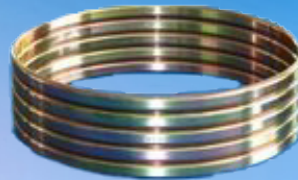
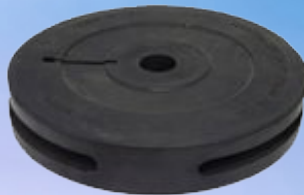
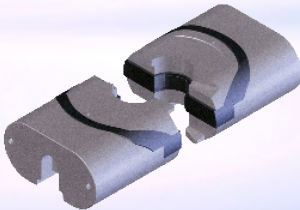
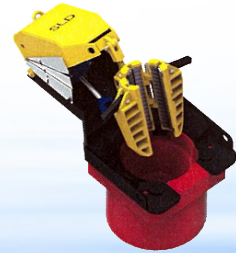
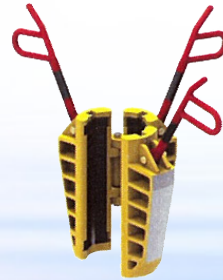
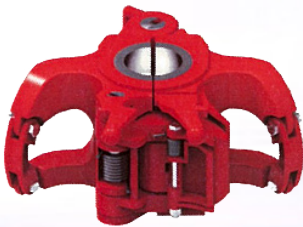
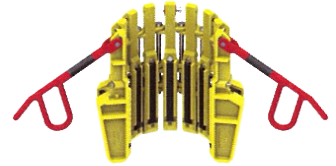
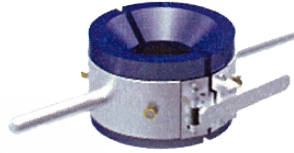


DEBCO SUPPLY LLC

OILFIELD EQUIPMENT SALES



INTEGRITY
EXPERIENCE
KNOWLEDGE

DEBCO SUPPLY LLC

OILFIELD EQUIPMENT SALES



Office: 281-331-9550 | P.O. Box 834 Friendswood, TX 77549





COMPANY INFORMATION

Company Name: Debco Supply LLC

Established: Debco has been in the oilfield business since 1989

Members: Chuck Boyer - President

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Debco Supply LLC is a family owned company, and has been in the oilfield business since 1989. We pride ourselves on our customer service and level of commitment to every customer. We have been providing quality equipment and supplies to quality customers for over 26 years. We are thankful for the relationships we have developed through doing business with you and look forward to being of service for many years to come.

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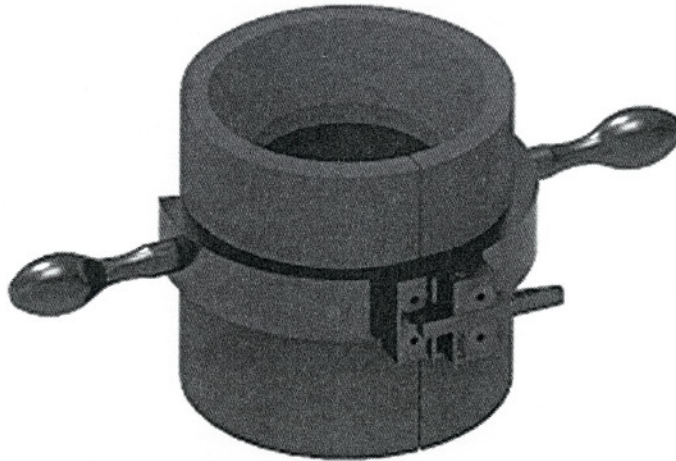
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STANDARD RUBBER STABBING GUIDE

