RETAINER            | 2      | .02  |
| 16    | 4   | 28785      | SETTING PLATE BOLT            | 4      | .25  |
| 17    | 4   | 28786      | INSERT RETAINER PLATE         | 4      | .13  |
| 18    | 4   | 28787      | INSERT RETAINER SCREW         | 4      | .13  |
| 19    | 1   |            | Page 28 SETTING RING          |        |      |

## LYT INSERTS

| ITEM# | QTY | PART NO. | DESCRIPTION                | WT. |
|-------|-----|----------|----------------------------|-----|
| 20    | 8   | 28772    | 2 1/16" & 2" LYT INSERT    | .25 |
| 20    | 8   | 28775    | 1 1/2" (1.900") LYT INSERT | .25 |
| 20    | 8   | 28778    | 1 1/4" (1.660") LYT INSERT | .25 |
| 20    | 8   | 28749    | 1" (1.315") LYT INSERT     | .25 |
| 20    | 8   | 29370    | 3/4" (1.050") LYT INSERT   | .25 |

# KET MYT (40 TON) SLIP TYPE ELEVATOR

| PART NO. | RANGE         | SIZE OF LINKS   | WEIGHT |
|----------|---------------|-----------------|--------|
| 29328    | 3/4" - 2-7/8" | 1-1/4" - 2-3/4" | 148.00 |



## MYT SLIP ASSEMBLIES

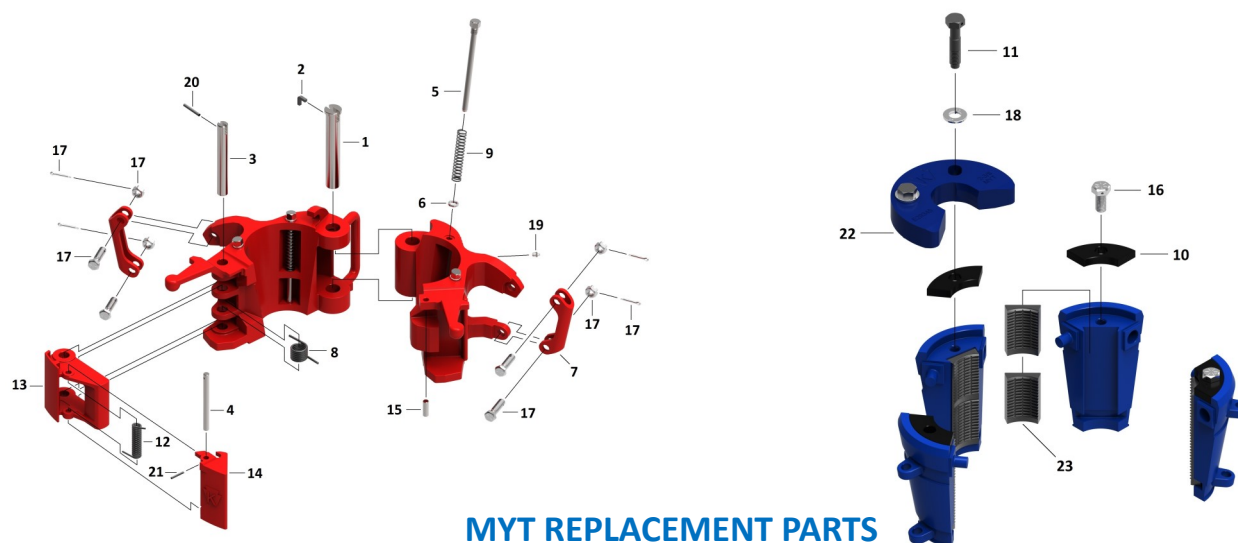
| PART NO. | DESCRIPTION                                     | WEIGHT (lbs.) |
|----------|-------------------------------------------------|---------------|
| 29343-1  | 2-7/8" X 2-7/8" MYT SLIP ASSEMBLY               | 44.00         |
| 29343-2  | 2-7/8" X 2-3/8" MYT SLIP ASSEMBLY               | 46.00         |
| 29343-3  | 2-7/8" X 2-1/16" MYT SLIP ASSEMBLY              | 47.25         |
| 29343-4  | 2-7/8" X 2" MYT SLIP ASSEMBLY                   | 47.50         |
| 29343-5  | 2-7/8" X 1-1/2" (1.900") MYT SLIP ASSEMBLY      | 48.75         |
| 29343-6  | 2-7/8" X 1-1/4" (1.660") MYT SLIP ASSEMBLY      | 49.75         |
| 29343-7  | 2-7/8" X 1" (1.315") MYT SLIP ASSEMBLY          | 49.75         |
| 29343-8  | 2-7/8" X 3/4" (1.050") MYT SLIP ASSEMBLY        | 51.00         |
| 29343--S | 2-7/8" MYT SLIP SEGMENTS ONLY(MATCHED SET OF 4) | 31.00         |

## MYT SETTING RINGS

| ITEM | PART NO. | DESCRIPTION                     | WEIGHT (lbs.) |
|------|----------|---------------------------------|---------------|
| 22   | 29348    | 2-7/8" MYT SETTING RING         | 6.50          |
| 22   | 29345    | 2-3/8" MYT SETTING RING         | 6.63          |
| 22   | 29350    | 2-1/16" MYT SETTING RING        | 7.00          |
| 22   | 29351    | 2" MYT SETTING RING             | 7.10          |
| 22   | 29352    | 1-1/2" (1.900) MYT SETTING RING | 7.35          |
| 22   | 29353    | 1-1/4" (1.660) MYT SETTING RING | 7.50          |
| 22   | 29354    | 1" (1.315) MYT SETTING RING     | 7.90          |
| 22   | 29354-1  | 3/4" (1.050) MYT SETTING RING   | 8.05          |

Recommended spares include 2 sets of inserts and 2 setting rings for each pipe size to be run.

# KET MYT SLIP TYPE ELEVATOR PARTS



## MYT REPLACEMENT PARTS

| ITEM | QTY | PART NO.    | DESCRIPTION                  | SPARES | WEIGHT (lbs.) |
|------|-----|-------------|------------------------------|--------|---------------|
| 1    | 1   | 29333-R     | HINGE PIN                    |        | 4             |
| 2    | 1   | 29333-RE    | HINGE PIN RETAINER           |        | 10            |
| 3    | 1   | 29334       | LATCH PIN                    |        | 4             |
| 4    | 1   | 29335       | LATCH LOCK PIN               | 2      | 0.5           |
| 5    | 4   | 29336       | SLIP BOLT                    |        | 2             |
| 6    | 4   | 29336-W     | SLIP BOLT LOCK WASHER        | 2      | 0.5           |
| 7    | 2   | 29337       | LINK BLOCK                   | 2      | 0.25          |
| 8    | 1   | 29338       | LATCH SPRING                 |        | 0.5           |
| 9    | 4   | 29340       | SLIP SPRING                  | 2      | 1.5           |
| 10   | 4   | 29344       | INSERT RETAINER PLATE        | 2      | 0.5           |
| 11   | 2   | 29347       | SETTING RING BOLT            |        | 12.88         |
| 12   | 1   | 29349       | LATCH LOCK SPRING            |        | 1             |
| 13   | 1   | 30652       | LATCH                        | 4      | 0.45          |
| 14   | 1   | 30653       | LATCH LOCK                   | 4      | 0.75          |
| 15   | 1   | 30841       | DOOR LUG PIN                 | 8      | 0.25          |
| 16   | 2   | 939098-15   | INSERT RETAINER SCREW        | 4      | 0.25          |
| 17   | 4   | 939099-65-2 | LINK BLOCK BOLT, NUT, COTTER | 4      | 0.06          |
| 18   | 2   | 939370-13   | SETTING RING WASHER          | 4      | 0.13          |
| 19   | 1   | 940308-1    | GREASE FITTING               | 4      | 0.5           |
| 20   | 4   | 947128-120  | LATCH PIN RETAINER           | 4      | .25           |
| 21   | 1   | 947128-172  | LATCH LOCK PIN RETAINER      |        |               |

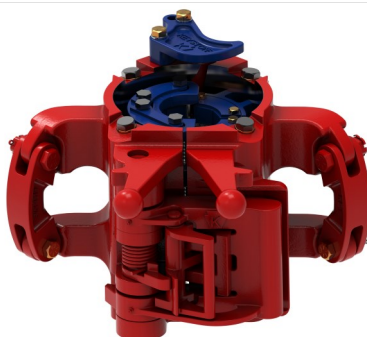
## MYT INSERTS

| ITEM | QTY | PART NO. | DESCRIPTION                     | WEIGHT (lbs.) |
|------|-----|----------|---------------------------------|---------------|
| 23   | 8   | 24773    | 2-7/8" X 2-7/8" INSERT          | 0.75          |
| 23   | 8   | 29255    | 2-7/8" X 2-3/8" INSERT          | 1.00          |
| 23   | 8   | 29256    | 2-7/8" X 2-1/16" & 2" INSERT    | 1.13          |
| 23   | 8   | 29257    | 2-7/8" X 1-1/2" (1.900") INSERT | 1.25          |
| 23   | 8   | 29258    | 2-7/8" X 1-1/4" (1.660") INSERT | 1.38          |
| 23   | 8   | 29259    | 2-7/8" X 1" (1.315") INSERT     | 1.44          |
| 23   | 8   | 29259-1  | 2-7/8" X 3/4" (1.050") INSERT   | 1.50          |

Recommended spares include 2 sets of inserts and 2 setting rings for each pipe size to be run.

# KET YT (75 TON) SLIP TYPE ELEVATOR

| PART NO. | RANGE           | SIZE OF LINKS   | WEIGHT |
|----------|-----------------|-----------------|--------|
| 23105    | 1.315" - 3-1/2" | 2-1/4" - 2-3/4" | 355.00 |



## YT SLIP ASSEMBLIES

| PART NO. | DESCRIPTION                                     | WEIGHT( lbs.) |
|----------|-------------------------------------------------|---------------|
| 23108-5  | 3-1/2" X 3-1/2" YT SLIP ASSEMBLY                | 64.00         |
| 23108-3  | 3-1/2" X 2-7/8" YT SLIP ASSEMBLY                | 76.00         |
| 23108-23 | 3-1/2" X 2-3/8" YT SLIP ASSEMBLY                | 76.00         |
| 23108-4  | 2-7/8" X 2-7/8" YT SLIP ASSEMBLY                | 76.00         |
| 23108-6  | 2-7/8" X 2-3/8" YT SLIP ASSEMBLY                | 79.00         |
| 23108-7  | 2-7/8" X 2-1/16" YT SLIP ASSEMBLY               | 81.00         |
| 23108-8  | 2-7/8" X 2" YT SLIP ASSEMBLY                    | 82.00         |
| 23108-9  | 2-7/8" X 1-1/2" (1.900) YT SLIP ASSEMBLY        | 83.50         |
| 23108-10 | 2-7/8" X 1-1/4" (1.660) YT SLIP ASSEMBLY        | 85.50         |
| 23108-11 | 2-7/8" X 1" (1.315) YT SLIP ASSEMBLY            | 86.50         |
| 23108    | 3-1/2" YT SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 51.00         |
| 23108-22 | 2-7/8" YT SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 51.00         |

## YT SETTING RINGS

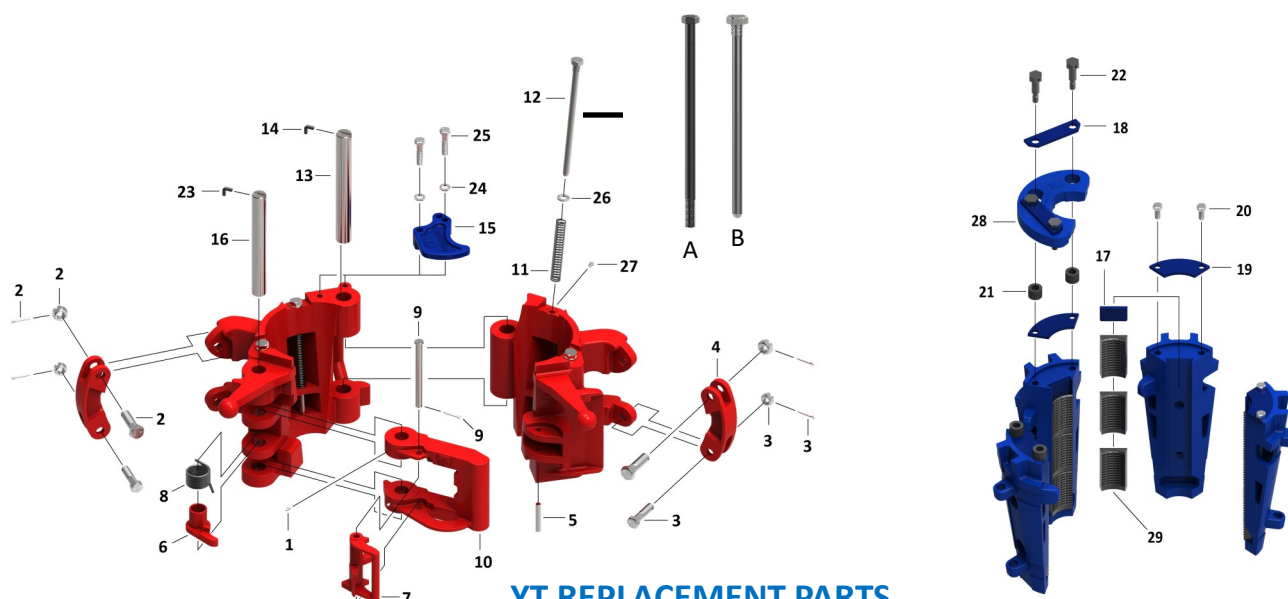
| ITEM | PART NO. | DESCRIPTION                    | WEIGHT (lbs.) |
|------|----------|--------------------------------|---------------|
| 28   | 27813    | 3-1/2" YT SETTING RING         | 3.13          |
| 28   | 27695    | 2-7/8" YT SETTING RING         | 3.56          |
| 28   | 27694    | 2-3/8" YT SETTING RING         | 4.00          |
| 28   | 27812    | 2-1/16" YT SETTING RING        | 4.25          |
| 28   | 28821    | 2" YT SETTING RING             | 4.25          |
| 28   | 27811    | 1-1/2" (1.900) YT SETTING RING | 4.31          |
| 28   | 27810    | 1-1/4" (1.660) YT SETTING RING | 4.38          |
| 28   | 29001    | 1" (1.315) YT SETTING RING     | 4.75          |

## YT SLIP INSERTS

| ITEM | QTY | PART NO. | DESCRIPTION                     | WEIGHT (lbs.) |
|------|-----|----------|---------------------------------|---------------|
| 29   | 24  | 24774    | 3-1/2" X 3-1/2" INSERT          | 0.50          |
| 29   | 24  | 30358    | 3-1/2" X 2-7/8" INSERT          | 0.75          |
| 29   | 24  | 30358-23 | 3-1/2" X 2-3/8" INSERT          | 0.85          |
| 29   | 12  | 24773    | 2-7/8" X 2-7/8" INSERT          | 0.75          |
| 29   | 12  | 29255    | 2-7/8" X 2-3/8" INSERT          | 0.75          |
| 29   | 12  | 29256    | 2-7/8" X 2-1/16" & 2" INSERT    | 1.00          |
| 29   | 12  | 29257    | 2-7/8" X 1-1/2" (1.900") INSERT | 1.20          |
| 29   | 12  | 29258    | 2-7/8" X 1-1/4" (1.660") INSERT | 1.38          |
| 29   | 12  | 29259    | 2-7/8" X 1" (1.315") INSERT     | 1.45          |

Recommended spares include 2 sets of inserts and 2 setting rings for each size of pipe to be run.

# KET YT SLIP TYPE ELEVATOR PARTS



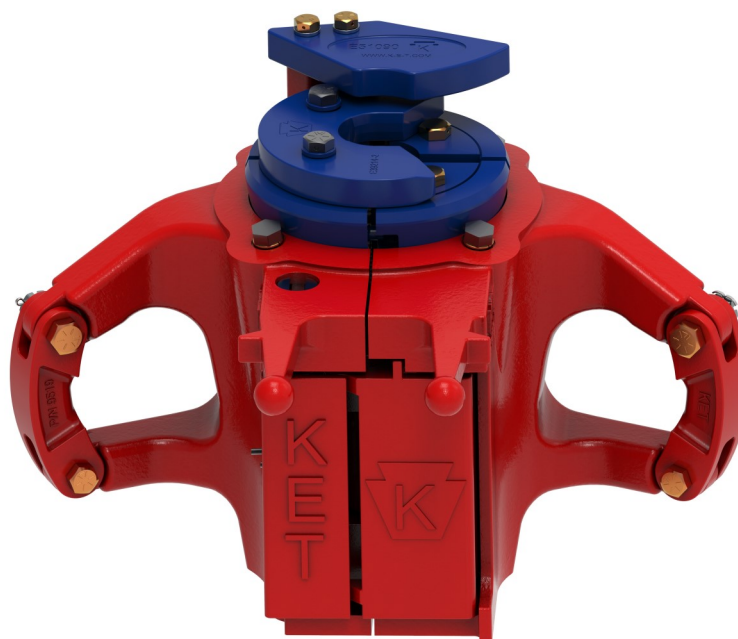
## YT REPLACEMENT PARTS

| ITEM | QTY | PART NO.                | DESCRIPTION                              | SPARES | WEIGHT (lbs.) |
|------|-----|-------------------------|------------------------------------------|--------|---------------|
| 1    | 1   | 316-TI                  | TAP IN GREASE FITTING                    |        |               |
| 2    | 2   | 8145-1                  | UPPER LINK BLOCK BOLT, NUT, COTTER       | 1      | 1.00          |
| 3    | 2   | 8145-2                  | LOWER LINK BLOCK BOLT, NUT, COTTER       | 2      | 1.00          |
| 4    | 2   | 9519                    | LINK BLOCK                               |        | 5.50          |
| 5    | 1   | 12529                   | DOOR LUG PIN                             |        | 0.65          |
| 6    | 1   | 12946                   | LATCH CAM                                |        | 1.50          |
| 7    | 1   | 12972                   | LATCH LOCK                               |        | 3.50          |
| 8    | 1   | 12978                   | LATCH SPRING                             | 2      | 0.63          |
| 9    | 1   | 13530                   | LATCH LOCK PIN W/COTTER                  | 2      | 0.63          |
| 10   | 1   | 15348                   | LATCH                                    |        | 27.00         |
| 11   | 4   | 23113                   | SLIP SPRING                              | 8      | 0.25          |
| 12A  | 4   | 23115                   | SLIP BOLT( THREADS ON END OF THE BOLT)   | 4      | 1.25          |
| 12B  | 4   | 23115-S                 | SLIP BOLT (THREADS UNDER HEAD) New Style | 4      | 1.25          |
| 13   | 1   | 23116-1                 | HINGE PIN                                |        | 4.13          |
| 14   | 1   | 23116-1-R               | HINGE PIN RETAINER                       | 2      | 0.20          |
| 15   | 1   | 23630                   | GUIDE PLATE                              |        | 4.00          |
| 16   | 1   | 24182                   | LATCH PIN                                |        | 5.00          |
| 17   | 8   | 24507                   | INSERT SPACER (3-1/2")                   | 8      | 0.13          |
| 17   | 4   | 24508                   | INSERT SPACER (2-7/8")                   | 4      | 0.25          |
| 18   | 2   | 27507                   | SETTING RING RETAINER (2-7/8")           |        | 0.13          |
| 18   | 2   | 27546                   | SETTING RING RETAINER (3-1/2")           |        | 0.13          |
| 19   | 4   | 27530                   | INSERT RETAINER PLATE (3-1/2")           | 4      | 0.13          |
| 19   | 4   | 27451                   | INSERT RETAINER PLATE (2-7/8")           | 4      | 0.25          |
| 20   | 4   | 27532                   | INSERT RETAINER SCREW                    | 8      | 0.06          |
| 21   | 4   | 27696                   | YT SETTING RING BUSHING                  | 8      | 0.06          |
| 22   | 4   | 27697                   | SETTING RING BOLT                        | 4      | 0.25          |
| 23   | 4   | 29464                   | LATCH PIN RETAINER                       | 2      | 0.20          |
| 24   | 4   | 939098-634              | GUIDE PLATE LOCK WASHER                  | 2      | 0.15          |
| 25   | 2   | 939098-75               | GUIDE PLATE SCREW                        | 2      | 0.25          |
| 26   | 4   | 939352-6                | SLIP BOLT LOCK WASHER                    | 4      | 0.06          |
| 27   | 1   | 940308-1                | GREASE FITTING                           |        | 0.05          |
| 28   |     | <a href="#">Page 32</a> | SETTING RINGS                            | 2      |               |
| 29   |     | <a href="#">Page 32</a> | INSERTS                                  | 2 SETS |               |



# KET HYT (150 TON) SLIP TYPE ELEVATOR

| PART NO. | DESCRIPTION                   | RANGE           | SIZE OF LINKS   | WT. |
|----------|-------------------------------|-----------------|-----------------|-----|
| 39284    | HYT ELEVATOR COMPLETE L/SLIPS | 2 3/8" - 3 1/2" | 2 1/4" - 3 1/2" | 740 |



## HYT SLIP ASSEMBLIES

| PART NO. | DESCRIPTION                                      | WT. |
|----------|--------------------------------------------------|-----|
| 39258-2  | 3 1/2" X 3 1/2" HYT SLIP ASSY.                   | 170 |
| 39258-4  | 3 1/2" X 2 7/8" HYT SLIP ASSY.                   | 170 |
| 39258-5  | 3 1/2" X 2 3/8" HYT SLIP ASSY.                   | 170 |
| 39259-2  | 2 7/8" X 2 7/8" HYT SLIP ASSY.                   | 170 |
| 39259-4  | 2 7/8" X 2 3/8" HYT SLIP ASSY.                   | 170 |
| 39174    | 3 1/2" HYT SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 150 |
| 39175    | 2 7/8" HYT SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 150 |

## HYT SETTING RINGS

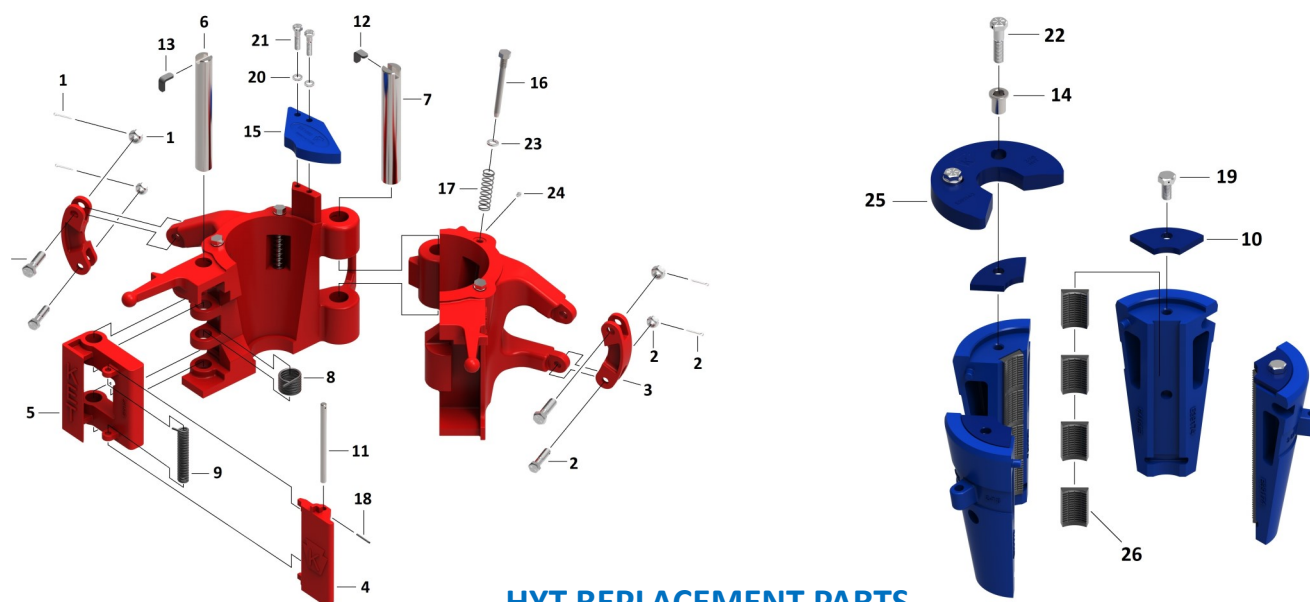
| PART NO. | DESCRIPTION             | #REQ. | WT.   |
|----------|-------------------------|-------|-------|
| 39214-3  | 3 1/2" HYT SETTING RING | 1     | 11.00 |
| 39214-2  | 2 7/8" HYT SETTING RING | 1     | 11.00 |
| 39214-1  | 2 3/8" HYT SETTING RING | 1     | 13.00 |

## HYT INSERTS

| PART NO. | DESCRIPTION            | #REQ. | WT.  |
|----------|------------------------|-------|------|
| 24774    | 3 1/2" X 3 1/2" INSERT | 32    | .50  |
| 30358    | 3 1/2" X 2 7/8" INSERT | 32    | .75  |
| 30358-23 | 3 1/2" X 2 3/8" INSERT | 32    | .80  |
| 24773    | 2 7/8" X 2 7/8" INSERT | 16    | .75  |
| 29255    | 2 7/8" X 2 3/8" INSERT | 16    | 1.00 |



# KET HYT SLIP TYPE ELEVATOR PARTS

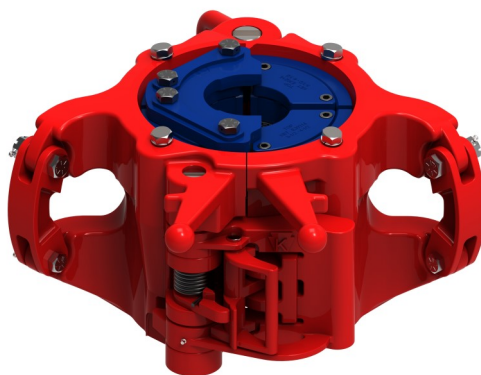


## HYT REPLACEMENT PARTS

| PART NO.   | ITEM | DESCRIPTION                                   | **SPARES | #REQ. | WT.   |
|------------|------|-----------------------------------------------|----------|-------|-------|
| 8145-1     | 1    | UPPER LINK BLOCK BOLT, NUT, & COTTER          | 2        | 2     | 0.87  |
| 8145-2     | 2    | LOWER LINK BLOCK BOLT, NUT, & COTTER          | 2        | 2     | 0.57  |
| 9519       | 3    | LINK BLOCK                                    |          | 2     | 5.20  |
| 39161      | 4    | LATCH LOCK                                    |          | 1     | 7.82  |
| 39162      | 5    | LATCH                                         |          | 1     | 36.03 |
| 39238      | 6    | LATCH PIN                                     |          | 1     | 9.18  |
| 39239      | 7    | HINGE PIN                                     |          | 1     | 12.05 |
| 39240      | 8    | LATCH SPRING                                  | 2        | 1     | 0.69  |
| 39241      | 9    | LATCH LOCK SPRING                             | 2        | 1     | 0.69  |
| 39246      | 10   | 2.875 INSERT RETAINER PLATE                   |          | 4     | 1.09  |
| 39247      | 10   | 3.5 INSERT RETAINER PLATE                     |          | 4     |       |
| 39251      | 11   | LATCH LOCK PIN                                |          | 1     | 0.84  |
| 39253      | 12   | HINGE PIN RETAINER                            | 2        | 1     |       |
| 39254      | 13   | LATCH PIN RETAINER                            | 2        | 1     | 0.05  |
| 51089      | 14   | SETTING RING BUSHING                          | 2        | 2     | 0.18  |
| 51090      | 15   | GUIDE PLATE                                   | 1        | 1     | 9.28  |
| 52321      | 16   | SLIP BOLT                                     | 8        | 4     | 0.76  |
| 52539-1    | 17   | SLIP SPRING                                   | 8        | 4     |       |
| Roll Pin   | 18   | 3/16-1-1/4 SPRING PIN—LATCH LOCK PIN RETAINER | 2        | 1     |       |
| 939098-36  | 19   | INSERT RETAINER PIN                           | 4        | 2     | 0.26  |
| 939098-634 | 20   | GUIDE PLATE WASHER                            | 2        | 2     |       |
| 939098-75  | 21   | GUIDE PLATE SCREW                             | 2        | 2     | 0.26  |
| 939098-96  | 22   | SETTING RING BOLT                             | 4        | 2     | 0.46  |
| 939352-6   | 23   | SLIP BOLT WASHER                              | 4        | 4     | 0.05  |
| 940308-1   | 24   | GREASE FITTING                                | 4        | 2     | 0.08  |
|            | 25   | SETTING RINGS                                 | 2        | 1     |       |
|            | 26   | INSERTS                                       | 2 SETS   | A/R   |       |

# KET YC (75 TON) SLIP TYPE ELEVATOR

| PART NO. | RANGE       | SIZE OF LINKS   | WEIGHT |
|----------|-------------|-----------------|--------|
| E24140   | 3 1/2" - 7" | 2 1/4" - 2 3/4" | 380.00 |



## YC SLIP ASSEMBLIES

| PART NO. | DESCRIPTION                                     | WT.    |
|----------|-------------------------------------------------|--------|
| 34931    | 4 1/2" X 3 1/2" YC SLIP ASSY.                   | 150.00 |
| 26830    | 4 1/2" X 4" YC SLIP ASSY.                       | 150.00 |
| 24072-5  | 4 1/2" X 4 1/2" YC SLIP ASSY.                   | 150.00 |
| 24072-7  | 5 1/2" X 5" YC SLIP ASSY.                       | 150.00 |
| 24072-2  | 5 1/2" X 5 1/2" YC SLIP ASSY.                   | 150.00 |
| 24077-1  | 7" X 7" YC SLIP ASSY.                           | 150.00 |
| 24077-7  | 7" X 6 5/8" YC SLIP ASSY                        | 150.00 |
| 24072-4  | 4 1/2" YC SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 130.00 |
| 24072    | 5 1/2" YC SLIP SEGMENTS ONLY (MATCHED SET OF 4) | 130.00 |
| 24077    | 7" YC SLIP SEGMENT ONLY (MATCHED SET OF 4)      | 130.00 |

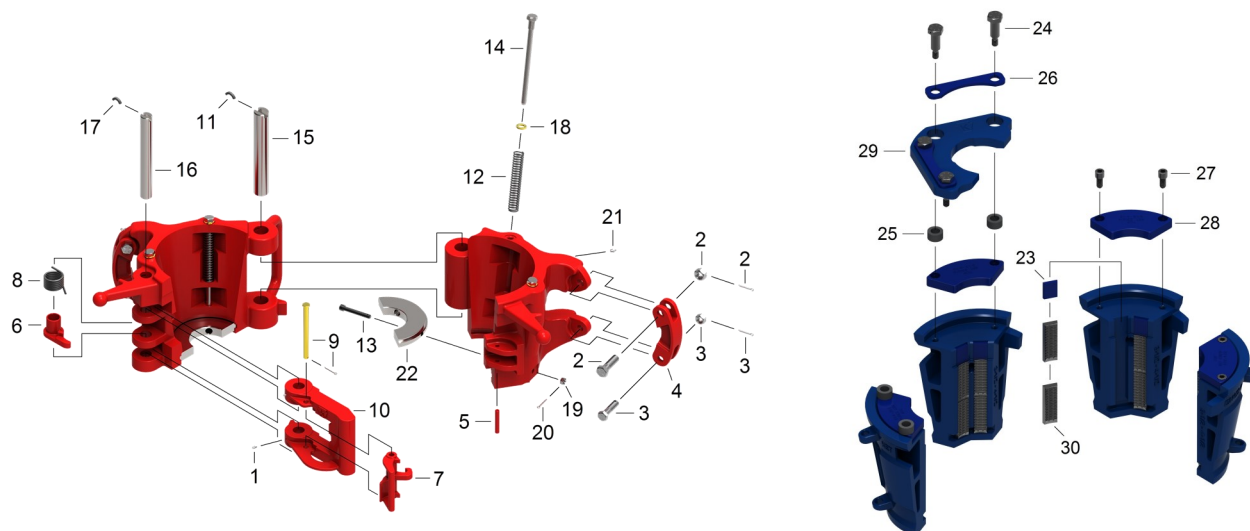
## YC SETTING PLATES

| PART NO. | DESCRIPTION          | #REQ. | WT.  |
|----------|----------------------|-------|------|
| 34932    | 3 1/2" SETTING PLATE | 1     | 8.00 |
| 30209    | 4" SETTING PLATE     | 1     | 8.00 |
| 30219    | 4 1/2" SETTING PLATE | 1     | 7.00 |
| 30220    | 5" SETTING PLATE     | 1     | 6.25 |
| 30223    | 5 1/2" SETTING PLATE | 1     | 6.13 |
| 30226    | 6 5/8" SETTING PLATE | 1     | 6.00 |
| 30229    | 7" SETTING PLATE     | 1     | 5.50 |

## YC BOTTOM GUIDE PLATES

| PART NO. | DESCRIPTION         | #REQ | WT   |
|----------|---------------------|------|------|
| 24071-2  | 7" BOTTOM GUIDE     | 1    | 3.75 |
| 24071-3  | 6 5/8" BOTTOM GUIDE | 1    | 4.50 |
| 24071-1  | 5 1/2" BOTTOM GUIDE | 1    | 5.50 |
| 24071    | 5" BOTTOM GUIDE     | 1    | 7.75 |
| 24071-4  | 4 1/2" BOTTOM GUIDE | 1    | 8.50 |
| 26827    | 4" BOTTOM GUIDE     | 1    | 8.50 |
| 26827-1  | 3 1/2" BOTTOM GUIDE | 1    | 8.00 |

# KET YC SLIP TYPE ELEVATOR PARTS



## YC REPLACEMENT PARTS

| ITEM | QTY | PART NO.  | DESCRIPTION                          | *SPARE | WT.   |
|------|-----|-----------|--------------------------------------|--------|-------|
| 1    | 1   | 316-SI    | LATCH GREASE ZERT                    |        |       |
| 2    | 2   | 8145-1    | UPPER LINK BLOCK BOLT, NUT, & COTTER | 2      | 1.00  |
| 3    | 2   | 8145-2    | LOWER LINK BLOCK BOLT, NUT, & COTTER | 2      | 1.00  |
| 4    | 2   | 9519      | LINK BLOCK                           |        | 5.20  |
| 5    | 1   | 12529     | DOOR LUG PIN                         |        | .65   |
| 6    | 1   | 12946     | LATCH CAM                            |        | 1.50  |
| 7    | 1   | 12972     | LATCH LOCK                           |        | 3.50  |
| 8    | 1   | 12978     | LATCH SPRING                         | 2      | 0.63  |
| 9    | 1   | 13530     | LATCH LOCK PIN W/COTTER              | 2      | 0.69  |
| 10   | 1   | 15348     | LATCH                                |        | 27.00 |
| 11   | 1   | 23116-1-R | HINGE PIN RETAINER                   | 2      | 0.20  |
| 12   | 4   | 24049     | SLIP SPRING                          | 8      | 0.30  |
| 13   | 4   | 24075     | BOTTOM GUIDE PLATE SCREW W/ NUT      |        | 0.84  |
| 14   | 4   | 24076     | SLIP BOLT                            | 4      | 1.05  |
| 15   | 1   | 24181     | HINGE PIN                            |        | 12.05 |
| 16   | 1   | 24182     | LATCH PIN                            |        | 0.18  |
| 17   | 1   | 29464     | LATCH PIN RETAINER                   | 2      | 0.20  |
| 18   | 4   | 939352-6  | LOCK WASHER F/ SLIP BOLTS            | 2      | 0.06  |
| 19   | 4   | 939484-5  | BOTTOM GUIDE PLATE NUT               |        | .25   |
| 20   | 4   | 939672    | BOTTOM GUIDE PLATE/ COTTER           |        | 0.05  |
| 21   | 1   | 940308-1  | GREASE ZERT                          |        | 0.05  |
| 22   | 1   | 24071-    | BOTTOM GUIDE PLATE                   |        |       |
| 23   | 4   | 24506     | INSERT SPACER                        | 4      | 0.25  |
| 24   | 4   | 30211     | SETTING PLATE BOLT                   | 4      | 0.25  |
| 25   | 4   | 30213     | RUBBER BUSHING                       | 8      | 0.05  |
| 26   | 2   | 30216     | SETTING RING RETAINER                |        | 0.25  |
| 27   | 4   | 941271-73 | INSERT RETAINER SCREW                | 8      | .13   |
| 28   | 4   | 30214     | INSERT RET. RING 3 1/2" - 4 1/2"     | 4      | 2.75  |
| 28   | 4   | 30224     | INSERT RET. RING 5" & 5 1/2"         | 4      | 2.13  |
| 28   | 4   | 30230     | INSERT RET. RING 6 5/8" & 7"         | 4      | 2.75  |
| 29   | 1   |           | SETTING PLATES                       | 2      |       |
| 30   |     |           | INSERTS                              | 2 SETS |       |

# KET HYC SLIP TYPE ELEVATOR PARTS

## HYC SETTING RINGS

| PART NO. | DESCRIPTION             | #REQ. | WT.   |
|----------|-------------------------|-------|-------|
| 70012    | 7 5/8" HYC SETTING RING | 1     | 11.00 |
| 55522    | 7" HYC SETTING RING     | 1     | 11.50 |
| 55521    | 6 5/8" HYC SETTING RING | 1     | 12.00 |
| 55520    | 5 1/2" HYC SETTING RING | 1     | 13.00 |
| 55519    | 5" HYC SETTING RING     | 1     | 14.50 |
| 55518    | 4 1/2" HYC SETTING RING | 1     | 15.00 |
| 55517    | 4" HYC SETTING RING     | 1     | 16.50 |
| 55516    | 3 1/2" HYC SETTING RING | 1     | 18.00 |

## HYC BOTTOM GUIDE PLATES

| PART NO. | DESCRIPTION                          | #REQ. | WT.  |
|----------|--------------------------------------|-------|------|
| 24071-6  | 7 5/8" HYC BOTTOM GUIDE PLATES (SET) | 1     | 5.02 |
| 24071-2  | 7" BOTTOM GUIDE                      | 1     | 3.75 |
| 24071-3  | 6 5/8" BOTTOM GUIDE                  | 1     | 4.50 |
| 24071-1  | 5 1/2" BOTTOM GUIDE                  | 1     | 5.50 |
| 24071    | 5" BOTTOM GUIDE                      | 1     | 7.75 |
| 24071-4  | 4 1/2" BOTTOM GUIDE                  | 1     | 8.50 |
| 26827    | 4" BOTTOM GUIDE                      | 1     | 8.50 |
| 26827-1  | 3 1/2" BOTTOM GUIDE                  | 1     | 8.00 |

RECOMMENDED SPARES INCLUDE 1 SET BOTTOM GUIDES FOR EACH PIPE SIZE TO BE RUN

# KET HYC 200 TON SLIP TYPE ELEVATOR PARTS

## HYC REPLACEMENT PARTS

| PART NO.  | DESCRIPTION                          | **SPARES | #REQ. | WT.   |
|-----------|--------------------------------------|----------|-------|-------|
| 55311     | HINGE PIN                            |          | 1     | 25.00 |
| 55312     | LATCH PIN                            |          | 1     | 9.00  |
| 34909     | LATCH SPRING                         | 2        | 1     | 1.50  |
| 13185     | LATCH SPRING STOP                    |          | 1     | .25   |
| 13152     | LATCH LOCK                           | 1        | 1     | 4.00  |
| 15101     | LATCH LOCK BOLT                      | 1        | 1     | .75   |
| 13188     | LATCH LOCK SPRING                    | 2        | 1     | .25   |
| 8150      | LATCH LOCK BOLT NUT                  | 1        | 1     | .25   |
| 939672-19 | COTTER PIN                           | 3        | 3     | .10   |
| 13190     | DOOR LUG PIN                         |          | 1     | .65   |
| 55504     | HINGE PIN RETAINER                   |          | 1     | .35   |
| 55505     | LATCH PIN RETAINER                   |          | 1     | .20   |
| 940308-1  | GREASE FITTING                       |          | 1     | .10   |
| 9519      | LINK BLOCK                           |          | 2     | 5.50  |
| 8145-1    | UPPER LINK BLOCK BOLT, NUT, & COTTER | 2        | 2     | .50   |
| 8145-2    | LOWER LINK BLOCK BOLT, NUT, & COTTER | 2        | 2     | .50   |
| 24076     | SLIP BOLT                            | 4        | 4     | 1.00  |
| 939354-6  | LOCKWASHER                           | 4        | 4     | .25   |
| 945044-2  | SLIP SPRING                          | 8        | 4     | .35   |
| 55508     | GUIDE PLATE SCREW                    | 8        | 4     | .26   |
| 939484-5  | GUIDE PLATE NUT                      | 8        | 4     | .03   |
| 939672-17 | COTTER PIN                           | 8        | 4     | .10   |
| 30216     | SETTING RING RETAINER (3 1/2" - 7")  | 2        | 2     | .25   |
| 70147     | SETTING RING RETAINER ( 7 5/8")      | 2        | 2     | .30   |
| 55501     | SHOULDER SCREW                       | 8        | 4     | .41   |
| 55502     | RUBBER BUSHING                       | 8        | 4     | .04   |
| 941271-73 | INSERT RETAINER SCREW                | 4        | 4     | .08   |
| 947879    | LOCK WIRE                            |          | A/R   | .01   |
| 70011     | 7 5/8" INSERT RETAINER               |          | 4     | 1.85  |
| 30230     | 7" INSERT RETAINER                   |          | 4     | 2.00  |
| 30224     | 5 1/2" INSERT RETAINER               |          | 4     | 2.50  |
| 30214     | 4 1/2" - 3 1/2" INSERT RETAINER      |          | 4     | 2.50  |

## HYC INSERTS

| PART NO. | DESCRIPTION            | #REQ. | WT.  |
|----------|------------------------|-------|------|
| 70010    | 7 5/8" X 7 5/8" INSERT | 48    | .50  |
| 16407    | 7" X 7" INSERT         | 48    | .50  |
| 24748    | 7" X 6 5/8" INSERT     | 48    | .75  |
| 16407    | 5 1/2" X 5 1/2" INSERT | 36    | .50  |
| 24783    | 5 1/2" X 5" INSERT     | 36    | .80  |
| 24785    | 5 1/2" X 4 1/2" INSERT | 36    | 1.05 |
| 16408    | 4 1/2" X 4 1/2" INSERT | 24    | .50  |
| 24781    | 4 1/2" X 4" INSERT     | 24    | .80  |
| 24779    | 4 1/2" X 3 1/2" INSERT | 24    | 1.00 |

## BASIC TYPE INSERTS FOR BJ™ ELEVATORS YC THROUGH 1000 TON

| PART NO.  | SLIP SIZE | PIPE SIZE (OD) | YC | NUMBER OF INSERTS REQUIRED |         |         |         |          | WT. (EA) |
|-----------|-----------|----------------|----|----------------------------|---------|---------|---------|----------|----------|
|           |           |                |    | 7 5/8"                     | 13 3/8" | 13 3/8" | 10 3/4" | 14"      |          |
|           |           |                |    | 175 TON                    | 350 TON | 350 TON | 500 TON | 1000 TON |          |
| 16441     | 3 1/2"    | 3 1/2"         |    | 18                         |         |         |         |          | .50      |
| 16442     | 4"        | 4"             | 16 |                            |         |         |         |          | .50      |
| 16408     | 4 1/2"    | 4 1/2"         | 16 | 27                         |         |         |         |          | .50      |
| 16407     | 5 1/2"    | 5 1/2"         | 16 | 27                         | 36      | 45      | 45      |          | .50      |
| 16407     | 7"        | 7"             | 24 |                            | 48      | 60      | 60      |          | .50      |
| 16407-HYC | 7 5/8"    | 7 5/8"         |    | 45                         | 60      | 75      | 75      |          | .50      |
| 15660     | 8 5/8"    | 8 5/8"         |    |                            | 60      |         | 75      |          | .50      |
| 15660     | 8 7/8"    | 8 7/8"         |    |                            |         |         |         | 108      | .50      |
| 15660     | 9 5/8"    | 9 5/8"         |    |                            | 72      | 90      | 90      |          | .50      |
| 15660     | 10 3/4"   | 10 3/4"        |    |                            | 72      |         | 90      |          | .50      |
| 15660     | 10 7/8"   | 10 7/8"        |    |                            |         |         |         | 126      | .50      |
| 15660     | 11 3/4"   | 11 3/4"        |    |                            | 72      | 105     |         |          | .50      |
| 15660     | 12 1/2"   | 12 1/2"        |    |                            |         |         |         | 144      | .50      |
| 15660     | 13 3/8"   | 13 3/8"        |    |                            | 84      | 135     |         |          | .50      |
| 15660     | 14"       | 14"            |    |                            |         |         |         | 162      | .50      |