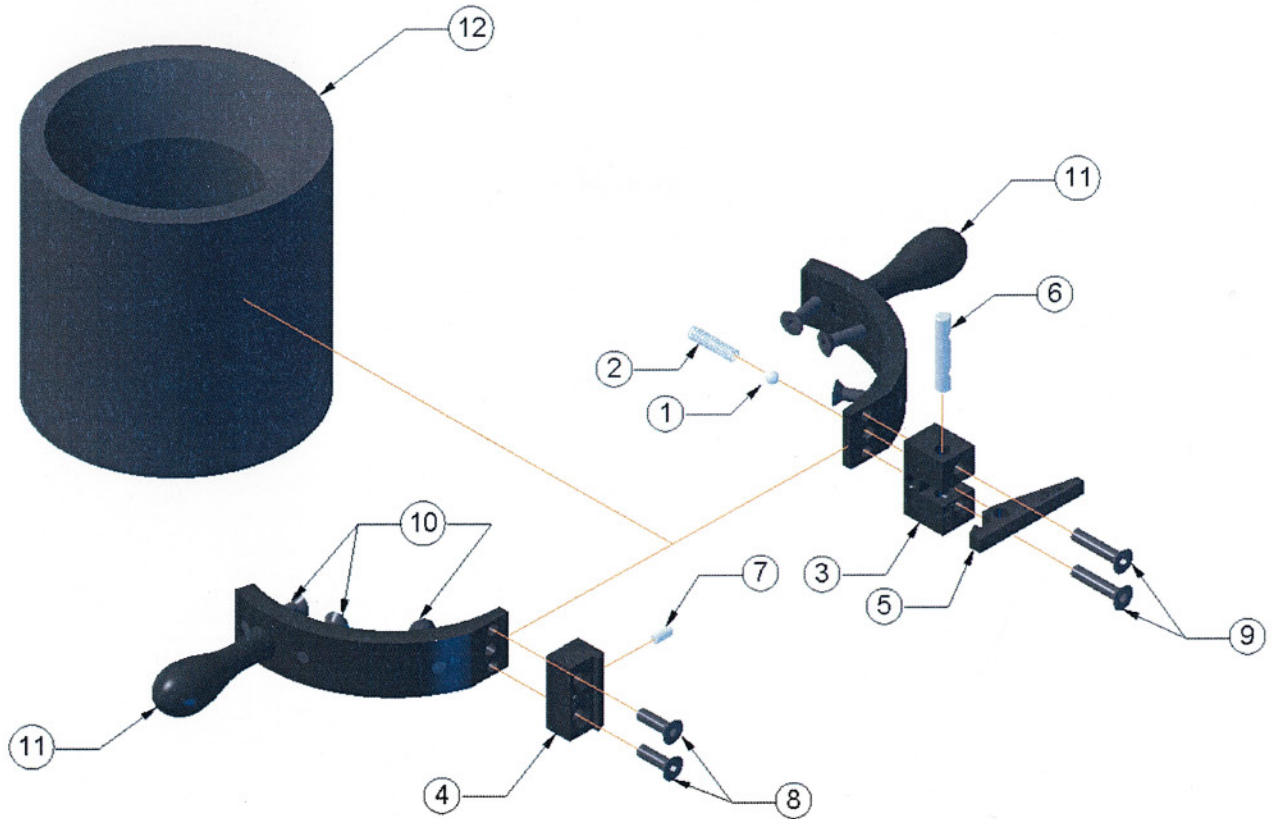


STANDARD RUBBER STABBING GUIDE COMPLETE

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

CUSTOM SIZES AVAILABLE UPON REQUEST

STANDARD RUBBER STABBING GUIDE

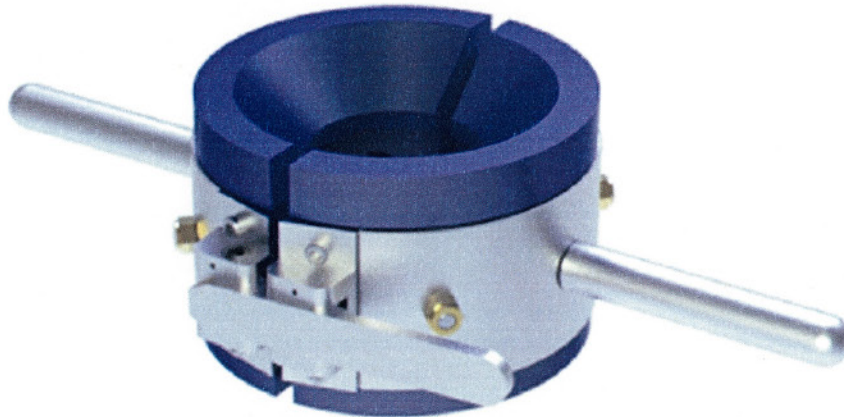


REPLACEMENT PARTS FOR

STANDARD STABBING GUIDE

	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

HEAVY DUTY STABBING GUIDE

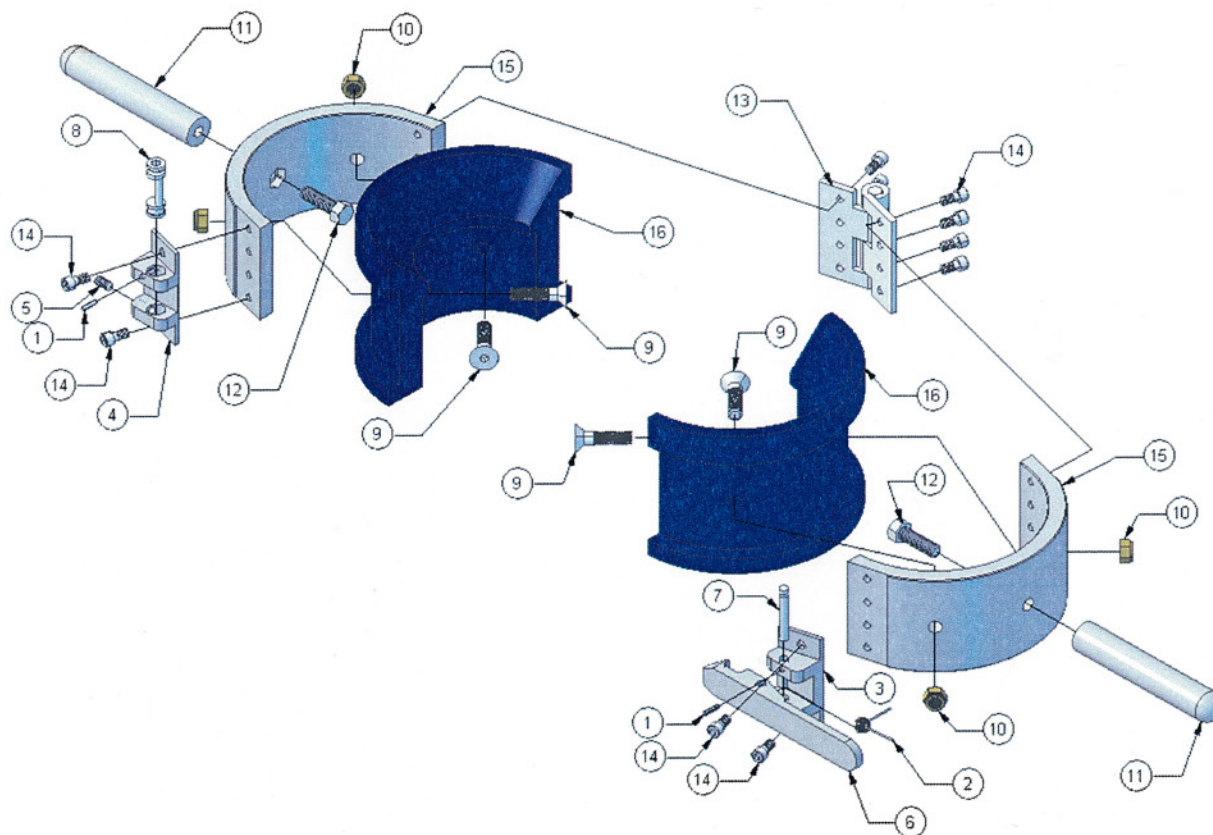


RMET HEAVY DUTY STABBING GUIDE COMPLETE

ASSEMBLY	INSERT ONLY /SET	DESCRIPTION	WT. INSERT / SET	WT. ASSEMBLY
02-502	02-521	1" CS	1.36	4.60
02-503	02-522	1 1/4" CS	1.22	4.45
02-504	02-523	1 1/2" CS	1.15	4.40
02-505	02-524	2 1/16" CS	.93	4.15
02-506	02-525	2 3/8" CS 4.70#	4.20	8.45
02-507	02-526	2 3/8" PH-6 5.95#	4.10	8.35
02-508	02-527	2 7/8" CS	3.75	7.95
02-509	02-528	2 7/8" PH-6 7.90#	3.60	7.80
02-510	02-529	2 7/8" PH-6 8.70#	3.55	7.80
02-512	02-531	2 7/8" 8RD 6.5#	3.45	7.70
02-514	02-533	3 1/2" CS 9.3# - 10.3#	3.06	7.30
02-515	02-534	3 1/2" PH-6 12.95#	2.70	6.95
02-517	02-536	3 1/2" IF F/ 4 3/4" TJ	2.18	6.45
02-517-3	02-536-2	3 1/2" IF f/ 4 7/8" TJ	2.06	6.30
02-517-1	02-536-1	4" Full Hole	1.60	5.85
02-5306	02-5356	XT-39 F/ 4 7/8" TJ	2.06	6.30
02-5308	02-5358	XT-39 F/ 4 15/16 TJ	2.03	6.25
02-5309	02-5359	XT-43 F/ 5 3/8" TJ	13.10	19.90
02-519	02-538	4 1/2" PH-6 15.50#	1.70	5.95
02-517-4	02-536-1	4 1/2" FH F/ 5 1/4" TJ		
02-543	02-539	4 1/2" XH	11.45	18.25
02-5310	02-5360	DRILL PIPE F/ 6 1/2" TJ	10.70	17.50
02-5311	02-5361	DRILL PIPE F/ 7" TJ	9.30	16.10
02-5312	02-5362	DRILL PIPE F/ 7 1/4" TJ	8.80	15.60
02-5313	02-5363	DRILL PIPE F/ 8 1/4" TJ	5.95	12.75
02-5314	02-5364	DRILL PIPE F/ 8 1/2" TJ	5.45	12.25
02-547	02-540	4 1/2" IF 6 5/8" TJ	10.55	17.35
02-545	02-541	5" PH-6 20.3#	11.70	18.50
02-546	02-542	5 1/2" PH-6 23#	10.80	17.60

CUSTOM SIZES AVAILABLE UPON REQUEST

HEAVY DUTY STABBING GUIDE



REPLACEMENT PARTS FOR

HEAVY DUTY STABBING GUIDE

	ITEM#	DESCRIPTION	QTY	WT.
02-550	1	RETAINER PIN	2	.01
02-551	2	SPRING	1	.01
02-552	3	HINGE BLOCK	1	.10
02-553	4	CATCH BLOCK	1	.10
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-S	14	HARDWARE SCREW	12	.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

"DU" TYPE ROTARY SLIPS

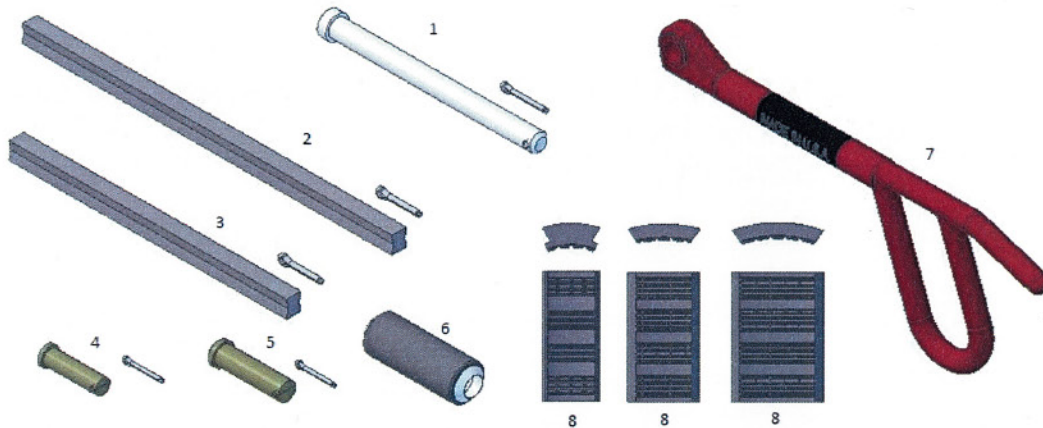
"DU Rotary Slips are designed for long trouble free service. They are made of alloy steel and heat-treated for strength and resistance to wear. Both slips are for use in API tapered bowls. The "DU" Regular has a 12" long gripping surface and is designed for wells 8000' or less. The "DU Long has a 16" long gripping surface and is designed for deeper wells and heavier drill strings.



"DU" TYPE ROTARY SLIPS COMPLETE

	SLIP BODY SIZE	TYPE	WT.
03-114-F	4 1/2"	DU/REGULAR	123.00
03-115-F	4 1/2"	DU/LONG	150.00
03-116-F	5 1/2"	DU/REGULAR	128.00
03-117-F	5 1/2"	DU/LONG	162.00
03-112-SDU-F	5 1/2"	SDU/LONG	180.00
03-118-F	7"	DU/REGULAR	132.00
03-119-F	7"	SDU/LONG	192.00

ALL "DU" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST



REPLACEMENT PARTS FOR "DU" ROTARY SLIPS

	ITEM#	DESCRIPTION	*SPARES	#REQ.	REF.#	WT.
03-102	N/P	REAR HANDLE	1	1	7613-5195	5.00
03-101	N/P	FRONT HANDLE	2	2	7613-A-157	4.00
03-105	1	HINGE PIN	2	2	7613-A-12	1.25
03-103	2	DU LONG LINER KEY	3	3	7613-A-67	1.75
03-104	3	DU REG. LINER KEY	3	3	7613-A-52	1.50
03-106	4	FRONT HANDLE PIN	2	2	7613-B-12	.25
03-107	5	REAR HANDLE PIN	1	1	7613-C-12	.38
03-108	6	HINGE SPRING ASSY.	2	2	7613-211	1.25
03-300-R	7	SAFETY FLEX HANDLE (REAR)	1	1	7613-5190	5.00
03-300-F	7	SAFETY FLEX HANDLE (FRONT)	2	2	7613-5190	5.00

*RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION

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

	DESCRIPTION	REF.#	WT.	RMET# (FULL FACE INSERTS)
03-120	4 1/2" X 4 1/2"	7613-A-81	.75	03-210
	4 1/2" X 4 3/8"	N/A	.80	03-213
	4 1/2" X 4 1/4"	N/A	.85	03-216
	4 1/2" X 4 1/8"	N/A	.90	03-219
03-121	4 1/2" X 4"	7613-FF-81	1.00	03-221
	4 1/2" X 3 3/4"	N/A	1.75	03-224
03-122	4 1/2" X 3 1/2"	7613-C-82	1.50	03-227
	4 1/2" X 3 3/8"	N/A	1.65	03-229
	4 1/2" X 3 1/4"	N/A	1.75	03-228
	4 1/2" X 3 1/8"	N/A	1.85	03-230
	4 1/2" X 3"	N/A	1.90	03-231
03-123	4 1/2" X 2 7/8"	7613-B-82	2.00	03-233
03-124	4 1/2" X 2 3/8"	7613-A-82	2.25	03-236
03-125	4 1/2" X 2 1/16"	7613-M-82	2.50	03-237
03-126	4 1/2" X 1.900"	7613-H-82	2.75	03-238
03-127	4 1/2" X 1.660"	N/A	2.80	03-239

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

	DESCRIPTION	REF.#	WT.	RMET# (FULL FACE INSERTS)
	5 1/2" X 5 3/4"	N/A	.85	03-241
03-130	5 1/2" X 5 1/2"	7613-H-81	1.00	03-240
03-131	5 1/2" X 5"	7613-G-81	1.50	03-243
	5 1/2" X 4 3/4"	N/A	1.75	03-246
03-132	5 1/2" X 4 1/2"	7613-E-81	2.00	03-249
	5 1/2" X 4 3/8"	N/A	2.10	03-247
	5 1/2" X 4 1/4"	N/A	2.15	03-252
	5 1/2" X 4 1/8"	N/A	2.20	03-255
03-133	5 1/2" X 4"	N/A	2.25	03-258
	5 1/2" X 3 3/4"	N/A	2.28	03-261
03-134	5 1/2" X 3 1/2"	7613-E-82	2.31	03-264
	5 1/2" X 3 1/4"	N/A	2.38	03-266
	5 1/2" X 3 1/8"	N/A	2.45	03-268
	5 1/2" X 3"	N/A	2.52	03-270
	5 1/2" X 2 7/8"	N/A	2.60	03-275
	5 1/2" X 2 3/8"	N/A	2.80	03-277

INSERTS FOR 7" "SDU" ROTARY TYPE SLIPS

	DESCRIPTION	REF.#	WT.
03-140	7" X 7"	7613-EE-81	1.25
03-141	7" X 6 5/8"	7613-DD-81	1.75
03-146	7" X 5 7/8"	N/A	3.00
03-142	7" X 5 1/2"	7613-Z-81	3.25
03-143	7" X 5"	7613-Y-81	3.75
03-144	7" X 4 1/2"	7613-W-81	4.00

NOTE: "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

"SD" TYPE ROTARY SLIPS

"SDML" and "SDXL" Slips are made of alloy steel and heat-treated for strength and long life. These slips are then machined by strict quality control procedures 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 broking 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. Lastly, we have added SLD spring grooves, which allow our slip to easily be retrofitted for the Ramey Martin SLD.



"SD" TYPE ROTARY SLIPS COMPLETE

	SLIP BODY SIZE	TYPE	WT.
23-100-F	3 1/2" BODY ONLY	SDML	153.00
23-200-F	4 1/2" BODY ONLY	SDML	173.00
23-300-F	5" BODY ONLY	SDML	170.00
24-200-F	4 1/2" BODY ONLY	SDXL	182.00
24-100-F	5" BODY ONLY	SDXL	193.00
24-300-F	5 1/2" BODY ONLY	SDXL	190.00
23-135-F	3 1/2" x 3 1/2"	SDML	180.00
23-127-F	3 1/2" x 2 7/8"	SDML	188.00
23-123-F	3 1/2" x 2 3/8"	SDML	193.00
23-245-F	4 1/2" x 4 1/2"	SDML	188.00
23-240-F	4 1/2" x 4"	SDML	199.00
23-235-F	4 1/2" x 3 1/2"	SDML	207.00
23-500-F	5" x 5"	SDML	185.00
23-545-F	5" x 4 1/2"	SDML	196.00
23-540-F	5" x 4"	SDML	204.00
23-455-F	5 1/2" x 5 1/2"	SDML	181.00
23-450-F	5 1/2" x 5"	SDML	192.00
23-445-F	5 1/2" x 4 1/2"	SDML	200.00
24-245-F	4 1/2" x 4 1/2"	SDXL	205.00
24-240-F	4 1/2" x 4"	SDXL	219.00
24-235-F	4 1/2" x 3 1/2"	SDXL	229.00
24-150-F	5" x 5"	SDXL	213.00
24-145-F	5" x 4 1/2"	SDXL	227.00
24-140-F	5" x 4"	SDXL	237.00
24-355-F	5 1/2" x 5 1/2"	SDXL	210.00
24-350-F	5 1/2" x 5"	SDXL	224.00
24-345-F	5 1/2" x 4 1/2"	SDXL	234.00

ALL "SD" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

"SD" TYPE ROTARY SLIPS



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

REPLACEMENT PARTS FOR "SD" TYPE ROTARY SLIPS

ITEM#	DESCRIPTION	SIZE	#REQ.	REF.#	WT.	*SPARES
23-150	N/P LEFT HANDLE	ALL	1	3768	3.50	1
14-103	N/P REAR HANDLE	ALL	1	3766	4.00	1
23-151	N/P RIGHT HANDLE	ALL	1	3767	3.50	1
14-105	1 HANDLE PIN w/WASHER & COTTER	ALL	3	3769	.50	3
23-104	2 INSERT RETAINER RING	3 1/2"	3	3738	1.00	3
23-105	2 INSERT RETAINER RING	4 1/2"	3	3739	1.00	3
23-106	2 INSERT RETAINER RING	5"	3	3741	1.00	3
23-107	2 INSERT RETAINER RING	5 1/2"	3	3740	1.00	3
23-108	2 INSERT RETAINER RING	7"	3	3742	1.00	3
23-109	3 INSERT RETAINER SCREW & NUT	ALL	6	3737	.02	12
23-110	4 INSERT	SEE CHART				
23-111	5 HINGE PIN w/COTTER	ALL	2	2192	1.20	2
23-112	6 SAFETY FLEX HANDLE	ALL	3	N/A	4.00	3