## REDUCING INSERTS FOR BJ® ELEVATORS YC THROUGH 1000 TON

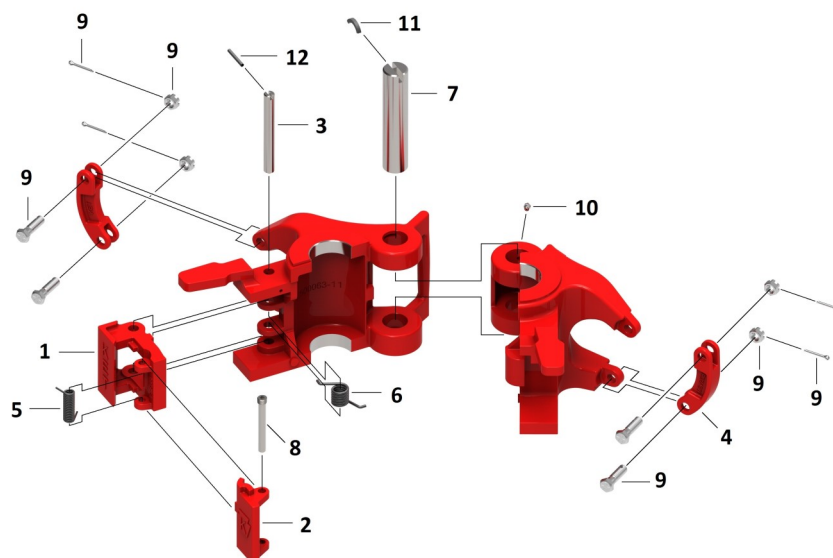
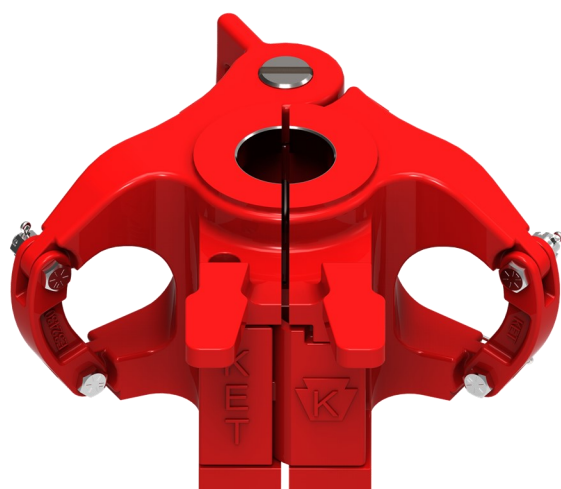
| PART NO.  | SLIP SIZE | PIPE SIZE (OD) | YC | NUMBER OF INSERTS REQUIRED |         |         |         |          | WT. (EA) |
|-----------|-----------|----------------|----|----------------------------|---------|---------|---------|----------|----------|
|           |           |                |    | 7 5/8"                     | 13 3/8" | 13 3/8" | 10 3/4" | 14"      |          |
|           |           |                |    | 175 TON                    | 350 TON | 500 TON | 500 TON | 1000 TON |          |
| 25780     | 3 1/2"    | 2 7/8"         |    | 18                         |         |         |         |          | .85      |
| 24777     | 3 1/2"    | 2 3/8"         |    | 18                         |         |         |         |          | 1.20     |
| 24781     | 4 1/2"    | 4"             | 16 | 27                         |         |         |         |          | .80      |
| 24779     | 4 1/2"    | 3 1/2"         | 16 | 27                         |         |         |         |          | 1.00     |
| 24783     | 5 1/2"    | 5"             | 16 | 27                         | 36      | 45      | 45      |          | .80      |
| 24785     | 5 1/2"    | 4 1/2"         | 16 | 27                         | 36      | 45      | 45      |          | 1.05     |
| 24748     | 7"        | 6 5/8"         | 24 |                            | 48      | 60      | 60      |          | .75      |
| 25474     | 7 5/8"    | 6 5/8"         |    | 45                         | 60      | 75      | 75      |          | 1.05     |
| 26750     | 7 5/8"    | 7"             |    | 45                         | 60      | 75      | 75      |          | .90      |
| 26750-HYC | 7 5/8"    | 7"             |    | 45                         | 60      | 75      | 75      |          | .90      |
| 25474     | 8 5/8"    | 7 5/8"         |    | 45                         | 60      |         | 75      |          | 1.05     |
| 39290     | 8 7/8"    | 7 5/8"         |    |                            |         |         |         | 108      | 1.20     |
| 39286     | 8 7/8"    | 8 5/8"         |    |                            |         |         |         | 108      | .65      |
| 25474     | 9 5/8"    | 8 5/8"         |    |                            | 72      | 90      | 90      |          | 1.05     |
| 33249     | 10 3/4"   | 9 5/8"         |    |                            | 72      |         | 90      |          | 1.15     |
| 39290     | 10 7/8"   | 9 5/8"         |    |                            |         |         |         | 126      | 1.30     |
| 39285     | 10 7/8"   | 10 3/4"        |    |                            |         |         |         | 126      | .60      |
| 25474     | 11 3/4"   | 10 3/4"        |    |                            | 72      | 105     |         | 126      | 1.05     |
| 39289     | 12 1/2"   | 11 3/4"        |    |                            |         |         |         | 144      | .90      |
| 32700     | 14"       | 13 3/8"        |    |                            |         |         |         | 162      | .90      |

# INSERTS FOR VARCO™ ELEVATORS/SPIDERS

| PART NO. | DESC.   | REF#  | SLIP SIZE | PIPE SIZE (OD)<br>7 5/8" | NUMBER OF INSERTS REQUIRED |                |                |                |                 |                |                | WT (EA) |
|----------|---------|-------|-----------|--------------------------|----------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|---------|
|          |         |       |           |                          | 200 TON<br>14"             | 350 TON<br>14" | 500 TON<br>14" | 750 TON<br>24" | 1000 TON<br>24" | 500 TON<br>24" | 750 TON<br>24" |         |
| 23-157   | REDUCER | 2160  | 3 1/2"    | 2 3/8"                   | 12/12B                     |                |                |                |                 |                |                | .87     |
| 23-156   | REDUCER | 2161  | 3 1/2"    | 2 7/8"                   | 12/12B                     |                |                |                |                 |                |                | .64     |
| 23-155   | BASIC   | 2162  | 3 1/2"    | 3 1/2"                   | 24                         |                |                |                |                 |                |                | .42     |
| 23-160   | REDUCER | 2163  | 4 1/2"    | 3 1/2"                   | 16/16B                     |                |                |                |                 |                |                | .81     |
| 23-159   | REDUCER | 2164  | 4 1/2"    | 4"                       | 16/16B                     |                |                |                |                 |                |                | .61     |
| 23-158   | BASIC   | 2165  | 4 1/2"    | 4 1/2"                   | 32                         |                |                |                |                 |                |                | .42     |
| 23-163   | REDUCER | 2168  | 5 1/2"    | 4 1/2"                   | 16/16B                     | 24/16B         | 32/16B         |                |                 |                |                | .81     |
| 23-165   | REDUCER | 2169  | 5 1/2"    | 5"                       | 16/16B                     | 24/16B         | 32/16B         |                |                 |                |                | .61     |
| 23-164   | BASIC   | 2170  | 5 1/2"    | 5 1/2"                   | 32                         | 40             | 48             |                |                 |                |                | .42     |
| 23-168   | REDUCER | 2632  | 7 5/8"    | 6 5/8"                   | 24/24B                     | 36/24B         | 48/24B         | 60/24B         |                 |                |                | .81     |
| 23-169   | REDUCER | 2623  | 7 5/8"    | 7"                       | 24/24B                     | 36/24B         | 48/24B         | 60/24B         |                 |                |                | .64     |
| 23-170   | BASIC   | 2633  | 7 5/8"    | 7 5/8"                   | 48                         | 60             | 72             | 84             |                 |                |                | .42     |
| 23-171   | REDUCER | 2640  | 9 5/8"    | 8 5/8"                   |                            | 48/32B         | 64/32B         | 80/32B         | 96/24B          |                |                | .81     |
| 23-170   | BASIC   | 2633  | 9 5/8"    | 9 5/8"                   |                            | 48/32B         | 64/32B         | 80/32B         | 96/24B          |                |                | .81     |
| 23-171   | REDUCER | 2640  | 11 3/4"   | 10 3/4"                  |                            | 60/40B         | 80/40B         | 100/40B        | 144/36B         |                |                | .81     |
| 23-172   | BASIC   | 2637  | 11 3/4"   | 11 3/4"                  |                            | 100            | 120            | 140            | 180             |                |                | .42     |
| 23-172   | BASIC   | 2637  | 13 3/8"   | 13 3/8"                  |                            | 100            | 120            | 140            |                 |                |                | .42     |
| 23-173   | REDUCER | 2636  | 14"       | 13 3/8"                  |                            | 60/40B         | 80/40B         | 100/40B        | 144/36B         |                |                | .64     |
| 23-174   | BASIC   | 2635  | 14"       | 14"                      |                            | 100            | 120            | 140            | 180             |                |                | .42     |
| 23-174   | BASIC   | 2635  | 16"       | 16"                      |                            |                |                |                | 240             | 180            | 210            | .42     |
| 23-175   | REDUCER | 13868 | 20"       | 18 5/8"                  |                            |                |                |                | 720             | 420            | 510            | .52     |
| 23-174   | BASIC   | 2635  | 20"       | 20"                      |                            |                |                |                | 300             | 180            | 210            | .42     |
| 23-174   | BASIC   | 2635  | 24"       | 24"                      |                            |                |                |                |                 | 180            | 210            | .42     |

# KET TMA (100 TON) ELEVATOR

| PART NO. | RANGE       | SIZE OF LINKS | WEIGHT |
|----------|-------------|---------------|--------|
| 500063   | 2-3/8" - 5" | 1-3/4"-2-3/4" | 132.00 |



## REPLACEMENT PARTS FOR TMA ELEVATORS

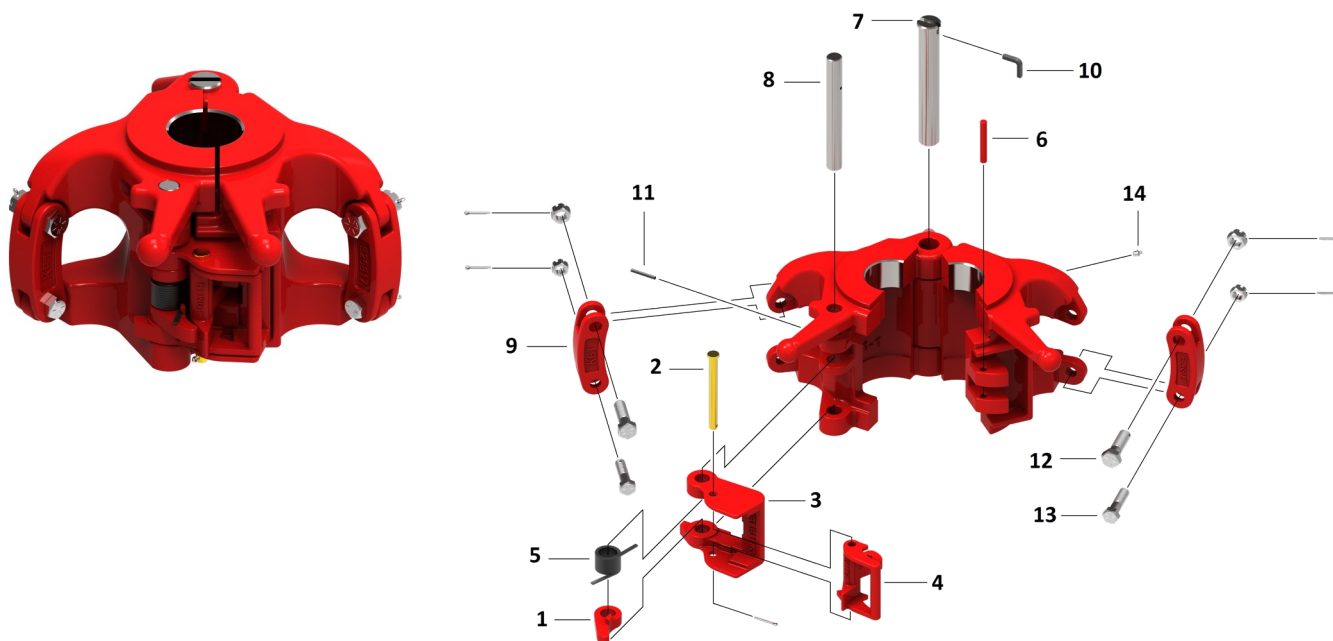
| ITEM | QTY | PART NO.    | DESCRIPTION                      | SPARES | WEIGHT |
|------|-----|-------------|----------------------------------|--------|--------|
| 1    | 1   | 32380       | LATCH                            |        | 6.36   |
| 2    | 1   | 32381-1     | LATCH LOCK                       |        | 2.38   |
| 3    | 1   | 32424-1     | LATCH PIN                        |        | 0.78   |
| 4    | 2   | 32430       | LINK BLOCK                       |        | 2.25   |
| 5    | 1   | 32758       | LATCH LOCK SPRING                | 2      | .125   |
| 6    | 1   | 32760       | LATCH SPRING                     | 2      | .180   |
| 7    | 1   | 32915       | HINGE PIN                        |        | 5.48   |
| 8    | 1   | 36208       | LATCH LOCK PIN                   | 1      | .240   |
| 9    | 4   | 939099-65-2 | LINK BLOCK BOLT, NUT, AND COTTER | 4      | 0.12   |
| 10   | 1   | 940308-1    | GREASE FITTING                   | 2      | 0.02   |
| 11   | 1   | 32915-R     | HING PIN RETAINER                | 2      | 0.12   |
| 12   | 1   | 32424-1-R   | LATCH PIN RETAINER               | 2      | 0.12   |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS



# KET MRA(175 TON) CENTER LATCH ELEVATOR

| PART NO. | RANGE         | SIZE OF LINKS | WEIGHT |
|----------|---------------|---------------|--------|
| 30158    | 2-3/8"-5-1/2" | 1-3/4"-2-3/4" | 210.00 |

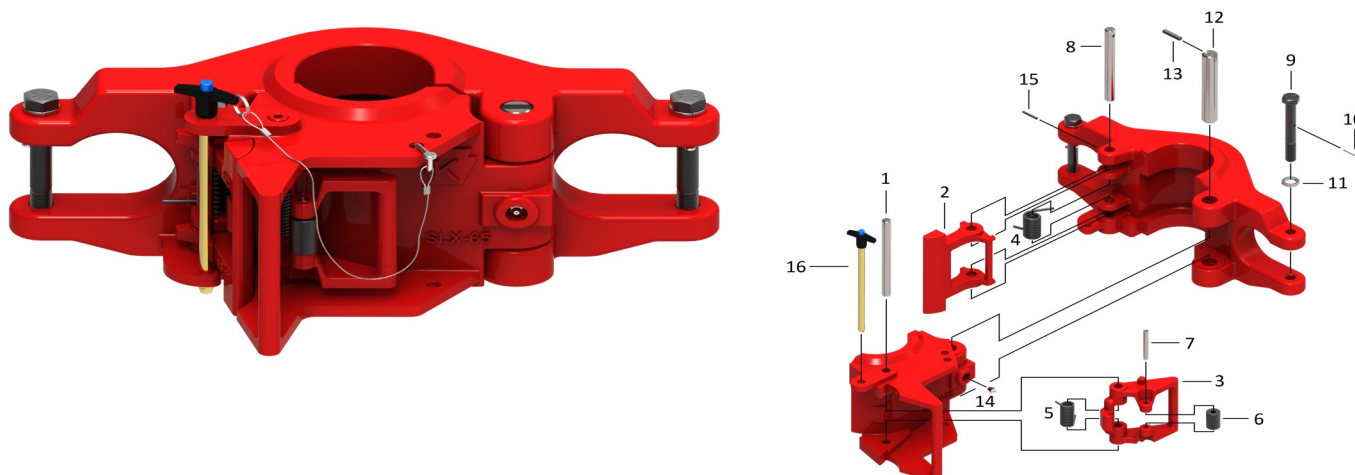


## REPLACEMENT PARTS FOR MRA ELEVATORS

| ITEM                                                        | QTY | PART NO.  | DESCRIPTION                          | SPARES | WEIGHT |
|-------------------------------------------------------------|-----|-----------|--------------------------------------|--------|--------|
| 1                                                           | 1   | 11581     | LATCH CAM                            | 1      | 0.12   |
| 2                                                           | 1   | 11759     | LATCH LOCK PIN                       | 1      | 2.09   |
| 3                                                           | 1   | 11763     | LATCH                                |        | 9.04   |
| 4                                                           | 1   | 11764     | LATCH LOCK                           | *      | 3.00   |
| 5                                                           | 1   | 11766     | LATCH SPRING                         | 2      | 0.10   |
| 6                                                           | 1   | 12529     | LATCH LUG PIN                        |        | 0.03   |
| 7                                                           | 1   | 26813-2   | HINGE PIN                            | *      | 4.09   |
| 8                                                           | 1   | 26814     | LATCH PIN                            | *      | 2.09   |
| 9                                                           | 1   | 26817     | LINK BLOCK                           |        | 3.08   |
| 10                                                          | 1   | 26813-2-R | HINGE PIN RETAINER                   | 2      | 0.12   |
| 11                                                          | 1   | 8156      | LATCH PIN RETAINER                   | 2      | 0.12   |
| 12                                                          | 2   | 8145-1    | UPPER LINK BLOCK BOLT, NUT, & COTTER | 2      | 0.12   |
| 13                                                          | 2   | 8145-2    | LOWER LINK BLOCK BOLT, NUT, & COTTER | 2      | 0.12   |
| 14                                                          | 1   | 940308-1  | GREASE ZERT                          | 2      | 0.02   |
| 1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF * THESE ITEMS |     |           |                                      |        |        |

# KET SLX—65 (65 TON) SIDE DOOR ELEVATOR

| KET NO. | RANGE           | WT.    |
|---------|-----------------|--------|
| E38-045 | 3 1/2" - 5"     | 160.00 |
| E38-067 | 5 1/2" - 8 5/8" | 190.00 |
| E38-809 | 9" - 10 3/4"    | 218.00 |
| E38-137 | 11" - 14 1/4"   | 275.00 |



## KET REPLACEMENT PARTS FOR SLX-65 ELEVATOR

| KET #      | ITEM # | DESCRIPTION                                           | SPARES | # REQ | WT.  |
|------------|--------|-------------------------------------------------------|--------|-------|------|
| 29980-4    | 1      | LATCH LOCK PIN                                        |        | 1     | 0.50 |
| 31331      | 2      | LATCH                                                 |        | 1     | 4.50 |
| 31332      | 3      | LATCH LOCK                                            |        | 1     | 3.50 |
| 31383      | 4      | LATCH SPRING                                          | 2      | 1     | 0.45 |
| 31404      | 5      | LATCH LOCK SPRING                                     | 2      | 1     | 0.19 |
| 31407      | 6      | LATCH LOCK ROLLER                                     |        | 1     | 0.38 |
| 31584      | 7      | LATCH LOCK ROLLER PIN                                 |        | 1     | 0.13 |
| 32424-3    | 8      | LATCH PIN                                             |        | 1     | 0.83 |
| 34X6       | 9      | LINK BLOCK BOLT (E38-045 FRAME)                       | 2      | 2     | 0.75 |
| 34X7       | 9      | LINK BLOCK BOLT (E38-067, 38-137, 38-809 FRAME)       | 2      | 2     | 0.75 |
| 34X7-C     | 10     | LINK BLOCK BOLT COTTER                                |        | 1     | 0.04 |
| 34X7-W     | 11     | LINK BLOCK BOLT LOCK WASHER                           |        | 1     | 0.07 |
| 34611      | 12     | HINGE PIN (E38-137, 38-809 FRAME)                     |        | 1     | 2.00 |
| 34612      | 12     | HINGE PIN (E38-045, 38-067 FRAME)                     |        | 1     | 2.00 |
| 34611-R    | 13     | HINGE PIN RETAINER (E38-137, 38-809 FRAME)            |        | 1     | 0.06 |
| 34614      | 13     | HINGE PIN RETAINER (E38-045, 38-067 FRAME)            |        | 1     | 0.06 |
| 940308-1   | 14     | 1/8 NPT GREASE ZERT                                   | 1      | 1     | 0.08 |
| 947128-120 | 15     | LATCH PIN RETAINER                                    | 1      | 1     | 0.08 |
| 39-051-4   | 16     | SAFETY LATCH LOCK PIN E38-045 FRAME)                  | 2      | 1     | 0.50 |
| 39-051-5   | 16     | SAFETY LATCH LOCK PIN (E38-067, 38-809, 38-137 FRAME) | 2      |       |      |

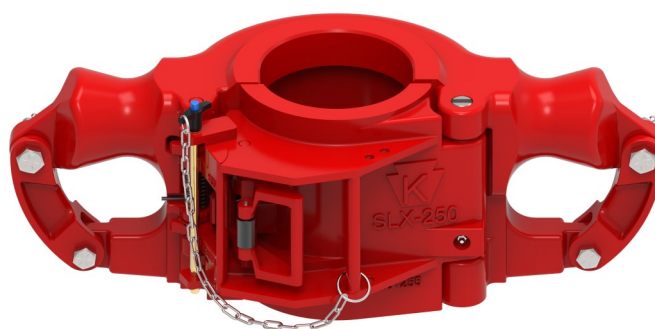
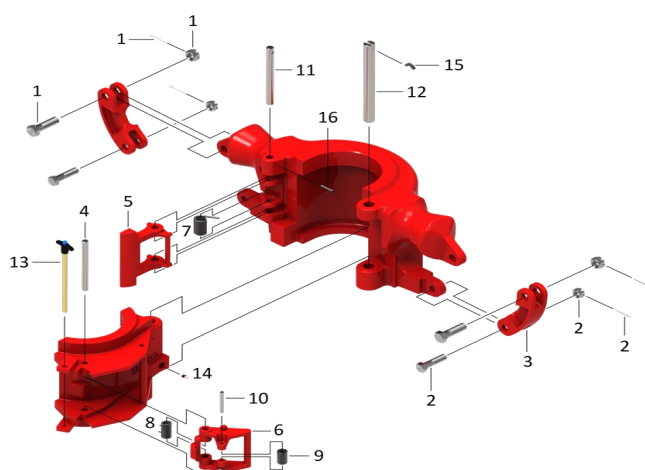
# KET SLX (150– 250 TON) SIDE DOOR ELEVATOR

## (150 Ton)

| KET NO. | 150 TON RANGE    | WT.    |
|---------|------------------|--------|
| E31239  | 5" - 8 5/8"      | 300.00 |
| E33950  | 9 5/8" - 10 3/4" | 420.00 |
| E33982  | 11 3/4" - 14"    | 475.00 |

## (250 Ton)

| KET NO. | 250 TON RANGE    | WT.    |
|---------|------------------|--------|
| E31250  | 5 1/2" - 8 5/8"  | 300.00 |
| E33650  | 9 5/8" - 10 3/4" | 420.00 |
| E33850  | 11 3/4" - 14"    | 475.00 |



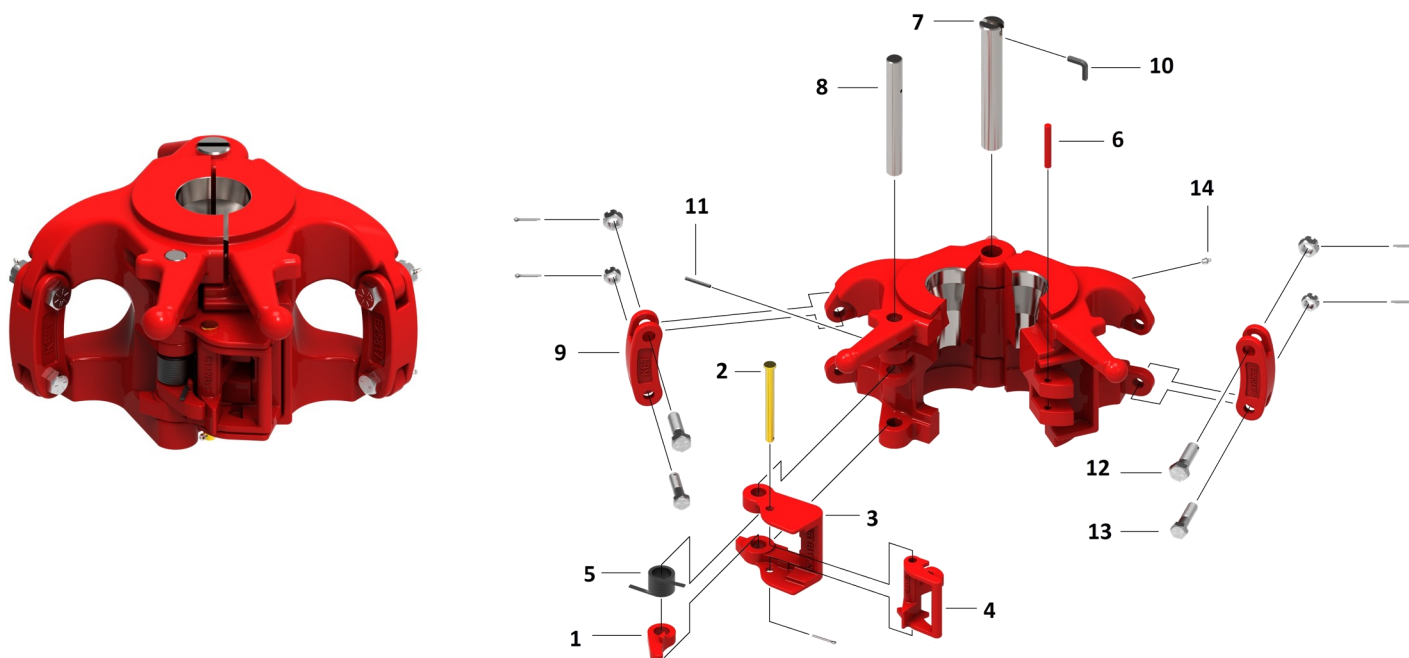
## KET REPLACEMENT PARTS FOR SLX-150 & 250 ELEVATORS

| KET #      | ITEM # | DESCRIPTION                                      | SPARES | # REQ | WT.  |
|------------|--------|--------------------------------------------------|--------|-------|------|
| 8145-1     | 1      | UPPER LINK BLOCK BOLT, NUT, CUTTER               | 2      | 2     | 1.13 |
| 8145-2     | 2      | LOWER LINK BLOCK BOLT, NUT, CUTTER               | 2      | 2     | 1.13 |
| 9519       | 3      | LINK BLOCK                                       |        | 2     | 5.50 |
| 29980-4    | 4      | LATCH LOCK PIN                                   | 1      | 1     | 0.50 |
| 31331      | 5      | LATCH                                            |        | 1     | 4.50 |
| 31332      | 6      | LATCH LOCK                                       |        | 1     | 3.50 |
| 31383      | 7      | LATCH SPRING                                     | 2      | 1     | 0.44 |
| 31404      | 8      | LATCH LOCK SPRING                                | 2      | 2     | 0.19 |
| 31407      | 9      | LATCH LOCK ROLLER                                |        | 1     | 0.38 |
| 31584      | 10     | LATCH LOCK ROLLER PIN                            |        | 1     | 0.13 |
| 32424-5    | 11     | LATCH PIN                                        | 1      | 1     | 0.75 |
| 34611      | 12     | HINGE PIN (E31239 FRAME) (E31250 FRAME)          |        | 1     | 4.44 |
| 33953      | 12     | HINGE PIN (E33950 FRAME) (E33650 FRAME)          |        | 1     | 6.25 |
| 33985      | 12     | HINGE PIN (E33982 FRAME) (E33850 FRAME)          |        | 1     | 8.50 |
| 39-051-5   | 13     | SAFETY LATCH LOCK PIN                            | 2      | 1     | 0.50 |
| 940308-1   | 14     | 1/8 NPT GREASE ZERT                              | 1      | 1     | 0.80 |
| 34614      | 15     | HINGE PIN RETAINER (E31239 FRAME) (E31250 FRAME) |        | 1     | 0.09 |
| 34614-1    | 15     | HINGE PIN RETAINER (E33950 FRAME) (E33650 FRAME) |        | 1     | 0.06 |
| 34614-2    | 15     | HINGE PIN RETAINER (E33982 FRAME) (E33850 FRAME) |        | 1     | 0.04 |
| 947128-120 | 16     | LATCH PIN RETAINER (SPRING PIN)                  | 1      | 1     | 0.08 |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS

# KET MG (100 TON) BOTTLENECK ELEVATOR

| PART NO. | RANGE       | SIZE OF LINKS   | WEIGHT |
|----------|-------------|-----------------|--------|
| 30157    | 2-3/8" - 5" | 1-3/4" - 2-3/4" | 240.00 |



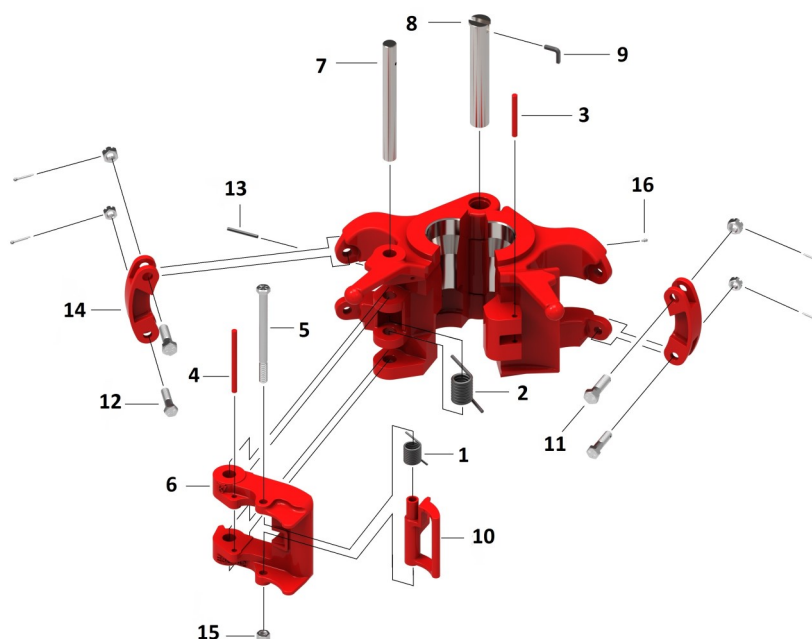
## REPLACEMENT PARTS FOR MG ELEVATORS

| ITEM | QTY | PART NO.  | DESCRIPTION                          | SPARES | WEIGHT |
|------|-----|-----------|--------------------------------------|--------|--------|
| 1    | 1   | 11581     | LATCH CAM                            | 1      | 0.12   |
| 2    | 1   | 11759     | LATCH LOCK PIN                       | 1      | 2.09   |
| 3    | 1   | 11763     | LATCH                                |        | 9.04   |
| 4    | 1   | 11764     | LATCH LOCK                           | *      | 3.00   |
| 5    | 1   | 11766     | LATCH SPRING                         | 2      | 0.05   |
| 6    | 1   | 12529     | LATCH LUG PIN                        |        | 0.03   |
| 7    | 1   | 26813-2   | HINGE PIN                            | *      | 4.09   |
| 8    | 1   | 26814     | LATCH PIN                            | *      | 2.09   |
| 9    | 1   | 26817     | LINK BLOCK                           |        | 3.08   |
| 10   | 1   | 26813-2-R | HINGE PIN RETAINER                   | 2      | 0.12   |
| 11   | 1   | 8156      | LATCH PIN RETAINER                   | 2      | 0.12   |
| 12   | 2   | 8145-1    | UPPER LINK BLOCK BOLT, NUT, & COTTER | 2      | 0.12   |
| 13   | 2   | 8145-2    | LOWER LINK BLOCK BOLT, NUT, & COTTER | 2      | 0.12   |
| 14   | 1   | 940308-1  | GREASE ZERT                          | 2      | 0.02   |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS

## KET RG (150 TON) BOTTLENECK ELEVATOR

| PART NO. | RANGE         | SIZE OF LINKS | WEIGHT |
|----------|---------------|---------------|--------|
| 30155    | 2-3/8"-4-1/2" | 1-3/4"-2-3/4" | 320.00 |



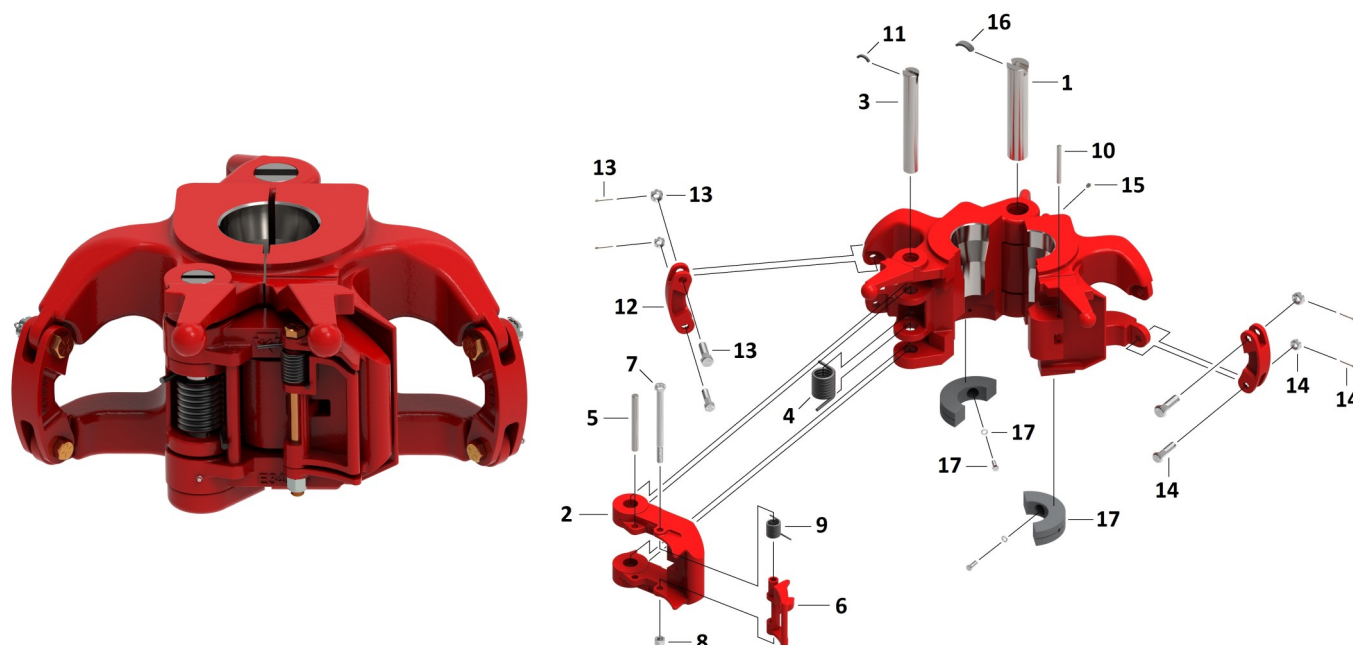
### REPLACEMENT PARTS FOR RG ELEVATORS

| ITEM | QTY | PART NO. | DESCRIPTION                          | SPARES | WEIGHT |
|------|-----|----------|--------------------------------------|--------|--------|
| 1    | 1   | 13188    | LATCH LOCK SPRING                    | 2      | 0.30   |
| 2    | 1   | 23546    | LATCH SPRING                         | 2      | 1.00   |
| 3    | 1   | 23547    | LATCH LUG PIN                        |        | 0.32   |
| 4    | 1   | 23548    | SPRING STOP PIN                      | 1      | 0.94   |
| 5    | 1   | 23553    | LATCH LOCK BOLT & NUT                | 2      | 1.30   |
| 6    | 1   | 30142    | LATCH                                |        | 44.00  |
| 7    | 1   | 30148    | LATCH PIN                            | *      | 4.00   |
| 8    | 1   | 30149    | HINGE PIN                            | *      | 7.00   |
| 9    | 1   | 30149-1  | HINGE PIN RETAINER                   | 2      | 0.13   |
| 10   | 1   | 30150    | LATCH LOCK                           | *      | 4.00   |
| 11   | 2   | 8145-1   | UPPER LINK BLOCK BOLT, NUT, & COTTER |        | 0.50   |
| 12   | 2   | 8145-2   | LOWER LINK BLOCK BOLT, NUT, & COTTER |        | 0.75   |
| 13   | 1   | 8156     | LATCH PIN RETAINER                   | 2      | 0.10   |
| 14   | 2   | 9519-1   | LINK BLOCK                           |        | 5.50   |
| 15   | 1   | 939484-8 | LATCH LOCK NUT                       |        | 0.20   |
| 16   | 1   | 940308-1 | GREASE ZERT                          | 2      | 0.10   |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS

# KET MGG (250 TON) BOTTLENECK ELEVATOR

| PART NO. | RANGE         | SIZE OF LINKS | WEIGHT |
|----------|---------------|---------------|--------|
| 35005    | 3-1/2"-5-1/2" | 2-1/4"-3-1/2" | 600.00 |



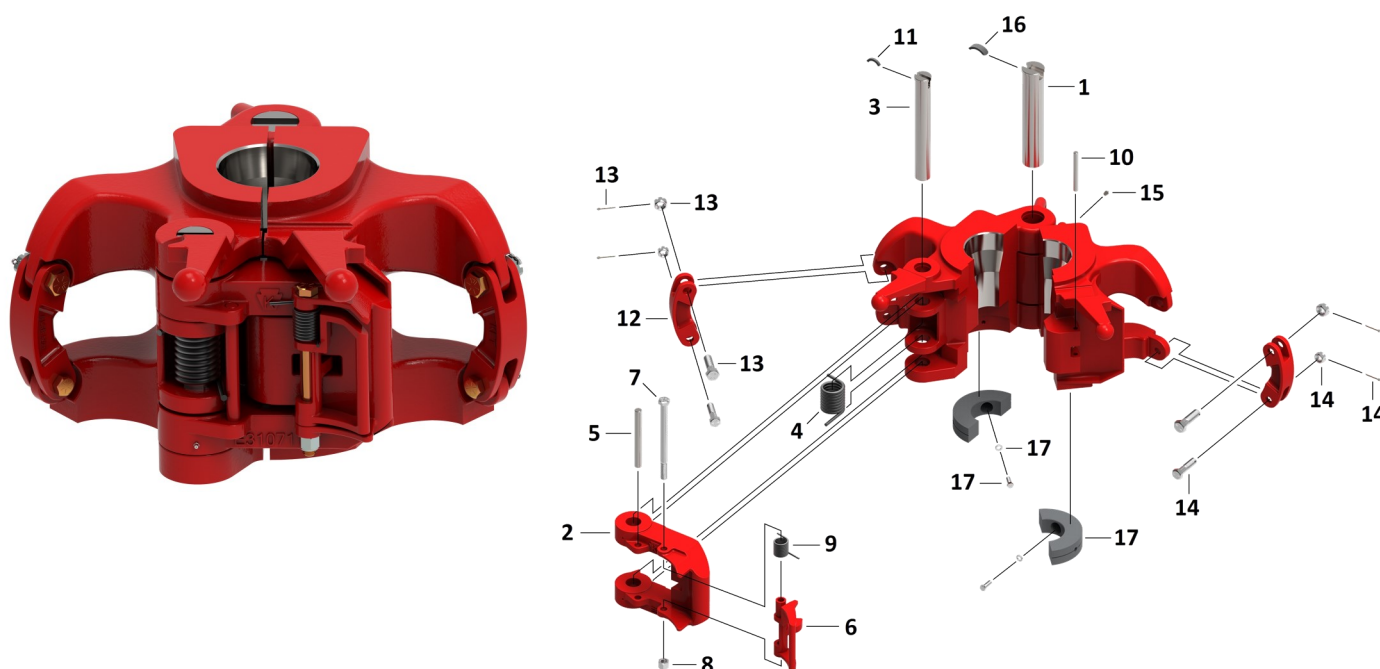
## REPLACEMENT PARTS FOR MGG ELEVATORS

| ITEM                                                        | QTY | PART NO. | DESCRIPTION                                     | SPARES | WEIGHT |
|-------------------------------------------------------------|-----|----------|-------------------------------------------------|--------|--------|
| 1                                                           | 1   | 34908    | HINGE PIN                                       | *      | 15.50  |
| 2                                                           | 1   | 34906    | LATCH                                           |        | 57.00  |
| 3                                                           | 1   | 34907    | LATCH PIN                                       | *      | 7.31   |
| 4                                                           | 1   | 34909    | LATCH SPRING                                    | 2      | 2.50   |
| 5                                                           | 1   | 13185    | SPRING STOP PIN                                 | 1      | 0.94   |
| 6                                                           | 1   | 13152    | LATCH LOCK                                      | *      | 4.00   |
| 7                                                           | 1   | 15101    | LATCH LOCK BOLT & NUT                           | 2      | 1.30   |
| 8                                                           | 1   | 939484-8 | LATCH LOCK BOLT NUT                             | 2      | 0.20   |
| 9                                                           | 1   | 13188    | LATCH LOCK SPRING                               | 2      | 0.30   |
| 10                                                          | 1   | 13190    | DOOR LUG PIN                                    |        | 0.32   |
| 11                                                          | 1   | 34911    | LATCH PIN RETAINER                              | 2      | 0.13   |
| 12                                                          | 2   | 9519     | LINK BLOCK                                      |        | 5.50   |
| 13                                                          | 2   | 8145-1   | UPPER LINK BLOCK BOLT, NUT, & COTTER            | 2      | 0.50   |
| 14                                                          | 2   | 8145-2   | LOWER LINK BLOCK BOLT, NUT, & COTTER            | 2      | 0.75   |
| 15                                                          | 1   | 940308-1 | GREASE FITTING                                  |        | 0.10   |
| 16                                                          | 1   | 34910    | HINGE PIN RETAINER                              | 2      | 0.19   |
| 17                                                          | 1   | 200275-  | 3-1/2"-5-1/2" WEAR BUSHING F/MGG & GG ELEVATORS | 2      | 2.75   |
| 1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF * THESE ITEMS |     |          |                                                 |        |        |



# KET GG (350 TON) BOTTLENECK ELEVATOR

| PART NO. | RANGE         | SIZE OF LINKS | WEIGHT |
|----------|---------------|---------------|--------|
| 31068    | 3-1/2"-5-7/8" | 2-1/4"-3-1/2" | 700.00 |