*RECOMMENDED SPARE PARTS FOR 1 YEAR SERVICE

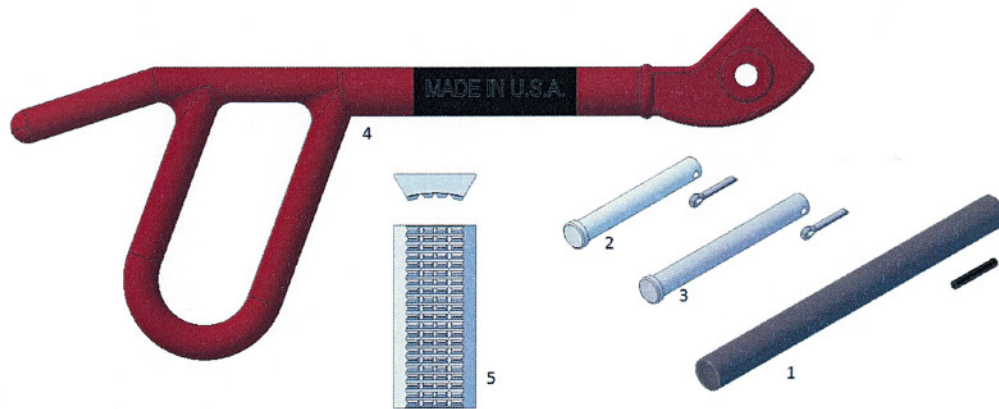
INSERTS FOR "SDML" & "SDXL" SLIPS

	SIZE	TYPE	REF.#	WT./SET (SDML/SDXL)
23-155	3 1/2" x 3 1/2"	BASIC	2162	10.00
23-156	3 1/2" x 2 7/8"	REDUCER	2161	15.00
23-157	3 1/2" x 2 3/8"	REDUCER	2160	20.00
23-158	4 1/2" x 4 1/2"	BASIC	2165	15.00 / 18.00
23-159	4 1/2" x 4"	REDUCER	2164	23.00 / 27.00
23-160	4 1/2" x 3 1/2"	REDUCER	2163	30.00 / 36.00
23-161	5" x 5"	BASIC	2167	15.00 / 18.00
23-162	5" x 4 1/2"	REDUCER	2166	23.00 / 27.00
23-163	5" x 4"	REDUCER	2168	30.00 / 36.00
23-164	5 1/2" x 5 1/2"	BASIC	2170	15.00 / 18.00
23-165	5 1/2" x 5"	REDUCER	2169	23.00 / 27.00
23-163	5 1/2" x 4 1/2"	REDUCER	2168	30.00 / 36.00
23-166	7" x 7"	BASIC	2173	20.00 / 26.00
23-167	7" x 6 5/8"	REDUCER	2172	25.00 / 41.00

TYPE "B" ROTARY SLIP

DESCRIPTION		WT.
19-450-F	RMET TYPE "B" ROTARY SLIP COMPLETE W/ FLEX HANDLES	134

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. It's standard size ranges from 2 1/16 to 4 1/2 and is used in API tapered bowls.



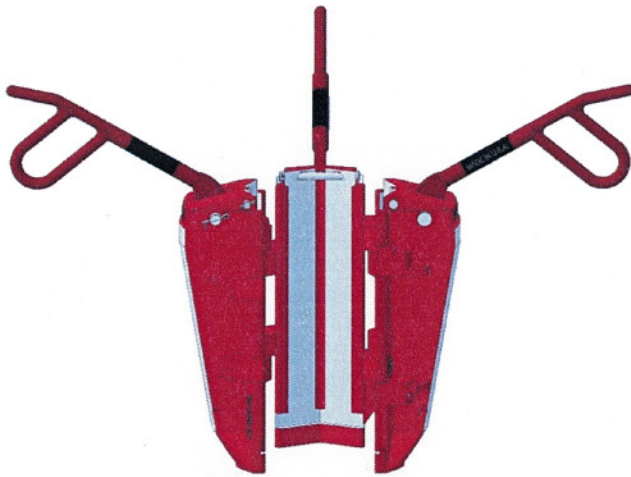
REPLACEMENT PARTS FOR RMET TYPE "B" ROTARY SLIPS

	ITEM#	DESCRIPTION	REF#	#REQ.	WT.
19-101	1	HINGE PIN	737-000-0500	2	1.12
19-102	N/P	RIGHT HANDLE	737-000-0300	1	5.35
19-103	2	HANDLE PIN	737-000-0400	3	.25
19-104	N/P	REAR HANDLE	737-000-0200	1	5.50
19-105	N/P	LEFT HANDLE	737-000-0100	1	5.35
19-106	3	INSERT RET. PIN	737-000-0600	3	.30
19-104-F	4	FLEX HANDLE	N/A	3	5.00
19-250	5	4-1/2" X 4-1/2"	757-044-0144	18/24	.85
19-251	5	4-1/2" X 4"	757-044-0140	18/24	1.20
19-252	5	4-1/2" X 3-1/2"	757-044-0134	18/24	1.75
19-253	5	4-1/2" X 2-7/8"	757-044-0127	18/24	2.00
19-254	5	4-1/2" X 2-3/8"	757-044-0123	18/24	2.15
19-255	5	4-1/2" X 2-1/16"	N/A	18/24	2.45

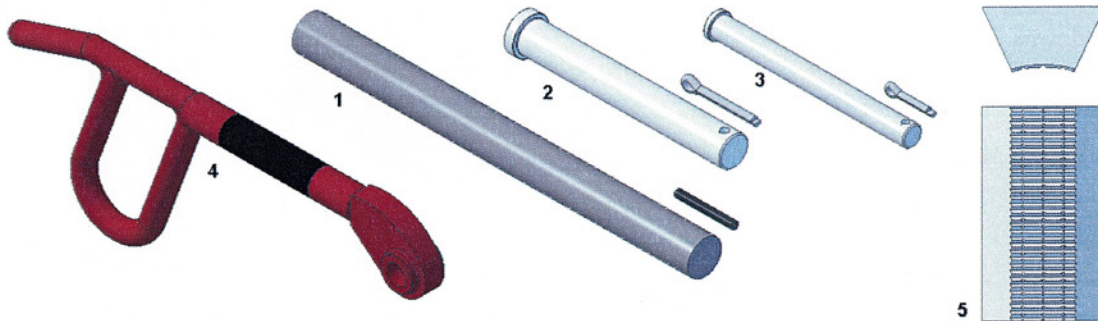
ALL "B" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

"XL" ROTARY SLIP

DESCRIPTION		WT.
19-500-XL-F	TYPE "XL" ROTARY SLIP COMPLETE W/ FLEX HANDLES	173



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. It's standard size ranges from 4" to 5" and is used in API tapered bowls.



REPLACEMENT PARTS FOR RMET "XL" ROTARY SLIP

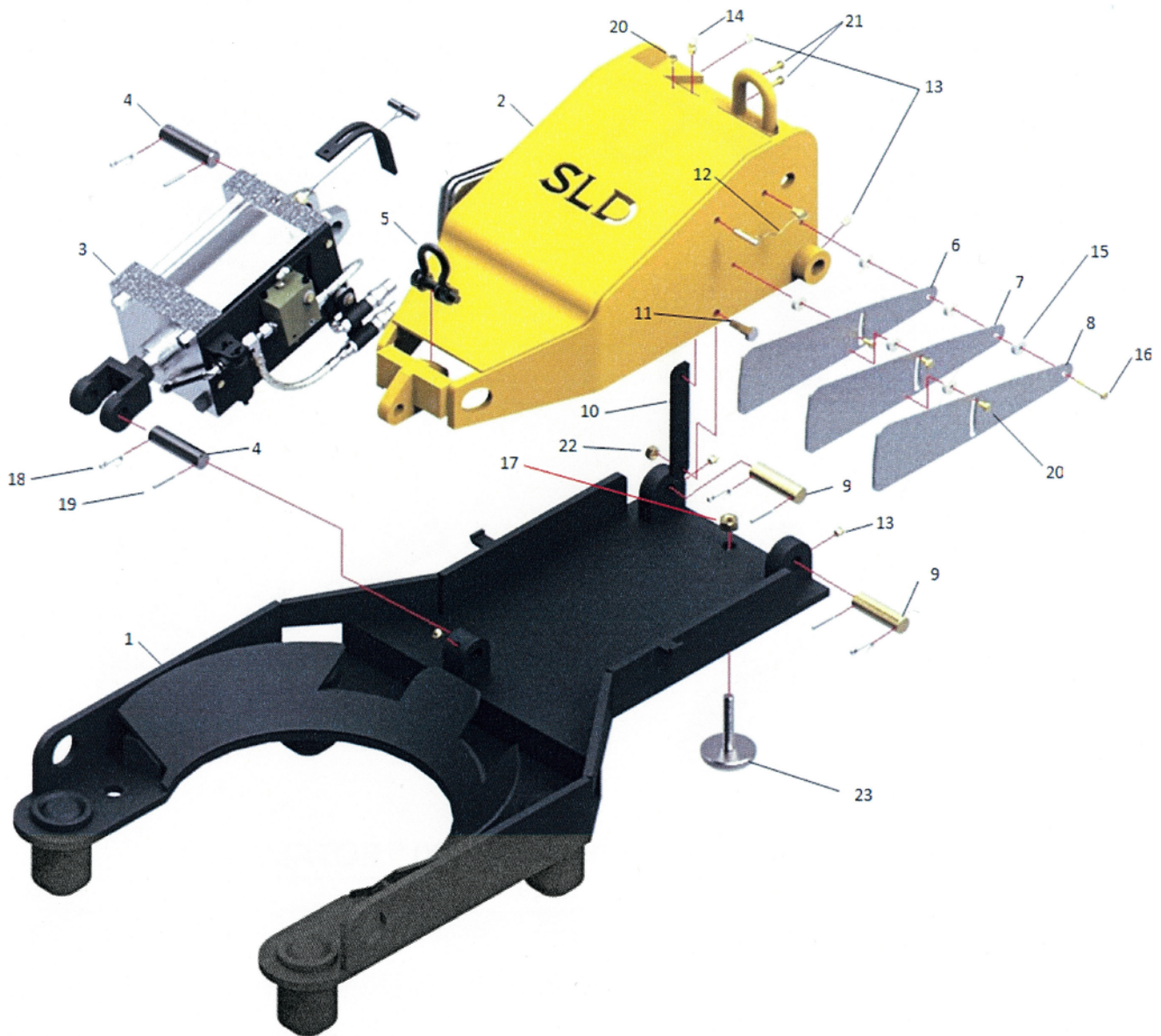
	ITEM#	DESCRIPTION	#REQ.	WT.
19-101-XL	1	HINGE PIN	2	1.00
19-103-XL	2	HANDLE PIN	3	.25
19-106-XL	3	INSERT RET. PIN	3	.30
19-104-XL-F	4	FLEX HANDLE	3	5.00
51-30	5	5" X 5"	24	.85
51-31	5	5" X 4 1/2"	24	1.20
51-32	5	5" X 4"	24	1.75

ALL "XL" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

AIR OPERATED SLIP LIFTING DEVICE (SLD)

DESCRIPTION

26-100-PD	"SLD AIR ACTUATOR – PIN DRIVE
26-100-SD	"SLD AIR ACTUATOR – SQUARE DRIVE



SPECIFICATIONS

PROPERTY	DESCRIPTION
MATERIAL	MILD STEEL
WEIGHT	260 LBS. (118KG) "SLD" ONLY W/O SLIP 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

AIR OPERATED SLIP LIFTING DEVICE (SLD)

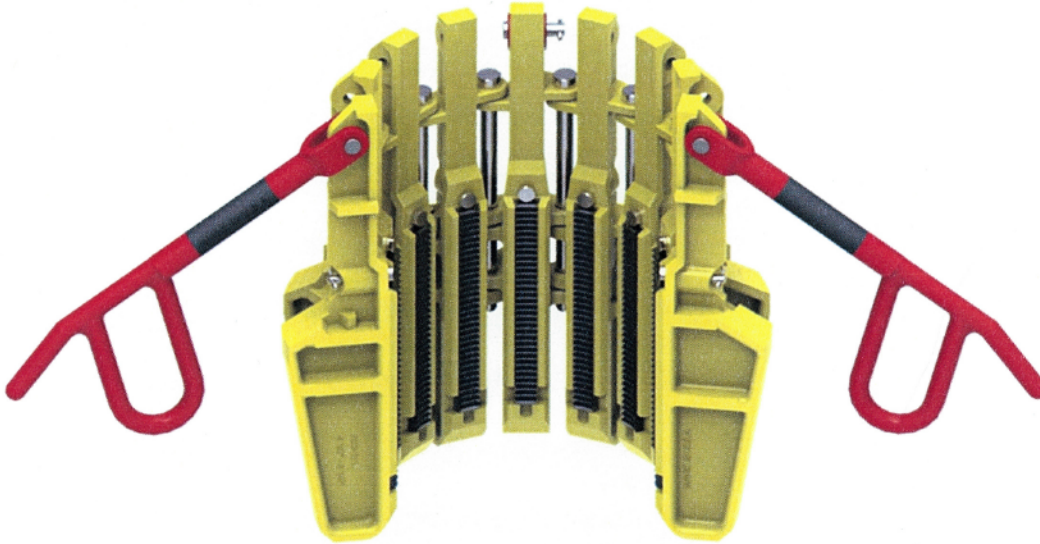
SLD PARTS LIST				
	ITEM#	DESCRIPTION	QTY	
26-145-PD	1	BASE PLATE FOR AIR OPERATED PIN DRIVE "SLD"	1	
26-145-SD	1	BASE PLATE FOR AIR OPERATED SQUARE DRIVE "SLD"	1	
26-165	2	LIFT ARM FOR AIR OPERATED "SLD"	1	
26-115	3	CYLINDER ASSEMBLY FOR AIR OPERATED "SLD"	1	
26-515-P	4	CYLINDER PIN FOR AIR OPERATED "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 1/2" 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 ADAPTOR 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 ADAPTOR 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

TYPE "A" DRILL COLLAR SLIP

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. All slip assemblies are supplied with safety flex handles as standard option.



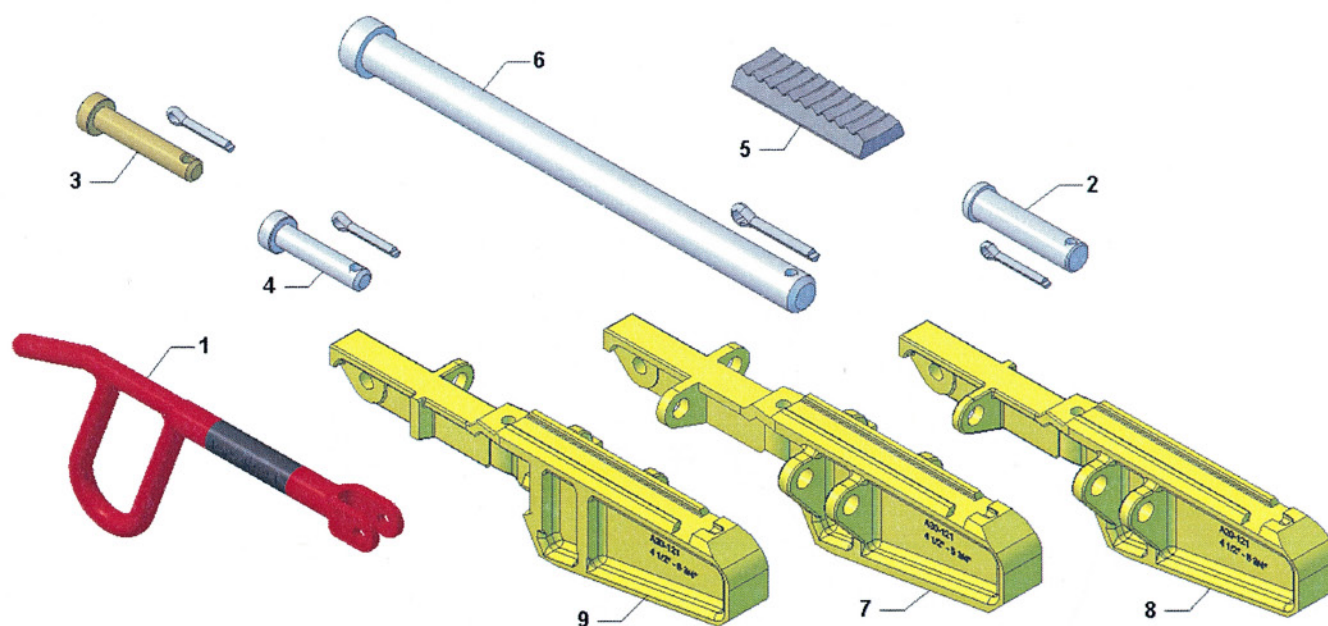
TYPE "TYPE A" DRILL COLLAR SLIPS COMPLETE

	DRILL COLLAR SIZE/SLIP RECESS	SEGMENT PART NO.	# OF SEGMENTS	WT.
20-111-F	3" - 4 1/4"	20-109	7	136
20-111-1-F	3 3/4" - 4 3/4"	20-138	8	128
20-112-F	4 1/2" - 5 3/4"	20-121	9	112
20-113-F	5 1/2" - 7"	20-125	10	117
20-114-F	6 3/4" - 8 1/4"	20-130	11	118
20-115-F	8 1/4" - 10"	20-134	12	120

ALL "A" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "A" DRILL COLLAR SLIPS

TYPE "A" DRILL COLLAR SLIP



REPLACEMENT PARTS FOR RMET TYPE "A" DRILL COLLAR SLIPS

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

"C-1" TYPE DRILL COLLAR SLIP

"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. For added safety, the RMET "C-1" Drill Collar Slip is also provided with safety flex handles as a standard option.