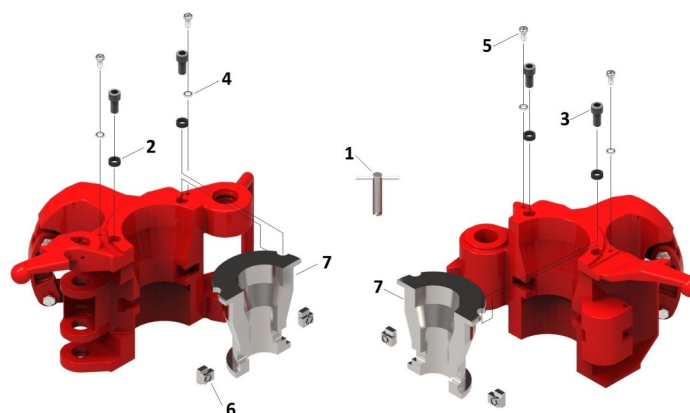
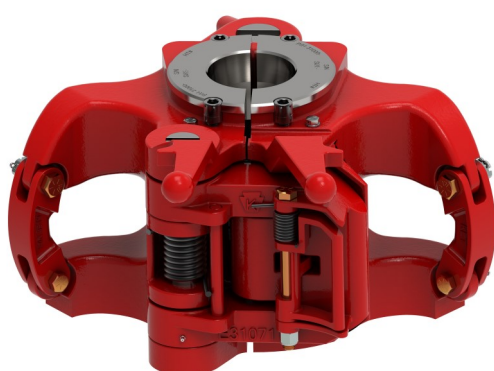
## REPLACEMENT PARTS FOR GG ELEVATORS

| ITEM | QTY | PART NO. | DESCRIPTION                                       | SPARES | WEIGHT |
|------|-----|----------|---------------------------------------------------|--------|--------|
| 1    | 1   | 33998    | HINGE PIN                                         | *      | 15.50  |
| 2    | 1   | 31071    | LATCH                                             |        | 57.00  |
| 3    | 1   | 33999    | LATCH PIN                                         | *      | 7.31   |
| 4    | 1   | 18416    | LATCH SPRING                                      | 2      | 2.50   |
| 5    | 1   | 13185    | SPRING STOP PIN                                   | 1      | 0.94   |
| 6    | 1   | 13152    | LATCH LOCK                                        | *      | 4.00   |
| 7    | 1   | 15101    | LATCH LOCK BOLT                                   | 2      | 1.30   |
| 8    | 1   | 939484-8 | LATCH LOCK BOLT NUT                               | 2      | 0.20   |
| 9    | 1   | 13188    | LATCH LOCK SPRING                                 | 2      | 0.30   |
| 10   | 1   | 13190    | DOOR LUG PIN                                      |        | 0.32   |
| 11   | 1   | 32892    | LATCH PIN RETAINER                                | 2      | 0.13   |
| 12   | 2   | 9519     | LINK BLOCK                                        |        | 5.50   |
| 13   | 2   | 8145-1   | UPPER LINK BLOCK BOLT, NUT, & COTTER              | 2      | 0.50   |
| 14   | 2   | 8145-2   | LOWER LINK BLOCK BOLT, NUT, & COTTER              | 2      | 0.75   |
| 15   | 1   | 940308-1 | GREASE FITTING                                    |        | 0.10   |
| 16   | 1   | 31074    | HINGE PIN RETAINER                                | 2      | 0.19   |
| 17   | 1   | 200275-  | 3-1/2" - 5-1/2" WEAR BUSHING F/MGG & GG ELEVATORS | 2      | 2.75   |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS

# KET BUSHING TYPE ELEVATOR (MGG-GG)

| PART NO.        | RANGE         | SIZE OF LINKS | WEIGHT (LBS.) |
|-----------------|---------------|---------------|---------------|
| 35005-IB (MGG)  | 2-7/8"-5"     | 2-1/4"-3-1/2" | 600.00        |
| 31068-IB (GG)   | 2-7/8"-5"     | 2-1/4"-3-1/2" | 750.00        |
| 31068-IB-2 (GG) | 2-7/8"-5 1/2" | 2-1/4"-3-1/2" | 800.00        |



## REPLACEMENT PARTS FOR BUSHING TYPE ELEVATORS

| ITEM | QTY | PART NO.   | DESCRIPTION                                               | SPARES | WEIGHT (LBS.) |
|------|-----|------------|-----------------------------------------------------------|--------|---------------|
| 1    | 1   | 35002-T    | LOCK-BLOCK TOOL                                           | 1      | 0.755         |
| 2    | 4   | 35001-S    | RETAINER BUSHING                                          | 4      | 0.065         |
| 3    | 4   | 35001      | RETAINER BOLT                                             | 4      | 0.300         |
| 4    | 4   | 35007      | LOCK WASHER                                               | 4      | 0.015         |
| 5    | 4   | 35006      | SAFETY WIRE SCREW                                         | 4      | 0.075         |
| 6    | 4   | 35002-ASSY | LOCK-BLOCK-ASSY.                                          | 4      | 0.335         |
| 7    | 1   | 35000-     | MGG BUSHING SET (SEE CHARTS BELOW FOR SPECIFIC SIZES)     | 1      | SEE BELOW     |
| 7    | 1   | 31000-     | GG BUSHING SET (SEE CHARTS BELOW FOR SPECIFIC SIZES)      | 1      | SEE BELOW     |
| 7    | 1   | 31005-     | GG-IB-2 BUSHING SET (SEE CHARTS BELOW FOR SPECIFIC SIZES) | 1      | SEE BELOW     |
|      | 1   | 35000-118  | 2-7/8"-BUSHING F/MGG                                      | 1      | 68.00         |
|      | 1   | 35000-120  | 3-1/2"-BUSHING F/MGG                                      | 1      | 66.00         |
|      | 1   | 35000-121  | 4" FH BUSHING F/MGG                                       | 1      | 64.00         |
|      | 1   | 35000-220  | 4" SH BUSHING F/MGG                                       | 1      | 65.00         |
|      | 1   | 35000-122  | 4-1/2" BUSHING F/MGG                                      | 1      | 62.00         |
|      | 1   | 35000-123  | 5" BUSHING F/MGG                                          | 1      | 59.00         |
|      | 1   | 31000-120  | 3-1/2" BUSHING F/GG                                       | 1      | 70.00         |
|      | 1   | 31000-121  | 4" FH BUSHING F/GG                                        | 1      | 68.00         |
|      | 1   | 31000-220  | 4" SH BUSHING F/GG                                        | 1      | 69.00         |
|      | 1   | 31000-122  | 4-1/2" BUSHING F/GG                                       | 1      | 66.00         |
|      | 1   | 31000-123  | 5" BUSHING F/GG                                           | 1      | 64.00         |
|      | 1   | 31005-118  | 2 7/8" BUSHING F/ GG                                      | 1      | 75.00         |
|      | 1   | 31005-120  | 3-1/2" BUSHING F/GG                                       | 1      | 70.00         |
|      | 1   | 31005-121  | 4" FH BUSHING F/GG                                        | 1      | 68.00         |
|      | 1   | 31005-220  | 4" SH BUSHING F/GG                                        | 1      | 69.00         |
|      | 1   | 31005-122  | 4-1/2" BUSHING F/GG                                       | 1      | 66.00         |
|      | 1   | 31005-123  | 5" BUSHING F/GG                                           | 1      | 64.00         |
|      | 1   | 31005-124  | 5 1/2" BUSHING F/GG                                       | 1      | 62.00         |

1 YEAR SPARES.FOR 2 YEARS SPARES ADD 1 EA OF \* THESE ITEMS

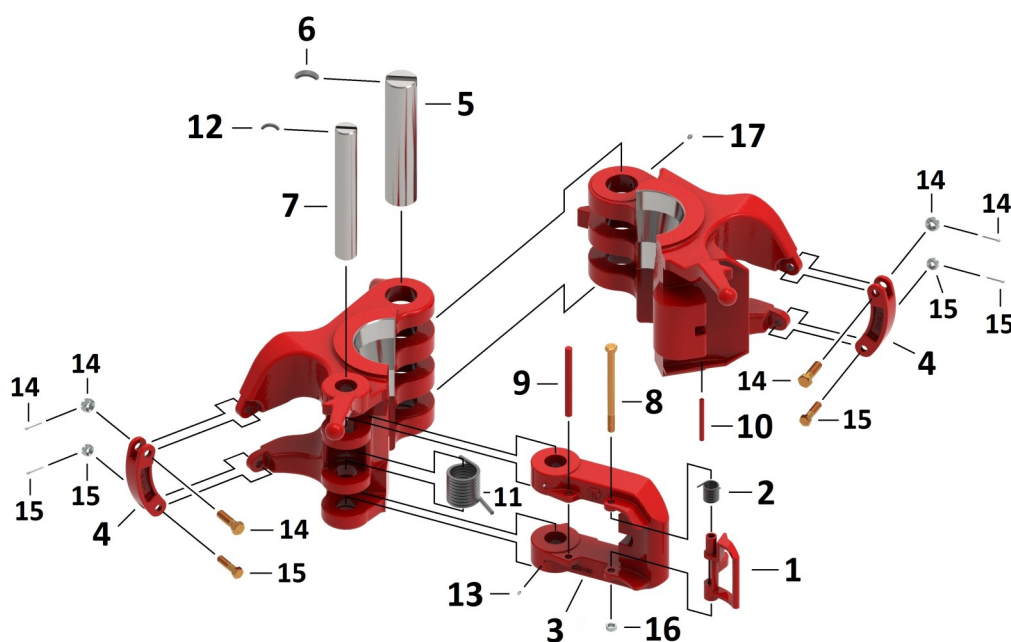
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# KET HGG (500 TON) BOTTLENECK ELEVATOR

| PART NO. | RANGE     | SIZE OF LINKS | WEIGHT (LBS) |
|----------|-----------|---------------|--------------|
| 70013    | 4"-6-5/8" | 2-1/4"-3-1/2" | 1,220        |



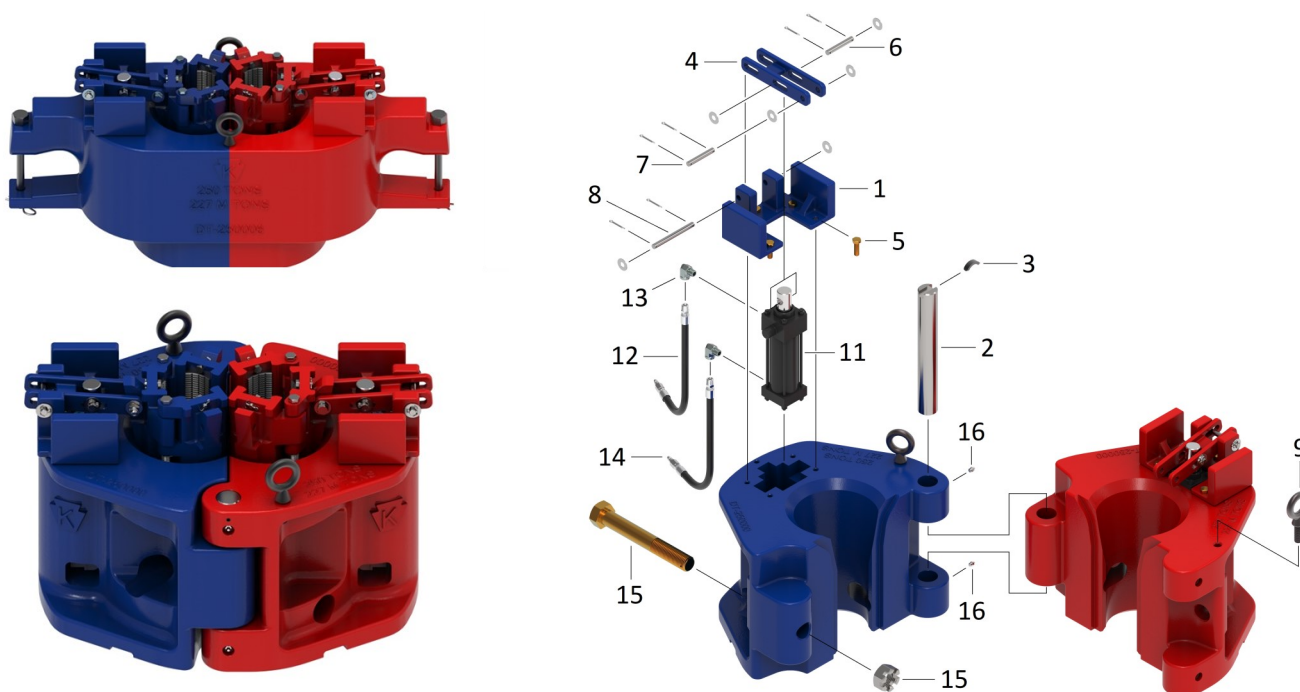
## REPLACEMENT PARTS FOR HGG ELEVATORS

| ITEM | QTY | PART NO. | DESCRIPTION                           | SPARES | WEIGHT |
|------|-----|----------|---------------------------------------|--------|--------|
| 1    | 1   | 13152-1  | Latch Lock                            | *      | 3.96   |
| 2    | 1   | 13188    | Latch Lock Spring                     | 2      | .36    |
| 3    | 1   | 30460    | Latch                                 |        | 106    |
| 4    | 2   | 30492    | Link Block                            | 2      | 5.54   |
| 5    | 1   | 30553    | Hinge Pin                             | *      | 19.00  |
| 6    | 1   | 30609    | Hinge Pin Retainer                    | 2      | .4     |
| 7    | 1   | 30613    | Latch Pin                             | *      | 10.5   |
| 8    | 1   | 31138    | Latch Lock Bolt                       | 2      | 1.50   |
| 9    | 1   | 31215    | Spring Stop Pin                       | 1      | .92    |
| 10   | 1   | 31216    | Door Lug Pin                          |        | .35    |
| 11   | 1   | 31228    | Latch Spring                          | 2      | 1.00   |
| 12   | 1   | 31525    | Latch Pin Retainer                    | 2      | .1     |
| 13   | 1   | 316-TI   | Grease Zert for Latch                 | 2      | .03    |
| 14   | 2   | 8145-1   | Upper Link Block Bolt, Nut , & Cotter | 2      | .86    |
| 15   | 2   | 8145-2   | Lower Link Block Bolt, Nut , & Cotter | 2      | .57    |
| 16   | 1   | 939484-8 | Latch Lock Bolt ,Nut                  | 2      | .25    |
| 17   | 1   | 940308-1 | Grease Zert for Door                  | 2      | .08    |

1 YEAR SPARES, FOR 2 YEAR SPARES ADD 1 EA. OF \* THESE ITEMS

# KET DUAL TOOL ELEVATOR-SPIDER

| PART NO.  | DESCRIPTION                                                   | WEIGHT (LBS.) |
|-----------|---------------------------------------------------------------|---------------|
| DT-250500 | KET 250 TON DUAL TOOLS COMPLETE, (INCLUDES, ELEVATOR, SPIDER, |               |
| DT-250000 | 250 TON DUAL TOOL SPIDER ASSY.                                | 1,390.00      |
| DT-250006 | 250 TON DUAL TOOL ELEVATOR ASSY.                              | 1,147.00      |

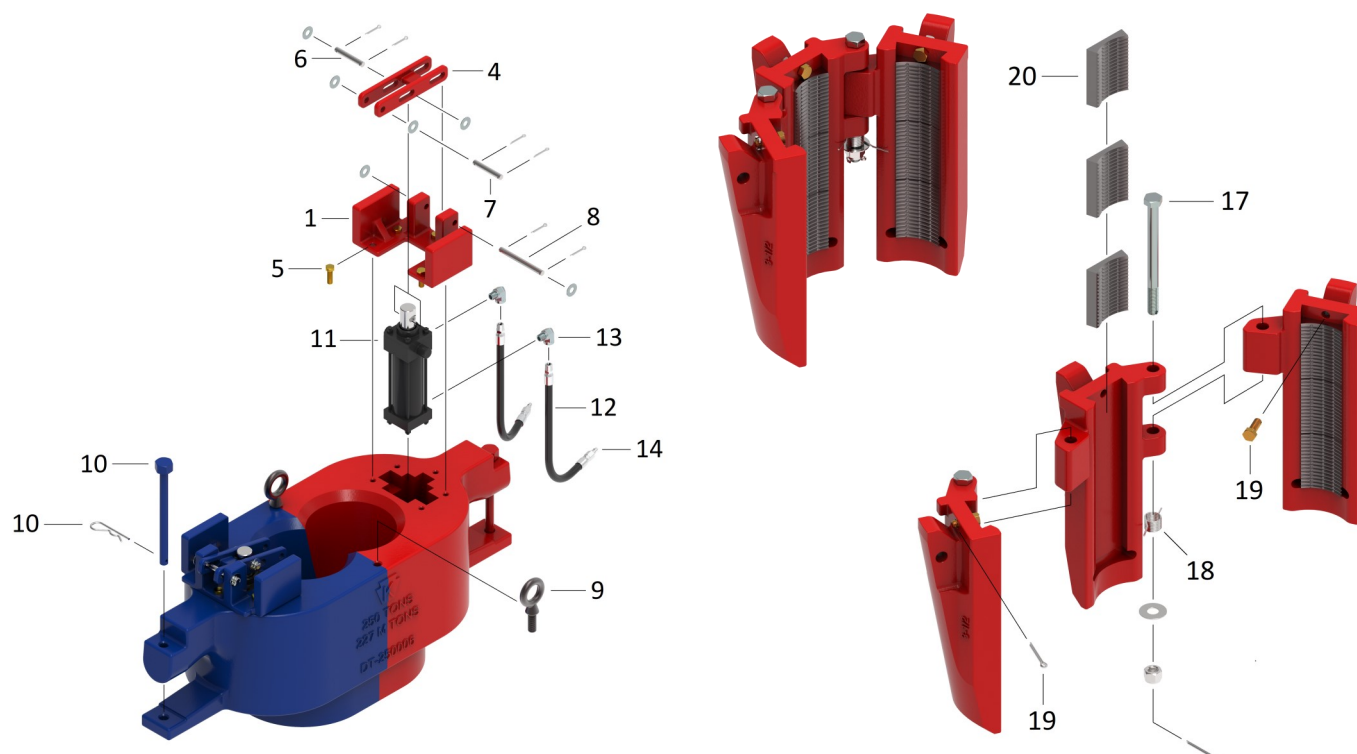


## DUAL TOOL REPLACEMENT PARTS

| ITEM# | QTY | PART NO.     | DESCRIPTION                                   | SPARES | WT.   |
|-------|-----|--------------|-----------------------------------------------|--------|-------|
| 1     | 4   | DT-250008    | STABILIZER BRACKET                            |        | 20.50 |
| 2     | 1   | DT-250009    | HINGE PIN FOR SLIP BOWL                       |        | 10.50 |
| 3     | 1   | DT-250009-RT | HINGE PIN RETAINER                            | 2      | .10   |
| 4     | 4   | DT-250010    | SLIP AND CYLINDER LIFTING ARM                 | 2      | 3.24  |
| 5     | 4   | DT-250011    | STABILIZER BRACKET BOLT                       | 4      | .36   |
| 6     | 4   | DT-250012    | LIFTING ARM PIVOT PIN, WASHERS, & COTTER      | 4      | .20   |
| 7     | 4   | DT-250013    | LIFTING ARM TO SLIP PIN, WASHERS, & COTTER    | 4      | .30   |
| 8     | 4   | DT-250014    | CYLINDER LIFTING PIN, WASHERS, & COTTER       | 4      | .20   |
| 9     | 2   | DT-250018    | LIFTING EYE BOLT                              | 2      | 2.020 |
| 10    | 4   | DT-250019    | BAIL SAFETY BOLT & COTTER                     | 2      | 1.70  |
| 11    | 2   | DT-250025    | AIR CYLINDER                                  |        | 27.00 |
| 12    | 4   | DT-250026    | AIR HOSE ASSEMBLY                             | 2      | 2.10  |
| 13    | 4   | DT-250027    | ELBOWS F/AIR CYLINDER HOSES                   | 2      | .24   |
| 14    | 4   | DT-250028    | QUICK DISCONNECT (MALE) F/AIR CYLINDER HOSES  | 2      | .21   |
| 15    | 1   | DT-250024    | 1-1/2 X 12" BOLT AND NUT FOR DUAL TOOL SPIDER |        | 6.891 |
| 16    | 2   | 940308-1     | 1/8" NPT GREASE ZERT                          |        | .015  |

# KET DUAL TOOL ELEVATOR-SPIDER

| PART NO.  | DESCRIPTION              | WEIGHT (lbs.) |
|-----------|--------------------------|---------------|
| DT-250420 | 3 1/2" SLIP LESS INSERTS | 17.63         |
| DT-250422 | 4 1/2" SLIP LESS INSERTS | 14.20         |



## DUAL TOOL SLIP PARTS

| ITEM | QTY | PART NO.  | DESCRIPTION                           | SPARES | WEIGHT( lbs.) |
|------|-----|-----------|---------------------------------------|--------|---------------|
| 17   | 8   | DT-250015 | SLIP BODY HINGE PIN, WASHER, & COTTER | 6      | .40           |
| 18   | 8   | DT-250017 | SLIP BODY HINGE SPRING                | 12     | .27           |
| 19   | 12  | DT-250022 | INSERT RETAINER PIN & COTTER          | 12     | .05           |
| 21   | 2   | DT-250020 | 1.5" SLIP BODY INTERNAL ROLLER GUIDE  |        | 10.45         |
| 21   | 2   | DT-250022 | 1.75" SLIP BODY INTERNAL ROLLER GUIDE |        | 14.11         |

## DUAL TOOL INSERTS

| ITEM | QTY        | PART NO. | DESCRIPTION                                            | SPARES * | WEIGHT (lbs.) |
|------|------------|----------|--------------------------------------------------------|----------|---------------|
| 20   | 9 per slip | DT-6601  | 3 1/2" x 3 1/2" DUAL TOOL INSERT (REF 6466010)         |          | 7.085         |
| 20   | 9 per slip | DT-6602  | 3 1/2" x 2 7/8" DUAL TOOL INSERT (REF 6466020)         |          | 11.735        |
| 20   | 9 per slip | DT-6603  | 3 1/2" x 2 3/8" DUAL TOOL INSERT (REF 6466030)         |          | 15.045        |
| 20   | 9 per slip | DT-6604  | 3 1/2" x 1.900 ( 1 1/2) DUAL TOOL INSERT (REF 6466040) |          | 17.690        |
| 20   | 9 per slip | DT-6605  | 3 1/2" x 1.660 ( 1 1/4) DUAL TOOL INSERT (REF 6466050) |          | 18.655        |
| 20   | 9 per slip | DT-6608  | 4 1/2" x 4 1/2" DUAL TOOL INSERT                       |          | 9.315         |
| 20   | 9 per slip | DT-6610  | 4 1/2" x 4" DUAL TOOL INSERT                           |          | 14.050        |

\*Recommended spares include 2 sets of inserts for each size of pipe to be run.

# KET DUAL TOOL ELEVATOR-SPIDER

## DUAL TOOL CONTROL PANEL PARTS

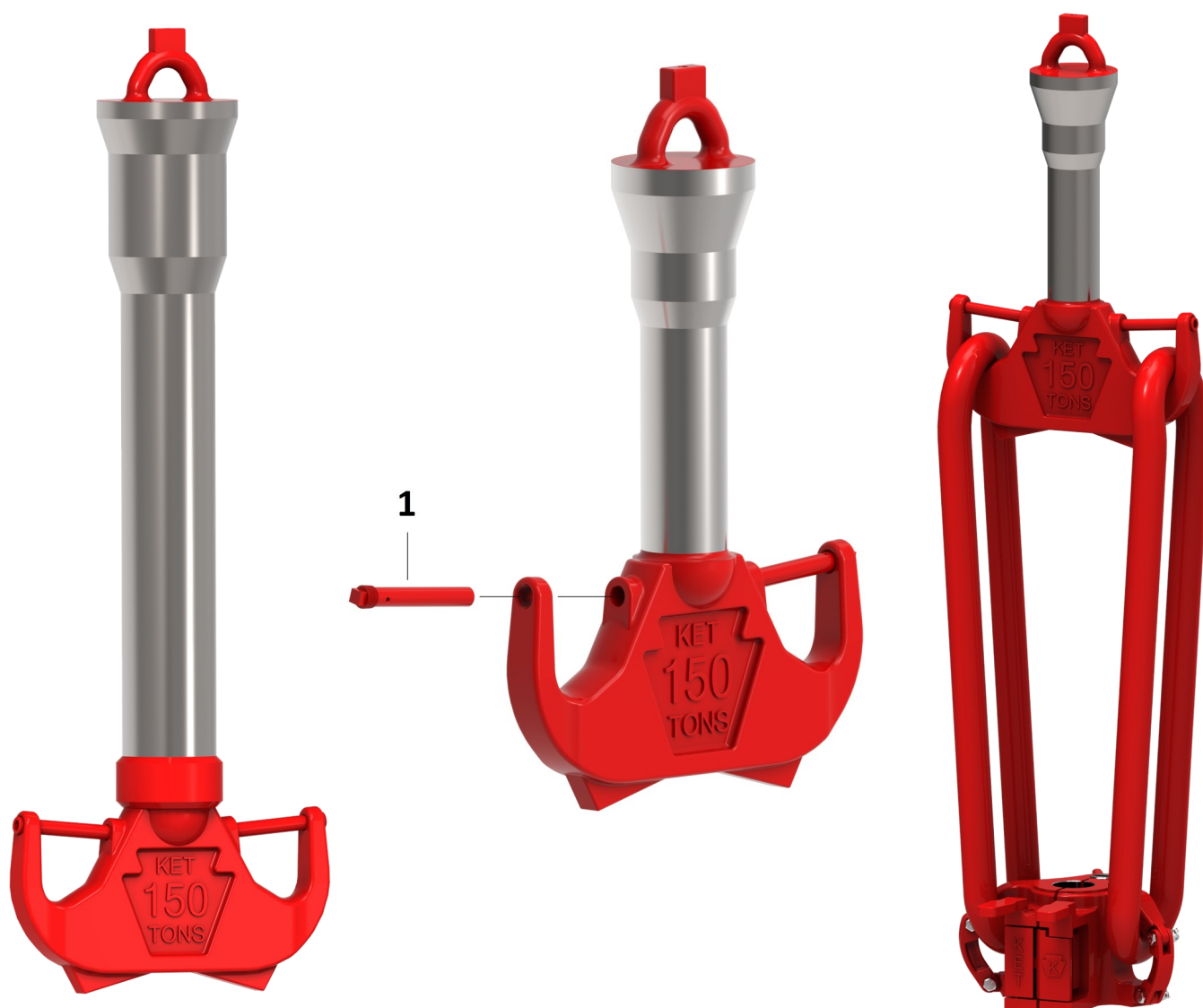
| PART NO.  | QTY. | DESCRIPTION                      |
|-----------|------|----------------------------------|
| DT-250276 | 4    | HAND CONTROL VALVES              |
| DT-250278 | 14   | PTC TUBE X 90 DEG MALE CONNECTOR |
| DT-250275 | 1    | DUAL TOOL CONTROL CONSOLE        |
| DT-250277 | 8    | MUFFLER WITH FLOW CONTROL        |
| DT-250278 | 3    | PTC TEE                          |
| DT-250280 | 9    | PTC BULKHEAD                     |
| DT-250281 | 9    | MALE QUICK CONNECT               |

## DUAL TOOL ACCESSORIES

| PART NO.  | QTY. | DESCRIPTION                     |
|-----------|------|---------------------------------|
| DT-250285 | 1    | DUAL TOOL TOOL BOX W/ LID       |
| DT-250260 | 2    | SCAFOLDING                      |
| DT-250265 | 2    | PINS FOR SCALFOLDING            |
| DT-250261 | 1    | SPREADER BAR                    |
| DT-250262 | 1    | LIFTING SLING                   |
| DT-250440 | 1    | 4 EACH -130' UMBOLICAL          |
| DT-250450 | 1    | 4 EACH - 20' UMBILICAL HOSE SET |

## KET BECKETS AND BAILS

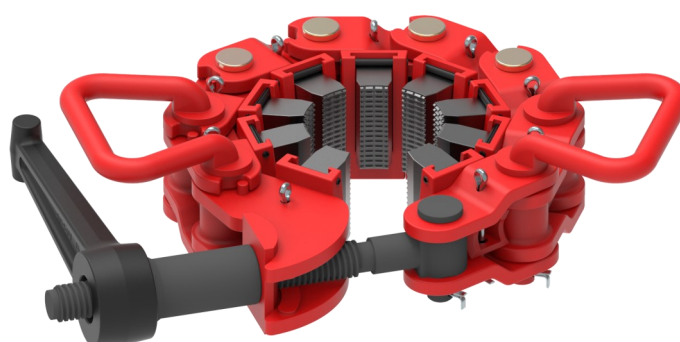
| ITEM | PART NO.         | DESCRIPTION                                              | WEIGHT |
|------|------------------|----------------------------------------------------------|--------|
|      | 31189-120-124    | KET 150 TON "DC" BECKET FOR 120 THRU 124 BORE CODES      | 176.00 |
|      | 31189-120-124-XL | KET XL 150 "DC" TON BECKET 120 THRU 124 BORE CODES       | 371.00 |
|      | 31189-123-740-XL | KET XL 150 TON "DC" BECKET FOR 123 THRU 740 BORE CODES   | 425.00 |
|      | 70508-1036       | 2" x 36" 100 TON PERFECTION LINK BAILS                   | 125.00 |
|      | 70508-1042       | 2" X 42" 100 TON PERFECTION LINK BAILS                   | 150.00 |
|      | 70508-1542       | 2-1/2" X 42" 150 TON PERFECTION LINK BAILS               | 175.00 |
| 1    | 31189-1          | ONE PIECE THREADED LINK RETAINER PIN W/ COTTER F/ BECKET | 1.18   |



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## RMET TYPE “MP” SAFETY CLAMPS

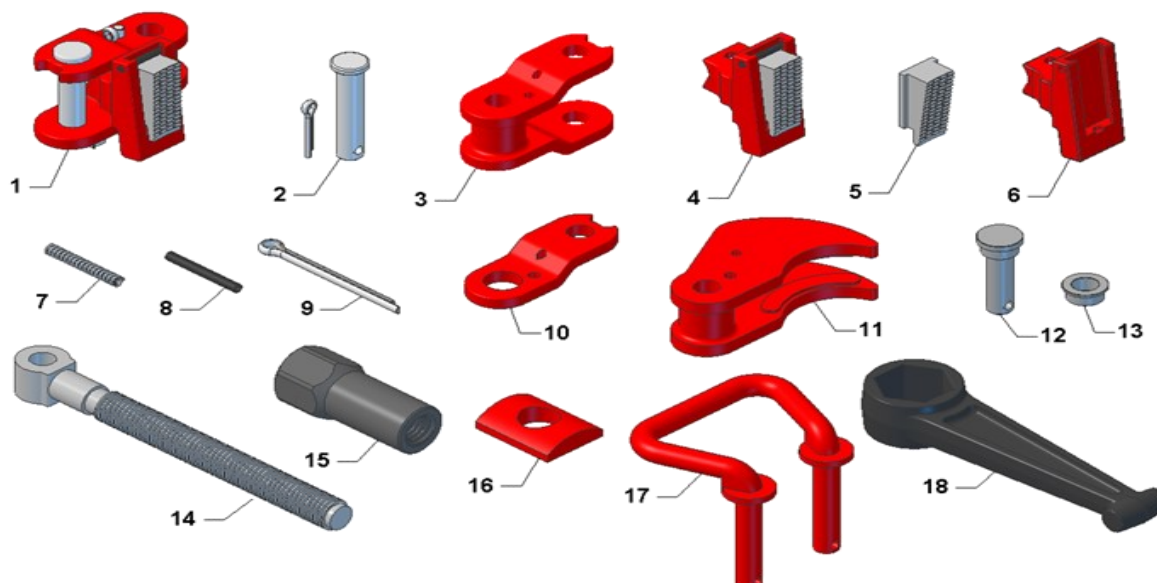
The RMET Type “MP” Safety Clamp is ideal to help safeguard against dropping strings of flush joint tubing while making up or breaking out the string. The multi-link design provides uniform pressure around the pipe reducing the risk of crushing or damaging the pipe. Each assembly is provided with its own aluminum box as a standard option.



### RMET TYPE “MP” SAFETY CLAMP ASSEMBLIES COMPLETE

| PART NO.     | RANGE             | REF#  | # LINKS | GRIPPING DIES | WT.    |
|--------------|-------------------|-------|---------|---------------|--------|
| <b>MP-S</b>  |                   |       |         |               |        |
| 31-009       | 2 7/8" - 4 1/8"   | 33030 | 7       | 8             | 128.00 |
| 31-010       | 4" - 5"           | 33031 | 8       | 9             | 133.00 |
| <b>MP-R</b>  |                   |       |         |               |        |
| 31-011       | 4 1/2" - 5 5/8"   | 33011 | 7       | 8             | 120.00 |
| 31-012       | 5 1/2" - 7"       | 33012 | 8       | 9             | 130.00 |
| 31-013       | 6 3/4" - 8 1/4"   | 33013 | 9       | 10            | 138.00 |
| 31-014       | 8" - 9 1/4"       | 33014 | 10      | 11            | 147.00 |
| 31-015       | 9 1/4" - 10 1/2"  | 33015 | 11      | 12            | 155.00 |
| <b>MP-M</b>  |                   |       |         |               |        |
| 31-016       | 10 1/2" - 11 1/2" | 33016 | 12      | 13            | 163.00 |
| 31-017       | 11 1/2" - 12 1/2" | 33017 | 13      | 14            | 171.00 |
| 31-018       | 12 1/2" - 13 5/8" | 33018 | 14      | 15            | 179.00 |
| 31-019       | 13 5/8" - 14 3/4" | 33019 | 15      | 16            | 187.00 |
| 31-020       | 14 3/4" - 15 7/8" | 31020 | 16      | 17            | 195.00 |
| <b>MP-L</b>  |                   |       |         |               |        |
| 31-021       | 15 7/8" - 17"     | 33021 | 17      | 18            | 215.00 |
| 31-022       | 17" - 18 1/2"     | 33022 | 18      | 19            | 223.00 |
| 31-023       | 18 1/8" - 19 3/8" | 33023 | 19      | 20            | 231.00 |
| <b>MP-XL</b> |                   |       |         |               |        |
| 31-024       | 19 3/8" - 20 3/8" | 33024 | 19      | 20            | 280.00 |
| 31-025       | 20 3/8" - 21 1/2" | 33025 | 20      | 21            | 288.00 |
| 31-032       | 21" - 22 5/8"     | 33032 | 21      | 22            | 296.00 |
| 31-033       | 22 5/8" - 23 3/4" | 33033 | 22      | 23            | 304.00 |
| 31-034       | 23 3/4" - 24 7/8" | 33034 | 23      | 24            | 312.00 |
| 31-035       | 24 7/8" - 26"     | 33035 | 24      | 25            | 320.00 |
| 31-036       | 26" - 27 1/8"     | 33036 | 25      | 26            | 328.00 |
| 31-039       | 29 3/8" - 30 1/2" | 33039 | 28      | 29            | 336.00 |

# RMET TYPE “MP” SAFETY CLAMPS PARTS



## REPLACEMENT PARTS FOR RMET “MP” TYPE SAFETY CLAMPS

| PART NO. | ITEM# | DESCRIPTION               | CLAMP TYPE        | REF.#    | QTY. | WT.   |
|----------|-------|---------------------------|-------------------|----------|------|-------|
| 31-335   | 1     | LINK COMPLETE             | MP-S ONLY         | 3335     | AR   | 9.00  |
| 31-319   | 1     | LINK COMPLETE             | ALL EXCEPT MP-S   | 3319     | AR   | 8.75  |
| 31-307   | 2     | PIN, FOR LINK (w/COTTER)  | ALL               | 3307     | AR   | .75   |
| 31-306   | 3     | LINK (W/COTTER)           | ALL               | 3306     | AR   | 4.50  |
| 31-325   | 4     | CARRIER ASSY. (w/DIE)     | MP-S ONLY         | 3325     | AR   | 3.00  |
| 31-324   | 4     | CARRIER ASSY. (w/DIE)     | ALL EXCEPT MP-S   | 3324     | AR   | 2.50  |
| 31-333   | 5     | DIE (w/COTTER)            | MP-S ONLY         | 3333     | AR   | 1.50  |
| 31-310   | 5     | DIE (w/COTTER)            | ALL EXCEPT MP-S   | 3310     | AR   | 1.00  |
| 31-309   | 6     | CARRIER (LESS DIE)        | ALL               | 3309     | AR   | 2.50  |
| 31-311   | 7     | SPRING                    | ALL               | 3311     | AR   | .10   |
| 31-418   | 8     | ROLL PIN (DIE KEEPER)     | ALL               | 51604-18 | AR   | .10   |
| 31-528   | 9     | COTTER PIN (f/CARRIER)    | ALL               | 51405-28 | AR   | .18   |
| 31-318   | 10    | SIDE BAR LINKS (PAIR)     | ALL               | 3318     | AR   | 2.50  |
| 31-304   | 11    | LATCH LINK                | ALL EXCEPT MP-XL  | 3304     | 1    | 7.00  |
| 31-321   | 11    | LATCH LINK                | MP-XL ONLY        | 3321     | 1    | 14.00 |
| 31-308   | 12    | PIN FOR SCREW, (w/COTTER) | ALL               | 3308     | 1    | .50   |
| 31-315   | 13    | BUSHING F/SCREW PIN       | ALL               | 3315     | 1    | .33   |
| 31-510   |       | COTTER F/LINK PIN         | ALL               | 51405-10 | AR   | .08   |
| 31-302   | 14    | SCREW                     | ALL               | 3302     | 1    | 5.25  |
| 31-303   | 15    | NUT F/ SCREW              | ALL               | 2714     | 1    | 1.00  |
| 31-714   | 16    | THRUST WASHER             | ALL               | 3303     | 1    | 3.50  |
| 31-305   | 17    | HANDLE                    | MP-S,MP-R, & MP-M | 3305     | 2    | 4.50  |
| 31-305   | 17    | HANDLE                    | MP-L & MP-XL      | 3305     | 4    | 4.50  |
| 31-316   | N/P   | HOLD DOWN LUG             | ALL               | 3316     | OPT. | 5.75  |
| 31-317   | N/P   | LIFTING EYE               | ALL               | 3317     | OPT. | 4.75  |
| 31-320   | 18    | NUT WRENCH                | ALL               | 3320     | 1    | 5.00  |



# RMET TYPE “MP” SAFETY CLAMPS PARTS

## RECOMMENDED SPARE PARTS FOR 1 YEAR FOR “MP” TYPE CLAMPS

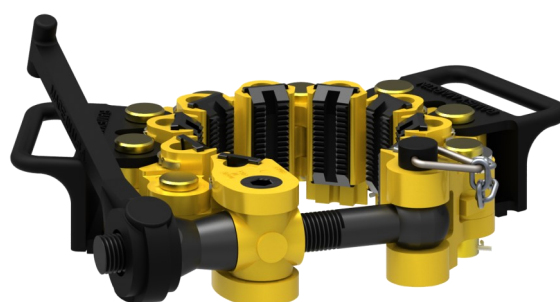
| PART NO. | DESCRIPTION  | MP -S | MP -R | MP -M | MP -L | MP -XL |
|----------|--------------|-------|-------|-------|-------|--------|
| 31-333   | DIE W/COTTER | 4     |       |       |       |        |
| 31-310   | DIE W/COTTER |       | 6     | 8     | 10    | 13     |
| 31-311   | SPRING       | 9     | 12    | 17    | 20    | 26     |
| 31-528   | PIN W/COTTER | 4     | 6     | 8     | 10    | 13     |
| 31-418   | ROLL PIN     | 9     | 12    | 17    | 20    | 26     |

## RMET TYPE "C" SAFETY CLAMP

The RMET Type "C" Safety Clamp is one of the most valuable tools on the Rig Floor. It helps guard against dropping flush-joint pipe, streamlined drill collars, etc. into the hole while making-up or breaking-out the string. Literally, it has dozens of money and time-saving applications in oilfield work, in addition to giving increased protection against fishing jobs.

The Safety Clamp consists of individual links, flexibly hinged together. Each link has a separate tapered slip which acts as a gripping member, much like a tapered rotary slip, and each slip is held in a retracted position on the taper by spring tension. When the clamp is tightened, each small slip takes a firm initial grip on the surface of the pipe. Should the pipe start to fall, or should load increase occur against the slips, the taper mounting causes each slip to wedge tighter against the surface of the pipe to increase the grip or lock the pipe against further movement.

Gripping pressure is always uniform around the pipe so there is little danger of crushing thin-walled pipe or damaging the pipe surface and, since each link, complete with tapered slip, is interchangeable as a unit; the Safety Clamp is readily adaptable to virtually any diameter. Each link changes the effective gripping diameter of the clamp one inch. All parts are made of alloy steel, heat-treated for strength and gripping ability.



### CLAMPS WITH HANDLES & WRENCH TYPE "CR" (SINGLE SCREW)

| PART NO. | RANGE O.D. SIZE  | REFERENCE | LINKS REQUIRED | WT.   |
|----------|------------------|-----------|----------------|-------|
| 12-127   | 3 3/4" - 4 5/8"  | 7624-5007 | 7              | 46.00 |
| 12-128   | 4 1/2" - 5 5/8"  | 7624-5008 | 8              | 55.00 |
| 12-129   | 5 1/2" - 6 5/8"  | 7624-5009 | 9              | 60.00 |
| 12-130   | 6 1/2" - 7 5/8"  | 7624-5010 | 10             | 64.00 |
| 12-131   | 7 1/2" - 8 5/8"  | 7624-5011 | 11             | 69.00 |
| 12-132   | 8 1/2" - 9 5/8"  | 7624-5012 | 12             | 73.00 |
| 12-133   | 9 1/2" - 10 5/8" | 7624-5013 | 13             | 78.00 |

### TYPE "CL" (SINGLE SCREW)

| PART NO. | RANGE O.D. SIZE   | LINKS REQUIRED | WT.   |
|----------|-------------------|----------------|-------|
| 12-134   | 10 1/2" - 11 5/8" | 14             | 72.00 |
| 12-135   | 11 1/2" - 12 5/8" | 15             | 77.00 |
| 12-136   | 12 1/2" - 13 5/8" | 16             | 82.00 |
| 12-137   | 13 1/2" - 14 5/8" | 17             | 87.00 |
| 12-138   | 14 1/2" - 15 5/8" | 18             | 92.00 |

### TYPE "CXL" (DOUBLE SCREW)

| PART NO. | RANGE O.D. SIZE | LINKS REQUIRED | WT.    |
|----------|-----------------|----------------|--------|
| 12-145   | 15 1/2" - 17"   | 18             | 114.00 |
| 12-146   | 16 1/2" - 18"   | 19             | 119.00 |
| 12-147   | 17 1/2" - 19"   | 20             | 124.00 |
| 12-148   | 18 1/2" - 20"   | 21             | 129.00 |

# RMET TYPE "C" SAFETY CLAMP

## CLAMPS WITH LIFTING CLEVIS- TYPE "CL" (SINGLE SCREW)

| PART NO. | RANGE O.D. SIZE   | LINKS REQUIRED | WT.    |
|----------|-------------------|----------------|--------|
| 12-150   | 10 1/2" - 11 5/8" | 14             | 83.00  |
| 12-151   | 11 1/2" - 12 5/8" | 15             | 88.00  |
| 12-152   | 12 1/2" - 13 5/8" | 16             | 93.00  |
| 12-153   | 13 1/2" - 14 5/8" | 17             | 98.00  |
| 12-154   | 14 1/2" - 15 5/8" | 18             | 102.00 |

## CLAMPS WITH LIFTING CLEVIS- TYPE "C X L" (DOUBLE SCREW)

| PART NO. | RANGE O.D. SIZE | LINKS REQUIRED | WT.    |
|----------|-----------------|----------------|--------|
| 12-155   | 15 1/2" - 17"   | 18             | 117.00 |
| 12-156   | 16 1/2" - 18"   | 19             | 121.00 |
| 12-157   | 17 1/2" - 19"   | 20             | 126.00 |
| 12-158   | 18 1/2" - 20"   | 21             | 131.00 |
| 12-159   | 19 1/2" - 21"   | 22             | 133.00 |
| 12-160   | 21 1/8" - 23"   | 24             | 136.00 |
| 12-161   | 24 1/8" - 26"   | 27             | 140.00 |
| 12-162   | 29 1/2" - 31"   | 32             | 152.00 |
| 12-163   | 35 1/2" - 37"   | 38             | 164.00 |
| 12-164   | 41 1/2" - 47"   | 44             | 181.00 |

ADD -"B" TO END OF PART # TO INCLUDE BOX

ALL CLAMPS COME COMPLETE WITH WRENCH. BOX SOLD SEPERATELY

## SAFETY CLAMP CONVERSION KIT A

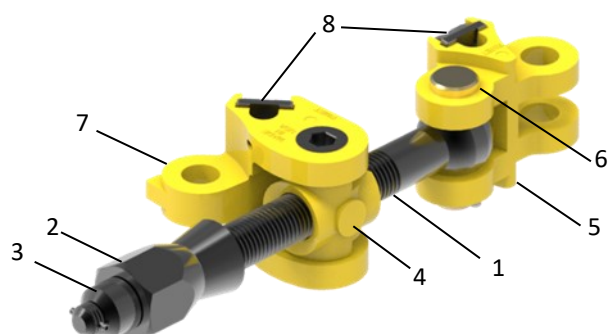
The RMET Clamp Conversion Kit A is designed to allow the end link pin to be removed from the screw to open the clamp. A special lock bushing and retainer added to the screw is designed to prevent the nut from backing off. The end link pin also includes a double lanyard for added support.



| PART NO.  | ITEM | DESCRIPTION                                | WT.  |
|-----------|------|--------------------------------------------|------|
| 12-100-A  |      | SAFETY CLAMP CONVERSION KIT A              | 8.80 |
| 11-111-S  | 1    | SAFETY CLAMP SCREW, SPECIAL                | 4.50 |
| 11-112    | 2    | NUT FOR T & C SAFETY CLAMP                 | 1.75 |
| 11-111-LB | 3    | SAFETY CLAMP SCREW LOCK BUSHING            | .30  |
| 11-110-SD | 4    | END LINK PIN W/ CHAIN, CABLE, AND RETAINER | 1.40 |
| 11-117    | 5    | HANDLE PIN WITH COTTER                     | .85  |

## SAFETY CLAMP CONVERSION KIT B

The Ramey Martin Conversion Kit B is designed to keep the screw securely pinned to the clamp while using the special pivot block to release and open the safety clamp. The screw is designed to fit a special lock bushing and retainer to prevent the nut from falling off.



| PART NO.  | ITEM | DESCRIPTION                                      | WT.   |
|-----------|------|--------------------------------------------------|-------|
| 12-100-B  |      | SAFETY CLAMP CONVERSION KIT B                    | 18.75 |
| 11-111-S  | 1    | SAFETY CLAMP SCREW, SPECIAL                      | 4.50  |
| 11-112    | 2    | NUT FOR T & C SAFETY CLAMP                       | 1.75  |
| 11-111-LB | 3    | SAFETY CLAMP SCREW LOCK BUSHING                  | .30   |
| 11-113-S  | 4    | PIVOT BLOCK, SPECIAL                             | 1.15  |
| 12-108-S  | 5    | END LINK SCREW, SPECIAL (less insert and spring) | 4.00  |
| 11-117    | 6    | HANDLE PIN WITH COTTER                           | .85   |
| 11-109    | 7    | END LINK PIVOT BLOCK                             | 4.75  |
| 12-103    | 8    | TYPE C SAFETY CLAMP INSERT (2)                   | .60   |
| 12-105    | N/P  | TYPE C SAFETY CLAMP SPRING (2)                   | .01   |

1 2 3 4 5 6 7 8/9

10 11 12 13 14 15 16/9 17 18

19 20 21 22 23

| PART NO.  | ITEM | DESCRIPTION                                   | REF#        | *SPARES  | WT.   |
|-----------|------|-----------------------------------------------|-------------|----------|-------|
| 11-111    | 1    | SCREW                                         | 7624-A-5    | 1        | 4.00  |
| 11-113    | 2    | PIVOT BLOCK                                   | 7624-A-5000 | 1        | 1.50  |
| 11-112    | 3    | NUT                                           | 7624-B-5    | 1        | 1.50  |
| 11-114    | 4    | PIVOT BLOCK PIN                               | 7624-D-5    | 2        | .25   |
| 11-119    | 5    | PIVOT BLOCK PIN WRENCH                        | 900533-12   |          | .25   |
| 11-115    | 6    | NUT WRENCH                                    | 7624-A-25   | 1        | 3.50  |
| 12-116    | 7    | HANDLE                                        |             | 1 SET    | 3.00  |
| 11-117    | 8    | HANDLE LINK PIN w/COTTER                      | 7624-G-5    | AS REQ'D | .75   |
| 11-107    | 9    | COTTER f/ LINK PIN                            | 900620-36   |          | .01   |
| 12-101    | 10   | LINK ASSY. COMPLETE                           | 7624-A-7    |          | 5.00  |
| 12-102    | 11   | LINK INTERMEDIATE                             | 7624-A-1    | 1 SET    | 3.75  |
| 12-103    | 12   | INSERT                                        | 7624-A-4    | 1 SET    | .60   |
| 12-104    | 13   | COTTER f/ INSERT                              | 900620-36   |          | .01   |
| 12-105    | 14   | SPRING f/ INSERT                              | 7624-E-5    | 1 SET    | .01   |
| 11-110-R  | 15   | END LINK PIN RETAINER                         |             | 1        | .18   |
| 11-106    | 16   | LINK PIN w/ COTTER                            | 7624-C-5    | 1 SET    | .70   |
| 12-108    | 17   | END LINK (SCREW)                              | 7624-A-3    | 1        | 4.50  |
| 12-109    | 18   | END LINK (PIVOT BLOCK)                        | 7624-A-24   | 1        | 3.50  |
| 11-110-RA | 19   | END LINK RETAINER WITH CHAIN                  |             |          | .30   |
| 11-110-2  | 20   | END LINK PIN RETAINER W/ CHAIN AND HANDLE PIN |             |          | 1.14  |
| 11-110-1  | 21   | END LINK PIN W/ CHAIN & RETAINER ASSEMBLY     |             | 1        | 2.24  |
| 11-110-S  | 22   | END LINK PIN W/ CHAIN & RETAINER              | 7624-F-5    |          | 1.40  |
| 11-110-4  | N/P  | END LINK PIN W/ CABLE AND RETAINER            |             |          | 1.30  |
| 11-110    | 23   | END LINK PIN WITH CHAIN                       |             |          | 1.22  |
| 11-110-3  | N/P  | END LINK PIN WITH CABLE                       |             |          | 1.12  |
| 11-120    | N/P  | SAFETY CLAMP BOX                              |             |          | 20.00 |
| 12-119    | N/P  | LIFTING CLEVIS COMPLETE                       |             |          | 11.50 |
| 12-120    | N/P  | LIFTING CLEVIS ONLY                           |             |          | 9.00  |
| 12-121    | N/P  | BOLTS W/NUTS AND COTTERS                      |             |          | 2.50  |

**We Respond with Knowledge and Products, On Time.**

## RMET TYPE "T" SAFETY CLAMP

The RMET Type "T" Safety Clamp is designed for small diameter pipe 1 1/8" - 4 1/2" O.D. Each link changes the effective working range approximately 1" in diameter. For sizes larger than 4 1/2" O.D., the Type "C" Safety Clamp should be used.

The same positive automatic gripping principle is used as in the Type "C" Safety Clamp. It is ideal to help safeguard against dropping strings of flush joint tubing, to provide a shoulder to position strings of flush line pipe for welding, and many other Applications.

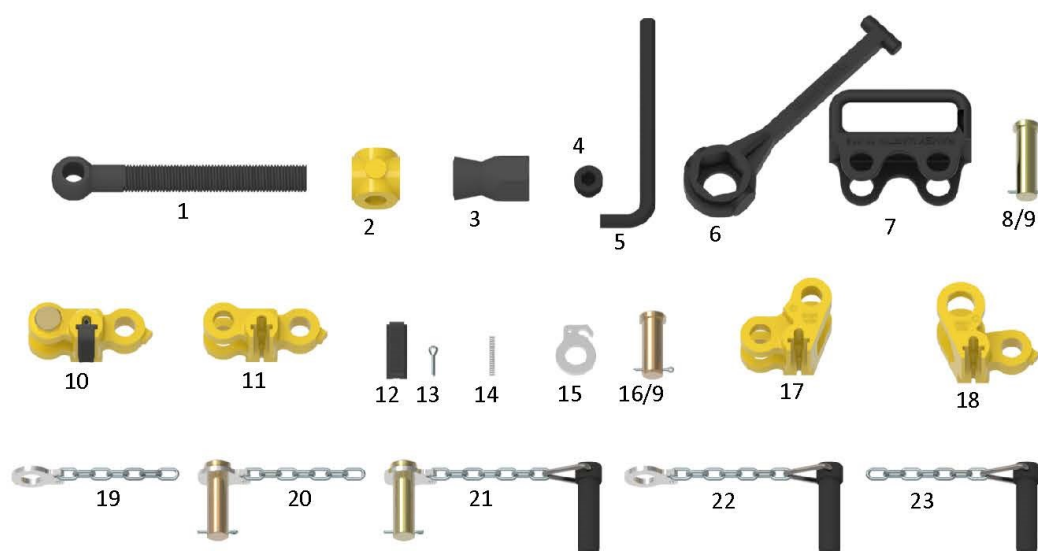


### SAFETY CLAMP ASSEMBLIES COMPLETE - TYPE "T"

| PART NO.                                   | RANGE O.D. SIZE | REFERENCE | LINKS REQUIRED | WT. |
|--------------------------------------------|-----------------|-----------|----------------|-----|
| 11-125                                     | 1 1/8" - 2"     | 7624-5103 | 4              | 35  |
| 11-126                                     | 2 1/8" - 3 1/4" | 7624-5104 | 5              | 39  |
| 11-127                                     | 3 1/2" - 4 1/2" | 7624-5105 | 6              | 43  |
| ADD -"B" TO END OF PART NO. TO INCLUDE BOX |                 |           |                |     |

ALL CLAMPS COME COMPLETE WITH WRENCH.  
BOX SOLD SEPERATELY

# RMET TYPE "T" REPLACEMENT PARTS



## REPLACEMENT PARTS FOR TYPE "T" SAFETY CLAMP

| PART NO.  | ITEM | DESCRIPTION                                   | REFERENCE#  | *SPARES  | WT.   |
|-----------|------|-----------------------------------------------|-------------|----------|-------|
| 11-111    | 1    | SCREW                                         | 7624-A-5    | 1        | 4.00  |
| 11-113    | 2    | PIVOT BLOCK                                   | 7624-A-5000 | 1        | 1.50  |
| 11-112    | 3    | NUT                                           | 7624-B-5    | 1        | 1.50  |
| 11-114    | 4    | PIVOT BLOCK PIN                               | 7624-D-5    | 2        | .25   |
| 11-119    | 5    | PIVOT BLOCK PIN WRENCH                        | 900533-12   |          | .25   |
| 11-115    | 6    | NUT WRENCH                                    | 7624-A-25   | 1        | 3.50  |
| 11-116    | 7    | HANDLE                                        | 7624-A-22   | 1 SET    | 3.00  |
| 11-117    | 8    | HANDLE LINK PIN w/COTTER                      | 7624-G-5    | AS REQ'D | .75   |
| 11-107    | 9    | COTTER f/ LINK PIN                            | 900620-36   |          | .01   |
| 11-101    | 10   | LINK ASSY. COMPLETE                           | 7624-B-7    |          | 5.00  |
| 11-102    | 11   | LINK INTERMEDIATE                             | 7624-A-18   | 1 SET    | 3.75  |
| 11-103    | 12   | INSERT                                        | 7624-A-21   | 1 SET    | .60   |
| 11-104    | 13   | COTTER f/ INSERT                              | 900620-52   |          | .01   |
| 11-105    | 14   | SPRING f/ INSERT                              | 7624-B-21   | 1 SET    | .01   |
| 11-110-R  | 15   | END LINK PIN RETAINER                         |             | 1        | .18   |
| 11-106    | 16   | LINK PIN w/ COTTER                            | 7624-C-5    | 1 SET    | .70   |
| 11-108    | 17   | END LINK (SCREW)                              | 7624-A-20   | 1        | 4.50  |
| 11-109    | 18   | END LINK (PIVOT BLOCK)                        | 7624-A-19   | 1        | 3.50  |
| 11-110-RA | 19   | END LINK RETAINER WITH CHAIN                  |             |          | .30   |
| 11-110-2  | 20   | END LINK PIN RETAINER W/ CHAIN AND HANDLE PIN |             |          | 1.14  |
| 11-110-1  | 21   | END LINK PIN W/ CHAIN & RETAINER ASSEMBLY     |             | 1        | 2.24  |
| 11-110-S  | 22   | END LINK PIN W/ CHAIN & RETAINER              | 7624-F-5    |          | 1.40  |
| 11-110-4  | N/P  | END LINK PIN W/ CABLE AND RETAINER            |             |          | 1.30  |
| 11-110    | 23   | END LINK PIN WITH CHAIN                       |             |          | 1.22  |
| 11-110-3  | N/P  | END LINK PIN WITH CABLE                       |             |          | 1.12  |
| 11-120    | N/P  | SAFETY CLAMP BOX                              | 7624-A-9    |          | 20.00 |

ALL PARTS ARE INTERCHANGEABLE WITH BAASH-ROSS® TYPE "T" SAFETY CLAMPS

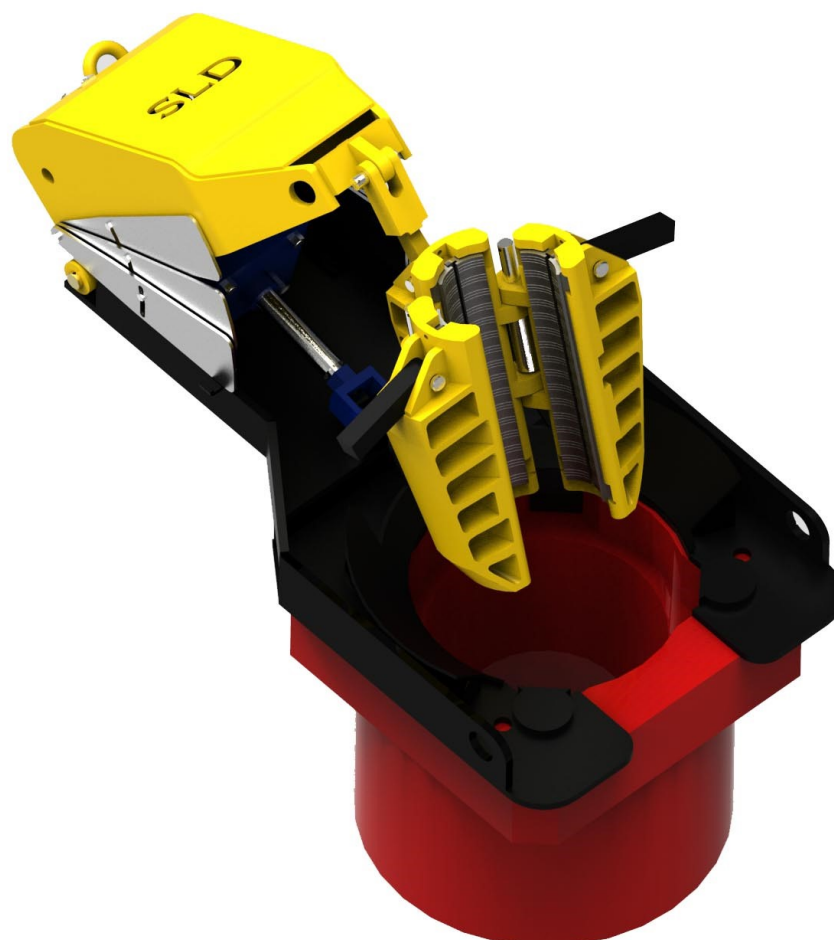
\*\* RECOMMENDED SPARE PARTS FOR 1 YEARS SERVICE

## RMET SLIP LIFTING DEVICE (“SLD”)

Ramey Martin’s slip lifting device comes in pneumatic configuration. It is designed to be used while tripping in or out of the hole to help reduce fatigue and prevent injuries.

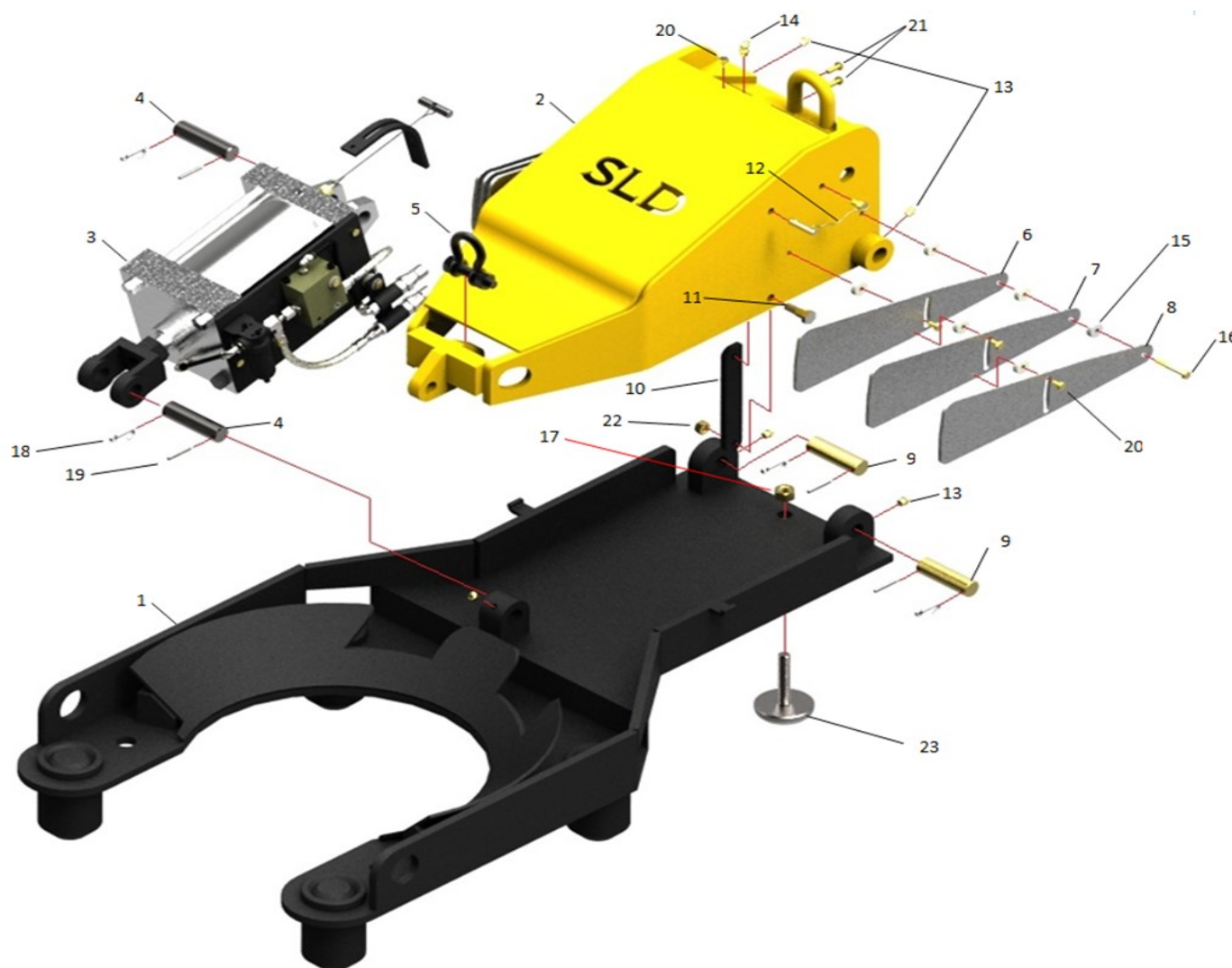
- ▶ Available for pin-drive or square-drive master bushings
- ▶ Can be used with conventional rotary, drill collar, or casing slips

| PART NO.  | DESCRIPTION                           |
|-----------|---------------------------------------|
| 26-100-PD | RMET “SLD AIR ACTUATOR – PIN DRIVE    |
| 26-100-SD | RMET “SLD AIR ACTUATOR – SQUARE DRIVE |





# RMET SLIP LIFTING DEVICE (“SLD”)



## SPECIFICATIONS

| PROPERTY                   | DESCRIPTION                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| MATERIAL                   | MILD STEEL                                                                                                               |
| WEIGHT                     | 260 LBS. (118KG) “SLD” ONLY W/O SLIP<br>525 LBS. (238 KG) WITH STORAGE STAND, CONTROL VALVE, AIR SUPPLY PLATE, AND HOSES |
| HEIGHT                     | RAISED 23.5” (597MM) - LOWERED (13.5” (343MM)                                                                            |
| BASE DIMENSIONS            | 23.5” X 43.5” (600MM X 1105MM)                                                                                           |
| BASE OPENING               | 12.75” (327MM)                                                                                                           |
| MINIMUM OPERATING PRESSURE | 85 PSI                                                                                                                   |



# RMET SLIP LIFTING DEVICE (“SLD”)

## SLD PARTS LIST

| PART NO.    | ITEM# | DESCRIPTION                                     | QTY |
|-------------|-------|-------------------------------------------------|-----|
| 26-145-PD   | 1     | BASE PLATE FOR AIR OPERATED PIN DRIVE “SLD”     | 1   |
| 26-145-SD   | 1     | BASE PLATE FOR AIR OPERATED SQUARE DRIVE “SLD”  | 1   |
| 26-165      | 2     | LIFT ARM FOR AIR OPERATED “SLD”                 | 1   |
| 26-115      | 3     | CYLINDER ASSEMBLY FOR AIR OPERATED “SLD”        | 1   |
| 26-515-P    | 4     | CYLINDER PIN FOR AIR OPERATED “SLD”             | 2   |
| ZSHK-08-07  | 5     | SHACKLE                                         | 1   |
| 26-165-S-I  | 6     | INNER SIDE SHIELD FOR AIR OPERATED “SLD”        | 2   |
| 26-165-S-C  | 7     | CENTER SIDE SHIELD FOR AIR OPERATED “SLD”       | 2   |
| 26-165-S-O  | 8     | OUTER SIDE SHIELD FOR AIR OPERATED “SLD”        | 2   |
| 11-117      | 9     | LIFT ARM PIN                                    | 2   |
| 26-165-K    | 10    | KICKSTAND FOR AIR OPERATED “SLD”                | 1   |
| 26-167      | 11    | KICKSTAND BOLT FOR AIR OPERATED “SLD”           | 1   |
| 26-165-M    | 12    | KICKSTAND LOCK PIN WITH CABLE AND TIE DOWN BOLT | 1   |
| ZF-GZN-02-1 | 13    | 1/8” NPT GREASE ZERT, STRAIGHT                  | 5   |
| ZF-GZN-02-2 | 14    | 1/8” NPT GREASE ZERT, 45 DEG.                   | 1   |
| 26-829-NW-1 | 15    | NYLON WASHER                                    | 12  |
|             | 16    | 1/4” X 2” GRADE 8 HEX HD CAP SCREW, ZINC        | 1   |
|             | 17    | 5/8” GRADE 8 HEX NUT, ZINC                      | 1   |
|             | 18    | 3/16” X 1 1/2” COTTER PIN                       | 4   |
|             | 19    | 3/16” X 1 ROLL PIN                              | 4   |
|             | 20    | 1/4” X 1 1/2” GRADE 8 HEX HD CAP SCREW, ZINC    | 7   |
|             | 21    | 1/4” X 3/8” GRADE 8 HEX HD CAP SCREW, ZINC      | 2   |
|             | 22    | 5/8” GRADE 8 HEX NUT, ZINC                      | 1   |
| 26-641-1    | 23    | SUPPORT PAD ONLY FOR “SLD”                      | 1   |

## DU SLIP ADAPTER KIT

|                  | 4 1/2” DU (26-507-B) | 5 1/2” DU (26-507-J) | 5 1/2” SDU (26-507-D) | 7” SDU & LD (26-507-E) | QTY REQ'D |
|------------------|----------------------|----------------------|-----------------------|------------------------|-----------|
| LIFTING LINK     | 26-510-B             | 26-510-K             | 26-510-C              | 26-510-B               | 1         |
| TORQUE BLOCK (L) | 26-511-C             | 26-511-D-L           | 26-511-A-L            | 26-511-B               | 1         |
| TORQUE BLOCK (R) | 26-511-C             | 26-511-D-R           | 26-511-A-R            | 26-511-B               | 1         |
| HINGE PIN        | 26-505               | 26-505-B             | 26-505-B              | 26-505-B               | 2         |
| SPRING           | 26-518               | 26-518               | 26-518                | 26-518                 | 2         |
| HANDLE PINS      | 03-107               | 03-107               | 03-107                | 03-107                 | 4         |

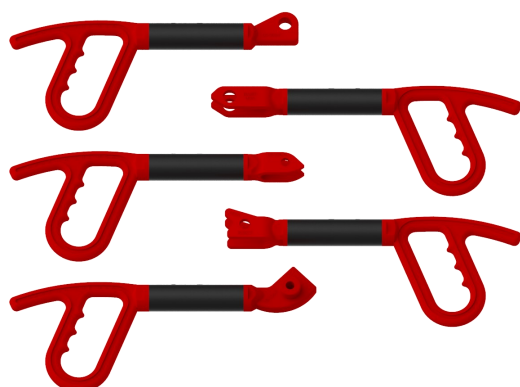
## SD SLIP ADAPTER KIT

|                  | ALL SDXL (26-507-A) | 4 1/2” SDML (26-507-I) | 5” SDML (26-507-H) | QTY REQ'D |
|------------------|---------------------|------------------------|--------------------|-----------|
| LIFTING LINK     | 26-510-A            | 26-510-J               | 26-510-G           | 1         |
| TORQUE BLOCK (L) | 26-513-B            | 26-513-G               | 26-513-E           | 1         |
| TORQUE BLOCK (R) | 26-513-B            | 26-513-G               | 26-513-E           | 1         |
| HINGE PIN        | 26-505-A            | 26-505-A               | 26-505-A           | 2         |
| SPRING           | 26-518              | 26-518-REG             | 26-518-REG         | 2         |
| HANDLE PINS      | 03-107              | 03-107                 | 03-107             | 4         |

# RMET SLIP SAFETY FLEX HANDLES

Ramey Martin Slip Safety Flex Handles incorporate investment cast slip connectors and handles with thumb guards. They are joined together with high strength chain which is then covered with polyurethane for extended life, capable of being rebuilt over and over, load tested to over 12,000 lbs.

- ▶ Eliminates cuts from frayed cables
- ▶ Reduces back injuries
- ▶ Improves ergonomics



DU Flex Handle

SD, DC, and CMSXL Flex Handle

C-1 and Wooley A Flex Handle

UC Flex Handle

Wooley B Flex Handle

## RMET SLIP SAFETY FLEX HANDLES

| PART NO.    | DESCRIPTION                                                    | WEIGHT (LBS.) |
|-------------|----------------------------------------------------------------|---------------|
| 03-300-F    | SAFETY FLEX HANDLE FOR ALL "DU" ROTARY SLIPS                   | 5.00          |
| 23-112      | SAFETY FLEX HANDLE FOR VARCO                                   | 4.00          |
| 08-136      | SAFETY FLEX HANDLE FOR ALL C-1 AND WOOLEY A DRILL COLLAR SLIPS | 5.00          |
| 7704-A-17-F | SAFETY FLEX HANDLE FOR UC-3 SLIP                               | 4.00          |
| 19-104-F    | SAFETY FLEX HANDLE FOR TYPE "B" ROTARY SLIP                    | 5.35          |



# KET SLIP SAFETY FLEX HANDLES

Keystone Slip Safety Flex Handles incorporate investment cast slip connectors and handles with thumb guards. They are joined together with high strength chain which is then covered with rubber to prevent corrosion. KET Slip Handles were load tested to over 8,000 lbs. All handles are proof load tested to 1,000 lbs. prior to shipment.

- ▶ Eliminates cuts from frayed cables
- ▶ Reduces back injuries
- ▶ Improves ergonomics



C-1 and Woolley A Flex Handle

DU Flex Handle

UC Flex Handle

SD, DC, and CMSXL Flex Handle

Woolley B Flex Handle

## KET SLIP SAFETY FLEX HANDLES

| PART NO. | DESCRIPTION                                                      | WEIGHT (LBS.) |
|----------|------------------------------------------------------------------|---------------|
| 102300   | C-1 & WOOLLEY A EXTREME SERVICE SAFETY FLEX HANDLE W/THUMB GUARD | 5             |
| 102200-F | DU FRONT EXTREME SERVICE SAFETY FLEX HANDLE W/THUMB GUARD        | 5.41          |
| 102200-R | DU REAR EXTREME SERVICE SAFETY FLEX HANDLE W/THUMB GUARD         | 5.31          |
| 102350   | UC EXTREME SERVICE SAFETY FLEX HANDLE W/ THUMB GAURD             | 5.47          |
| 102100   | SD, DC, & CMSXL EXTREME SERVICE SAFETY FLEX HANDLE W/THUMB GUARD | 5.52          |
| 102050   | WOOLLEY B EXTREME SERVICE SAFETY FLEX HANDLE W/ THUMB GAURD      | 5.99          |



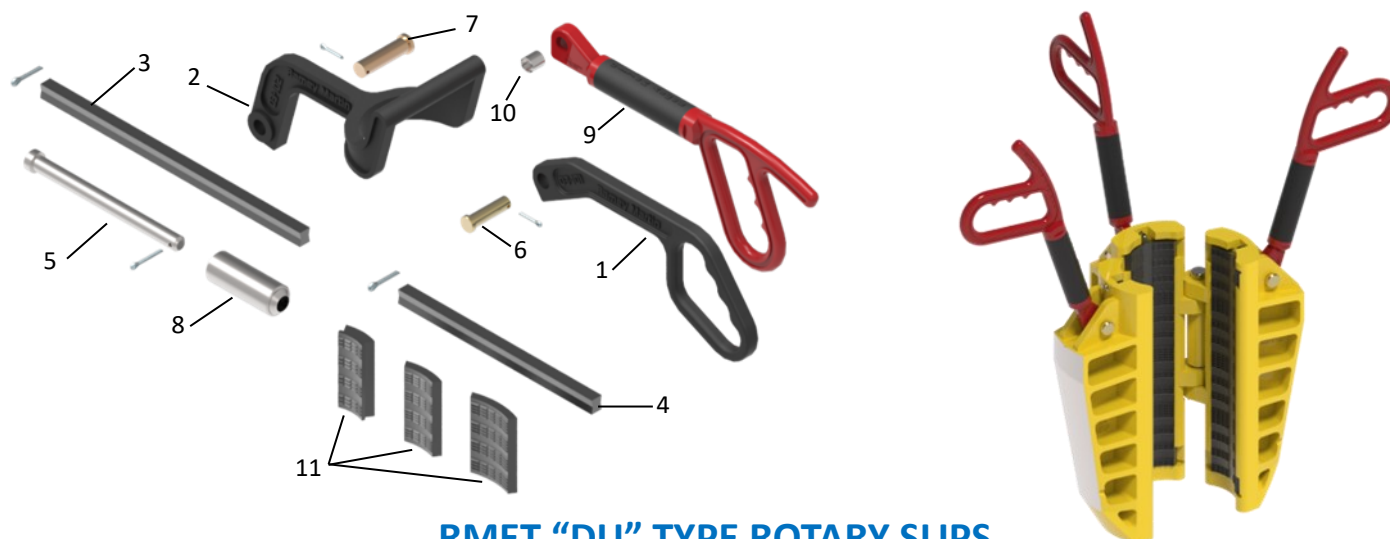
# RMET “DU” TYPE ROTARY SLIPS

The Ramey Martin “DU” Rotary Slips are designed for long trouble-free service. They are made of alloy steel and heat-treated for strength and resistance to wear. The slips are machined for use in API tapered bowls. The “DU” Regular has a 12” long gripping surface and is designed for wells 8000’ or less. The “DU” Long has a 16” long gripping surface and is designed for deeper wells and heavier drill strings. All RMET “DU” Slips have an API taper of 4”/ft on the diameter.

## RMET “DU” TYPE ROTARY SLIPS

| RMET#           | SLIP BODY SIZE | TYPE       | TAPER/FT (TPF) | RATING (TONS) | WT. |
|-----------------|----------------|------------|----------------|---------------|-----|
| 03-114-LR-F     | 4 1/2”         | DU/REGULAR | 4.00”          | 165           | 135 |
| 03-115-LR-F     | 4 1/2”         | DU/LONG    | 4.00”          | 180           | 164 |
| 03-116-LR-F     | 5 1/2”         | DU/REGULAR | 4.00”          | 225           | 150 |
| 03-117-LR-F     | 5 1/2”         | DU/LONG    | 4.00”          | 250           | 180 |
| 03-118-LR-F     | 7”             | DU/REGULAR | 4.00”          | 300           | 145 |
| 03-119-SDU-LR-F | 7”             | SDU/LONG   | 4.00”          | 400           | 210 |

ALL DU TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.



## RMET “DU” TYPE ROTARY SLIPS

| RMET#    | ITEM# | DESCRIPTION                    | #REQ  | *SPARES | REF.#      | WT.  |
|----------|-------|--------------------------------|-------|---------|------------|------|
| 03-101   | 1     | FRONT HANDLE                   | 2     | 2       | 7613-A-157 | 3.45 |
| 03-102   | 2     | REAR HANDLE                    | 1     | 1       | 7613-5195  | 5.61 |
| 03-103   | 3     | DU LONG LINER KEY w/ COTTER    | 3     | 3       | 7613-A-67  | 1.88 |
| 03-104   | 4     | DU REGULAR LINER KEY w/ COTTER | 3     | 3       | 7613-A-52  | 1.40 |
| 03-105   | 5     | HINGE PIN w/ COTTER            | 2     | 2       | 7613-A-12  | 1.17 |
| 03-106   | 6     | FRONT HANDLE PIN w/ COTTER **  | 2     | 2       | 7613-B-12  | .22  |
| 03-107   | 7     | REAR HANDLE PIN w/ COTTER **   | 1     | 1       | 7613-C-12  | .38  |
| 03-108   | 8     | HINGE SPRING ASSY.             | 2     | 2       | 7613-211   | 1.10 |
| 03-300-F | 9     | UNIVERSAL SAFETY FLEX HANDLE   | 3     | 3       | 7613-5190  | 4.75 |
| 03-300-B | 10    | DU SAFETY FLEX HANDLE BUSHING  | 3     | 3       | N/A        | .03  |
| N/A      | 11    | INSERTS (SEE PAGE 10)          | 1 SET |         |            |      |

\*RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

\*\*ALL RMET DU SLIPS REQUIRE 3 REAR HANDLE PINS. FRONT HANDLE PINS ARE LISTED AS PARTS ONLY

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## RMET "DU" TYPE ROTARY SLIP INSERTS

### RMET INSERTS FOR 4 1/2" "DU" TYPE ROTARY SLIPS AND 4 1/2" TS-100 SPIDER SLIPS

| RMET#  | DESCRIPTION      | REF.#      | WT. EA | RMET# (F.F. INSERTS) | WT. EA. |
|--------|------------------|------------|--------|----------------------|---------|
| 03-120 | 4 1/2" X 4 1/2"  | 7613-A-81  | .74    | 03-210               | .79     |
| N/A    | 4 1/2" X 4 3/8"  | N/A        | N/A    | 03-213               | .84     |
| N/A    | 4 1/2" X 4 1/4"  | N/A        | N/A    | 03-216               | .93     |
| N/A    | 4 1/2" X 4 1/8"  | N/A        | N/A    | 03-219               | 1.01    |
| 03-121 | 4 1/2" X 4"      | 7613-FF-81 | 1.17   | 03-221               | 1.21    |
| N/A    | 4 1/2" X 3 3/4"  | N/A        | N/A    | 03-224               | 1.40    |
| 03-122 | 4 1/2" X 3 1/2"  | 7613-C-82  | 1.58   | 03-227               | 1.62    |
| N/A    | 4 1/2" X 3 3/8"  | N/A        | N/A    | 03-229               | 1.68    |
| N/A    | 4 1/2" X 3 1/4"  | N/A        | N/A    | 03-228               | 1.76    |
| N/A    | 4 1/2" X 3 1/8"  | N/A        | N/A    | 03-230               | 1.83    |
| N/A    | 4 1/2" X 3"      | N/A        | N/A    | 03-231               | 1.92    |
| 03-123 | 4 1/2" X 2 7/8"  | 7613-B-82  | 2.02   | 03-233               | 2.05    |
| 03-124 | 4 1/2" X 2 3/8"  | 7613-A-82  | 2.30   | 03-236               | 2.33    |
| 03-125 | 4 1/2" X 2 1/16" | 7613-M-82  | 2.39   | 03-237               | 2.22    |
| N/A    | 4 1/2" X 1.900"  | N/A        | N/A    | 03-238               | 2.30    |
| N/A    | 4 1/2" X 1.660"  | N/A        | N/A    | 03-239               | 2.35    |

### RMET INSERTS FOR 5 1/2" "DU" TYPE ROTARY SLIPS AND 5 1/2" TS-100 SPIDER SLIPS

| RMET#    | DESCRIPTION      | REF.#     | WT. EA. | RMET# (F.F. INSERTS) | WT. EA. |
|----------|------------------|-----------|---------|----------------------|---------|
| N/A      | 5 1/2" X 5 3/4"  | N/A       | N/A     | 03-241               | N/A     |
| 03-130   | 5 1/2" X 5 1/2"  | 7613-H-81 | .95     | 03-240               | 1.00    |
| N/A      | 5 1/2" X 5 1/4"  | N/A       | N/A     | 03-242               | 1.31    |
| 03-131   | 5 1/2" X 5"      | 7613-G-81 | 1.41    | 03-243               | 1.41    |
| N/A      | 5 1/2" X 4 3/4"  | N/A       | N/A     | 03-246               | 1.73    |
| 03-132   | 5 1/2" X 4 1/2"  | 7613-E-81 | 1.95    | 03-249               | 1.99    |
| N/A      | 5 1/2" X 4 3/8"  | N/A       | N/A     | 03-247               | 2.05    |
| N/A      | 5 1/2" X 4 1/4"  | N/A       | N/A     | 03-252               | 2.18    |
| N/A      | 5 1/2" X 4 1/8"  | N/A       | N/A     | 03-255               | 2.28    |
| 03-133   | 5 1/2" X 4"      | 7613-D-81 | 2.36    | 03-258               | 2.41    |
| N/A      | 5 1/2" X 3 3/4"  | N/A       | N/A     | 03-261               | 2.57    |
| 03-134   | 5 1/2" X 3 1/2"  | 7613-E-82 | 2.72    | 03-264               | 2.73    |
| N/A      | 5 1/2" X 3 1/4"  | N/A       | N/A     | 03-266               | 2.98    |
| N/A      | 5 1/2" X 3 1/8"  | N/A       | N/A     | 03-268               | 2.97    |
| N/A      | 5 1/2" X 3"      | N/A       | N/A     | 03-270               | 3.05    |
| 03-134-1 | 5 1/2" X 2 7/8"  | N/A       | 2.60    | 03-275               | 3.12    |
| N/A      | 5 1/2" X 2 3/8"  | N/A       | N/A     | 03-277               | 3.44    |
| N/A      | 5 1/2" X 2 1/16" | N/A       | N/A     | 03-279               | 3.58    |

# RMET “DU” TYPE ROTARY SLIP INSERTS

## RMET INSERTS FOR 7” “SDU” TYPE ROTARY SLIPS

| RMET#  | DESCRIPTION | REF.#      | WT.  | RMET# (F.F. INSERTS) | WT. EA. |
|--------|-------------|------------|------|----------------------|---------|
| 03-140 | 7” X 7”     | 7613-EE-81 | 1.24 | 03-280               | N/A     |
| 03-148 | 7” x 6.906” | N/A        | 1.37 | N/A                  | N/A     |
| 03-141 | 7” X 6 5/8” | 7613-DD-81 | 1.71 | 03-281               | N/A     |
| N/A    | 7” X 6”     | N/A        | N/A  | 03-283               | 2.63    |
| 03-146 | 7” X 5 7/8” | N/A        | 2.66 | 03-285               | N/A     |
| 03-145 | 7” X 5 3/4” | N/A        | 2.83 | 03-286               | N/A     |
| 03-142 | 7” X 5 1/2” | 7613-Z-81  | 3.08 | 03-287               | N/A     |
| 03-143 | 7” X 5”     | 7613-Y-81  | 3.56 | 03-289               | N/A     |
| 03-144 | 7” X 4 1/2” | 7613-W-81  | 4.00 | N/A                  | N/A     |

“DU” REGULAR REQUIRES 18 INSERTS PER SET. “DU” LONG REQUIRES 24 INSERTS PER SET.

4 1/2” & 5 1/2” “TS-100” SLIPS REQUIRE 12 INSERTS PER SET

1 SET INSERTS PER PIPE SIZE RECOMMENDED FOR 1 YEAR SPARES

OTHER SIZES AND TYPES AVAILABLE UPON REQUEST

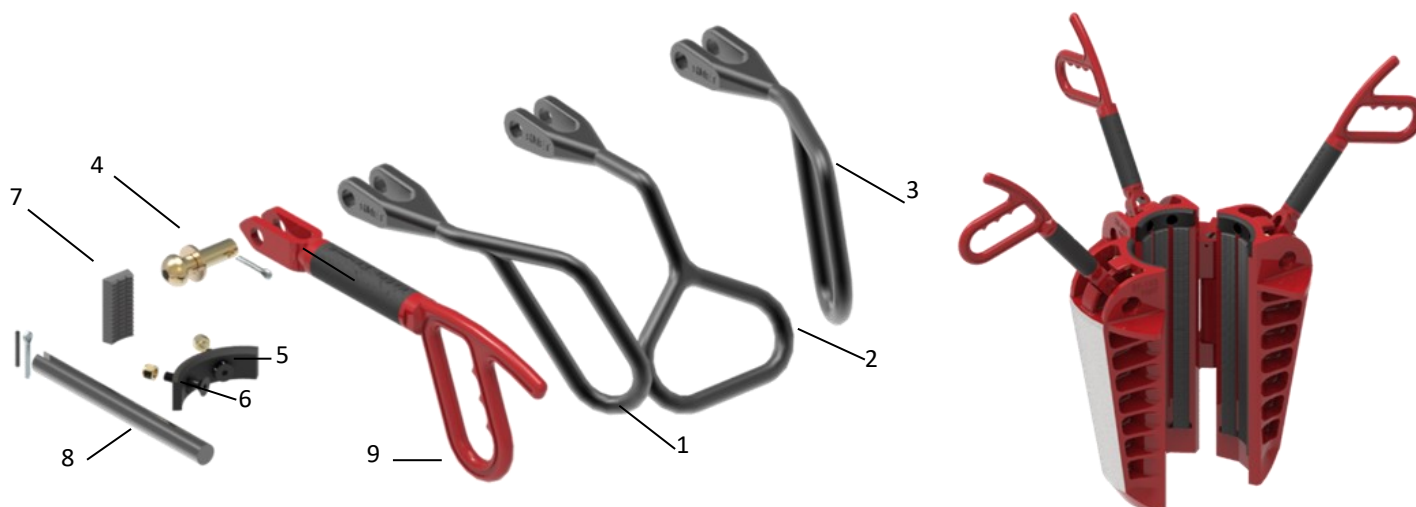
## RMET TYPE “SD” ROTARY SLIPS

All Ramey Martin “SDML” and “SDXL” Slips are made of alloy steel and heat-treated for strength and long life. These slips are then machined for use in API standard bowls. We have designed our slip to operate with no load ring and still maintain 100% insert support, eliminating the need for beveled inserts, this also allows for a complete inspection of the slip without fighting seized or breaking load ring bolts. Another time saving change is the use of roll pins for retaining the hinge pins and a larger knock out hole beneath the hinge pins. All RMET “SD” Slips have an API taper of 4”/ft on the diameter.

### RMET “SD” TYPE ROTARY SLIPS COMPLETE

| RMET#       | SLIP BODY SIZE                   | TYPE | TAPER/FT (TPF) | RATING (TONS) | WT. |
|-------------|----------------------------------|------|----------------|---------------|-----|
| 23-100-LR-F | 3 1/2” BODY ONLY W/ FLEX HANDLES | SDML | 4.00”          | 175           | 153 |
| 24-200-LR-F | 4 1/2” BODY ONLY W/ FLEX HANDLES | SDXL | 4.00”          | 350           | 182 |
| 24-100-LR-F | 5” BODY ONLY W/ FLEX HANDLES     | SDXL | 4.00”          | 350           | 193 |
| 24-300-LR-F | 5 1/2” BODY ONLY W/ FLEX HANDLES | SDXL | 4.00”          | 350           | 190 |

ALL SD TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.