TYPE "C-1" DRILL COLLAR SLIPS COMPLETE

	DRILL COLLAR SIZE/SLIP RECESS	SEGMENT PART NO.	# OF SEGMENTS	WT.
08-111-F	3" - 4 1/2"	08-108	8	112
08-112-F	4 1/4" - 5 3/4"	08-121	10	122
08-113-F	5 1/2" - 7"	08-125	12	134
08-114-F	6 3/4" - 8 1/4"	08-130	12	118
08-115-F	8 1/2" - 10"	08-134	12	98
08-116-F*	10" - 11 1/4"	08-130	17	15.
08-117-F **	11 1/4" - 12 3/4"	08-125	19	210

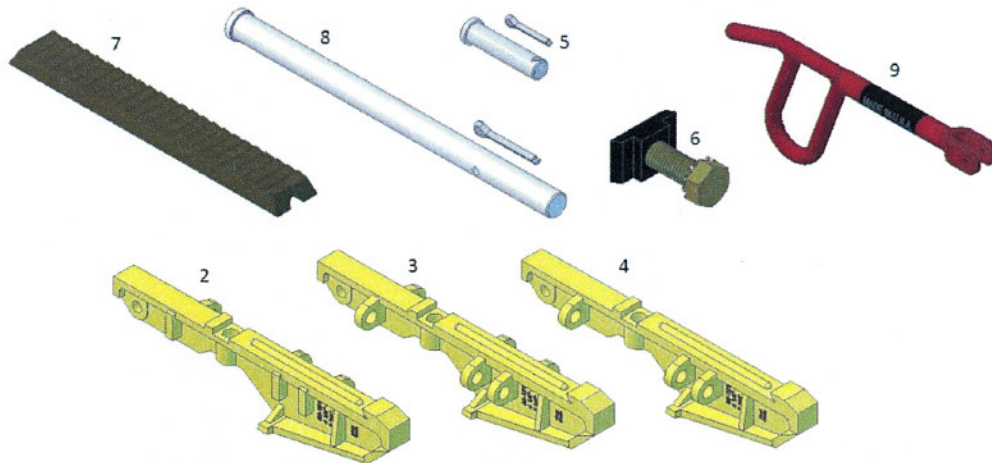
ALL "C-1" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

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

*** FITS NO. 2 INSERT BOWL**

**** FITS NO. 1 INSERT BOWL**

"C-1" TYPE DRILL COLLAR SLIP

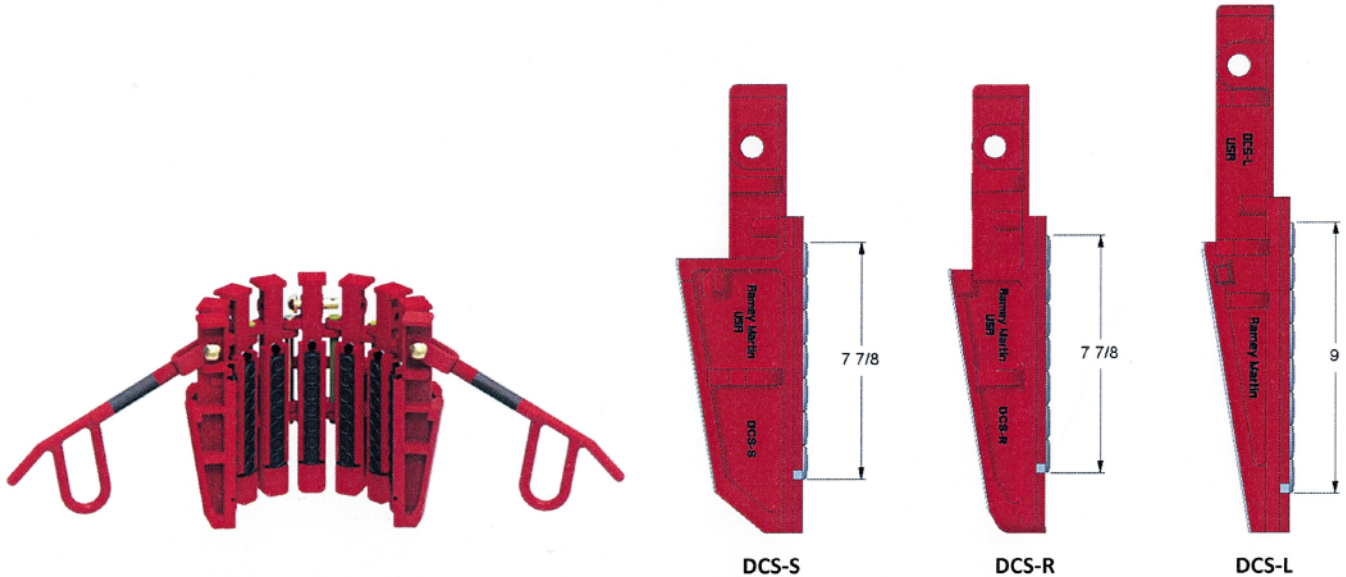


REPLACEMENT PARTS FOR "C-1" DRILL COLLAR SLIPS

ITEM#	DESCRIPTION	SPARES	SIZE	#REQ.	REF.#	WT.
08-102	N/P HANDLE	3	3" - 10"	3	7638-A-78	2.50
08-102	N/P HANDLE	4	10" - 12 3/4"	4	7638-A-78	2.50
08-107	2 BODY SEGMENT (RIGHT HAND)		3" - 4 1/2"	1	7638-5099-11	10.75
08-120	2 BODY SEGMENT (RIGHT HAND)		4 1/4" - 5 3/4"	1	7638-5100-11	9.25
08-124	2 BODY SEGMENT (RIGHT HAND)		5 1/2" - 7"	1	7638-5101-11	8.25
08-129	2 BODY SEGMENT (RIGHT HAND)		6 3/4" - 8 1/4"	1	7638-5102-11	7.00
08-133	2 BODY SEGMENT (RIGHT HAND)		8 1/2" - 10"	1	7638-5103-11	5.75
08-129	2 BODY SEGMENT (RIGHT HAND)		10" - 11 1/4"	1	7638-5102-11	7.00
08-124	2 BODY SEGMENT (RIGHT HAND)		11 1/4" - 12 3/4"	1	7638-5101-11	8.25
08-108	3 BODY SEGMENT (INTERMEDIATE)		3" - 4 1/2"	6	7638-5099-10	10.75
08-121	3 BODY SEGMENT (INTERMEDIATE)		4 1/4" - 5 3/4"	8	7638-5100-10	9.25
08-125	3 BODY SEGMENT (INTERMEDIATE)		5 1/2" - 7"	10	7638-5101-10	8.25
08-130	3 BODY SEGMENT (INTERMEDIATE)		6 3/4" - 8 1/4"	10	7638-5102-10	7.00
08-134	3 BODY SEGMENT (INTERMEDIATE)		8 1/2" - 10"	10	7638-5103-10	5.75
08-130	3 BODY SEGMENT (INTERMEDIATE)		10" - 11 1/4"	15	7638-5102-10	7.00
08-125	3 BODY SEGMENT (INTERMEDIATE)		11 1/4" - 12 3/4"	17	7638-5101-10	8.25
08-109	4 BODY SEGMENT (LEFT HAND)		3" - 4 1/2"	1	7638-5099-12	10.75
08-122	4 BODY SEGMENT (LEFT HAND)		4 1/4" - 5 3/4"	1	7638-5100-12	9.25
08-126	4 BODY SEGMENT (LEFT HAND)		5 1/2" - 7"	1	7638-5101-12	8.25
08-131	4 BODY SEGMENT (LEFT HAND)		6 3/4" - 8 1/4"	1	7638-5102-12	7.00
08-135	4 BODY SEGMENT (LEFT HAND)		8 1/2" - 10"	1	7638-5103-12	5.75
08-131	4 BODY SEGMENT (LEFT HAND)		10" - 11 1/4"	1	7638-5102-12	7.00
08-126	4 BODY SEGMENT (LEFT HAND)		11 1/4" - 12 3/4"	1	7638-5101-12	8.25
08-103	5 HANDLE PIN w/COTTER	1	3" - 10"	3	7638-E-2	.15
08-103	5 HANDLE PIN w/COTTER	2	10" - 12 3/4"	4	7638-E-2	.15
08-104	6 LINER KEEPER w/BOLT & WASHER	4	3" - 4 1/2"	8	7638-5113	1.00
08-104	6 LINER KEEPER w/BOLT & WASHER	5	4 1/4" - 5 3/4"	10	7638-5113	1.00
08-104	6 LINER KEEPER w/BOLT & WASHER	6	5 1/2" - 10"	12	7638-5113	1.00
08-104	6 LINER KEEPER w/BOLT & WASHER	8	10" - 11 1/4"	17	7638-5113	1.00
08-104	6 LINER KEEPER w/BOLT & WASHER	9	11 1/4" - 12 3/4"	19	7638-5113	1.00
08-105	7 RENEWABLE LINER		3" - 12 3/4"		7638-116	1.00
08-101	8 HINGE PIN w/COTTER	3	3" - 4 1/2"	7	7638-B-59	1.15
08-101	8 HINGE PIN w/COTTER	3	4 1/4" - 5 3/4"	9	7638-B-59	1.15
08-101	8 HINGE PIN w/COTTER	3	5 1/2" - 8 1/4"	11	7638-B-59	1.15
08-106	8 HINGE PIN w/COTTER	3	8 1/2" - 10"	11	7638-B-59	.85
08-101	8 HINGE PIN w/COTTER	4	10" - 11 1/4"	16	7638-B-59	1.15
08-101	8 HINGE PIN w/COTTER	4	11 1/4" - 12 3/4"	18	7638-B-59	1.15
08-136	9 SAFETY FLEX HANDLE		ALL	A/R	N/A	5.00