### RMET “SD” TYPE ROTARY SLIPS COMPLETE

| RMET#  | ITEM# | DESCRIPTION                             | SIZE   | #REQ. | *SPARES | REF.# | WT.  |
|--------|-------|-----------------------------------------|--------|-------|---------|-------|------|
| 23-150 | 1     | LEFT HANDLE                             | ALL    | 1     | 1       | 3768  | 3.50 |
| 14-103 | 2     | REAR HANDLE                             | ALL    | 1     | 1       | 3766  | 4.00 |
| 23-151 | 3     | RIGHT HANDLE                            | ALL    | 1     | 1       | 3767  | 3.50 |
| 14-105 | 4     | HANDLE PIN w/WASHER & COTTER            | ALL    | 3     | 3       | 3769  | .50  |
| 23-104 | 5     | INSERT RETAINER RING                    | 3 1/2” | 3     | 3       | 3738  | 1.00 |
| 23-105 | 5     | INSERT RETAINER RING                    | 4 1/2” | 3     | 3       | 3739  | 1.00 |
| 23-106 | 5     | INSERT RETAINER RING                    | 5”     | 3     | 3       | 3741  | 1.00 |
| 23-107 | 5     | INSERT RETAINER RING                    | 5 1/2” | 3     | 3       | 3740  | 1.00 |
| 23-108 | 5     | INSERT RETAINER RING                    | 7”     | 3     | 3       | 3742  | 1.00 |
| 23-109 | 6     | INSERT RETAINER SCREW & NUT             | ALL    | 6     | 12      | 3737  | .02  |
| N/A    | 7     | INSERT                                  | **     |       |         |       |      |
| 23-111 | 8     | HINGE PIN w/ ROLL PIN (COTTER OPTIONAL) | ALL    | 2     | 2       | 2192  | 1.20 |
| 23-112 | 9     | SAFETY FLEX HANDLE                      | ALL    | 3     | 3       | N/A   | 4.00 |

\* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

\*\* SEE TABLE ON FOLLOWING PAGE

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# RMET TYPE “SD” ROTARY SLIP INSERTS

## RMET INSERTS FOR “SDML” & “SDXL” TYPE SLIPS

| RMET#  | SIZE            | TYPE    | REF.# | WT./SET (SDML/SDXL) |
|--------|-----------------|---------|-------|---------------------|
| 23-155 | 3 1/2" x 3 1/2" | BASIC   | 2162  | 12.00 / NA          |
| 23-156 | 3 1/2" x 2 7/8" | REDUCER | 2161  | 19.75 / NA          |
| 23-157 | 3 1/2" x 2 3/8" | REDUCER | 2160  | 24.90 / NA          |
| 23-158 | 4 1/2" x 4 1/2" | BASIC   | 2165  | 17.10 / 20.73       |
| 23-159 | 4 1/2" x 4"     | REDUCER | 2164  | 26.50 / 32.00       |
| 23-160 | 4 1/2" x 3 1/2" | REDUCER | 2163  | 34.65 / 41.37       |
| 23-161 | 5" x 5"         | BASIC   | 2167  | 17.55 / 21.06       |
| 23-162 | 5" x 4 1/2"     | REDUCER | 2166  | 27.00 / 32.18       |
| 23-163 | 5" x 4"         | REDUCER | 2168  | 34.20 / 41.15       |
| 23-164 | 5 1/2" x 5 1/2" | BASIC   | 2170  | 17.45 / 20.92       |
| 23-165 | 5 1/2" x 5"     | REDUCER | 2169  | 26.82 / 32.18       |
| 23-163 | 5 1/2" x 4 1/2" | REDUCER | 2168  | 34.20 / 41.15       |
| 23-166 | 7" x 7"         | BASIC   | 2173  | 26.25 / 31.00       |
| 23-167 | 7" x 6 5/8"     | REDUCER | 2172  | 32.83 / 39.40       |

ALL “SDXL” SLIPS EXCEPT 7” TAKE 54 INSERTS

3 1/2” “SDML” SLIPS TAKE 30 INSERTS. ALL OTHER “SDML” SLIPS EXCEPT 7” TAKE 45 INSERTS

7” “SDXL” SLIPS TAKE 72 INSERTS. 7” “SDML” SLIPS TAKE 60 INSERTS

1 SET INSERTS PER PIPE SIZE RECOMMENDED FOR 1 YEAR SPARES

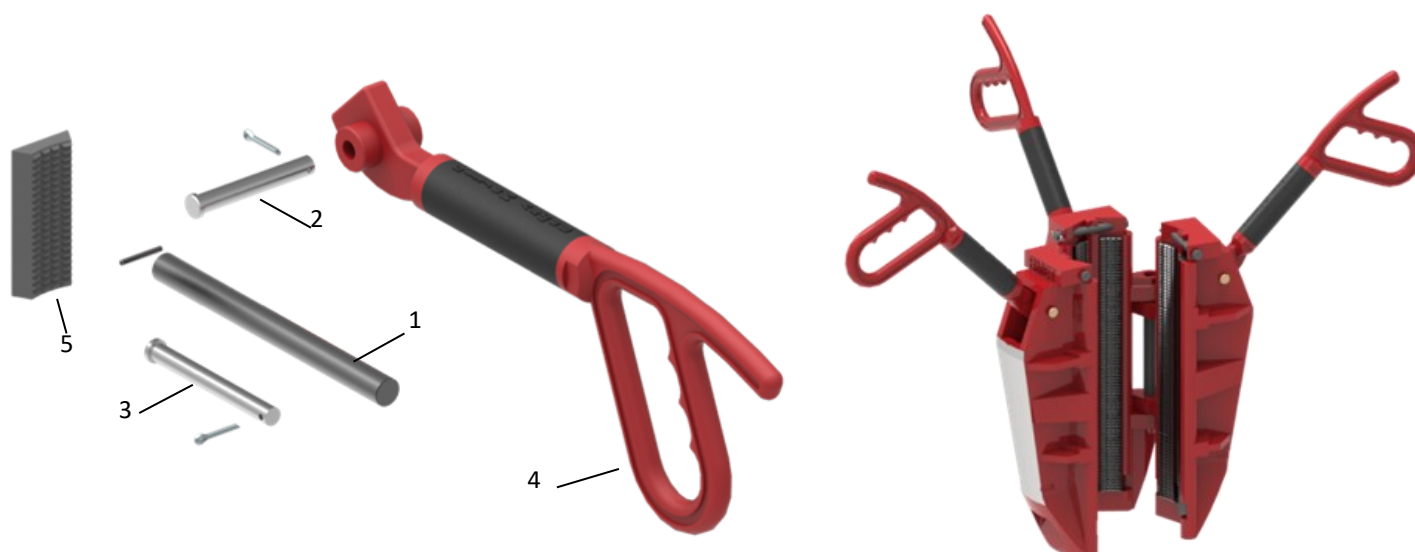


## RMET TYPE "B" ROTARY SLIPS

The Ramey Martin Type "B" Rotary Slip is designed for light to medium well drilling operations. They are made of alloy steel and heat-treated for strength and resistance to wear. Its standard size ranges from 2 1/16" to 4 1/2" and is used in API tapered bowls. RMET "Type B" Slips have an API taper of 4"/ft on the diameter.

### RMET TYPE "B" ROTARY SLIPS COMPLETE LESS INSERTS

| RMET#       | DESCRIPTION                                          | TAPER/FT (TPF) | RATING (TONS) | WT. |
|-------------|------------------------------------------------------|----------------|---------------|-----|
| 19-450-LR-F | 4 1/2" TYPE "B" ROTARY SLIP COMPLETE W/ FLEX HANDLES | 4.00"          | 200           | 140 |



### REPLACEMENT PARTS FOR RMET TYPE "B" ROTARY SLIPS

| RMET#    | ITEM# | DESCRIPTION               | REF#         | #REQ. | WT.  |
|----------|-------|---------------------------|--------------|-------|------|
| 19-101   | 1     | HINGE PIN w/ RETAINER     | 737-000-0500 | 2     | 1.10 |
| 19-102   | N/P   | RIGHT HANDLE              | 737-000-0300 | 1     | 6.20 |
| 19-103   | 2     | HANDLE PIN w/ COTTER      | 737-000-0400 | 3     | .20  |
| 19-104   | N/P   | REAR HANDLE               | 737-000-0200 | 1     | 4.92 |
| 19-105   | N/P   | LEFT HANDLE               | 737-000-0100 | 1     | 6.20 |
| 19-106   | 3     | INSERT RET. PIN w/ COTTER | 737-000-0600 | 3     | .25  |
| 19-104-F | 4     | FLEX HANDLE               | 737-100-0203 | 3     | 5.35 |
| 19-250   | 5     | 4-1/2" X 4-1/2"           | 757-044-0144 | 24    | .80  |
| 19-251   | 5     | 4-1/2" X 4"               | 757-044-0140 | 24    | 1.29 |
| 19-252   | 5     | 4-1/2" X 3-1/2"           | 757-044-0134 | 24    | 1.64 |
| 19-253   | 5     | 4-1/2" X 2-7/8"           | 757-044-0127 | 24    | 2.02 |
| 19-254   | 5     | 4-1/2" X 2-3/8"           | 757-044-0123 | 24    | 2.29 |
| 19-255   | 5     | 4-1/2" X 2-1/16"          | N/A          | 24    | 2.39 |

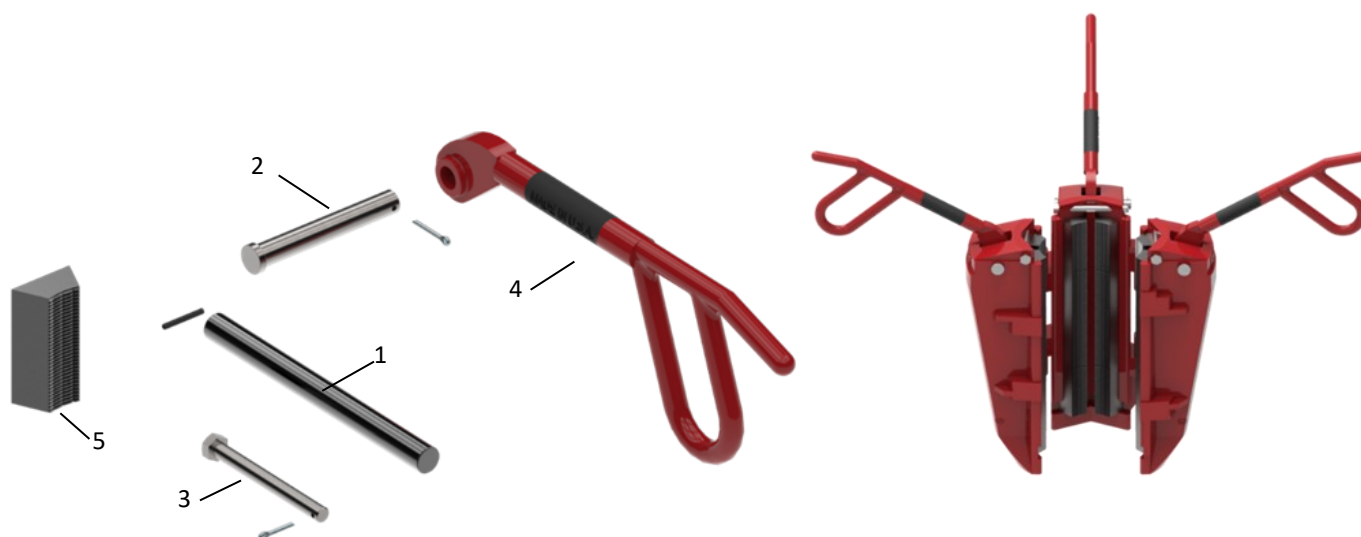
TYPE "B" SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.

## RMET TYPE "XL" ROTARY SLIPS

The Ramey Martin Type "XL" Rotary Slip is designed for medium to deep well drilling operations. They are made of alloy steel and heat-treated for strength and resistance to wear. Its standard size ranges from 3 1/2" to 5" and is used in API tapered bowls. All RMET "XL" Slips have an API taper of 4"/ft on the diameter.

### RMET TYPE "XL" ROTARY SLIPS COMPLETE LESS INSERTS

| RMET#          | DESCRIPTION                                       | TAPER/FT (TPF) | RATING (TONS) | WT. |
|----------------|---------------------------------------------------|----------------|---------------|-----|
| 19-500-XL-LR-F | 5" TYPE "XL" ROTARY SLIP COMPLETE W/ FLEX HANDLES | 4.00"          | 150           | 192 |



### RMET TYPE "XL" ROTARY SLIPS COMPLETE LESS INSERTS

| RMET#       | ITEM# | DESCRIPTION               | #REQ. | WT.  |
|-------------|-------|---------------------------|-------|------|
| 19-101-XL   | 1     | HINGE PIN w/ ROLL PIN     | 2     | 1.73 |
| 19-103-XL   | 2     | HANDLE PIN w/ COTTER      | 3     | .69  |
| 19-106-XL   | 3     | INSERT RET. PIN w/ COTTER | 3     | .32  |
| 19-104-XL-F | 4     | FLEX HANDLE               | 3     | 5.00 |
| 51-30       | 5     | 5" X 5"                   | 24    | 1.24 |
| 51-31       | 5     | 5" X 4 1/2"               | 24    | 1.67 |
| 51-32       | 5     | 5" X 4"                   | 24    | 2.10 |
| 51-33       | 5     | 5" X 3 1/2"               | 24    | 2.61 |

1 SET INSERTS PER PIPE SIZE RECOMMENDED FOR 1 YEAR SPARES

## RMET TYPE "A" DRILL COLLAR SLIP

The Ramey Martin Type "A" Drill Collar Slip has a multi-segment design that allows it to hinge so that it fits all drill collars within the slip's size range. The slip segments are made of alloy steel which are heat-treated for strength and wear resistance. The slip is load rated and has an API taper of 4"/ft on the diameter. For added safety, the RMET Type "A" Slip is also provided with safety flex handles as a standard option

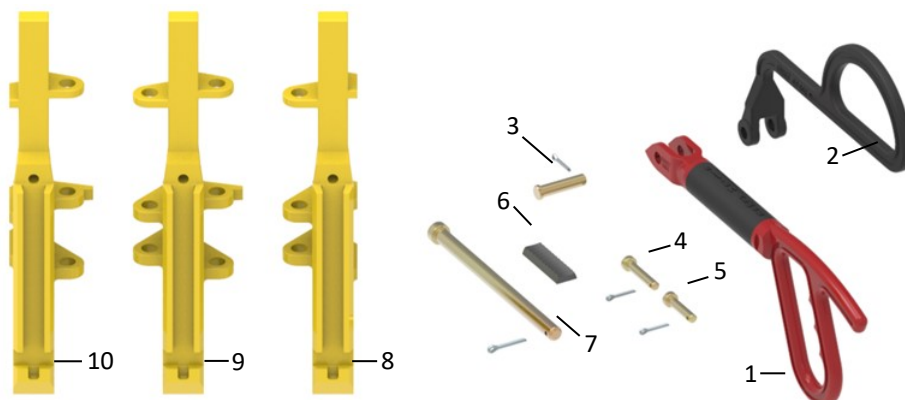


### RMET TYPE "A" DRILL COLLAR SLIPS COMPLETE

| RMET#         | D.C. SIZE/SLIP RECESS | SEG. PART NO. | SEG. QTY | TAPER/FT (TPF) | RATING (TONS) | WT. |
|---------------|-----------------------|---------------|----------|----------------|---------------|-----|
| 20-111-LR-F   | 3" - 4 1/4"           | 20-109        | 7        | 4.00"          | 95            | 136 |
| 20-111-1-LR-F | 3 3/4" - 4 3/4"       | 20-138        | 8        | 4.00"          | 110           | 128 |
| 20-112-LR-F   | 4 1/2" - 5 3/4"       | 20-121        | 9        | 4.00"          | 130           | 112 |
| 20-113-LR-F   | 5 1/2" - 7"           | 20-125        | 10       | 4.00"          | 150           | 117 |
| 20-114-LR-F   | 6 3/4" - 8 1/4"       | 20-130        | 11       | 4.00"          | 150           | 118 |
| 20-115-LR-F   | 8 1/4" - 10"          | 20-134        | 12       | 4.00"          | 150           | 120 |

TYPE "A" SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.

### REPLACEMENT PARTS FOR RMET TYPE "A" DRILL COLLAR SLIPS



# RMET TYPE "A" DRILL COLLAR SLIP PARTS

## REPLACEMENT PARTS FOR RMET TYPE "A" DRILL COLLAR SLIPS

\*PLEASE SEE DIAGRAM FOR REPLACEMENT PARTS ON PREVIOUS PAGE.

| RMET#  | ITEM# | DESCRIPTION                       | REF.#        | #REQ. | WT.   |
|--------|-------|-----------------------------------|--------------|-------|-------|
| 08-136 | 1     | FLEX HANDLE                       |              | 3     | 4.00  |
| 08-102 | 2     | STEEL HANDLE                      | 7638-A-78    | 3     | 2.50  |
| 08-103 | 3     | HANDLE PIN w/ COTTER              | 707-000-0300 | 3     | .12   |
| 20-102 | 4     | INSERT RET. PIN (3" - 4 1/4")     | 707-000-0600 | 7     | .08   |
| 20-103 | 6     | INSERT (3" - 4 1/4")              | 797-000-0000 | 21    | .22   |
| 20-101 | 7     | HINGE PIN (3" - 4 1/4")           | 707-000-0100 | 6     | .86   |
| 20-108 | 8     | R.H. SEGMENT (3" - 4 1/4")        | 707-300-0400 | 1     | 15.00 |
| 20-109 | 9     | INT. SEGMENT (3" - 4 1/4")        | 707-300-0100 | 5     | 15.00 |
| 20-110 | 10    | L.H. SEGMENT (3" - 4 1/4")        | 707-300-0300 | 1     | 15.00 |
| 20-102 | 4     | INSERT RET. PIN (3 3/4" - 4 3/4") | 707-000-0600 | 8     | .08   |
| 20-103 | 6     | INSERT (3 3/4" - 4 3/4")          | 797-000-0000 | 24    | .25   |
| 20-101 | 7     | HINGE PIN (3 3/4" - 4 3/4")       | 707-000-0100 | 7     | .86   |
| 20-137 | 8     | R.H. SEGMENT (3 3/4" - 4 3/4")    | 707-320-0400 | 1     | 14.00 |
| 20-138 | 9     | INT. SEGMENT (3 3/4" - 4 3/4")    | 707-320-0100 | 6     | 14.00 |
| 20-139 | 10    | L.H. SEGMENT (3 3/4" - 4 3/4")    | 707-320-0300 | 1     | 14.00 |
| 20-102 | 4     | INSERT RET. PIN (4 1/2" - 5 3/4") | 707-000-0600 | 9     | .08   |
| 20-103 | 6     | INSERT (4 1/2" - 5 3/4")          | 797-000-0000 | 27    | .25   |
| 20-101 | 7     | HINGE PIN (4 1/2" - 5 3/4")       | 707-000-0100 | 8     | .86   |
| 20-120 | 8     | R.H. SEGMENT (4 1/2" - 5 3/4")    | 707-420-0400 | 1     | 13.00 |
| 20-121 | 9     | INT. SEGMENT (4 1/2" - 5 3/4")    | 707-420-0100 | 7     | 13.00 |
| 20-122 | 10    | L.H. SEGMENT (4 1/2" - 5 3/4")    | 707-420-0300 | 1     | 13.00 |
| 20-102 | 4     | INSERT RET. PIN (5 1/2" - 7")     | 707-000-0600 | 10    | .08   |
| 20-103 | 6     | INSERT (5 1/2" - 7")              | 797-000-0000 | 30    | .25   |
| 20-101 | 7     | HINGE PIN (5 1/2" - 7")           | 707-000-0100 | 9     | .86   |
| 20-124 | 8     | R.H. SEGMENT (5 1/2" - 7")        | 707-540-0400 | 1     | 11.00 |
| 20-125 | 9     | INT. SEGMENT (5 1/2" - 7")        | 707-540-0100 | 8     | 11.00 |
| 20-126 | 10    | L.H. SEGMENT (5 1/2" - 7")        | 707-540-0300 | 1     | 11.00 |
| 20-102 | 4     | INSERT RET. PIN (6 3/4" - 8 1/4") | 707-000-0600 | 11    | .08   |
| 20-103 | 6     | INSERT (6 3/4" - 8 1/4")          | 797-000-0000 | 33    | .25   |
| 20-101 | 7     | HINGE PIN (6 3/4" - 8 1/4")       | 707-000-0100 | 10    | .86   |
| 20-129 | 8     | R.H. SEGMENT (6 3/4" - 8 1/4")    | 707-660-0400 | 1     | 8.50  |
| 20-130 | 9     | INT. SEGMENT (6 3/4" - 8 1/4")    | 707-660-0100 | 9     | 8.50  |
| 20-131 | 10    | L.H. SEGMENT (6 3/4" - 8 1/4")    | 770-660-0300 | 1     | 8.50  |
| 20-104 | 5     | INSERT RET. PIN (8 1/4" - 10")    | 707-000-0700 | 12    | .07   |
| 20-103 | 6     | INSERT (8 1/4" - 10")             | 797-000-0000 | 36    | .25   |
| 20-101 | 7     | HINGE PIN (8 1/4" - 10")          | 707-000-0100 | 11    | .86   |
| 20-133 | 8     | R.H. SEGMENT (8 1/4" - 10")       | 707-820-0400 | 1     | 6.00  |
| 20-134 | 9     | INT. SEGMENT (8 1/4" - 10")       | 707-820-0100 | 10    | 6.00  |
| 20-135 | 10    | L.H. SEGMENT (8 1/4" - 10")       | 707-820-0300 | 1     | 6.00  |

## RMET TYPE "C-1" DRILL COLLAR SLIP

The Ramey Martin "C-1" Drill Collar Slip has a multi-segment design that allows it to hinge so that it fits all drill collars within the slip's size range. The slip segments are made of alloy steel which are heat-treated for strength and wear resistance. The inserts are a continuous one-piece design with approximately 7 1/2" of contact length. The slip is load rated and has an API taper of 4"/ft on the diameter. For added safety, the Ramey Martin "C-1" Drill Collar Slip is also provided with safety flex handles as a standard option.



### RMET TYPE "C-1" DRILL COLLAR SLIPS

| RMET#         | D.C. SIZE/SLIP RECESS | SEG. PART NO. | SEG. QTY | TAPER/FT (TPF) | RATING (TONS) | WT. |
|---------------|-----------------------|---------------|----------|----------------|---------------|-----|
| 08-111-LR-F   | 3" - 4 1/2"           | 08-108        | 8        | 4.00"          | 120           | 112 |
| 08-112-LR-F   | 4 1/4" - 5 3/4"       | 08-121        | 10       | 4.00"          | 150           | 122 |
| 08-113-LR-F   | 5 1/2" - 7"           | 08-125        | 12       | 4.00"          | 200           | 134 |
| 08-114-LR-F   | 6 3/4" - 8 1/4"       | 08-130        | 12       | 4.00"          | 200           | 118 |
| 08-115-LR-F   | 8 1/2" - 10"          | 08-134        | 12       | 4.00"          | 200           | 98  |
| 08-116-LR-F*  | 10" - 11 1/4"         | 08-130        | 17       | 4.00"          | 200           | 165 |
| 08-117-LR-F** | 11 1/4" - 12 3/4"     | 08-125        | 19       | 4.00"          | 200           | 209 |

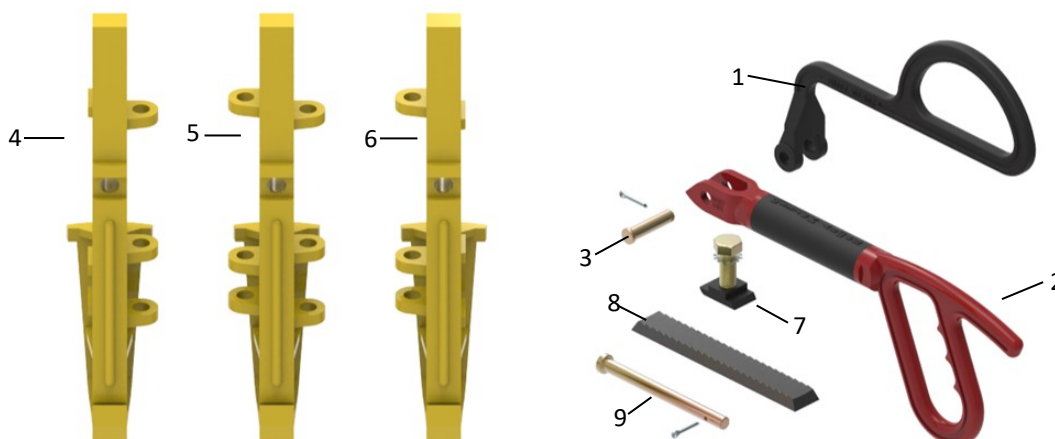
"C-1" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.

PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN "C-1" DRILL COLLAR SLIPS

\* FITS NO. 2 INSERT BOWL

\*\* FITS NO. 1 INSERT BOWL

### REPLACEMENT PARTS FOR RMET TYPE "C-1" DRILL COLLAR SLIPS



# RMET TYPE "C-1" DRILL COLLAR SLIP PARTS

## REPLACEMENT PARTS FOR RMET TYPE "C-1" DRILL COLLAR SLIPS

\*PLEASE SEE DIAGRAM FOR REPLACEMENT PARTS ON PREVIOUS PAGE.

| RMET#  | ITEM# | DESCRIPTION                  | *SPARE S | SIZE            | #REQ. | REF.#        | WT.   |
|--------|-------|------------------------------|----------|-----------------|-------|--------------|-------|
| 08-102 | 1     | HANDLE                       | 3        | 3" - 10"        | 3     | 7638-A-78    | 2.50  |
| 08-102 | 1     | HANDLE                       | 4        | 10" - 12 3/4"   | 4     | 7638-A-78    | 2.50  |
| 08-136 | 2     | FLEX HANDLE                  | 3        | 3" - 10"        | 3     | N/A          | 4.00  |
| 08-136 | 2     | FLEX HANDLE                  | 4        | 10" - 12 3/4"   | 4     | N/A          | 4.00  |
| 08-103 | 3     | HANDLE PIN w/COTTER          | 1        | 3" - 10"        | 3     | 7638-E-2     | .15   |
| 08-103 | 3     | HANDLE PIN w/COTTER          | 2        | 10" - 12 3/4"   | 4     | 7638-E-2     | .15   |
| 08-107 | 4     | R.H. SEGMENT                 |          | 3" - 4 1/2"     | 1     | 7638-5099-11 | 10.75 |
| 08-108 | 5     | INT. SEGMENT                 |          | 3" - 4 1/2"     | 6     | 7638-5099-10 | 10.75 |
| 08-109 | 6     | L.H. SEGMENT                 |          | 3" - 4 1/2"     | 1     | 7638-5099-12 | 10.75 |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 4        | 3" - 4 1/2"     | 8     | 7638-5113    | .40   |
| 08-105 | 8     | RENEWABLE LINER              |          | 3" - 4 1/2"     | 8     | 7638-116     | 1.00  |
| 08-101 | 9     | HINGE PIN w/COTTER           | 3        | 3" - 4 1/2"     | 7     | 7638-B-59    | .90   |
| 08-120 | 4     | R.H. SEGMENT                 |          | 4 1/4" - 5 3/4" | 1     | 7638-5100-11 | 9.25  |
| 08-121 | 5     | INT. SEGMENT                 |          | 4 1/4" - 5 3/4" | 8     | 7638-5100-10 | 9.25  |
| 08-122 | 6     | L.H. SEGMENT                 |          | 4 1/4" - 5 3/4" | 1     | 7638-5100-12 | 9.25  |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 5        | 4 1/4" - 5 3/4" | 10    | 7638-5113    | .40   |
| 08-105 | 8     | RENEWABLE LINER              |          | 4 1/4" - 5 3/4" | 10    | 7638-116     | 1.00  |
| 08-101 | 9     | HINGE PIN w/COTTER           | 3        | 4 1/4" - 5 3/4" | 9     | 7638-B-59    | .90   |
| 08-124 | 4     | R.H. SEGMENT                 |          | 5 1/2" - 7"     | 1     | 7638-5101-11 | 8.25  |
| 08-125 | 5     | INT. SEGMENT                 |          | 5 1/2" - 7"     | 10    | 7638-5101-10 | 8.25  |
| 08-126 | 6     | L.H. SEGMENT                 |          | 5 1/2" - 7"     | 1     | 7638-5101-12 | 8.25  |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 6        | 5 1/2" - 7"     | 12    | 7638-5113    | .40   |
| 08-105 | 8     | RENEWABLE LINER              |          | 5 1/2" - 7"     | 12    | 7638-116     | 1.00  |
| 08-101 | 9     | HINGE PIN w/COTTER           | 3        | 5 1/2" - 7"     | 11    | 7638-B-59    | 1.15  |
| 08-129 | 4     | R.H. SEGMENT (RIGHT HAND)    |          | 6 3/4" - 8 1/4" | 1     | 7638-5102-11 | 7.00  |
| 08-130 | 5     | INT. SEGMENT (INTERMEDIATE)  |          | 6 3/4" - 8 1/4" | 10    | 7638-5102-10 | 7.00  |
| 08-131 | 6     | L.H. SEGMENT (LEFT HAND)     |          | 6 3/4" - 8 1/4" | 1     | 7638-5102-12 | 7.00  |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 6        | 6 3/4" - 8 1/4" | 12    | 7638-5113    | .40   |
| 08-105 | 8     | RENEWABLE LINER              |          | 6 3/4" - 8 1/4" | 12    | 7638-116     | 1.00  |
| 08-101 | 9     | HINGE PIN w/COTTER           | 3        | 6 3/4" - 8 1/4" | 11    | 7638-B-59    | .90   |
| 08-133 | 4     | R.H. SEGMENT                 |          | 8 1/2" - 10"    | 1     | 7638-5103-11 | 5.75  |
| 08-134 | 5     | INT. SEGMENT                 |          | 8 1/2" - 10"    | 10    | 7638-5103-10 | 5.75  |
| 08-135 | 6     | L.H. SEGMENT                 |          | 8 1/2" - 10"    | 1     | 7638-5103-12 | 5.75  |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 6        | 8 1/2" - 10"    | 12    | 7638-5113    | .40   |
| 08-105 | 8     | RENEWABLE LINER              |          | 8 1/2" - 10"    | 12    | 7638-116     | 1.00  |
| 08-106 | 9     | HINGE PIN w/COTTER           | 3        | 8 1/2" - 10"    | 11    | N/A          | .40   |

\* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

We Respond with Knowledge and Products, **On Time.**

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# RMET TYPE "C-1" DRILL COLLAR SLIP PARTS

## REPLACEMENT PARTS FOR RMET TYPE "C-1" DRILL COLLAR SLIPS

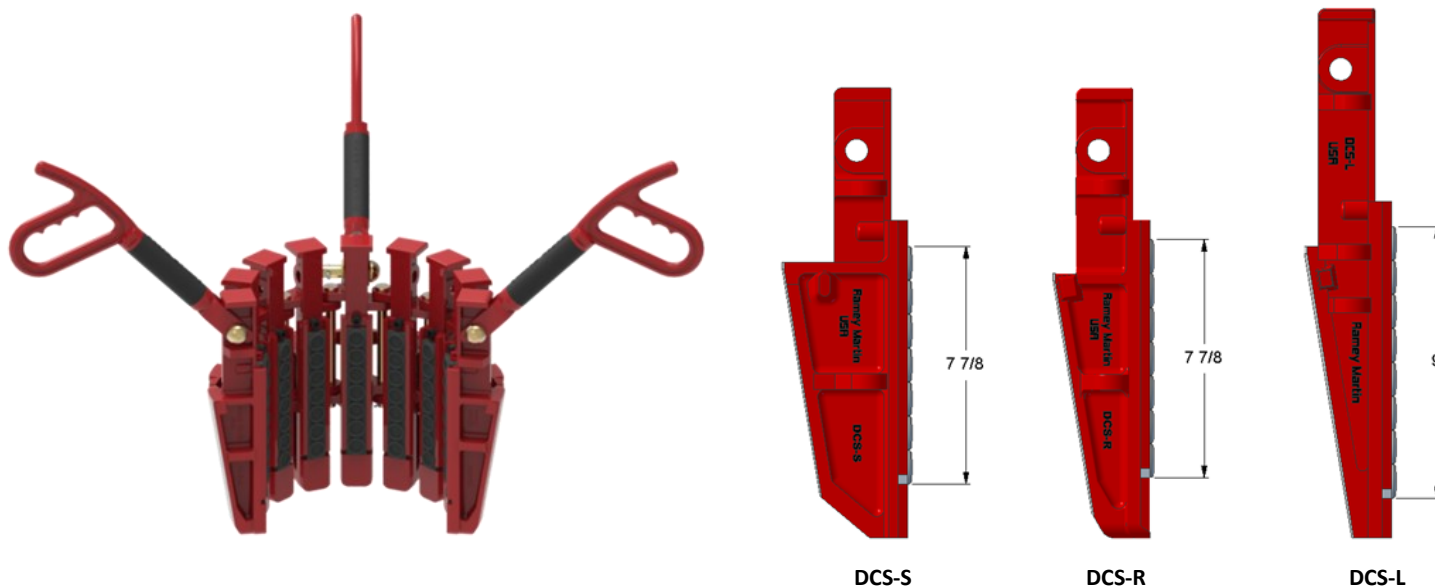
\*PLEASE SEE DIAGRAM FOR REPLACEMENT PARTS ON PREVIOUS PAGE.

| RMET#  | ITEM# | DESCRIPTION                  | *SPARES | SIZE               | #REQ. | REF.#        | WT.  |
|--------|-------|------------------------------|---------|--------------------|-------|--------------|------|
| 08-129 | 4     | R.H. SEGMENT                 |         | 10" - 11 1/4"      | 1     | 7638-5102-11 | 7.00 |
| 08-130 | 5     | INT. SEGMENT                 |         | 10" - 11 1/4"      | 15    | 7638-5102-10 | 7.00 |
| 08-131 | 6     | L.H. SEGMENT                 |         | 10" - 11 1/4"      | 1     | 7638-5102-12 | 7.00 |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 8       | 10" - 11 1/4"      | 17    | 7638-5113    | 1.00 |
| 08-105 | 8     | RENEWABLE LINER              |         | 10" - 11 1/4"      | 17    | 7638-116     | 1.00 |
| 08-101 | 9     | HINGE PIN w/COTTER           | 4       | 10" - 11 1/4"      | 16    | 7638-B-59    | 1.15 |
| 08-124 | 4     | R.H. SEGMENT                 |         | 11 1/4" - 12" 3/4" | 1     | 7638-5101-11 | 8.25 |
| 08-125 | 5     | INT. SEGMENT                 |         | 11 1/4" - 12"      | 17    | 7638-5101-10 | 8.25 |
| 08-126 | 6     | L.H. SEGMENT                 |         | 11 1/4" - 12" 3/4" | 1     | 7638-5101-12 | 8.25 |
| 08-104 | 7     | LINER KEEPER w/BOLT & WASHER | 9       | 11 1/4" - 12"      | 19    | 7638-5113    | 1.00 |
| 08-105 | 8     | RENEWABLE LINER              |         | 11 1/4" - 12"      | 19    | 7638-116     | 1.00 |
| 08-101 | 9     | HINGE PIN w/COTTER           | 4       | 11 1/4" - 12 3/4"  | 18    | 7638-B-59    | 1.15 |

\* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

# RMET TYPE “DCS” DRILL COLLAR SLIPS

The Ramey Martin “DCS” Type Drill Collar Slip has a multi-segment design to give a full wrap-around to insure a proper slip setting. The slips are made of alloy steel and heat-treated for strength and long life. The slip is load rated and has an API taper of 4”/ft on the diameter. For added safety, the Ramey Martin “DCS” Type Drill Collar Slip is also provided with safety flex handles as a standard option.



## RMET “DCS” DRILL COLLAR SLIPS COMPLETE

| RMET#       | SIZE RANGE       | TYPE SLIP | SEG. QTY | TAPER/FT (TPF) | RATING (TONS)  | WT. |
|-------------|------------------|-----------|----------|----------------|----------------|-----|
| 16-120-LR-F | 3" - 4"          | DCS-S     | 7        | 4.00"          | 120            | 112 |
| 16-121-LR-F | 4" - 4 7/8"      | DCS-S     | 7        | 4.00"          | 120            | 103 |
| 16-122-LR-F | 4 1/2" - 6"      | DCS-R     | 9        | 4.00"          | 150            | 120 |
| 16-123-LR-F | 5 1/2" - 7"      | DCS-R     | 9        | 4.00"          | 150            | 112 |
| 16-125-LR-F | 5 1/2" - 7"      | DCS-L *   | 11       | 4.00"          | 15 T/SEG = 165 | 172 |
| 16-126-LR-F | 6 3/4" - 8 1/4"  | DCS-L *   | 11       | 4.00"          | 15 T/SEG = 165 | 154 |
| 16-127-LR-F | 8" - 9 1/2"      | DCS-L *   | 12       | 4.00"          | 15 T/SEG = 180 | 173 |
| 16-128-LR-F | 8 1/2" - 10"     | DCS-L *   | 13       | 4.00"          | 15T/SEG = 195  | 185 |
| 16-129-LR-F | 9 1/4" - 11 1/4" | DCS-L *   | 14       | 4.00"          | 15T/SEG = 210  | 198 |
| 16-130-LR-F | 11" - 12 3/4"    | DCS-L *   | 17       | 4.00"          | 15T/SEG = 255  | 213 |
| 16-131-LR-F | 12" - 14"        | DCS-L *   | 17       | 4.00"          | 15T/SEG = 255  | 207 |

\* DUAL SLIP RATING

“DCS” TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.

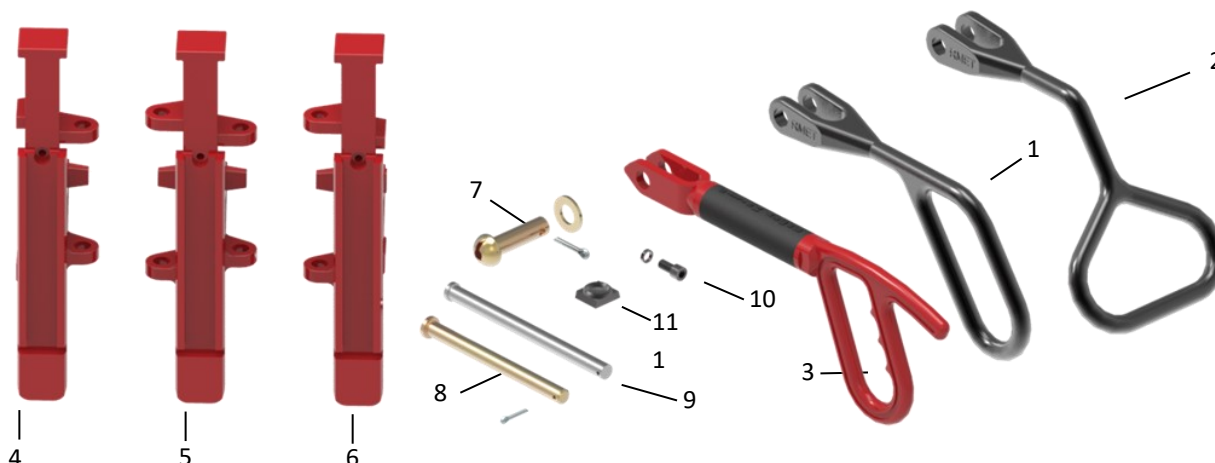
NOTE: SLIP SIZES 3" - 9 1/2" FOR USE IN API OR #3 BOWL

SLIP SIZES 8 1/2" - 11 1/4" FOR USE IN #2 BOWL

SLIP SIZES 11" - 14" FOR USE IN #1 BOWL



# RMET TYPE "DCS" DRILL COLLAR SLIPS PARTS



## REPLACEMENT PARTS FOR RMET "DCS" DRILL COLLAR SLIPS

| RMET#  | ITEM# | DESCRIPTION                   | *SPARES | SIZE            | #REQ | REF.# | WT.   |
|--------|-------|-------------------------------|---------|-----------------|------|-------|-------|
| 14-104 | 1     | FRONT HANDLE                  | 2       | 3" - 14"        | 2    | 3765  | 3.50  |
| 14-103 | 2     | REAR HANDLE                   | 1       | 3" - 10"        | 1    | 3766  | 4.00  |
| 14-103 | 2     | REAR HANDLE                   | 1       | 9 1/4" - 14"    | 2    | 3766  | 4.00  |
| 23-112 | 2     | FLEX HANDLE                   |         | 3" - 10"        | 3    |       |       |
| 23-112 | 2     | FLEX HANDLE                   |         | 9 1/4" - 14"    | 4    |       |       |
| 16-102 | 4     | L.H. SEGMENT f/DCSS           |         | 3" - 4 7/8"     | 1    | 2569  | 11.00 |
| 16-103 | 5     | INT. SEGMENT f/DCS-S          |         | 3" - 4 7/8"     | 5    | 2570  | 11.00 |
| 16-104 | 6     | R.H. SEGMENT f/DCS-S          |         | 3" - 4 7/8"     | 1    | 2568  | 11.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 3" - 4 7/8"     | 3    | 3769  | .50   |
| 14-106 | 8     | HINGE PIN f/DCS-S             | 4       | 3" - 4 7/8"     | 6    | 2525  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 3" - 4 7/8"     | 49   | N/A   | .05   |
| 16-105 | 4     | L.H. SEGMENT f/DCSR           |         | 4 1/2" - 7"     | 1    | 2555  | 10.00 |
| 16-106 | 5     | INT. SEGMENT f/DCS-R          |         | 4 1/2" - 7"     | 7    | 2556  | 10.00 |
| 16-107 | 6     | R.H. SEGMENT f/DCS-R          |         | 4 1/2" - 7"     | 1    | 2554  | 10.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 4 1/2" - 7"     | 3    | 3769  | .50   |
| 14-106 | 8     | HINGE PIN f/DCS-R             | 4       | 4 1/2" - 7"     | 8    | 2525  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 4 1/2" - 7"     | 9    | N/A   | .05   |
| 16-108 | 4     | L.H. SEGMENT f/DCSL           |         | 5 1/2" - 8 1/4" | 1    | 2511  | 12.00 |
| 16-109 | 5     | INT. SEGMENT f/DCS-L          |         | 5 1/2" - 8 1/4" | 9    | 2512  | 12.00 |
| 16-110 | 6     | R.H. SEGMENT f/DCS-L          |         | 5 1/2" - 8 1/4" | 1    | 2510  | 12.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 5 1/2" - 8 1/4" | 3    | 3769  | .50   |
| 16-112 | 9     | HINGE PIN f/DCS-L             | 4       | 5 1/2" - 8 1/4" | 10   | 2520  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 5 1/2" - 8 1/4" | 11   | N/A   | .05   |

\* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

# RMET TYPE "DCS" DRILL COLLAR SLIPS PARTS

## REPLACEMENT PARTS FOR RMET "DCS" DRILL COLLAR SLIPS

\*PLEASE SEE DIAGRAM FOR REPLACEMENT PARTS ON PREVIOUS PAGE.

| RMET#  | ITEM# | DESCRIPTION                   | *SPARES | SIZE             | #REQ | REF.# | WT.   |
|--------|-------|-------------------------------|---------|------------------|------|-------|-------|
| 16-108 | 4     | L.H. SEGMENT f/DCSL           |         | 8" - 9 1/2"      | 1    | 2511  | 12.00 |
| 16-109 | 5     | INT. SEGMENT f/DCS-L          |         | 8" - 9 1/2"      | 10   | 2512  | 12.00 |
| 16-110 | 6     | R.H. SEGMENT f/DCS-L          |         | 8" - 9 1/2"      | 1    | 2510  | 12.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 8" - 9 1/2"      | 3    | 3769  | .50   |
| 16-112 | 9     | HINGE PIN f/DCS-L             | 4       | 8" - 9 1/2"      | 11   | 2520  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 8" - 9 1/2"      | 12   | N/A   | .05   |
| 16-108 | 4     | L.H. SEGMENT f/DCSL           |         | 8 1/2" - 10"     | 1    | 2511  | 12.00 |
| 16-109 | 5     | INT. SEGMENT f/DCS-L          |         | 8 1/2" - 10"     | 11   | 2512  | 12.00 |
| 16-110 | 6     | R.H. SEGMENT f/DCS-L          |         | 8 1/2" - 10"     | 1    | 2510  | 12.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 8 1/2" - 10"     | 3    | 3769  | .50   |
| 16-112 | 9     | HINGE PIN f/DCS-L             | 4       | 8 1/2" - 10"     | 12   | 2520  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 8 1/2" - 10"     | 13   | N/A   | .05   |
| 16-108 | 4     | L.H. SEGMENT f/DCSL           |         | 9 1/4" - 11 1/4" | 1    | 2511  | 12.00 |
| 16-109 | 5     | INT. SEGMENT f/DCS-L          |         | 9 1/4" - 11 1/4" | 12   | 2512  | 12.00 |
| 16-110 | 6     | R.H. SEGMENT f/DCS-L          |         | 9 1/4" - 11 1/4" | 1    | 2510  | 12.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 9 1/4" - 11 1/4" | 4    | 3769  | .50   |
| 16-112 | 9     | HINGE PIN f/DCS-L             | 4       | 9 1/4" - 11 1/4" | 13   | 2520  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 9 1/4" - 11 1/4" | 14   | N/A   | .05   |
| 16-108 | 4     | L.H. SEGMENT f/DCSL           |         | 11" - 14"        | 1    | 2511  | 12.00 |
| 16-109 | 5     | INT. SEGMENT f/DCS-L          |         | 11" - 14"        | 15   | 2512  | 12.00 |
| 16-110 | 6     | R.H. SEGMENT f/DCS-L          |         | 11" - 14"        | 1    | 2510  | 12.00 |
| 14-105 | 7     | HANDLE PIN W/ WASHER & COTTER | 3       | 11" - 14"        | 4    | 3769  | .50   |
| 16-112 | 9     | HINGE PIN f/DCS-L             | 4       | 11" - 14"        | 16   | 2520  | .70   |
| 14-091 | 10    | BUTTON RETAINER SCREW W/ HCLW |         | 11" - 14"        | 17   | N/A   | .05   |

\* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

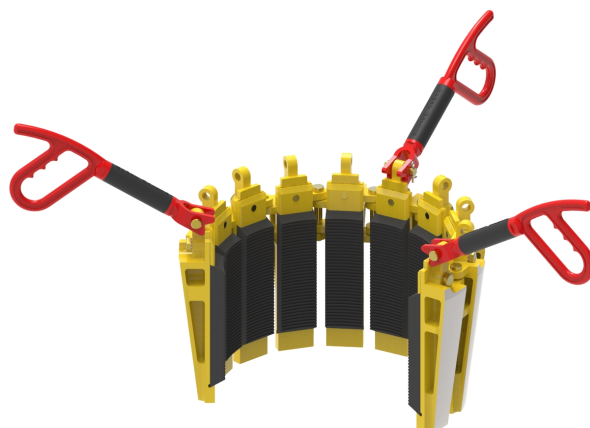
## BUTTON (#11) AND CROSS REF. INSERTS F / "DCS" DRILL COLLAR SLIP

| RMET# (BUTTON) | SLIP TYPE | SIZE             | QTY | WT./SET | RMET# (INSERT) | QTY | WT./SET |
|----------------|-----------|------------------|-----|---------|----------------|-----|---------|
| 2628           | DCS S     | 3" - 4"          | 49  | 13.00   | 2632           | 21  | 7       |
| 2620           | DCS S     | 4" - 4 7/8"      | 49  | 8.00    | 2634           | 21  | 4       |
| 2628           | DCS R     | 4 1/2" - 6"      | 63  | 16.00   | 2632           | 27  | 9       |
| 2620           | DCS R     | 5 1/2" - 7"      | 63  | 11.00   | 2634           | 27  | 5       |
| 2513           | DCS L     | 5 1/2" - 7"      | 88  | 19.00   | 2521           | 33  | 7       |
| 2630           | DCS L     | 6 3/4" - 8 1/4"  | 88  | 15.00   | 2633           | 33  | 5       |
| 2630           | DCS L     | 8" - 9 1/2"      | 96  | 16.00   | 2633           | 36  | 5       |
| 2627           | DCS L     | 8 1/2" - 10"     | 104 | 26.00   | 2637           | 39  | 11      |
| 2630           | DCS L     | 9 1/4" - 11 1/4" | 112 | 19.00   | 2633           | 42  | 5       |
| 2625           | DCS L     | 11" - 12 3/4"    | 136 | 20.00   | 2639           | 51  | 11      |
| 2630           | DCS L     | 12" - 14"        | 136 | 22.00   | 2633           | 51  | 5       |

\* RECOMMENDED SPARE PARTS INCLUDE 2 SETS OF INSERTS FOR EACH SLIP SIZE

## RMET TYPE “UC-3” CASING SLIPS

The “UC-3” Type Casing Slip has a 3” taper designed with a single liner per segment and a liner keeper assembly with bolt and washer. It has a size range of 9-5/8” through 10 3/4”. The inserts are a continuous one-piece design with approximately 8 1/2” of contact length. For added safety, the Ramey Martin “UC-3” Casing Slip is also provided with safety flex handles as a standard option with steel handles available upon request.

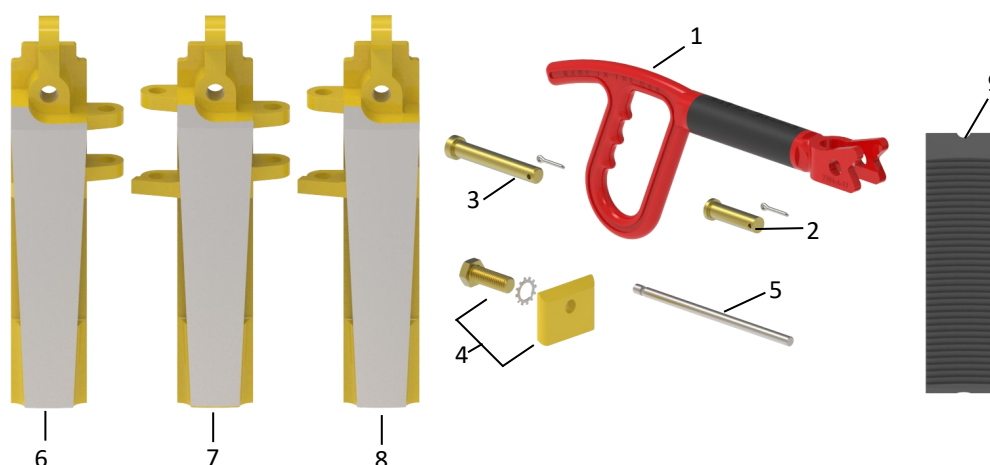


### REPLACEMENT PARTS FOR RMET “UC-3” CASING SLIPS

| RMET#       | SLIP SIZE | W/INSERTS<br>FOR O.D. | INT.<br>SEG./PN (#7) | R.H.<br>SEG./PN (#8) | L.H.<br>SEG./PN (#6) | TAPER/FT (TPF) | WT. |
|-------------|-----------|-----------------------|----------------------|----------------------|----------------------|----------------|-----|
| 7704-5028-F | 10 3/4”   | 10 3/4” O.D.          | 8 / 7704-A-31        | 1 / 7704-A-32        | 1 / 7704-A-33        | 3.00”          | 160 |
| 7704-5029-F | 10 3/4”   | 9 5/8” O.D.           | 8 / 7704-A-31        | 1 / 7704-A-32        | 1 / 7704-A-33        | 3.00”          | 180 |
| 7704-103-F  | 10 3/4”   | LESS LINERS           | 8 / 7704-A-31        | 1 / 7704-A-32        | 1 / 7704-A-33        | 3.00”          | 130 |
| 7704-5025-F | 13 3/8”   | 13 3/8” O.D.          | 10 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 195 |
| 7704-5026-F | 13 3/8”   | 12 3/4” O.D.          | 10 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 222 |
| 7704-5027-F | 13 3/8”   | 11 3/4” O.D.          | 10 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 228 |
| 7704-104-F  | 13 3/8”   | LESS LINERS           | 10 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 153 |
| 7704-5036-F | 16”       | 16” O.D.              | 12 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 226 |
| 7704-106-F  | 16”       | LESS LINERS           | 12 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 176 |
| 7704-5034-F | 20”       | 20” O.D.              | 15 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 283 |
| 7704-5035-F | 20”       | 18 5/8” O.D.          | 15 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 325 |
| 7704-110-F  | 20”       | LESS LINERS           | 15 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 223 |
| 7704-5001-F | 24”       | 24” O.D.              | 17 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 312 |
| 7704-5002-F | 24”       | 22 1/2” O.D.          | 17 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 359 |
| 7704-5009-F | 24”       | LESS LINERS           | 17 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 246 |
| 7704-5006-F | 26”       | 26” O.D.              | 19 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 325 |
| 7704-5010-F | 26”       | LESS LINERS           | 19 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 252 |
| 7704-5005-F | 30”       | 30” O.D.              | 22 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 367 |
| 7704-5011-F | 30”       | LESS LINERS           | 22 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 283 |
| 7704-5007-F | 36”       | 36” O.D.              | 26 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 437 |
| 7704-5013-F | 36”       | LESS LINERS           | 26 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 340 |
| 7704-5019-F | 42”       | 42” O.D.              | 30 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 495 |
| 7704-5018-F | 42”       | LESS LINERS           | 30 / 7704-A-35       | 1 / 7704-A-36        | 1 / 7704-A-37        | 3.00”          | 375 |

\*“UC-3” TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART

## RMET TYPE "UC-3" CASING SLIPS PARTS



### REPLACEMENT PARTS FOR RMET "UC-3" CASING SLIPS

| RMET#       | ITEM# | DESCRIPTION                | 10 3/4" NO. | 13 3/8" NO. | 16" NO. | 20" NO. | 24" NO. | 26" NO. | 30" NO. | 36" NO. | 42" NO. | WT.  |
|-------------|-------|----------------------------|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|------|
| 7704-A-17-F | 1     | FLEX HANDLE                | 3           | 4           | 4       | 4       | 4       | 4       | 4       | 6       | 6       | 4.00 |
| 7704-A-17   | N/P   | HANDLE                     | 3           | 4           | 4       | 4       | 4       | 4       | 4       | 6       | 6       | 5.50 |
| 7704-A-16   | 2     | HANDLE PIN W/COTTER        | 3           | 4           | 4       | 4       | 4       | 4       | 4       | 6       | 6       | .5   |
| 7704-B-16   | 3     | HINGE PIN W/COTTER         | 9           | 11          | 13      | 16      | 18      | 20      | 23      | 27      | 31      | .375 |
| 7704-5024   | 4     | KEEPER ASSY. W/BOLT & WAS. | 10          | 12          | 14      | 17      | 19      | 21      | 24      | 28      | 32      | .25  |
| 7704-A-29   | 5     | LINER RETAINER W/COTTER    | *           | *           | *       | *       | *       | *       | *       | *       | *       | .25  |

\* NOT REQUIRED FOR RMET UC-3 SEGMENT

### LINERS FOR RMET "UC-3" & "UC-4" CASING SLIPS

| RMET#       | ITEM# | SLIP SIZE | PIPE SIZE | #REQ.       | WT.   |
|-------------|-------|-----------|-----------|-------------|-------|
| 7704-A-8    | 9     | 10 3/4"   | 10 3/4"   | 10          | 3.50  |
| 7704-A-9    | 9     | 10 3/4"   | 9 5/8"    | 10          | 7.38  |
| 7704-A-38   | 9     | 13 3/8"   | 13 3/8"   | 12          | 3.75  |
| 7704-A-92   | 9     | 13 3/8"   | 12 3/4"   | 12          | 5.75  |
| 7704-A-39   | 9     | 13 3/8"   | 11 3/4"   | 12          | 10.18 |
| 7704-A-99   | 9     | 16"       | 16"       | 14          | 3.50  |
| 7704-A-99   | 9     | 20"       | 20"       | 17          | 3.50  |
| 7704-A-9000 | 9     | 20"       | 18 5/8"   | 17          | 6.00  |
| 7704-A-99   | 9     | 24"       | 24"       | 19          | 3.50  |
| 7704-A-5000 | 9     | 24"       | 22 1/2"   | 19          | 6.00  |
| 7704-A-100  | 9     |           | 26" -42"  | AS REQUIRED | 3.50  |

## RMET TYPE “CMSXL” CASING SLIPS

The Ramey Martin “CMS” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. By adding or subtracting segments & inserts the slip can accommodate 6 5/8” - 30” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and wear resistance. CMS-XL slip has an API taper of 4”/ft on the diameter while the CMS-3 slip has an API taper of 3”/ft on the diameter. For added safety, the Ramey Martin “CMS” Casing Slip is also provided with safety flex handles as a standard option with steel handles available upon request.



### RMET “CMSXL” CASING SLIPS COMPLETE

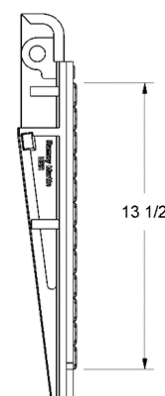
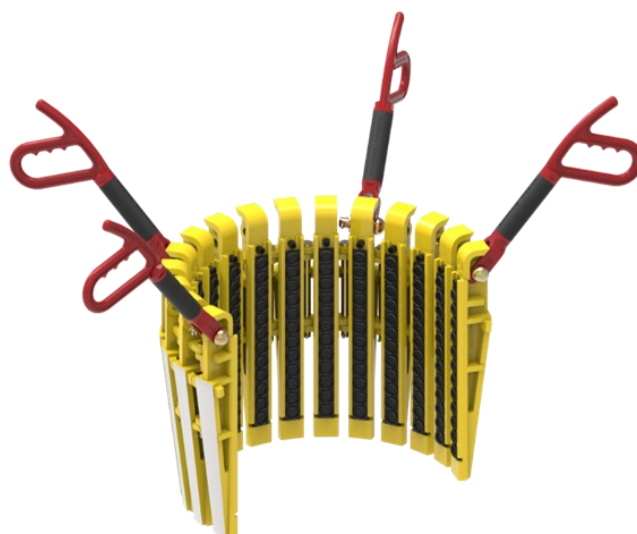
| RMET#          | CASING O.D. | WT. COMP. | SEG. QTY | TAPER/ FT (TPF) | RATING (TONS) * | HINGE PINS | NO. OF HANDLES | BUTTON# - QTY | INSERT# - QTY |
|----------------|-------------|-----------|----------|-----------------|-----------------|------------|----------------|---------------|---------------|
| 14-111-LR-F    | 6 5/8"      | 205       | 12       | 4.00"           | 15T/SEG = 180   | 11         | 3              | 2628-144      | 2632-60       |
| 14-112-LR-F    | 7"          | 206       | 12       | 4.00"           | 15T/SEG = 180   | 11         | 3              | 2619-144      | 2623-60       |
| 14-113-LR-F    | 7 5/8"      | 204       | 12       | 4.00"           | 15T/SEG = 180   | 11         | 3              | 2630-144      | 2633-60       |
| 14-114-LR-F    | 8 5/8"      | 220       | 13       | 4.00"           | 15T/SEG = 195   | 12         | 3              | 2630-156      | 2633-65       |
| 14-115-LR-F    | 9 5/8"      | 240       | 14       | 4.00"           | 15T/SEG = 210   | 13         | 4              | 2630-168      | 2633-70       |
| 14-116-LR-F    | 10 3/4"     | 256       | 15       | 4.00"           | 15T/SEG = 225   | 14         | 4              | 2630-180      | 2637-75       |
| 14-117-LR-F    | 11 3/4"     | 288       | 17       | 4.00"           | 15T/SEG = 255   | 16         | 4              | 2627-204      | 2636-85       |
| 14-118-LR-F    | 13 3/8"     | 304       | 18       | 4.00"           | 15T/SEG = 270   | 17         | 4              | 2630-216      | 2637-90       |
| 14-119-LR-F    | 16"         | 351       | 21       | 4.00"           | 15T/SEG = 315   | 20         | 4              | 2631-252      | 2635-105      |
| 14-120-18-LR-F | 18"         | 405       | 24       | 4.00"           | 15T/SEG = 360   | 23         | 4              | 2625-288      |               |
| 14-120-LR-F    | 18 5/8"     | 417       | 25       | 4.00"           | 15T/SEG = 375   | 24         | 4              | 2626-300      | 2638-125      |
| 14-121-LR-F    | 20"         | 416       | 26       | 4.00"           | 15T/SEG = 390   | 25         | 4              | 2631-300      | 2635-130      |
| 14-162-LR-F    | 22"         | 548       | 29       | 4.00"           | 15T/SEG = 435   | 28         | 4              | 13868-348     |               |
| 14-122-LR-F    | 24"         | 500       | 30       | 4.00"           | 15T/SEG = 450   | 29         | 5              | 2631-360      | 2635-150      |
| 14-123-LR-F    | 26"         | 531       | 32       | 4.00"           | 15T/SEG = 480   | 31         | 5              | 2631-384      | 2635-160      |
| 14-124-LR-F    | 30"         | 598       | 36       | 4.00"           | 15T/SEG = 500   | 35         | 5              | 2631-432      | 2635-180      |

“CMS-XL” TYPE SLIP IS AVAILABLE IN CUSTOM SIZES UPON REQUEST. TO ORDER REMOVE THE (-F) FROM THE END OF THE PART#.

\* DUAL SLIP RATING. NOT TO EXCEED 500 TONS

## RMET TYPE “CMS-3” CASING SLIPS

The RMET “CMSXL” and “CMS-3” Casing Slips have a multi-segment design which gives a full wrap-around to help prevent damage to casing. By adding or subtracting segments & inserts the slip can accommodate 6 5/8” - 30” O.D. casing. The segments are made of alloy steel and are heat-treated for strength and wear resistance, then machined to strict quality controlled standards. CMS-3 slip has an API taper of 3”/ft on the diameter.



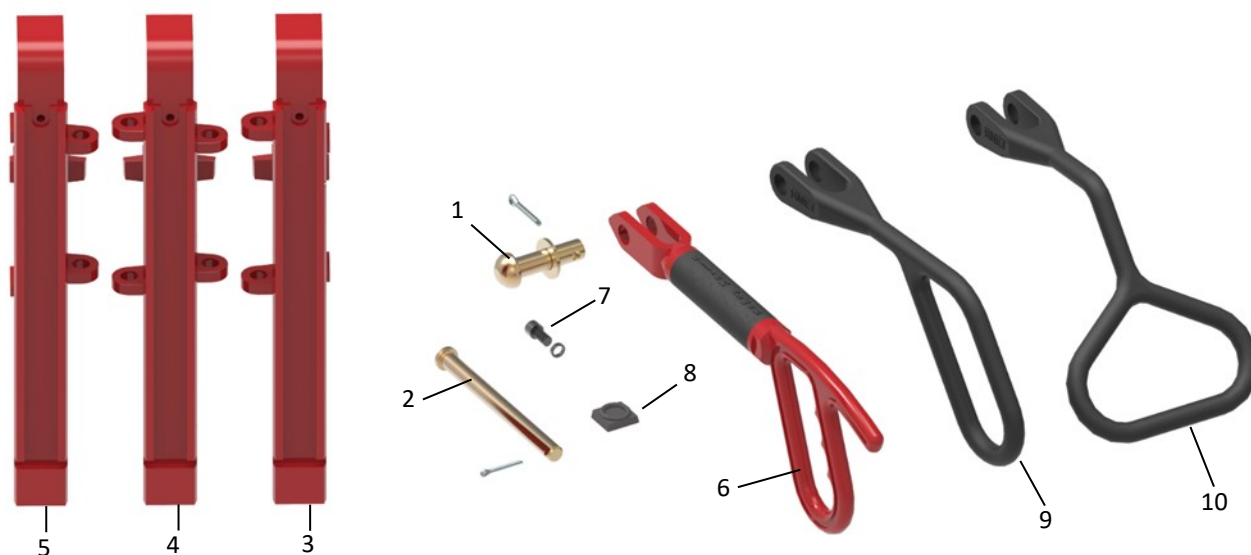
### RMET “CMS-3” CASING SLIPS COMPLETE

| RMET#    | CASING O.D. | WT. COMP. | SEG. QTY | TAPER /FT (TPF) | HINGE PINS | NO. OF HANDLES | BUTTON# - QTY |
|----------|-------------|-----------|----------|-----------------|------------|----------------|---------------|
| 14-134-F | 9 5/8"      | 214       | 15       | 3.00"           | 13         | 4              | 2513-180      |
| 14-135-F | 10 3/4"     | 224       | 15       | 3.00"           | 14         | 4              | 2630-180      |
| 14-136-F | 11 3/4"     | 255       | 17       | 3.00"           | 16         | 4              | 2627-204      |
| 14-137-F | 13 3/8"     | 268       | 18       | 3.00"           | 17         | 4              | 2630-216      |
| 14-138-F | 16"         | 310       | 21       | 3.00"           | 20         | 4              | 2631-252      |
| 14-139-F | 18 5/8"     | 367       | 25       | 3.00"           | 24         | 4              | 2626-300      |
| 14-140-F | 20"         | 366       | 25       | 3.00"           | 24         | 4              | 2631-312      |
| 14-141-F | 24"         | 440       | 30       | 3.00"           | 29         | 5              | 2631-360      |
| 14-142-F | 26"         | 468       | 32       | 3.00"           | 31         | 5              | 2631-396      |
| 14-143-F | 30"         | 524       | 36       | 3.00"           | 35         | 5              | 2631-444      |

### RMET “CPS” CONDUCTOR PIPE SLIPS (3” TPF)

| RMET#  | PIPE O.D. | WT. COMPLETE | TOTAL SEGMENTS | HINGE SPACERS | NO. OF HANDLES | INSERTS - QTY |
|--------|-----------|--------------|----------------|---------------|----------------|---------------|
| 14-244 | 24"       | 272          | 13             | 12            | 4              | 2631-156      |
| 14-266 | 26"       | 292          | 14             | 13            | 4              | 2631-168      |
| 14-330 | 30"       | 342          | 16             | 15            | 4              | 2631-192      |

## RMET TYPE “CMS” & “CPS” SLIP PARTS



### REPLACEMENT PARTS FOR “CMS” & “CPS” SLIPS

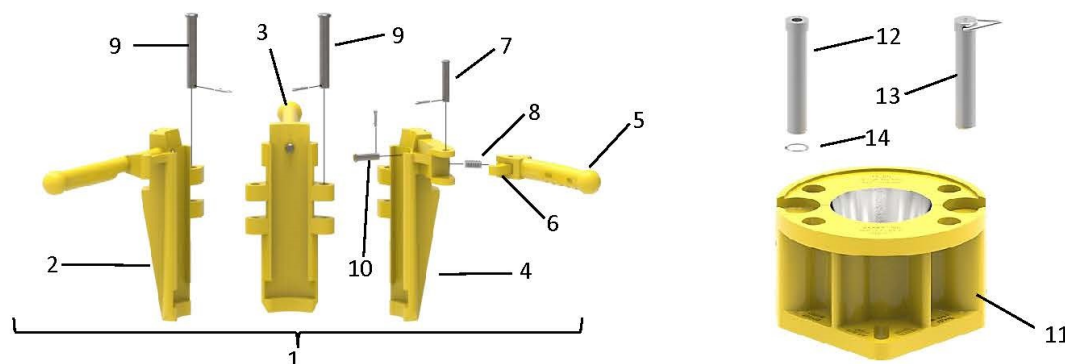
| RMET#  | ITEM# | DESCRIPTION                            | REF.# | *SPARES | WT.    |
|--------|-------|----------------------------------------|-------|---------|--------|
| 14-105 | 1     | HANDLE PIN w/WASHER & COTTER           | 3769  | 3       | .50    |
| 14-106 | 2     | HINGE PIN w/COTTER                     | 2525  | 2       | .60    |
| 14-100 | 3     | RIGHT HAND SEGMENT f/CMSXL SLIP        | 5320  |         | 12.00  |
| 14-148 | 3     | RIGHT HAND SEGMENT f/CMS-3” SLIP       | N/A   |         | 11.00  |
| 14-107 | 4     | INTERMEDIATE SEGMENT f/CMSXL SLIP      | 5322  |         | 12.00  |
| 14-149 | 4     | INTERMEDIATE SEGMENT f/CMS-3” SLIP N/A | N/A   |         | 11.00  |
| 14-101 | 5     | LEFT HAND SEGMENT f/CMSXL SLIP         | 5321  |         | 12.00  |
| 14-150 | 5     | LEFT HAND SEGMENT f/CMS-3” SLIP        | N/A   |         | 11.00  |
| 23-112 | 6     | SAFETY FLEX HANDLE                     | N/A   | 3       | 4.00   |
| 14-090 | N/P   | BUTTON RETAINER (COTTER PIN)           | N/A   |         | .05    |
| 14-091 | 7     | BUTTON RETAINER SCREW W/ HCLW          | N/A   |         |        |
|        | 8     | BUTTON INSERTS (SEE TABLES PAGE 29-30) | N/A   |         | VARIES |
| 14-104 | 9     | FRONT HANDLE                           | 3765  | 2       | 3.50   |
| 14-103 | 10    | REAR HANDLE                            | 3766  | 1       | 4.00   |
| 14-109 | N/P   | HINGE SPACER                           | 11944 |         | 4.00   |

\*RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION INCLUDING 1 SET OF INSERTS FOR EACH PIPE SIZE



# RMET 3 1/2" "TS-100" MANUAL TUBING SPIDER

The 3-1/2" TS-100 tubing spider and slip assembly can handle tubing sizes 3/4" thru 3-1/2" O.D. by changing 9 removable inserts. The spider and slip are made of alloy steel and heat treated for strength. All come with full certification and data books which are available upon request. This spider is rated for 100 ton capacity.



| PART NO. | ITEM# | DESCRIPTION               | REF.#      | *SPARES | #REQ. | WT.    |
|----------|-------|---------------------------|------------|---------|-------|--------|
| 17-301   | 1     | SLIP ASSY. LESS INSERTS   | 7502-104   |         | 1     | 50.00  |
| 17-101   | 2     | RIGHT HAND SEGMENT        | 7502-C-217 |         | 1     | 13.00  |
| 17-102   | 3     | CENTER SEGMENT            | 7502-B-217 |         | 1     | 13.00  |
| 17-103   | 4     | LEFT HAND SEGMENT         | 7502-A-217 |         | 1     | 13.00  |
| 17-104   | 5     | LATCH HANDLE              | 7502-A-214 |         | 1     | 3.00   |
| 17-105   | 6     | LATCH                     | 7502-A-207 |         | 1     | .50    |
| 17-108   | 7     | LATCH PIN W/COTTER        | 7502-B-207 |         | 1     | .12    |
| 17-109   | 8     | LATCH SPRING              | 7502-C-207 | 2       | 1     | .12    |
| 17-110   | 9     | HINGE PIN F/SLIP W/COTTER | 7502-A-216 | 2       | 2     | .25    |
| 17-111   | 10    | INSERT KEEPER W/COTTER    | 7502-B-216 |         | 3     | .12    |
| 17-302   | 11    | 3-1/2" TS-100 BOWL ONLY   | 7502-100   | 6       | 1     | 187.00 |
| 17-112   | 12    | HINGE PIN F/BOWL          | 7502-A-202 |         | 1     | 4.50   |
| 17-113   | 13    | LOCK PIN W/BAIL & CHAIN   | 7502-D-203 |         | 1     | 5.00   |
| 17-114   | 14    | HINGE PIN RETAINER        | 7502-103-X |         | 1     | .08    |

**\*\*RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION**

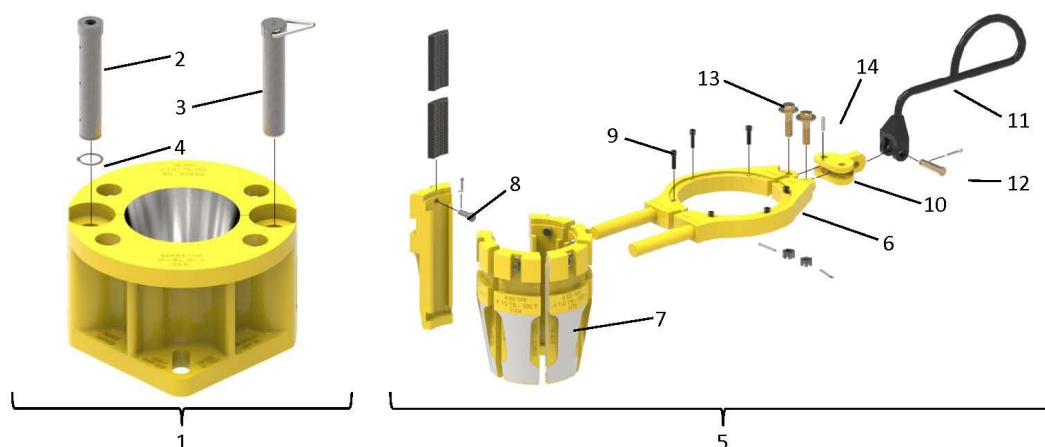
## INSERTS FOR 3 1/2" "TS-100" SPIDER

| PART NO. | DESCRIPTION       | REF#        | #REQ. | WT   |
|----------|-------------------|-------------|-------|------|
| 21-101   | 3 1/2" X 3 1/2"   | 7502-A-5069 | 9     | 1.25 |
| 21-110   | 3 1/2" X 3 3/8"   | N/A         | 9     | 1.25 |
| 21-102   | 3 1/2" X 3 1/8"   | N/A         | 9     | 1.30 |
| 21-103   | 3 1/2" X 2 7/8"   | 7502-A-5070 | 9     | 1.50 |
| 21-104   | 3 1/2" X 2 3/8"   | 7502-A-5071 | 9     | 1.75 |
| 21-105   | 3 1/2" X 2 -1/16" | 7502-A-5072 | 9     | 2.00 |
| 21-111   | 3 1/2" X 2"       | N/A         | 9     | 2.10 |
| 21-106   | 3 1/2" X 1-1/2"   | 7502-A-5074 | 9     | 2.25 |
| 21-107   | 3 1/2" X 1-1/4"   | 7502-A-5075 | 9     | 2.50 |
| 21-108   | 3 1/2" X 1"       | 7502-A-5076 | 9     | 2.75 |
| 21-109   | 3 1/2" X 3/4"     | 7502-A-5077 | 9     | 2.87 |



# RMET 4 1/2" & 5 1/2" "TS-100 MANUAL SPIDER

The RMET 4-1/2" spider and slip uses the 4-1/2" "DU" Full Face insert and has a range of 1.315" thru 4-1/2" O.D. by changing the 12 inserts. The 5-1/2" spider and slip uses the 5-1/2" "DU" Full Face slip insert and has a range of 2-3/8" thru 5-1/2" O.D. by changing the 12 inserts. The 5-1/2" spider is specifically designed to run the Reda or Kobe cable. Both spiders and slip assemblies are designed for heavy duty use. Both are made of alloy steel, heat treated for strength and wear resistance. Both 4 1/2" and 5 1/2" spiders have an API taper of 4"/ft on the diameter and rated for 100 Ton capacity.



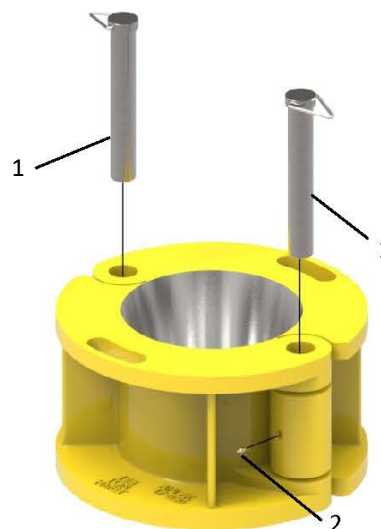
## REPLACEMENT PARTS FOR 4 1/2" & 5 1/2" "TS-100 MANUAL SPIDER

| PART NO.  | ITEM# | DESCRIPTION                                                                     | *SPARES | #REQ. | WT.    |
|-----------|-------|---------------------------------------------------------------------------------|---------|-------|--------|
| 18-451    | 1     | 4-1/2" BOWL ONLY                                                                |         | 1     | 215.00 |
| 17-112    | 2     | 3 1/2" & 4-1/2" TS-100 HINGE PIN                                                |         | 1     | 4.25   |
| 17-113    | 3     | 3 1/2" & 4-1/2" TS-100 REMOVEABLE PIN                                           |         | 1     | 4.25   |
| 17-114    | 4     | 3 1/2" & 4 1/2" HINGE PIN RETAINER                                              |         | 1     | .01    |
| 18-452    | 5     | 4-1/2" SLIP ASSY. COMPLETE LESS INSERTS                                         |         | 1     | 60.00  |
| 18-453    | 6     | 4-1/2" SLIP HANDLES ONLY (SET) <i>includes items 9, 10, 11, 12, 13 &amp; 14</i> |         | 1     | 19.50  |
| 18-454    | 7     | 4-1/2" SLIP SEGMENTS EACH                                                       |         | 6     | 6.70   |
| 18-455    | 8     | 4-1/2" & 5-1/2" INSERT RETAINER PIN                                             | 12      | 6     | .05    |
| 18-456    | 9     | 4-1/2" & 5-1/2" SEGMENT RETAINER PIN                                            | 6       | 6     | .03    |
| 18-453-B  | 10    | 4 1/2" & 5 1/2" SLIP HANDLE BUSHING                                             | 1       | 1     | 1.40   |
| 08-102    | 11    | HANDLE                                                                          | 1       | 1     | 2.75   |
| 08-103    | 12    | HANDLE PIN                                                                      | 1       | 1     | .12    |
| 18-453-BP | 13    | HANDLE BUSHING PIN W/ NUT, WASHER, & COTTER                                     | 2       | 2     | .22    |
| 18-453-D  | 14    | HANDLE BUSHING PIVOT PIN                                                        | 1       | 1     | .01    |
| 18-551    | 1     | 5-1/2" BOWL ONLY (image not shown)                                              |         | 1     | 239.00 |
| 18-557    | 2     | 5-1/2" TS-100 HINGE PIN                                                         |         | 1     | 6.00   |
| 18-558    | 3     | 5-1/2" TS-100 REMOVABLE PIN                                                     |         | 1     | 5.75   |
| 18-559    | 4     | 5-1/2" HINGE PIN RETAINER                                                       |         | 1     | .01    |
| 18-552    | 5     | 5-1/2" SLIP ASSY COMPLETE LESS INSERTS                                          |         | 1     | 65.50  |
| 18-553    | 6     | 5-1/2" SLIP HANDLES ONLY (SET) <i>includes items 9, 10, 11, 12, 13 &amp; 14</i> |         | 1     | 18.50  |
| 18-554    | 7     | 5 1/2" SLIP SEGMENTS EACH                                                       |         | 6     | 8.90   |

\* RECOMMENDED SPARE PARTS F/1 YEAR OPERATION  
INSERTS FOR 4-1/2" - 5-1/2" SPIDER ON [PAGE 79](#)

## RMET 8 5/8" "API" BOWL

The RMET API BOWL has the same bore and taper (4" per ft.) as the API #3 split bowl. All API drill collar, drill pipe & casing slips can be used in this bowl. It has a range of 2-1/16" thru 10" T.J. and is rated for 125 tons.



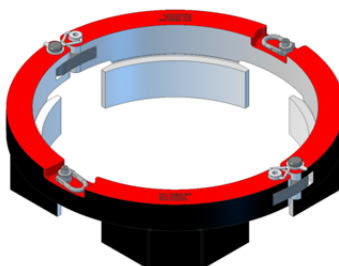
| PART NO.    | ITEM# | DESCRIPTION                 | #REQ. | WT. |
|-------------|-------|-----------------------------|-------|-----|
| 17-850      |       | 8-5/8" 125 TON API BOWL     | 1     | 500 |
| 17-851      | 1     | REMOVABLE HINGE PIN W/CHAIN | 2     | 10  |
| ZF-GZN-02-3 | 2     | GREASE FITTING              | 2     | .01 |

## RMET FALSE ROTARY



| PART NO.  | DESCRIPTION                                              | WT.  |
|-----------|----------------------------------------------------------|------|
| 51-500-GA | FALSE ROTARY TABLE FOR 18 5/8", 20", 24", AND 30" CASING | 2300 |

## RMET ADAPTER RING



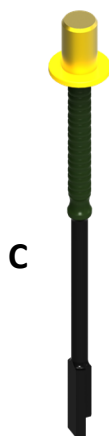
| PART NO. | DESCRIPTION                                                   | WT.  |
|----------|---------------------------------------------------------------|------|
| 52-100   | 37 1/2" OILWELL TO 37 1/2" NATIONAL ROTARY TABLE ADAPTER RING | 1118 |

## RMET SAFETY MAKE-UP STAND

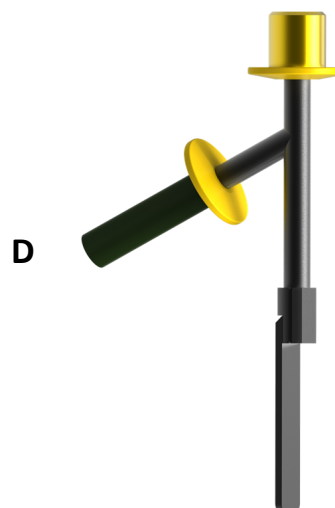
## KET & RMET TONG DIE DRIVERS

## Straight Tong Die Driver

## Hammerless Tong Die Driver



## Angled Tong Die Driver



# RMET TONG SAFETY HANDLES AND BUMPERS



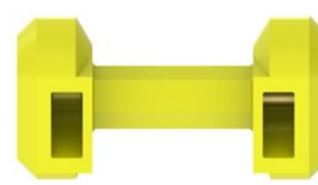
A



B



C

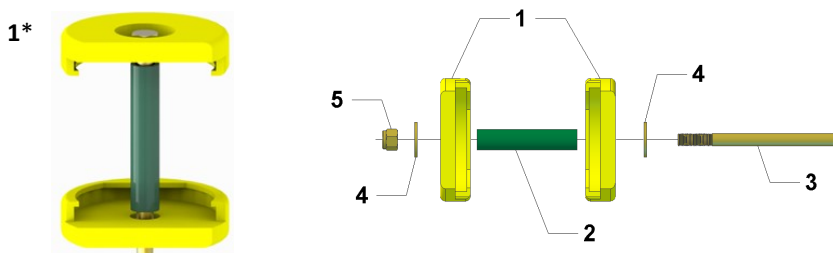


D

## TONG SAFETY HANDLES

| PART NO.   | ITEM | DESCRIPTION                                                                   | WT.  |
|------------|------|-------------------------------------------------------------------------------|------|
| 20000-SH-1 | A    | 2 PC TONG SAFETY HANDLE KIT F/ TONGS MODIFIED WITH 3/8" HOLES                 | 1.25 |
| 20000-SH-2 | A    | 2 PC TONG SAFETY HANDLE KIT F/ TONGS WITH STEEL HANDLES                       | 1.25 |
| 20000-SH-3 | B    | 2 PC TONG SAFETY HANDLE F/ TYPE "C" LONG JAW                                  | 1.10 |
| 20000-SH-4 | C    | 2 PC TONG SAFETY HANDLE F/ TONG MODIFIED W/ 1 3/4" WIDE HANDLES W/ 3/4" HOLES | 1.18 |
| 20000-DB   | D    | DUMBBELL TONG SAFETY HANDLE                                                   | 2.16 |

## SAFETY CAP ASSEMBLY FOR VARCO® TONGS



| PART NO. | ITEM | DESCRIPTION                         | QTY | WT.  |
|----------|------|-------------------------------------|-----|------|
| 250369   | 1*   | SAFETY CAP ASSEMBLY FOR VARCO TONGS | 1   | 2.66 |
| 250369-1 | 1    | SAFETY CAP (SET OF 2)               | 1   | 1.61 |
| 250369-2 | 2    | GRIP HOSE FOR SAFETY CAP ASSEMBLY   | 1   | .15  |
| 250369-3 | 3    | BOLT FOR SAFETY CAP ASSEMBLY        | 1   | .65  |
| 250369-4 | 4    | WASHER FOR SAFETY CAP ASSEMBLY      | 2   | .08  |
| 250369-5 | 5    | LOCKNUT FOR SAFETY CAP ASSEMBLY     | 1   | .09  |



## SAFETY BUMPERS

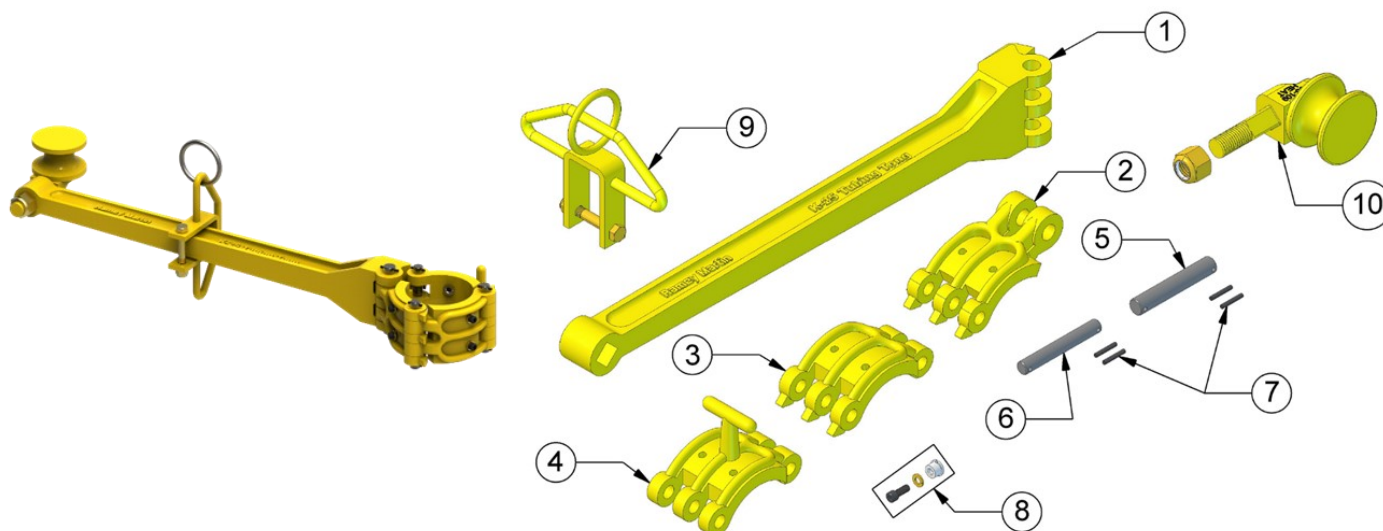
The RMET Safety Bumpers are used on the ST-80, Mud Buckets, and other miscellaneous rig equipment where hand protection is required. The two piece design allows for easy installation with the size molded into each rubber for easy recognition.

| PART NO.     | DESCRIPTION              | WT./SET |
|--------------|--------------------------|---------|
| 20000-SH-7-4 | 1/2" SAFETY BUMPER (SET) | 1.90    |
| 20000-SH-7-6 | 3/4" SAFETY BUMPER (SET) | 1.90    |
| 20000-SH-7-7 | 7/8" SAFETY BUMPER (SET) | 1.90    |
| 20000-SH-7-8 | 1" SAFETY BUMPER (SET)   | 1.90    |

## RMET “K-25” LIGHT WEIGHT TUBING TONG

The RMET K-25 Tubing Tong has a wide range from 1.050 thru 2 7/8”, and is light-weight with a wrap-around design providing approximately 300 deg. die contact. This prevents crushing or cutting of thin wall tubing. The tong can be used by hand or with a rope block and cat line, when making-up or breaking-out tubing. They are made of high alloy steel, heat-treated for strength and wear, and then tested. The RMET K-25 light-weight tubing tong has a 2,000 ft.-lb maximum torque rating. All tongs are pull-tested and complete documentation is available with each tong.

| PART NO. | DESCRIPTION                                        | WT.   |
|----------|----------------------------------------------------|-------|
| 05-101   | K-25 TONG COMPLETE LESS DIES, ROPE GUIDE & HANGER  | 16.50 |
| 05-102   | K-25 TONG COMPLETE LESS DIES w/ROPE GUIDE & HANGER | 21.00 |



### REPLACEMENT PARTS FOR K-20 & K-25 TUBING TONG

| PART NO. | ITEM# | DESCRIPTION                        | #REQ. | *SPARES | WT.  |
|----------|-------|------------------------------------|-------|---------|------|
| 05-114   | 1     | TONG LEVER F/ K25 TONG             | 1     |         | 9.75 |
| 05-106   | 2     | K-25 LEVER JAW                     | 1     |         | 2.12 |
| 05-108   | 3     | K-25 CENTER JAW                    | 1     |         | 2.12 |
| 05-107   | 4     | K-25 LATCH JAW                     | 1     |         | 2.75 |
| 05-104   | 5     | TONG LEVER PIN                     | 1     | 1       | .37  |
| 05-103   | 6     | TONG HEAD PIN                      | 3     | 3       | .12  |
| 05-117   | 7     | RETAINER PINS                      | 8     | 8       | .03  |
| 05-105   | 8     | TONG DIE BUSHING & SCREW           | 6     | 24      | .06  |
| 05-113   | 9     | ROLLOVER HANGER WITH SCREW AND NUT | 1     |         | 1.75 |
| 05-109   | 10    | K-20 OR K-25 ROPE GUIDE WITH NUT   | 1     |         | 2.75 |

DIES FOR K-20 AND K-25 REFER TO PAGE 91

\*RECOMMENDED SPARE PARTS FOR ONE YEAR

RECOMMENDED DIES FOR ONE YEAR ORDER 3 FOR EACH SIZE REQUIRED

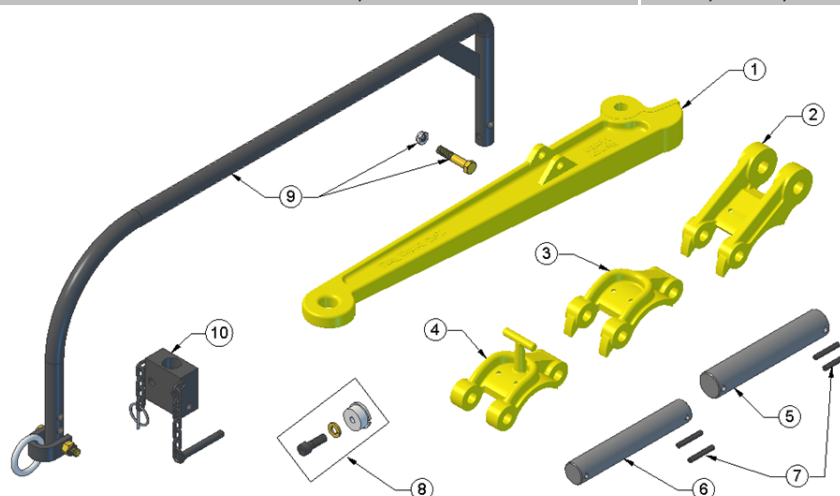
ALL PARTS ARE INTERCHANGEABLE WITH KELCO\*\* K-20 & K-25 TUBING TONGS

# RMET “K-30 & K-50 MANUAL TUBING TONG

RMET K-Series Tubing Tongs are designed for heavy duty service of tubing 1.660” to 3.875” OD. They have a wrap-around design with approximately a 300 deg. die contact. This prevents cutting or crushing of thin wall tubing. All tongs are pulled tested and complete documentation is available with each tong.