"DCS" DRILL COLLAR SLIPS

"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. For added safety, the RMET "DCS" Type Drill Collar Slip is also provided with safety flex handles as a standard option.



RMET "DCS" DRILL COLLAR SLIPS COMPLETE

	DRILL COLLAR SIZE/ SLIP RECESS	TYPE SLIP	TOTAL SEGMENTS	WT.
16-120-F	3" - 4"	DCS-S	7	112
16-121-F	4" - 4 7/8"	DCS-S	7	103
16-122-F	4 1/2" - 6"	DCS-R	9	120
16-123-F	5 1/2" - 7"	DCS-R	9	112
16-125-F	5 1/2" - 7"	DCS-L	11	172
16-126-F	6 3/4" - 8 1/4"	DCS-L	11	154
16-127-F	8" - 9 1/2"	DCS-L	12	173
16-128-F	8 1/2" - 10"	DCS-L	13	185
16-129-F	9 1/4" - 11 1/4"	DCS-L	14	198
16-130-F	11" - 12 3/4"	DCS-L	17	213
16-131-F	12" - 14"	DCS-L	17	207

ALL "DCS" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

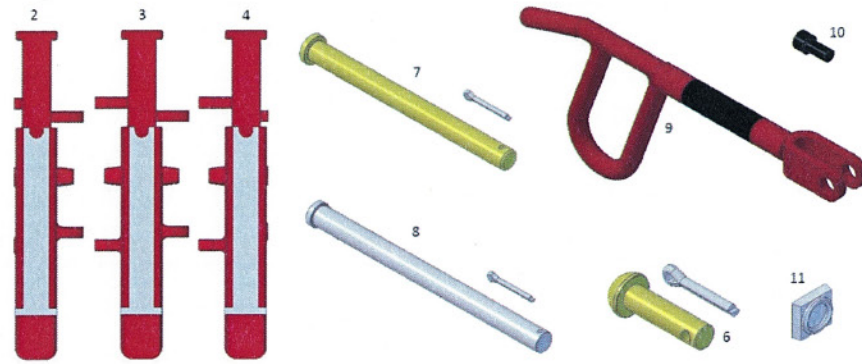
NOTE: SLIP SIZES 3" - 9 1/2" FOR USE IN API OR #3 BOWL

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

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

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN "DCS" TYPE
DRILL COLLAR SLIPS

“DCS” DRILL COLLAR SLIPS



REPLACEMENT PARTS FOR RMET “DCS” DRILL COLLAR SLIPS

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

* RECOMMENDED SPARE PARTS FOR 1 YEAR OF OPERATION

** VARIES DEPENDING ON SLIP SIZE

BUTTON AND CROSS REF. INSERTS F/ RMET “DCS” DRILL COLLAR SLIP

	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

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN “DCS” DRILL COLLAR SLIPS

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

"UC-3" CASING SLIPS

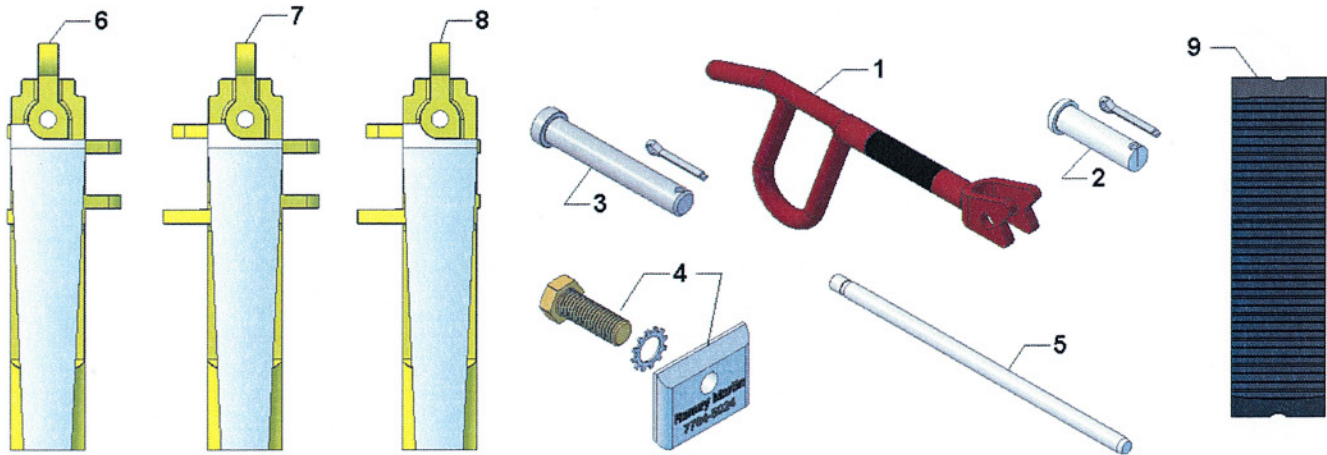
"UC-3" Type Casing Slip has a 3" taper designed with a single liner per segment and a liner keeper assembly with bolt and washer. It has a size range of 9-5/8" through 42" and is accomplished with 2 sizes of slips 9-5/8" through 10-3/4" and 13 3/8" through 42". The inserts are a continuous one piece design with approximately 8 1/2" of contact length. For added safety, the RMET "UC-3" Casing Slip is also provided with safety flex handles as a standard option with steel handles available upon request.



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

ALL "UC-3" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

"UC-3" CASING SLIPS



REPLACEMENT PARTS FOR "UC-3" CASING SLIPS

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 UC-3 & UC-4 CASING SLIPS

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

TYPE "CMS" CASING SLIPS

"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, then machined to strict quality controlled standards. For added safety, the RMET "CMS" Casing Slip is also provided with safety flex handles as a standard option with steel handles available upon request.