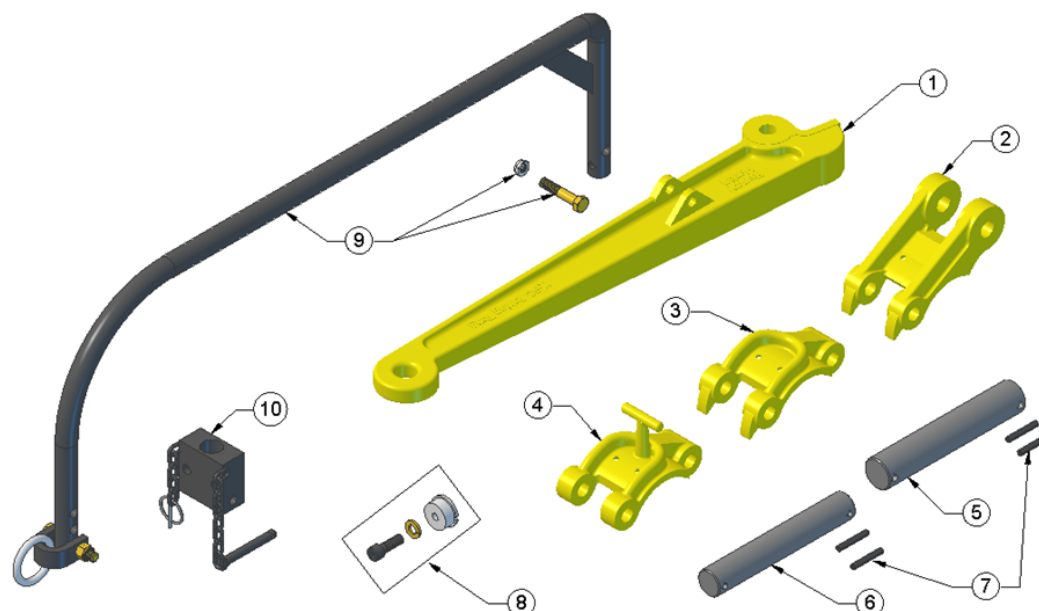
| PART NO. | DESCRIPTION                                              | RANGE         | RATING        | WT. |
|----------|----------------------------------------------------------|---------------|---------------|-----|
| A06-101  | K-30 TONG ASSEMBLY COMPLETE LESS HANGER AND DIES         | 1 1/2 – 4 1/8 | 5,000 FT. LBS | 48  |
| A06-102  | K-30 TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER | 1 1/2 – 4 1/8 | 5,000 FT. LBS | 61  |
| A06-103  | K-30 TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER | 1 1/2 – 4 1/8 | 5,000 FT. LBS | 64  |
| A06-501  | K-50 TONG ASSEMBLY COMPLETE LESS HANGER AND DIES         | 2 3/8 – 5 1/2 | 7,500 FT. LBS | 60  |
| A06-502  | K-50 TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER | 2 3/8 – 5 1/2 | 7,500 FT. LBS | 75  |
| A06-503  | K-50 TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER | 2 3/8 – 5 1/2 | 7,500 FT. LBS | 77  |



## REPLACEMENT PARTS FOR K-30 TUBING TONG

| PART NO# | ITEM# | DESCRIPTION                       | #REQ. | *SPARES | WT.   |
|----------|-------|-----------------------------------|-------|---------|-------|
| 06-104   | 1     | TONG LEVER                        | 1     |         | 24.00 |
| 06-105   | 2     | LEVER JAW                         | 1     |         | 8.00  |
| 06-106   | 3     | CENTER JAW                        | 1     |         | 5.50  |
| 06-107   | 4     | LATCH JAW                         | 1     |         | 5.75  |
| 06-509   | 5     | TONG LEVER PIN                    | 1     | 1       | .75   |
| 06-109   | 6     | TONG HEAD PIN                     | 3     | 3       | .50   |
| 06-157   | 7     | RETAINER PINS                     | 8     | 8       | .03   |
| 06-110   | 8     | TONG DIE BUSHING W/ SCREW         | 6     | 24      | .10   |
| 06-113   | 9     | TONG HANGER W/ HANGER SCREW & NUT | 1     |         | 13.00 |
| 06-114   | 10    | ROLLOVER BLOCK                    | 1     |         | 2.50  |

## RMET K-30 & K-50 TUBING TONG REPLACEMENT PARTS



### REPLACEMENT PARTS FOR K-50 TUBING TONG

| PART NO# | ITEM# | DESCRIPTION                       | #REQ. | *SPARES | WT.   |
|----------|-------|-----------------------------------|-------|---------|-------|
| 06-504   | 1     | TONG LEVER                        | 1     |         | 24.00 |
| 06-505   | 2     | LEVER JAW                         | 1     |         | 8.00  |
| 06-506   | 3     | CENTER JAW                        | 1     |         | 5.50  |
| 06-507   | 4     | LATCH JAW                         | 1     |         | 5.75  |
| 06-508   | 5     | TONG LEVER PIN                    | 1     | 1       | .75   |
| 06-509   | 6     | TONG HEAD PIN                     | 3     | 3       | .50   |
| 06-516   | 7     | RETAINER PINS                     | 8     | 8       | .03   |
| 06-510   | 8     | TONG DIE BUSHING W/ SCREW         | 6     | 24      | .10   |
| 06-113   | 9     | TONG HANGER W/ HANGER SCREW & NUT | 1     |         | 13.00 |
| 06-114   | 10    | ROLLOVER BLOCK                    | 1     |         | 2.50  |

### REPLACEMENT PARTS FOR K-50HT & K-70 TUBING TONG

| PART NO# | ITEM# | DESCRIPTION                       | #REQ. | *SPARES | WT.   |
|----------|-------|-----------------------------------|-------|---------|-------|
| 06-708   | 5     | TONG LEVER PIN                    | 1     | 1       | .75   |
| 06-508   | 6     | TONG HEAD PIN                     | 3     | 3       | .50   |
| 06-516   | 7     | RETAINER PINS                     | 8     | 8       | .03   |
| 06-510   | 8     | TONG DIE BUSHING W/ SCREW         | 6     | 24      | .10   |
| 06-113   | 9     | TONG HANGER W/ HANGER SCREW & NUT | 1     |         | 13.00 |
| 06-114   | 10    | ROLLOVER BLOCK                    | 1     |         | 2.50  |



## RMET DIES FOR TUBING TONG

| RMET#    | DESCRIPTION            | # SET | WT. (EA) |
|----------|------------------------|-------|----------|
| 04-119   | K-20 - 3/4" (1.050")   | 3     | 1.03     |
| 04-120   | K-20 - 1" (1.315")     | 3     | .95      |
| 04-121   | K-20 - 1-1/4" (1.660") | 3     | .80      |
| 04-122   | K-20 - 1-1/2" (1.900") | 3     | .67      |
| 04-125   | K-20 - 1 3/4"          | 3     | .75      |
| 04-123   | K-20 - 2-1/16"         | 3     | .57      |
| 04-124   | K-20 - 2-3/8"          | 3     | .35      |
| 05-119   | K-25 - 3/4" (1.050")   | 3     | 1.71     |
| 05-120   | K-25 - 1" (1.315")     | 3     | 1.63     |
| 05-121   | K-25 - 1-1/4" (1.660") | 3     | 1.47     |
| 05-135   | K-25 - 1.688"          | 3     | 1.45     |
| 05-137   | K-25 - 1.690"          | 3     | 1.45     |
| 05-122   | K-25 - 1-1/2" (1.900") | 3     | 1.33     |
| 05-123   | K-25 - 2-1/16"         | 3     | 1.22     |
| 05-133   | K-25 - 2 1/8"          | 3     | 1.18     |
| 05-134   | K-25 - 2.250"          | 3     | 1.08     |
| 05-124   | K-25 - 2-3/8"          | 3     | .98      |
| 05-125   | K-25 - 2-1/2"          | 3     | .87      |
| 05-141   | K-25 - 2 11/16"        | 3     | .71      |
| 05-126   | K-25 - 2.697"          | 3     | .70      |
| 05-127   | K-25 - 2.776"          | 3     | .62      |
| 05-128   | K-25 - 2 7/8"          | 3     | .52      |
| 06-133   | K-30 - 1-1/4" (1.660") | 3     | 4.04     |
| 06-139-1 | K-30 - 1 11/16"        | 3     | 4.00     |
| 06-134   | K-30 - 1-1/2" (1.900") | 3     | 3.85     |
| 06-138   | K-30 - 2"              | 3     | 3.77     |
| 06-119   | K-30 - 2-1/16"         | 3     | 3.72     |
| 06-144   | K-30 - 2 1/8"          | 3     | 3.65     |
| 06-145   | K-30 - 2 1/4"          | 3     | 3.53     |
| 06-120   | K-30 - 2-3/8"          | 3     | 3.40     |
| 06-147   | K-30 - 2 3/4"          | 3     | 2.95     |
| 06-121   | K-30 - 2-7/8"          | 3     | 2.78     |
| 06-135   | K-30 - 3"              | 3     | 2.60     |
| 06-122   | K-30 - 3-1/16"         | 3     | 2.51     |
| 06-123   | K-30 - 3-1/8"          | 3     | 2.42     |
| 06-124   | K-30 - 3-1/4"          | 3     | 2.22     |
| 06-141-1 | K-30 - 3.327"          | 3     | 2.10     |
| 06-130   | K-30 - 3-3/8"          | 3     | 2.02     |
| 06-125   | K-30 - 3-1/2"          | 3     | 1.80     |
| 06-141   | K-30 - 3 5/8"          | 3     | 1.58     |
| 06-126   | K-30 - 3.668"          | 3     | 1.50     |
| 06-132   | K-30 - 3.6875"         | 3     | 1.47     |
| 06-127   | K-30 - 3-3/4"          | 3     | 1.35     |
| 06-131   | K-30 - 3-7/8"          | 3     | 1.11     |
| 06-158   | K-30 - 3.915"          | 3     | 1.03     |
| 06-159   | K-30 - 3.930"          | 3     | 1.00     |
| 06-129   | K-30 - 4"              | 3     | .87      |
| 06-150   | K-30 - 4.035"          | 3     | .80      |
| 06-128   | K-30 - 4 1/8"          | 3     | .60      |

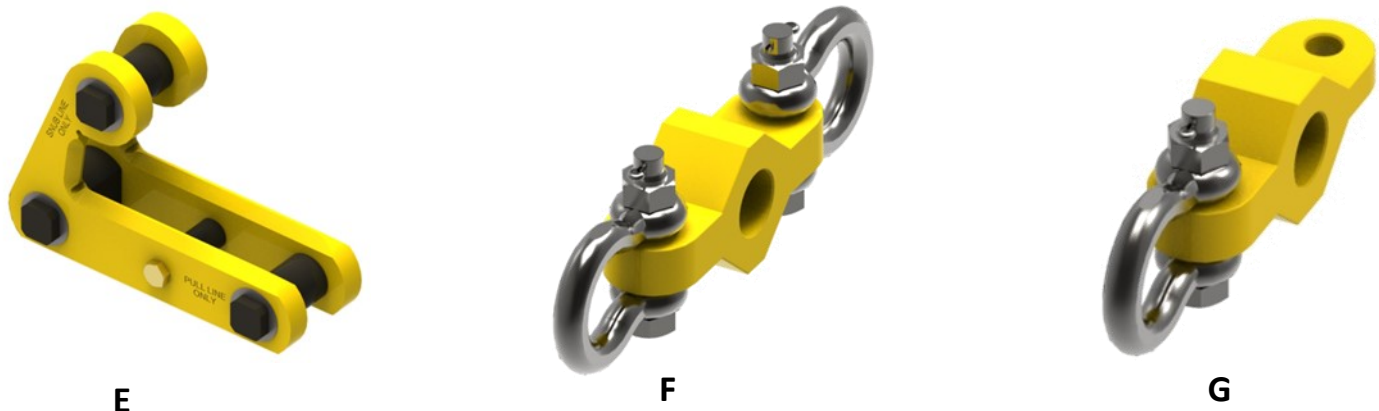
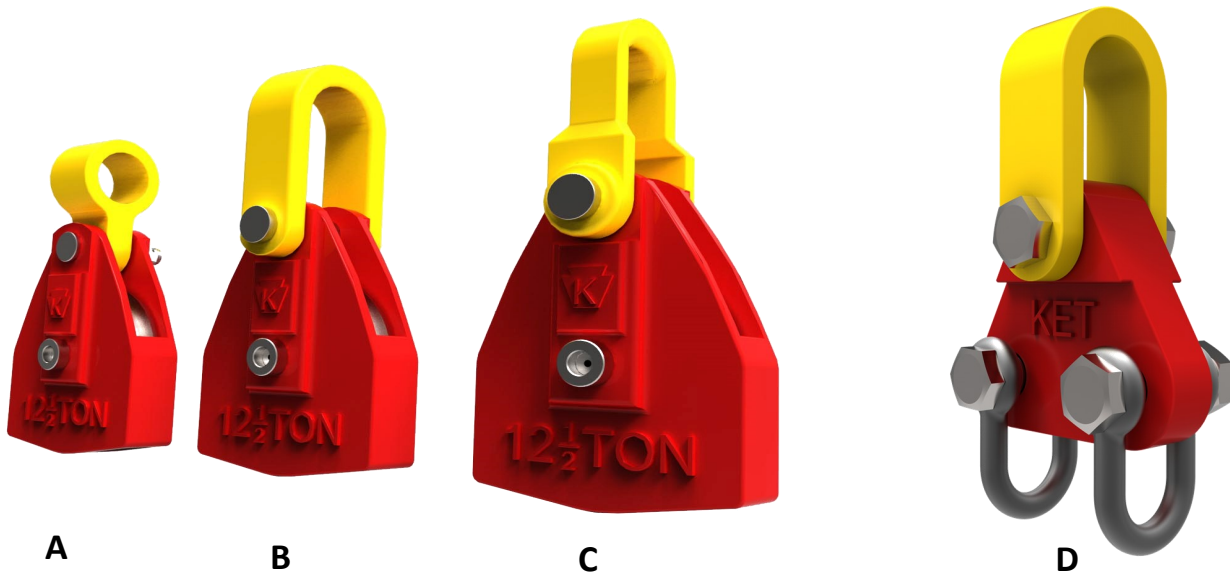


## RMET DIES FOR TUBING TONG

| RMET#  | DESCRIPTION             | # SET | WT.   |
|--------|-------------------------|-------|-------|
| 06-573 | K-50 & K-50 HT - 2 3/8" | 3     | 7.50  |
| 06-575 | K-50 & K-50 HT - 2-7/8" | 3     | 6.33  |
| 06-576 | K-50 & K-50 HT - 3-1/2" | 3     | 5.33  |
| 06-577 | K-50 & K-50 HT - 3-3/4" | 3     | 4.74  |
| 06-578 | K-50 & K-50 HT - 4"     | 3     | 4.15  |
| 06-579 | K-50 & K-50 HT - 4-1/8" | 3     | 4.05  |
| 06-585 | K-50 & K-50 HT - 4 1/4" | 3     | 3.78  |
| 06-580 | K-50 & K-50 HT - 4-1/2" | 3     | 3.50  |
| 06-588 | K-50 & K-50 HT - 4.668" | 3     | 3.15  |
| 06-581 | K-50 & K-50 HT - 4-3/4" | 3     | 2.92  |
| 06-582 | K-50 & K-50 HT - 5"     | 3     | 2.33  |
| 06-587 | K-50 & K-50 HT - 5 1/4" | 3     | 2.03  |
| 06-583 | K-50 & K-50 HT - 5 1/2" | 3     | 1.87  |
| 06-773 | K-70 - 2 7/8"           | 3     | 14.50 |
| 06-758 | K-70 - 3 1/2"           | 3     | 13.25 |
| 06-757 | K-70 - 4"               | 3     | 12.00 |
| 06-785 | K-70 - 4 1/8"           | 3     | 11.65 |
| 06-756 | K-70 - 4 1/2"           | 3     | 10.50 |
| 06-755 | K-70 - 4 3/4"           | 3     | 10.25 |
| 06-780 | K-70 - 4.797"           | 3     | 10.15 |
| 06-754 | K-70 - 5"               | 3     | 9.50  |
| 06-770 | K-70 - 5 1/4"           | 3     | 8.75  |
| 06-753 | K-70 - 5 1/2"           | 3     | 8.00  |
| 06-778 | K-70 - 5 5/8"           | 3     | 7.40  |
| 06-759 | K-70 - 5 3/4"           | 3     | 7.25  |
| 06-752 | K-70 - 6"               | 3     | 6.25  |
| 06-763 | K-70 - 6.050"           | 3     | 6.40  |
| 06-751 | K-70 - 6 5/8"           | 3     | 4.75  |
| 06-749 | K-70 - 6 7/8"           | 3     | 3.75  |
| 06-750 | K-70 - 7"               | 3     | 3.00  |

## KET & RMET TONG LINE BLOCKS

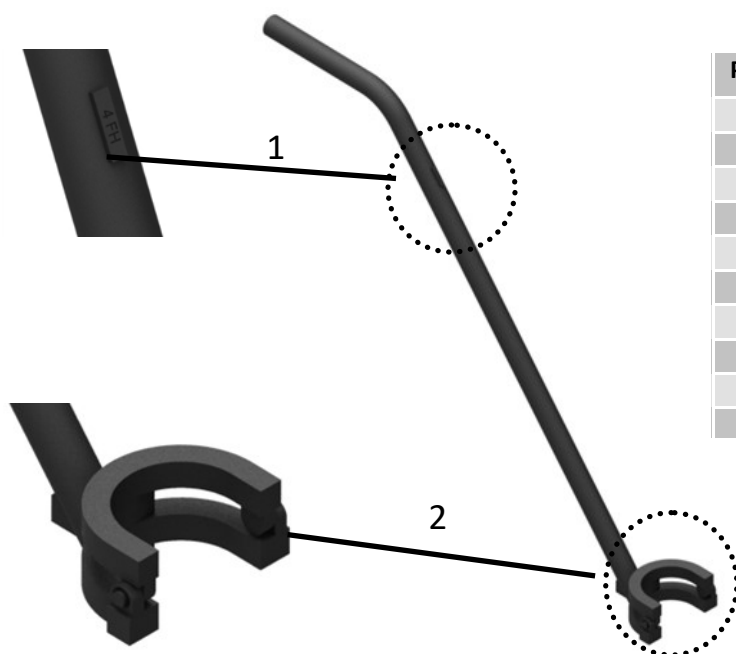
The KET and RMET 12.5-ton Tong Block is designed to fit the line attachment of the tong and to provide a mechanical advantage of 2:1 when making or breaking out connections. The sheave is grooved for 1/2" through 7/8" wire line and incorporates a sleeve-type grease-able bearing for longevity.



| PART NO.    |   | DESCRIPTION                                           | WT.   |
|-------------|---|-------------------------------------------------------|-------|
| 16500       | A | TONG BLOCK ASSEMBLY W/BJ B & C ADAPTER                | 20.00 |
| 16700       | B | TONG BLOCK ASSEMBLY W/BJ DB & SDD ADAPTER             | 25.50 |
| 16600       | C | TONG BLOCK ASSEMBLY W/WW AAX & ST-60 ADAPTER          | 23.00 |
| 70616       | D | TRIANGLE TONG BLOCK ASSEMBLY W/DB/SDD ADAPTER         | 27.00 |
| 24529-TLB   | E | TYPE DB/SDD TONG LINE BLOCK ASSEMBLY(HT-65/HT-100)    | 42.00 |
| 9574-TLB    | F | TYPE "B" TONG LINE BLOCK ASSEMBLY                     | 28.50 |
| 9574-TLB-01 | G | TYPE "B" TONG LINE BLOCK ASSEMBLY FOR USE WITH SHEAVE | 20.75 |

# KET & RMET PIPE JACKS AND ROLLERS

## PIPE JACKS

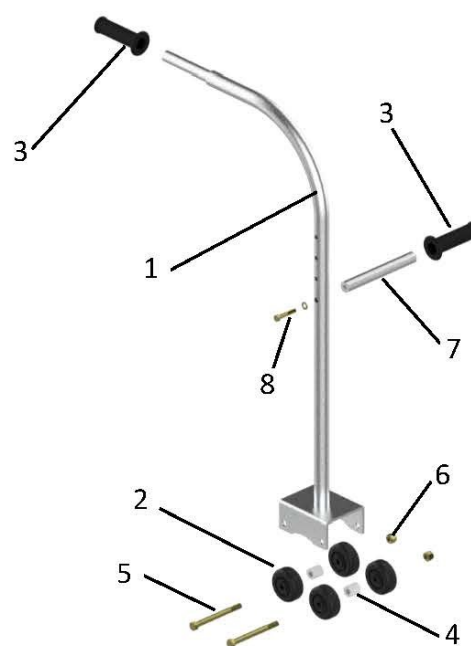


| PART NO.                             | DESCRIPTION                        | WT.   |
|--------------------------------------|------------------------------------|-------|
| 09-501                               | PIPE JACK FOR XT-39 CONNECTION     | 19.75 |
| 09-502                               | PIPE JACK FOR 4" FH CONNECTION     | 19.85 |
| 09-503                               | PIPE JACK FOR 4 1/2" IF CONNECTION | 20.65 |
| 09-504                               | PIPE JACK FOR 3 1/2" IF CONNECTION | 18.50 |
| 09-505                               | PIPE JACK FOR VX-39 CONNECTION     | 19.00 |
| 09-506                               | PIPE JACK FOR HT-38 CONNECTION     | 19.50 |
| 09-507                               | PIPE JACK FOR XTM-39 CONNECTION    | 20.00 |
| 09-508                               | PIPE JACK FOR XT-43 CONNECTION     | 19.70 |
| 09-509                               | PIPE JACK FOR 4 1/2" XH CONNECTION | 20.30 |
| SPECIAL SIZES AVAILABLE UPON REQUEST |                                    |       |

- 1) SIZE SPECIFICATION STAMP ON EACH PRODUCT
- 2) HEAVY DUTY HINGE DESIGN FOR STRONGER SUPPORT

## PIPE ROLLERS

| PART NO. | DESCRIPTION     | WT.  |
|----------|-----------------|------|
| 26-950   | KET PIPE ROLLER | 6.50 |



| PART NO. | ITEM | DESCRIPTION                       | #REQ | WT. |
|----------|------|-----------------------------------|------|-----|
| 26-950-1 | 1    | RMET PIPE ROLLER CARRIAGE         | 1    | 4.2 |
| 26-950-2 | 2    | RMET PIPE ROLLER WHEEL            | 4    | .23 |
| 26-950-3 | 3    | RMET PIPE ROLLER HAND GRIP        | 2    | .11 |
| 26-950-4 | 4    | RMET PIPE ROLLER SPACER           | 2    | .02 |
| 26-950-5 | 5    | RMET PIPE ROLLER WHEEL PIN        | 2    | .31 |
| 26-950-6 | 6    | RMET PIPE ROLLER WHEEL PIN NUT    | 2    | .04 |
| 26-950-7 | 7    | RMET PIPE ROLLER HANDLE           | 1    | .52 |
| 26-950-8 | 8    | RMET PIPE ROLLER HANDLE NUT W/ LW | 1    | .08 |

## ROLLERS & WIPERS FOR “27-HPD” & “HSD” KELLY BUSHINGS

| KELLY SIZE TYPE | ROLLER ASSY. | WT. | ROLLER ONLY | WT. | V ROLLER | FLAT ROLLER | WIPER  |
|-----------------|--------------|-----|-------------|-----|----------|-------------|--------|
| 3" HEX          | 32-667       | 615 | 32-839      | 420 | 32-339   | 32-338      | 32-107 |
| 3 1/2" HEX      | 32-668       | 585 | 32-041      | 390 | 32-341   | 32-340      | 32-108 |
| 4 1/4" HEX      | 32-669       | 535 | 33-243      | 340 | 32-343   | 32-342      | 32-109 |
| 5" SPEC HEX     | 32-671       | 485 | 32-788      | 295 | 32-388   | 32-387      | 32-110 |
| 5 1/4" HEX      | 32-672       | 475 | 32-445      | 290 | 32-345   | 32-329      | 32-111 |
| 6" HEX          | 32-673       | 415 | 32-647      | 220 | 32-347   | 32-330      | 32-112 |
| 3" SQUARE       | 32-674       | 590 | 32-314      | 400 |          | 32-331      | 32-100 |
| 3 1/2" SQUARE   | 32-661       | 565 | 33-324      | 370 |          | 32-332      | 32-101 |
| 4 1/4" SQUARE   | 32-662       | 515 | 32-334      | 320 |          | 32-333      | 32-102 |
| 5 1/4" SQUARE   | 32-665       | 435 | 32-344      | 245 |          | 32-335      | 32-103 |
| 6" SQUARE       | 32-666       | 375 | 32-354      | 180 |          | 32-336      | 32-104 |

RECOMMENDED SPARES INCLUDE ONE SET OF ROLLERS FOR EACH SIZE TO BE RUN AND TWO WIPER RUBBERS FOR EACH SIZE OF KELLY TO BE RUN

## REPLACEMENT PARTS FOR “27-HPD” & “HSD” KELLY BUSHINGS

| 27-HPD<br>PART # | DESCRIPTION                           | QTY | REF.#      | WT.   | HSD<br>PART # | REF.#     | WT.   |
|------------------|---------------------------------------|-----|------------|-------|---------------|-----------|-------|
| 32-653           | BODY ASSY. COMPLETE LESS ROLLER ASSY. | 1   | 3653       | 990   | 32-637        | 3637      | 900   |
| 32-501           | HOLDDOWN BOLT w/ LOCKSCREW & WASHER   | 4   | 13501      | 7.00  | 32-501        | 13501     | 7.00  |
| 32-500           | HOLDDOWN BOLT LOCKSCREW               | 4   | 50110-8-S  | .23   | 32-500        | 50110-8-S | .23   |
| 32-510           | HOLDDOWN BOLT LOCKWASHER              | 4   | 511110     | .08   | 32-510        | 511110    | .08   |
| 32-208           | HOLDDOWN NUT                          | 4   | 1208       | 1.75  | 32-208        | 1208      | 1.75  |
| 32-924           | LOCKWASHER                            | 4   | 50924      | .25   | 32-924        | 50924     | .25   |
| 32-605           | DRIVE PIN                             | 4   | 1605       | 10.00 | N/A           |           | 13.10 |
| 32-506           | DRIVE PIN WASHER                      | 4   | 1506       | 1.00  | N/A           |           | .58   |
| 32-210           | WRENCH                                | 1   | 1210       | 8.00  | 32-210        | 1210      | 8.00  |
| 32-321           | WIPER RETAINER RING                   | 1   | 1321       | 3.50  | SAME          |           | 3.75  |
| 32-008           | SCREWS FOR RING                       | 8   | 50008-10-S | .16   | SAME          |           | .093  |
| 32-695           | LOCK ASSY. (CONSISTS OF)              |     | 3695       |       | *SPARES       |           |       |
| 32-017           | RETAINING RING                        | 2   | 1017       |       |               |           |       |
| 32-506           | DRIVE PIN WASHER                      | 2   | 1506       |       |               |           | .584  |
| 32-696           | ECCEN. PIN, HPD LOCK                  | 2   | 3696       |       | 2             |           |       |
| 32-697           | DRIVE PIN, HPD LOCK                   | 2   | 3697       |       |               |           |       |
| 32-698           | LOCK, HPD                             | 2   | 3698       |       | 2             |           |       |

\*RECOMMENDED SPARES FOR 1 YEAR OPERATION

## ROLLER ASSEMBLY PARTS, FOR “27-HPD” & “HSD” KELLY BUSHINGS

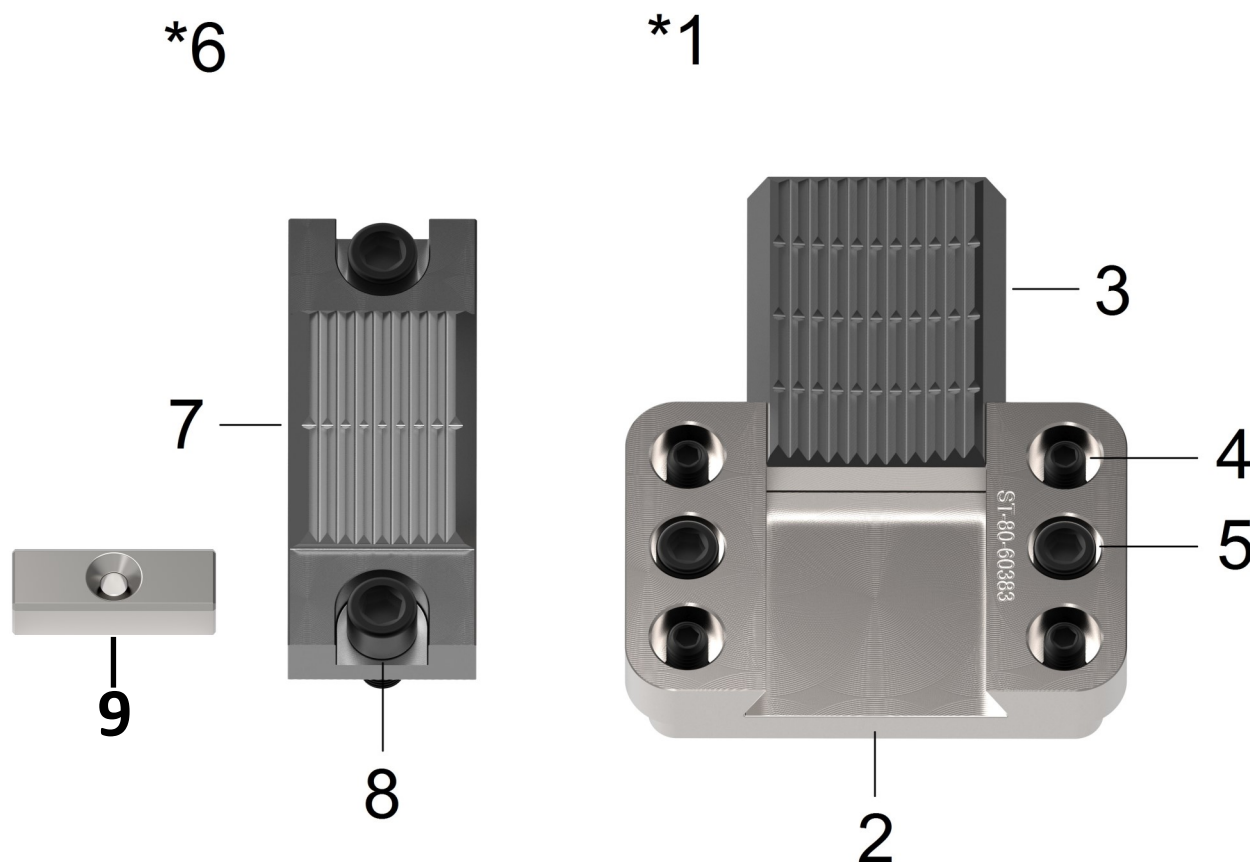
| RMET#  | DESCRIPTION                   | REF.#       | QTY. | *SPARES | WT.   |
|--------|-------------------------------|-------------|------|---------|-------|
| 32-312 | ROLLER BEARING                | 1312        | 4    | 4       | 7.00  |
| 32-326 | SLEEVE BEARING                | 1326        | 4    | 4       | 2.00  |
| 32-609 | ROLLER PIN W/LUBE FITTING     | 3609        | 4    | 4       | 31.50 |
| 32-618 | THRUST WASHER W/O-RINGS       | 3618        | 8    | 8       | 5.00  |
| 32-613 | DRIVE LOCK PIN F/THRUSTWASHER | 3613        | 8    |         | .25   |
| 32-615 | TEMPLATE                      | 3615        | 1    |         | .50   |
| 32-138 | LOCK PIN F/THRUSTWASHER       | 19138       | 8    |         | .20   |
| 32-233 | ID, O-RING THRUSTWASHER       | 51300-233-B | 16   | 16      | .50   |
| 32-255 | OD, O-RING THRUSTWASHER       | 51300-255-B | 16   | 16      | 1.50  |

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## ST-80 IRONROUGHNECK DIES & DIE HOLDER



| PART NO.      | ITEM | DESCRIPTION                                      | REF#         | WT.  |
|---------------|------|--------------------------------------------------|--------------|------|
| ST-80-LD-ASSY | *1   | ST-80 DIE HOLDER ASSEMBLY WITH BOLTS             | 30172029     | 7.16 |
| ST-80-HOL     | 2    | ST-80 LOWER DIE HOLDER ONLY                      | 30160383     | 7.16 |
| ST-80-LD SET  | 3    | ST-80 LOWER DIE EACH (NOTE :IT TAKES 2 PER SET)  | 30160382     | 2.19 |
| ST-80-LD CSH  | 4    | ST-80 LOWER DIE HOLDER CORNER SOCKET HEAD SCREW  | 50708-12-OC  | .055 |
| ST-80-LD MSH  | 5    | ST-80 LOWER DIE HOLDER MIDDLE SOCKET HEAD SCREW  | 50108-14-C   | .120 |
| ST-80-UD-SET  | *6   | ST-80 UPPER DIE KIT W/ 2 DIES, BOTLS & SOCKETS   | 3017422      | 6.02 |
| ST-80-UD      | 7    | ST-80 UPPER DIE EACH (NOTE : IT TAKES 2 PER SET) | 30160380-500 | 2.96 |
| ST-U-B        | 8    | ST-80 UPPER DIE BOLT ONLY                        | 55109-8-C    | .87  |
| ST-80-1       | 9    | ST-80 UPPER DIE KEY                              | 30160379     | 0.27 |
| 81788         |      | IRON ROUGHNECK DIE                               |              |      |
| AC01-01-03    |      | MODEL 3080 IRON ROUGHNECK DIE                    |              | 2.25 |

# RMET LIFTING THREAD PROTECTORS



**Pin**



**Box**

| OD RANGE      | CONNECTION SIZE & TYPE | PIN PART# | UNIT WT (LBS) | BOX PART # | UNIT WT (LBS) | WT/SET (LBS) |
|---------------|------------------------|-----------|---------------|------------|---------------|--------------|
| 3 1/8 – 3 1/2 | NC 23                  | 09-101    | 6             | 09-201     | 6             | 12           |
|               | 2 3/8 REG.             | 09-102    | 6             | 09-202     | 6             | 12           |
|               | NC 26                  | 09-103    | 6             | 09-203     | 6             | 12           |
|               | 2 3/8 IF               | 09-104    | 6             | 09-204     | 6             | 12           |
| 4 – 4 3/8     | 2 7/8 PAC              | 09-105    | 6             | 09-205     | 6             | 12           |
|               | 2 7/8 IF               | 09-106    | 9             | 09-206     | 8             | 17           |
|               | 2 7/8 XH               | 09-107    | 9             | 09-207     | 8             | 17           |
|               | N.C 31                 | 09-108    | 9             | 09-208     | 8             | 17           |
| 4 1/2 – 5 1/8 | 3 1/2 REG              | 09-109    | 9             | 09-209     | 8             | 17           |
|               | N.C 35                 | 09-110    | 12            | 09-210     | 10            | 22           |
|               | 3 1/2 XH               | 09-111    | 12            | 09-211     | 10            | 22           |
|               | N.C 38                 | 09-112    | 12            | 09-212     | 10            | 22           |
| 5 – 5 3/4     | 3 1/2 IF               | 09-113    | 12            | 09-213     | 10            | 22           |
|               | N.C 40                 | 09-114    | 15            | 09-214     | 14            | 29           |
|               | 4 FH                   | 09-115    | 15            | 09-215     | 14            | 29           |
|               | 4 1/2 REG              | 09-116    | 21            | 09-216     | 19            | 40           |
| 5 3/4 – 6 1/4 | 4 1/2 FH               | 09-117    | 21            | 09-217     | 19            | 40           |
|               | 4 IF                   | 09-118    | 20            | 09-218     | 18            | 38           |
|               | 4 1/2" XH              | 09-119    | 20            | 09-219     | 18            | 38           |
|               | 4 1/2 PH6              | 09-120    | 21            | 09-220     | 19            | 40           |
| 6 1/4 – 6 3/4 | N.C 46                 | 09-121    | 20            | 09-221     | 18            | 38           |
|               | 4 1/2 H-90             | 09-122    | 20            | 09-222     | 18            | 38           |
|               | 5 1/2 REG              | 09-123    | 23            | 09-223     | 20            | 43           |
|               | 5 1/2 H-90             | 09-124    | 23            | 09-224     | 20            | 43           |
| 6 3/4 – 7 1/2 | N.C 50                 | 09-125    | 23            | 09-225     | 20            | 43           |
|               | 4 1/2 IF               | 09-126    | 23            | 09-226     | 20            | 43           |
|               | 5 1/2 FH               | 09-127    | 33            | 09-227     | 30            | 63           |
|               | 6 5/8 REG              | 09-128    | 33            | 09-228     | 30            | 63           |
| 7 1/4 – 8 1/4 | 6 5/8 H-90             | 09-129    | 33            | 09-229     | 30            | 63           |
|               | N.C 61                 | 09-130    | 32            | 09-230     | 32            | 64           |
|               | 7 5/8 REG              | 09-131    | 66            | 09-231     | 62            | 128          |
|               | XT-39                  | 09-132    | 12            | 09-232     | 10            | 22           |
| 8 1/4 - 9     | 8 5/8 REG              | 09-133    | 77            | 09-233     | 73            | 150          |
|               | HT-38                  | 09-134    | 12            | 09-234     | 10            | 22           |

NOTE: NOT ALL SIZES AND TYPES LISTED ABOVE. OTHER SIZES AND TYPES AVAILABLE UPON REQUEST.

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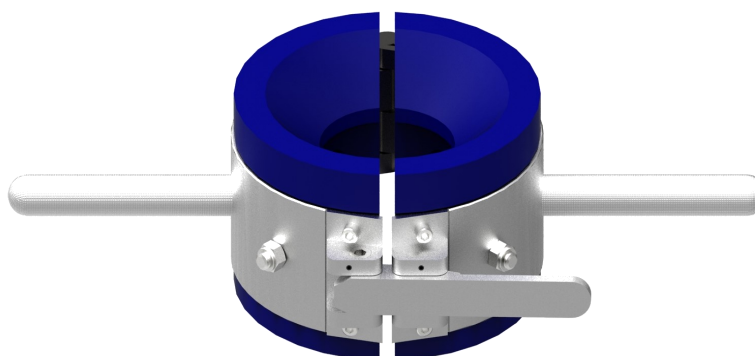
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# RMET HEAVY DUTY STABBING GUIDES

RMET Heavy-Duty Stabbing Guides help to reduce damages to connections while making up connections.

Features include

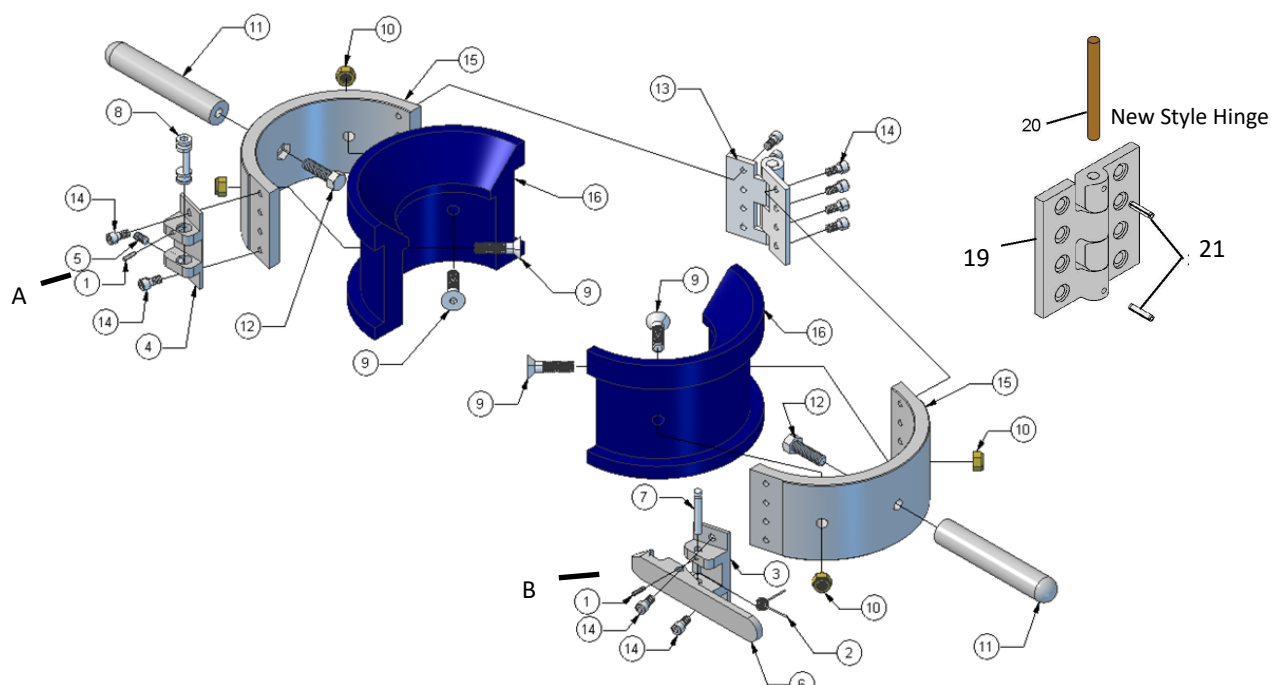
- ▶ Polyurethane Inserts
- ▶ Light weight Aluminum construction
- ▶ Corrosion Resistant Hardware
- ▶ Adjustable Latch Cam
- ▶ Range = 1" thru 8 1/2" Tool joint OD



## STABBING GUIDES

| PART NO. | INSERT ONLY/SET | DESCRIPTION             | WEIGHT (LBS.) INSERT SET | WIEIGHT(LBS) ASSEMBLY |
|----------|-----------------|-------------------------|--------------------------|-----------------------|
| 02-502   | A02-521         | 1" CS                   | 1.36                     | 4.60                  |
| 02-503   | A02-522         | 1-1/4" CS               | 1.22                     | 4.45                  |
| 02-504   | A02-523         | 1-1/2" CS               | 1.15                     | 4.40                  |
| 02-505   | A02-524         | 2-1/16" CS              | .93                      | 4.15                  |
| 02-506   | A02-525         | 2 3/8" CS 4.70#         | 4.20                     | 8.45                  |
| 02-507   | A02-526         | 2 3/8" PH-6 5.95#       | 4.10                     | 8.35                  |
| 02-508   | A02-527         | 2 7/8" CS               | 3.75                     | 7.95                  |
| 02-509   | A02-528         | 2 7/8" PH-6 7.90#       | 3.60                     | 7.80                  |
| 02-510   | A02-529         | 2 7/8" PH-6 8.70#       | 3.55                     | 7.80                  |
| 02-512   | A02-531         | 2 7/8" 8RD 6.5#         | 3.45                     | 7.70                  |
| 02-514   | A02-533         | 3 1/2" CS 9.3# - 10.3#  | 3.06                     | 7.30                  |
| 02-515   | A02-534         | 3 1/2" PH-6 12.95#      | 2.70                     | 6.95                  |
| 02-517   | A02-536         | 3 1/2" IF F/ 4 3/4" TJ  | 2.18                     | 6.45                  |
| 02-517-2 | A02-536-2       | 3 1/2" IF f/ 4 7/8" TJ  | 2.06                     | 6.30                  |
| 02-517-1 | A02-536-1       | 4" Full Hole            | 1.60                     | 5.85                  |
| 02-5306  | A02-5356        | XT-39 f/ 4 7/8" TJ      | 2.06                     | 6.30                  |
| 02-5308  | A02-5358        | XT-39 f/ 4 15/16 TJ     | 2.03                     | 6.25                  |
| 02-5309  | A02-5359        | XT-43 f/ 5 3/8" TJ      | 13.10                    | 19.90                 |
| 02-519   | A02-538         | 4 1/2" PH-6 15.50#      | 1.70                     | 5.95                  |
| 02-517-4 | A02-536-1       | 4-1/2" FH F/5-1/4" TJ   | 10.00                    | 18.00                 |
| 02-543   | A02-539         | 4 1/2" XH               | 11.45                    | 18.25                 |
| 02-5310  | A02-5360        | DRILL PIPE f/ 6 1/2" TJ | 10.70                    | 17.50                 |
| 02-5311  | A02-5361        | DRILL PIPE f/ 7" TJ     | 9.30                     | 16.10                 |
| 02-5312  | A02-5362        | DRILL PIPE f/ 7 1/4" TJ | 8.80                     | 15.60                 |
| 02-5313  | A02-5363        | DRILL PIPE f/ 8 1/4" TJ | 5.95                     | 12.75                 |
| 02-5314  | A02-5364        | DRILL PIPE f/ 8 1/2" TJ | 5.45                     | 12.25                 |
| 02-547   | A02-540         | 4 1/2" IF 6 5/8" TJ     | 10.55                    | 17.35                 |
| 02-545   | A02-541         | 5" PH-6 20.3#           | 11.70                    | 18.50                 |
| 02-546   | A02-542         | 5 1/2" PH-6 23#         | 10.80                    | 17.60                 |

# RMET HEAVY DUTY STABBING GUIDE PARTS



## REPLACEMENT PARTS FOR HEAVY DUTY STABBING GUIDES

| PART NO.  | ITEM # | DESCRIPTION                   | QTY | WIEGHT(LBS) |
|-----------|--------|-------------------------------|-----|-------------|
| 02-550    | 1      | RETAINER PIN                  | 2   | .01         |
| 02-551    | 2      | SPRING                        | 1   | .01         |
| 02-552    | 3      | HINGE BLOCK                   | 1   | .10         |
| 02-552-1  | A      | HINGE BLOCK ASSEMBLY COMPLETE | 1   | .32         |
| 02-553    | 4      | CATCH BLOCK                   | 1   | .10         |
| 02-553-1  | B      | CATCH BLOCK ASSEMBLY COMPLETE | 1   | .17         |
| 02-553-S  | 5      | SET SCREW                     | 1   | .01         |
| 02-554    | 6      | LATCH                         | 1   | .15         |
| 02-555    | 7      | LATCH PIN                     | 1   | .02         |
| 02-556    | 8      | LATCH CAM                     | 1   | .05         |
| 02-557-10 | 9      | 1-1/4" SCREW                  | 4   | .04         |
| 02-557-12 | 9      | 1-1/2" SCREW                  | 4   | .05         |
| 02-557-14 | 9      | 1-3/4" SCREW                  | 4   | .05         |
| 02-557-16 | 9      | 2" SCREW                      | 4   | .06         |
| 02-557-18 | 9      | 2-1/4" SCREW                  | 4   | .06         |
| 02-557-20 | 9      | 2-1/2" SCREW                  | 4   | .07         |
| 02-557-22 | 9      | 2-3/4" SCREW                  | 4   | .07         |
| 02-557-24 | 9      | 3" SCREW                      | 4   | .08         |
| 02-557-N  | 10     | NUT                           | 4   | .02         |
| 02-558    | 11     | HANDLE                        | 2   | .27         |
| 02-558-S  | 12     | HANDLE SCREW                  | 2   | .05         |
| 02-559    | 13     | HINGE                         | 1   | .40         |
| 02-559-H  | 19     | HINGE HALF                    | 2   | .11         |
| 02-559-P  | 20     | HINGE PIN                     | 1   | .04         |
| 02-559-S  | 14     | HARDWARE SCREW                | 12  | .01         |
| 02-550-1  | 21     | HINGE PIN RETAINER            | 2   | .01         |
| 02-560    | 15     | 4" RING                       | 2   | .83         |
| 02-561    | 15     | 6" RING                       | 2   | 1.34        |
| 02-562    | 15     | 9-1/2" RING                   | 2   | 2.00        |



# RMET STANDARD RUBBER STABBING GUIDES

RMET Standard Rubber Stabbing Guides help to reduce damages to connections while making up connections.

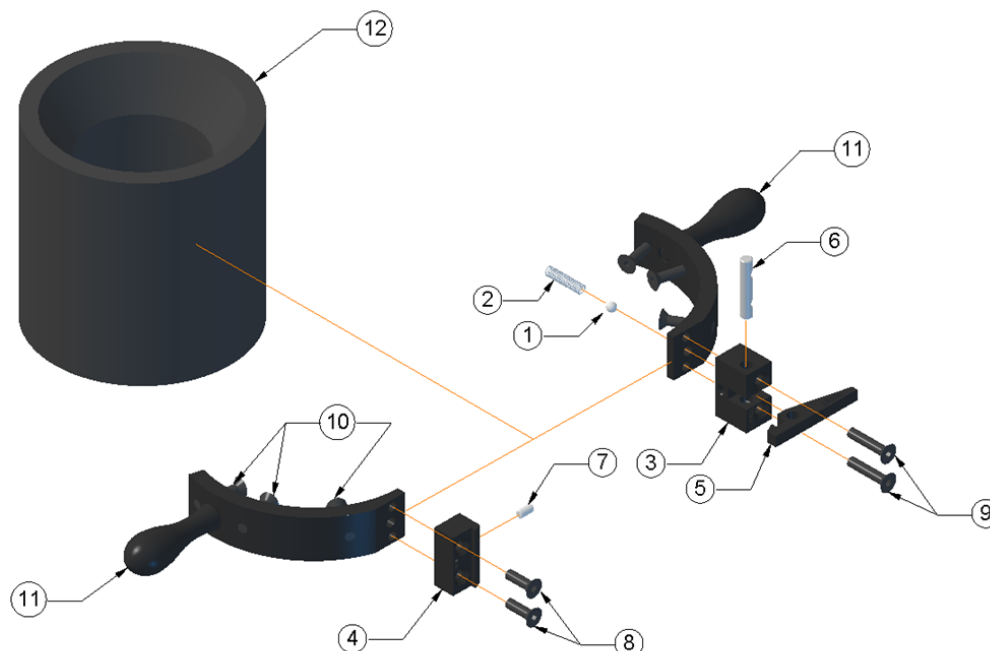
- Range = 3/4" thru 6-5/8" Tool joint OD



## STABBING GUIDES

| P/N COMPLETE | P/N RUBBER ONLY | DESCRIPTION                                    | WT.   |
|--------------|-----------------|------------------------------------------------|-------|
| 02-101       | A02-120         | 3/4" CS® STABBING GUIDE                        | 5.00  |
| 02-102       | A02-121         | 1" CS® STABBING GUIDE                          | 4.50  |
| 02-103       | A02-122         | 1 1/4" CS® STABBING GUIDE                      | 5.50  |
| 02-104       | A02-123         | 1 1/2" CS® STABBING GUIDE                      | 5.50  |
| 02-105       | A02-124         | 2 1/16" CS® STABBING GUIDE                     | 6.50  |
| 02-106       | A02-125         | 2 3/8" CS® STABBING GUIDE                      | 6.00  |
| 02-107       | A02-126         | 2 3/8" PH-6™ STABBING GUIDE                    | 6.00  |
| 02-108       | A02-127         | 2 7/8" CS® STABBING GUIDE                      | 7.00  |
| 02-109       | A02-128         | 2 7/8" PH-6™ 7.90# STABBING GUIDE              | 6.50  |
| 02-110       | A02-129         | 2 7/8" PH-6™ 8.70# STABBING GUIDE (SMALL BODY) | 6.50  |
| 02-111       | A02-130         | 2 7/8" PH-6™ 8.70# STABBING GUIDE (LARGE BODY) | 11.00 |
| 02-112       | A02-131         | 2 7/8" 8RD 6.50# STABBING GUIDE (SMALL BODY)   | 6.50  |
| 02-113       | A02-132         | 2 7/8" 8RD 6.50# STABBING GUIDE (LARGE BODY)   | 10.50 |
| 02-114       | A02-133         | 3 1/2" CS® 9.30# - 10.30# STABBING GUIDE       | 10.00 |
| 02-115       | A02-134         | 3 1/2" PH-6™ 12.95# STABBING GUIDE             | 9.50  |
| 02-117       | A02-136         | 3 1/2" IF STABBING GUIDE FOR 4 3/4" T.J.       | 12.00 |
| 02-117-3     | A02-357         | 3 1/2" IF STABBING GUIDE FOR 4 7/8" T.J.       | 12.00 |
| 02-117-1     | A02-136-1       | 4" F.H. STABBING GUIDE FOR 5 1/4" T.J.         | 12.00 |
| 02-306       | A02-356         | XT-39 STABBING GUIDE FOR 4 7/8" T.J.           | 12.00 |
| 02-308       | A02-358         | XT-39 STABBING GUIDE FOR 4 15/16" T.J.         | 12.00 |
| 02-309       | A02-359         | XT-43 STABBING GUIDE FOR 5 3/8" T.J.           | 11.50 |
| 02-119       | A02-138         | 4 1/2" PH-6™ 15.50# STABBING GUIDE             | 11.50 |
| 02-143       | A02-139         | 4 1/2" XH STABBING GUIDE FOR 6 1/4" T.J.       | 14.50 |
| 02-144       | A02-148         | 4 1/2" IF STABBING GUIDE FOR 6 3/8" T.J.       | 14.25 |
| 02-145       | A02-141         | 5" PH-6™ 20.30# STABBING GUIDE                 | 13.00 |
| 02-146       | A02-142         | 5 1/2" PH-6™ 23.00# STABBING GUIDE             | 13.00 |
| 02-147       | A02-140         | 4 1/2" IF STABBING GUIDE FOR 6 5/8" T.J.       | 14.00 |

## RMET STANDARD RUBBER STABBING GUIDE PARTS



### REPLACEMENT PARTS FOR STANDARD RUBBER STABBING GUIDES

| PART NO.  | ITEM | DESCRIPTION                      | QTY | WT.  |
|-----------|------|----------------------------------|-----|------|
| 02-150    | 1    | BEARING                          | 1   | .05  |
| 02-151    | 2    | SPRING                           | 1   | .10  |
| 02-152    | 3    | HINGE                            | 1   | .5   |
| 02-153    | 4    | CATCH                            | 1   | .45  |
| 02-154    | 5    | LATCH                            | 1   | .12  |
| 02-155    | 6    | HINGE PIN                        | 1   | .13  |
| 02-156    | 7    | GUIDE PIN                        | 1   | .05  |
| 02-157-9  | 8    | CATCH SCREW                      | 2   | .09  |
| 02-157-13 | 9    | HINGE SCREW                      | 2   | .11  |
| 02-157-10 | 10   | 1 1/4" CAP SCREW                 | 4+  | .13  |
| 02-157-12 | 10   | 1 1/2" CAP SCREW                 | 4+  | .15  |
| 02-157-14 | 10   | 1 3/4" CAP SCREW                 | 4+  | .55  |
| 02-175    | 11   | 3" RING ONLY                     | 2   | .75  |
| 02-176    | 11   | 3 3/4" RING ONLY                 | 2   | .85  |
| 02-177    | 11   | 4 7/16" RING ONLY                | 2   | .95  |
| 02-178    | 11   | 5" RING ONLY                     | 2   | 1.10 |
| 02-179    | 11   | 6 1/8" RING ONLY                 | 2   | 1.25 |
| 02-181    | 11   | 7" RING ONLY                     | 2   | 1.35 |
| 02-182    | 11   | 8" RING ONLY                     | 2   | 1.45 |
| 02-183    | 11   | 9" RING ONLY                     | 2   | 1.60 |
| N/A       | 12   | RUBBER ONLY ( SEE TABLE, PAGE 5) | 1   | N/A  |

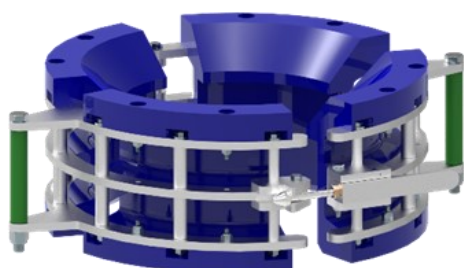
# RMET HEAVY DUTY CASING STABBING GUIDES

RMET Heavy-Duty Stabbing Guides help to reduce damages to connections while making up connections.

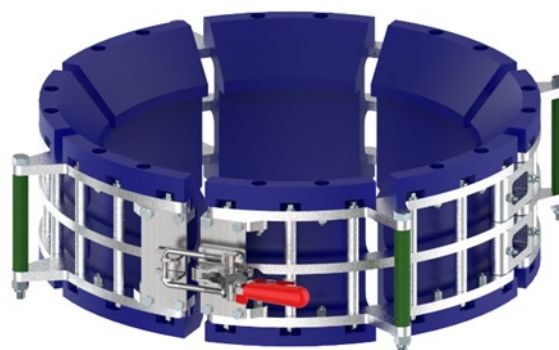
Features include

- ▶ Polyurethane Inserts
- ▶ Light weight Aluminum construction
- ▶ Corrosion Resistant Hardware
- ▶ Zinc Plated Steel hardware
- ▶ SS Latch (400 & 500 frames only)

Multiple size polyurethane inserts to fit your application.



100, 200, & 300 FRAME (SINGLE HINGE DESIGN)

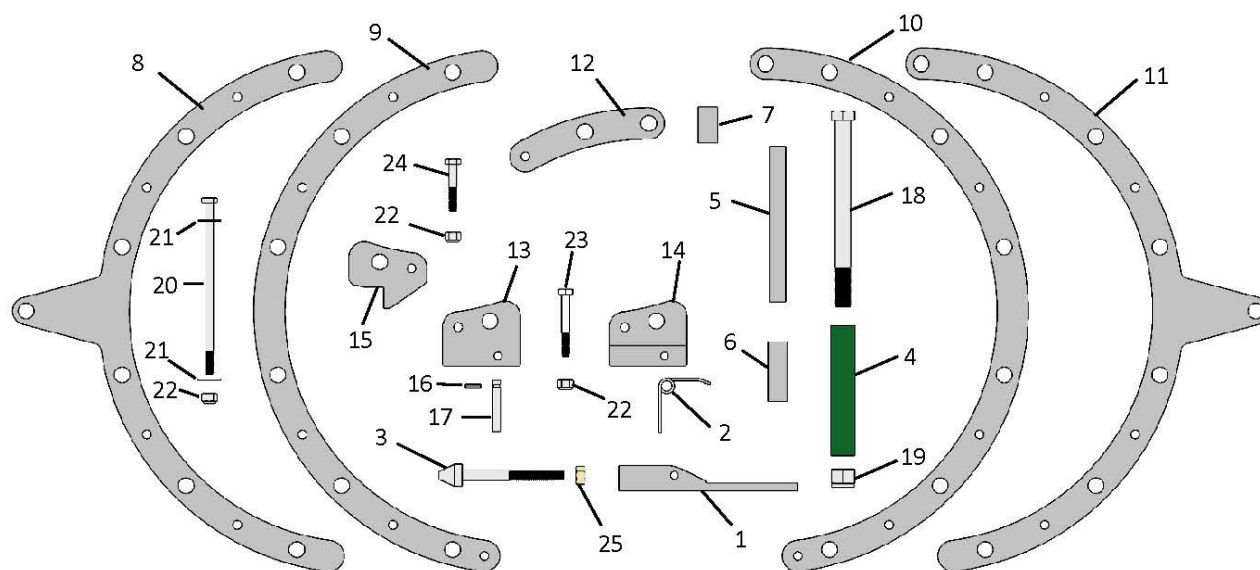


400 & 500 FRAME (DOUBLE HINGE DESIGN)

## REPLACEMENT PARTS FOR CASING STABBING GUIDES

| PART NO.     | DESCRIPTION                                                   | MAX COUPLING OD | QTY |
|--------------|---------------------------------------------------------------|-----------------|-----|
| 02C-P100     | FRAME ASSEMBLY F/ 9 7/8" CASING STABBING GUIDE                | 10 3/4"         | 1   |
| 02C-P200     | FRAME ASSEMBLY F/ 12 7/8" CASING STABBING GUIDE               | 13 3/4"         | 1   |
| 02C-P300     | FRAME ASSEMBLY F/ 16" CASING STABBING GUIDE                   | 16 7/8"         | 1   |
| 02C-P400     | FRAME ASSEMBLY F/ 20" CASING STABBING GUIDE                   | 21 3/8"         | 1   |
| 02C-P500     | FRAME ASSEMBLY F/ 24 1/2" CASING STABBING GUIDE               | 25 3/8"         | 1   |
| 02C-XXXXXX-P | 100 POLY INSERTS (PART NO VARIES DEPENDING ON SIZE OF CASING) |                 | 4   |
| 02C-XXXXXX-P | 200 POLY INSERTS (PART NO VARIES DEPENDING ON SIZE OF CASING) |                 | 4   |
| 02C-XXXXXX-P | 300 POLY INSERTS (PART NO VARIES DEPENDING ON SIZE OF CASING) |                 | 6   |
| 02C-XXXXXX-P | 400 POLY INSERTS (PART NO VARIES DEPENDING ON SIZE OF CASING) |                 | 8   |
| 02C-XXXXXX-P | 500 POLY INSERTS (PART NO VARIES DEPENDING ON SIZE OF CASING) |                 | 8   |

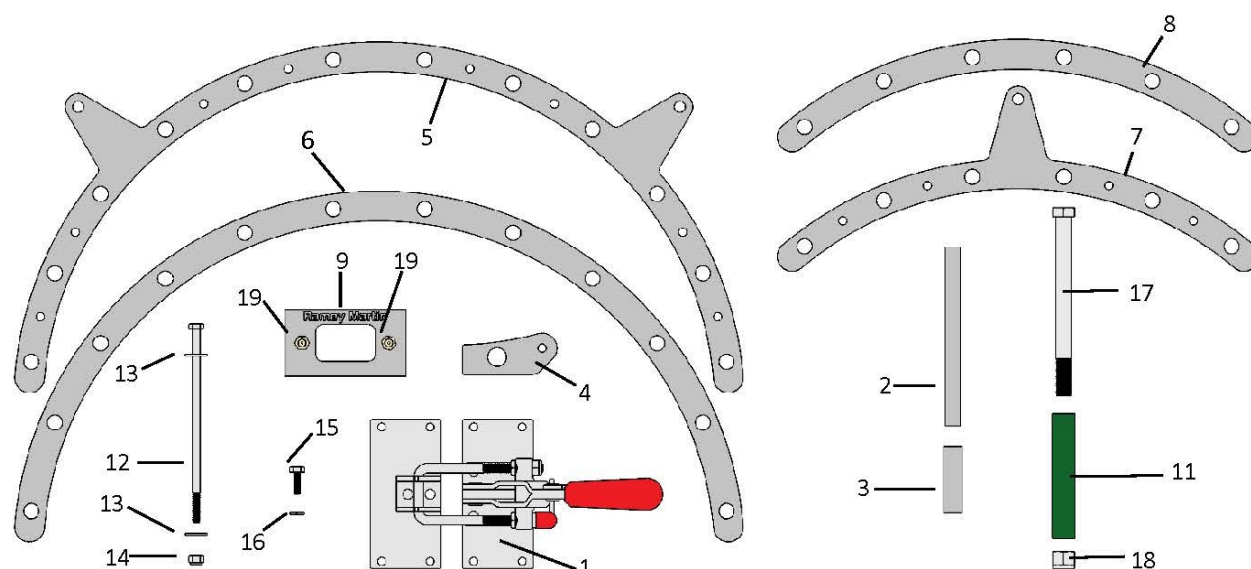
## RMET HEAVY DUTY CASING STABBING GUIDE PARTS



### REPLACEMENT PARTS FOR 100-300 FRAMES

| NO. | KET #    | DESCRIPTION       | QTY | WT. |  | NO. | KET#        | DESCRIPTION       | QTY | WT.  |
|-----|----------|-------------------|-----|-----|--|-----|-------------|-------------------|-----|------|
| 1   | 02C-P005 | LATCH             | 1   | .17 |  | 8   | 02C-P305    | LEFT OUTER RING   | 2   | 1.08 |
| 2   | 02C-P006 | LATCH SPRING      | 1   | .01 |  | 9   | 02C-P310    | LEFT INNER RING   | 1   | .96  |
| 3   | 02C-P010 | CATCH PIN         | 1   | .12 |  | 10  | 02C-P315    | RIGHT OUTER RING  | 2   | 1.12 |
| 4   | 02C-P017 | HANDLE GRIP       | 2   | .05 |  | 11  | 02C-P320    | RIGHT INNER RING  | 1   | .99  |
| 5   | 02C-P020 | ALIGNMENT PIN     | *   | .07 |  | 12  | 02C-P325    | HINGE             | 4   | .13  |
| 6   | 02C-P025 | INNER SPACER      | *   | .02 |  | 13  | 02C-P330    | UPPER LATCH BLOCK | 1   | .21  |
| 7   | 02C-P030 | HINGE SPACER      | 2   | .01 |  | 14  | 02C-P331    | LOWER LATCH BLOCK | 1   | .22  |
|     |          |                   |     |     |  | 15  | 02C-P335    | CATCH             | 1   | .12  |
| 8   | 02C-P105 | LEFT OUTER RING   | 2   | .78 |  |     |             |                   |     |      |
| 9   | 02C-P110 | LEFT INNER RING   | 1   | .64 |  | 16  | 02-550      | RETAINER PIN      | 1   | .00  |
| 10  | 02C-P115 | RIGHT OUTER RING  | 2   | .81 |  | 17  | 02-555      | LATCH PIN         | 1   | .02  |
| 11  | 02C-P120 | RIGHT INNER RING  | 1   | .67 |  | 18  | 50008-48-C5 | HANDLE BOLT       | 2   | .35  |
| 12  | 02C-P125 | HINGE             | 4   | .13 |  | 19  | 50208-C5    | HANDLE NUT        | 2   | .04  |
| 13  | 02C-P130 | UPPER LATCH BLOCK | 1   | .22 |  | 20  | 50004-44-C5 | ALIGNMENT BOLT    | *   | .08  |
| 14  | 02C-P131 | LOWER LATCH BLOCK | 1   | .23 |  | 21  | 50804-R-C-5 | FLAT WASHER       | *   | .01  |
| 15  | 02C-P135 | CATCH             | 1   | .08 |  | 22  | 50204-C5    | NYLON LOCK NUT    | *   | .01  |
|     |          |                   |     |     |  | 23  | 50004-16-C5 | LATCH BLOCK BOLT  | 1   | .03  |
| 8   | 02C-P205 | LEFT OUTER RING   | 2   | .94 |  | 24  | 50004-12-C5 | HINGE BOLT        | 1   | .02  |
| 9   | 02C-P210 | LEFT INNER RING   | 1   | .81 |  | 25  | N/A         | 5/16 HEX NUT      | 1   | .01  |
| 10  | 02C-P215 | RIGHT OUTER RING  | 2   | .98 |  |     |             |                   |     |      |
| 11  | 02C-P220 | RIGHT INNER RING  | 1   | .84 |  |     |             |                   |     |      |
| 12  | 02C-P225 | HINGE             | 4   | .16 |  |     |             |                   |     |      |
| 13  | 02C-P230 | UPPER LATCH BLOCK | 1   | .21 |  |     |             |                   |     |      |
| 14  | 02C-P231 | LOWER LATCH BLOCK | 1   | .23 |  |     |             |                   |     |      |
| 15  | 02C-P235 | CATCH             | 1   | .12 |  |     |             |                   |     |      |

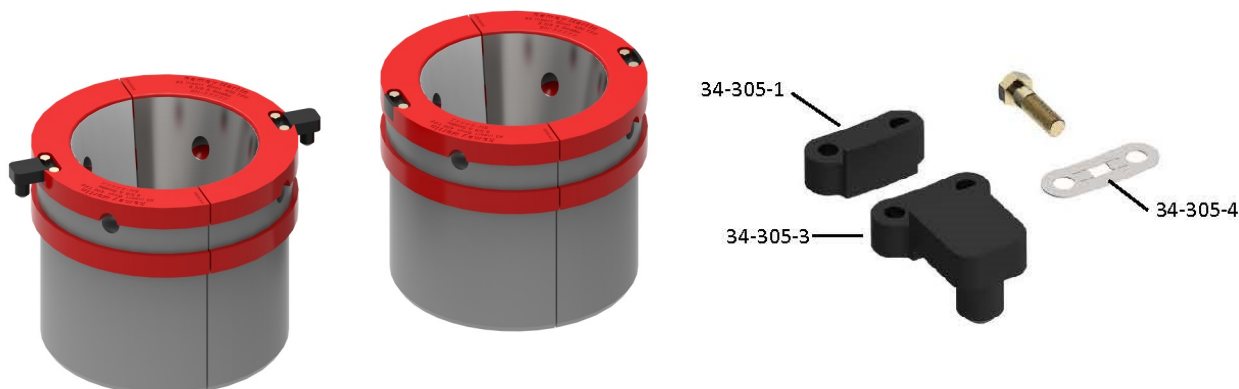
## RMET HEAVY DUTY CASING STABBING GUIDE PARTS



### REPLACEMENT PARTS FOR 400-500 FRAMES

| NO. | KET #       | DESCRIPTION                    | QTY | WEIGHT |
|-----|-------------|--------------------------------|-----|--------|
| 1   | 02C-P013    | LATCH ASSEMBLY                 | 1   | 2.41   |
| 2   | 02C-P021    | ALIGNMENT PIN                  | 24  | .08.   |
| 3   | 02C-P026    | RING SPACER                    | 40  | .02    |
| 4   | 02C-P401    | LATCH MOUNTING TAB (400 FRAME) | 4   | .14    |
| 5   | 02C-P405    | REAR OUTER RING (400 FRAME)    | 2   | 1.90   |
| 6   | 02C-P410    | REAR INNER RING (400 FRAME)    | 1   | 1.62   |
| 7   | 02C-P415    | FRONT OUTER RING (400 FRAME)   | 4   | .92    |
| 8   | 02C-P420    | FRONT INNER RING (400 FRAME)   | 2   | .78    |
| 9   | 02C-P425    | HINGE (400 FRAME)              | 4   | .42    |
| 4   | 02C-P501    | LATCH MOUNTING TAB (500 FRAME) | 4   | .17    |
| 5   | 02C-P505    | REAR OUTER RING (500 FRAME)    | 2   | 2.21   |
| 6   | 02C-P510    | REAR INNER RING (500 FRAME)    | 1   | 1.93   |
| 7   | 02C-P515    | FRONT OUTER RING (500 FRAME)   | 4   | 1.07   |
| 8   | 02C-P520    | FRONT INNER RING (500 FRAME)   | 2   | .93    |
| 9   | 02C-P525    | HINGE (500 FRAME)              | 4   | .50    |
| 11  | 02C-P017    | HANDLE GRIP                    | 2   | .05    |
| 12  | 50004-52-C5 | ALIGNMENT BOLT                 | 24  | .09    |
| 13  | 50804-R-C-5 | FLAT WASHER                    | 48  | .01    |
| 14  | 50204-C5    | NYLON LOCK NUT                 | 24  | .01    |
| 15  | 50004-08-C5 | LATCH PLATE BOLT               | 8   | .01    |
| 16  | 50904-C5    | LOCK WASHER                    | 8   | .00    |
| 17  | 50008-56-C5 | HANDLE BOLT                    | 2   | .40    |
| 18  | 50208-C5    | HANDLE NUT                     | 2   | .04    |
| 19  | ZF-GZN-02-3 | GREASE FITTING                 | 2   | .01    |

# RMET INSERT BOWLS AND ACCESSORIES

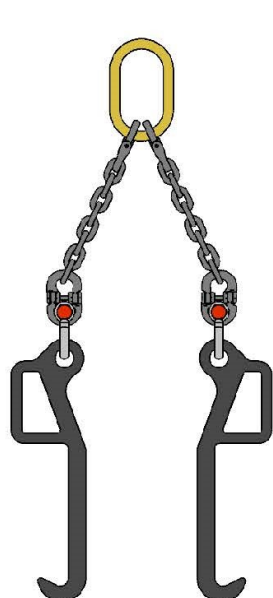


| PART NO. | DESCRIPTION                                                                        | REF.# | WT. |
|----------|------------------------------------------------------------------------------------|-------|-----|
| 34-101   | INSERT BOWL NO. 1 FOR 13 3/8" - 11 3/4" CASING (23" - 27 1/2" Master Bushings)     | 1903  | 315 |
| 34-301   | INSERT BOWL NO. 1 FOR 13 3/8" - 11 3/4" CASING (37 1/2" - 49 1/2" Master Bushings) | 6610  | 325 |
| 34-302 * | INSERT BOWL NO. 2 FOR 10 3/4" - 9 5/8" CASING (23" - 49 1/2" Master Bushings)      | 6609  | 705 |
| 34-303 * | INSERT BOWL NO. 3 FOR 8 5/8" & SMALLER CASING (23" - 49 1/2" Master Bushings)      | 6608  | 875 |

\* INCLUDES INSERTS 34-305-1 (23" - 27" MB) AND 34-305-3 (37 1/2" - 49 1/2" MB) WITH LOCKING TABS (34-305-4) AND BOLTS

## ACCESSORIES

| PART NO.   | ITEM# | DESCRIPTION                                                     | REF.#    | WT. |
|------------|-------|-----------------------------------------------------------------|----------|-----|
| 34-315     | A     | 2 HOOK CHAIN LIFTING SLING (4,000 LBS CAPACITY)                 | 1021     | 40  |
| 34-315-CAB | A     | 2 HOOK CABLE LIFTING SLING (4,000 LBS CAPACITY) - NOT PICTURED  | 1021-CAB | 35  |
| 34-316     | B     | 4 HOOK CHAIN LIFTING SLING (12,000 LBS CAPACITY)                | 6699     | 150 |
| 34-316-CAB | B     | 4 HOOK CABLE LIFTING SLING (12,000 LBS CAPACITY) - NOT PICTURED | 6699-CAB | 140 |



(Actual length of chain longer than shown)

A



(Actual length of chain longer than shown)

B

# MISCELLANEOUS DIES AND INSERTS

| PART NO.                                                                                                 | DESCRIPTION                                 | REF #                  | WT.   |
|----------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|-------|
| <b>FC INSERTS FOR TYPE C (82.5 TON) / CHD (125 TON)</b>                                                  |                                             |                        |       |
| 34-205                                                                                                   | 3 1/2" X 3 1/2" INSERTS (SET OF 4)          | TC-650-3 1/2"          | 9.00  |
| 34-206                                                                                                   | 3 1/2" X 2 7/8" INSERTS (SET OF 4)          | TC-651-2 7/8"          | 14.00 |
| 34-207                                                                                                   | 3 1/2" X 2 3/8" INSERTS (SET OF 4)          | TC-651-2 3/8"          | 17.00 |
| 34-228                                                                                                   | 3 1/2" X 2 1/16" INSERTS (SET OF 4)         | TC-650-3 1/2"          | 18.50 |
| 34-229                                                                                                   | 3 1/2" X 1 1/2" (1.900") INSERTS (SET OF 4) | TC-651-3 1/2" x 1 1/2" | 19.00 |
| 34-230                                                                                                   | 3 1/2" X 1 1/4" (1.660") INSERTS (SET OF 4) | TC-651-3 1/2" x 1 1/4" | 19.50 |
| 34-231                                                                                                   | 3 1/2" X 1" (1.315") INSERTS (SET OF 4)     | TC-651-3 1/2" x 1"     | 20.00 |
| 34-209                                                                                                   | 4 1/2" X 4 1/2" INSERTS (SET OF 4)          | TC-650-4 1/2"          | 10.00 |
| 34-210                                                                                                   | 4 1/2" X 4" INSERTS (SET OF 4)              | TC-651-4 1/2" x 4"     | 12.00 |
| 34-211                                                                                                   | 4 1/2" X 3 1/2" INSERTS (SET OF 4)          | TC-651-4 1/2" x 3 1/2" | 14.00 |
| *AVAILABLE IN NON-DIRETIONAL AND FINE TOOTH FOR CHROME. OTHER SIZES AVAILABLE IN FINE TOOTH UPON REQUEST |                                             |                        |       |

|                                                                                                          |                                    |            |       |
|----------------------------------------------------------------------------------------------------------|------------------------------------|------------|-------|
| <b>FC INSERTS FOR TYPE E (175 TON)</b>                                                                   |                                    |            |       |
| 34-166                                                                                                   | 3 1/2" X 3 1/2" INSERTS (SET OF 4) | 66651-3-ST | 9.00  |
| 34-165                                                                                                   | 3 1/2" X 2 7/8" INSERTS (SET OF 4) | 66651-2-ST | 14.00 |
| 34-164                                                                                                   | 3 1/2" X 2 3/8" INSERTS (SET OF 4) | 66651-1-ST | 17.00 |
|                                                                                                          | 5 1/2" X 4" INSERTS (SET OF 4)     | 66653-1-ST | 33.00 |
|                                                                                                          | 5 1/2" X 4 1/2" INSERTS (SET OF 4) | 66653-2-ST | 33.00 |
|                                                                                                          | 5 1/2" X 5" INSERTS (SET OF 4)     | 66653-3-ST | 17.00 |
|                                                                                                          | 5 1/2" X 5 1/2" INSERTS (SET OF 4) | 66654-4-ST | 17.00 |
| *AVAILABLE IN NON-DIRETIONAL AND FINE TOOTH FOR CHROME. OTHER SIZES AVAILABLE IN FINE TOOTH UPON REQUEST |                                    |            |       |
|                                                                                                          |                                    |            |       |

|                            |                                          |  |      |
|----------------------------|------------------------------------------|--|------|
| <b>COIL TUBING INSERTS</b> |                                          |  |      |
| 29259-2                    | 2 7/8" X 1.00" MYT/YT COIL TUBING INSERT |  | 1.75 |
| 29259-3                    | 2 7/8" X 1.25" MYT/YT COIL TUBING INSERT |  | 1.70 |
| 29259-4                    | 2 7/8" X 1.50" MYT/YT COIL TUBING INSERT |  | 1.50 |
| 29259-5                    | 2 7/8" X 1.75" MYT/YT COIL TUBING INSERT |  | 1.38 |
| 29259-6                    | 2 7/8" X 2.00" MYT/YT COIL TUBING INSERT |  | 1.25 |
|                            |                                          |  |      |
| 21-121                     | 3 1/2" X 1.00 TS-100 COIL TUBING INSERT  |  | 2.60 |
| 21-120                     | 3 1/2" X 1.25 TS-100 COIL TUBING INSERT  |  | 2.50 |
| 21-119                     | 3 1/2" X 1.50 TS-100 COIL TUBING INSERT  |  | 2.40 |
| 21-117                     | 3 1/2" X 1.75 TS-100 COIL TUBING INSERT  |  | 2.25 |
| 21-111                     | 3 1/2" X 2" TS-100 COIL TUBING INSERT    |  | 2.05 |

|                        |                                                    |  |      |
|------------------------|----------------------------------------------------|--|------|
| <b>POWER TONG DIES</b> |                                                    |  |      |
| 27494-1                | 2 3/8" X 2 3/8" POWER TONG DIE                     |  | 1.06 |
| 27498-1                | 2 7/8" X 2 7/8" POWER TONG DIE                     |  | 1.06 |
| 75-2327                | 2 7/8" X 2 3/8" POWER TONG REDUCER DIE             |  | 1.62 |
| 100-118                | 5 1/2" CONTOUR DIE FOR WEATHERFORD/LAMB POWER TONG |  |      |
| 100-120                | 7" CONTOUR DIE FOR WEATHERFORD/LAMB POWER TONG     |  |      |
| 100-121                | 9 5/8" CONTOUR DIE FOR WEATHERFORD/LAMB POWER TONG |  |      |
| 100-122                | 13 3/8" FLAT DIE FOR WEATHERFORD/LAMB POWER TONG   |  |      |

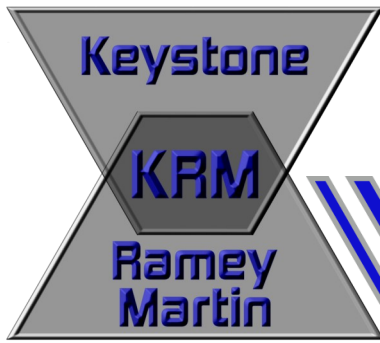


## MISCELLANEOUS DIES AND INSERTS

### DRILL PIPE TONG DIES

| PART NO. | DESCRIPTION                                   | WT.  |
|----------|-----------------------------------------------|------|
| 6472     | 3/8" X 5/8" X 1 15/16" TONG DIE               | .10  |
| 061624   | 3/8" X 1" X 2 1/2" TONG DIE                   | .21  |
| 6473     | 3/8" X 1" X 3 7/8" TONG DIE                   | .32  |
| 6473-BD  | 3/8" X 1" X 3 7/8" BLUE DIAMOND TONG DIE      | .32  |
| 4321     | 3/8" X 1" X 4 1/4" TONG DIE                   | .35  |
| 4516     | 3/8" X 1" X 5 3/4" TONG DIE                   | .47  |
| 1614     | 3/8" X 1 1/4" X 3 7/8" TONG DIE               | .39  |
| 76-51250 | 3/8" X 1 1/4" X 5" TONG DIE                   | .50  |
| 1612     | 7/16" X 1 1/4" X 3 7/8" TONG DIE              | .46  |
| 1612-BD  | 7/16" X 1 1/4" X 3 7/8" BLUE DIAMOND TONG DIE | .46  |
| 24768-3  | 1/2" X 1 1/4" X 3 1/2" TONG DIE               | .50  |
| 6485     | 1/2" X 1" X 3 7/8" TONG DIE                   | .50  |
| 24768-2  | 1/2" X 1 1/4" X 3 7/8" TONG DIE               | .54  |
| 24768-6  | 1/2" X 1 1/4" X 3 7/8" BLUE DIAMOND TONG DIE  | .54  |
| 16401-2  | 1/2" X 1 1/4" X 5" TONG DIE                   | .69  |
| 16401-6  | 1/2" X 1 1/4" X 5" BLUE DIAMOND TONG DIE      | .69  |
| 16402-2  | 1/2" X 1 1/4" X 5 7/8" TONG DIE               | .82  |
| 16402-6  | 1/2" X 1 1/4" X 5 7/8" BLUE DIAMOND TONG DIE  | .82  |
| 16-22    | 9/16" X 1 1/4" X 3 7/8" TONG DIE              | .61  |
| 76-51235 | 9/16" X 1 1/4" X 5" TONG DIE                  | .78  |
| 102037   | 5/8" X 1 1/4" X 3 7/8" TONG DIE               | .68  |
| 102050   | 5/8" X 1 1/4" X 5" TONG DIE                   | .87  |
| 76-51257 | 5/8" X 1 1/4" X 5 7/8" TONG DIE               | 1.02 |
| 1161255  | 11/16" X 1 1/4" X 5" TONG DIE                 | .96  |
| 6416446  | 11/16" X 1 1/4" X 5 7/8" TONG DIE             | 1.13 |
| 122034   | 3/4" X 1 1/4" X 3 1/2" TONG DIE               | .75  |
| 122037   | 3/4" X 1 1/4" X 3 7/8" TONG DIE               | .81  |
| 76-61250 | 3/4" X 1 1/4" X 5" TONG DIE                   | 1.05 |
| 76-61257 | 3/4" X 1 1/4" X 5 7/8" TONG DIE               | 1.23 |
| 132037   | 13/16" X 1 1/4" X 3 7/8" TONG DIE             | .88  |
| 142037   | 7/8" X 1 1/4" X 3 7/8" TONG DIE               | .95  |
| 142050   | 7/8" X 1 1/4" X 5" TONG DIE                   | 1.23 |
| 142057   | 7/8" X 1 1/4" X 5 7/8" TONG DIE               | 1.45 |
| 162037   | 1" X 1 1/4" X 3 7/8" TONG DIE                 | 1.25 |
| 162050   | 1" X 1 1/4" X 5" TONG DIE                     | 1.61 |
| 162057   | 1" X 1 1/4" X 5 7/8" TONG DIE                 | 1.80 |



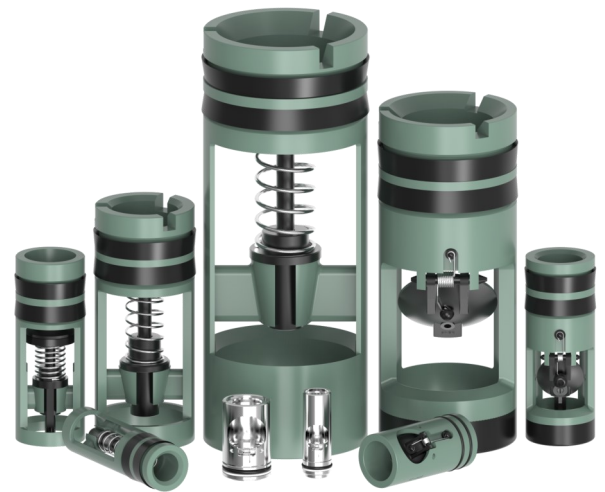
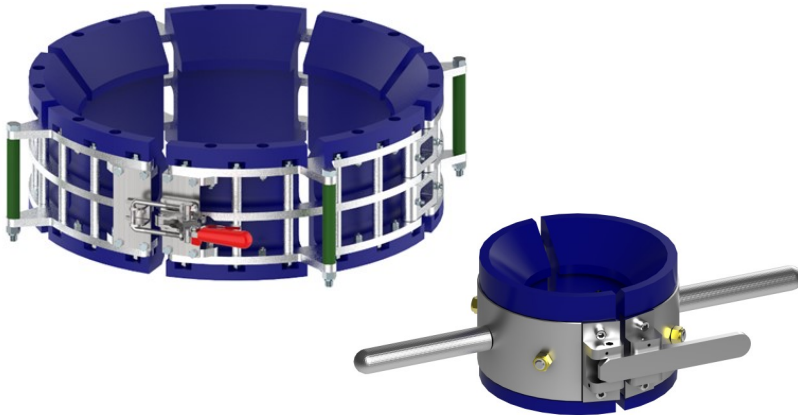


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