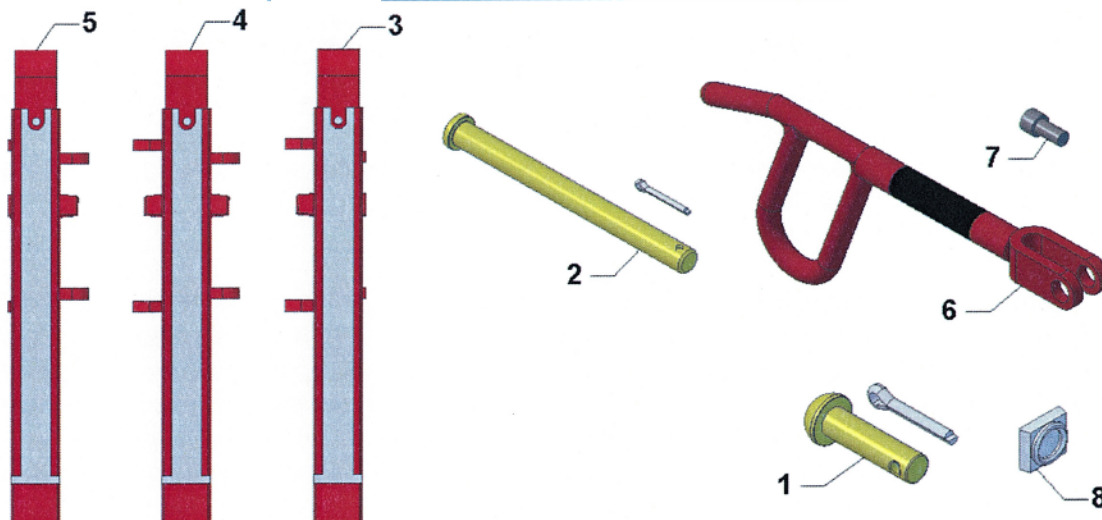
"CMSXL" CASING SLIPS COMPLETE

	CASING O.D.	WT. COMP.	TOTAL SEG.	HINGE PINS	BUTTON# - QTY
14-111-F	6 5/8"	196	12	11	2628-144
14-112-F	7"	184	12	11	2619-144
14-113-F	7 5/8"	166	12	11	2630-144
14-114-F	8 5/8"	181	13	12	2630-156
14-115-F	9 5/8"	192	14	13	2630-168
14-116-F	10 3/4"	209	15	14	2630-180
14-117-F	11 3/4"	260	17	16	2627-204
14-118-F	13 3/8"	247	18	17	2630-216
14-119-F	16"	308	21	20	2631-252
14-120-F	18 5/8"	367	25	24	2626-300
14-121-F	20"	383	26	25	2631-312
14-122-F	24"	443	30	29	2631-360
14-123-F	26"	486	33	32	2631-396
14-124-F	30"	546	37	36	2631-444

ALL "CMS-XL" TYPE SLIPS ARE AVAILABLE WITH STEEL HANDLES UPON REQUEST

NOTE: ALL SLIPS 9 5/8" AND LARGER ARE FURNISHED WITH 4 OR MORE HANDLES.
ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "CMSXL" CASING SLIPS.
ALL PARTS ARE INTERCHANGEABLE W/"CMSXL" EXCEPT SEGMENTS

TYPE "CMS" CASING SLIPS



REPLACEMENT PARTS FOR "CMS" & "CPS" SLIPS

	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	7	BUTTON RETAINER SCREW	N/A		.05
	8	BUTTON INSERTS (SEE TABLE ABOVE)	N/A		VARIES
14-104	N/P	FRONT HANDLE	3765	2	3.50
14-103	N/P	REAR HANDLE	3766	1	4.00
14-109	N/P	HINGE SPACER	11944		4.00

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "CMSXL" SLIPS

**RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION

*FOR RECOMMENDED SPARES INCLUDE 1 SET OF INSERTS FOR EACH PIPE SIZE

RMET "CPS" CONDUCTOR PIPE SLIPS

	PIPE O.D.	WT. COMPLETE	TOTAL SEGMENTS	HINGE SPACERS	INSERTS
14-244	24"	276	13	12	2631-156
14-266	26"	296	14	13	2631-168
14-330	30"	319	16	15	2631-192

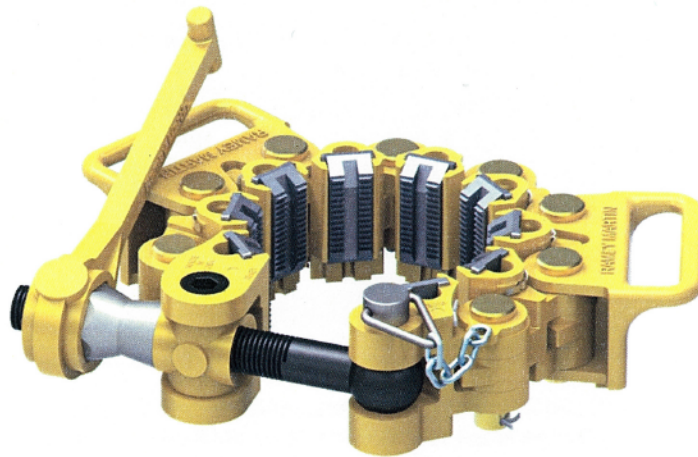
NOTE: ALL PARTS ARE INTERCHANGEABLE WITH "CMSXL" SLIP

TYPE "C" SAFETY CLAMP

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)

	RANGE O.D. SIZE	LINKS REQUIRED	WT.
12-127	3 3/4" - 4 5/8"	7	45.00
12-128	4 1/2" - 5 5/8"	8	54.00
12-129	5 1/2" - 6 5/8"	9	60.00
12-130	6 1/2" - 7 5/8"	10	63.00
12-131	7 1/2" - 8 5/8"	11	68.00
12-132	8 1/2" - 9 5/8"	12	72.00
12-133	9 1/2" - 10 5/8"	13	87.00

TYPE "C" SAFETY CLAMP

TYPE "CL" (SINGLE SCREW)

PART#	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 "C X L" (DOUBLE SCREW)

PART#	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

CLAMPS WITH LIFTING CLEVIS

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

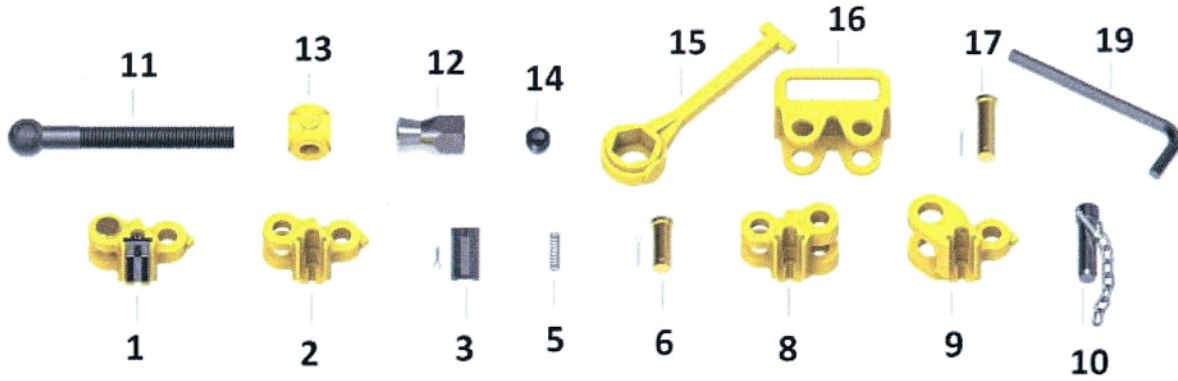
PART#	RANGE O.D. SIZE	LINKS REQUIRED	WT.
12-150	10 1/2" - 11 5/8"	14	83.00
12-151	11 1/2" - 12 5/8"	15	88.00
12-152	12 1/2" - 13 5/8"	16	93.00
12-153	13 1/2" - 14 5/8"	17	98.00
12-154	14 1/2" - 15 5/8"	18	102.00

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

PART#	RANGE O.D. SIZE	LINKS REQUIRED	WT.
12-155	15 1/2" - 17"	18	112.00
12-156	16 1/2" - 18"	19	117.00
12-157	17 1/2" - 19"	20	122.00
12-158	18 1/2" - 20"	21	127.00
12-159	19 1/2" - 21"	22	132.00
12-160	21 1/8" - 23"	24	.00
12-161	24 1/8" - 26"	27	.00
12-162	29 1/2" - 31"	32	182.00
12-163	35 1/2" - 37"	38	212.00
12-164	41 1/2" - 47"	44	242.00

ADD -"B" TO END OF PART # TO INCLUDE BOX
ALL CLAMPS COME COMPLETE WITH WRENCH

TYPE "C" SAFETY CLAMP



REPLACEMENT PARTS FOR TYPE "C" SAFETY CLAMP

	ITEM	DESCRIPTION	**SPARES	WT.
12-101	1	LINK ASSY. COMPLETE		5.00
12-102	2	LINK INTERMEDIATE	6	3.75
12-103	3	INSERT w/COTTER	1 SET	.50
12-104		COTTER f/INSERT		.06
12-105	5	SPRING f/INSERT	1 SET	.06
11-106	6	LINK PIN w/COTTER	6	.75
11-107		COTTER f/LINK PIN		.06
12-108	8	END LINK (SCREW)		4.50
12-109	9	END LINK (PIVOT BLOCK)		3.50
11-110	10	END LINK PIN w/CHAIN	1	1.25
11-111	11	SCREW		4.00
11-112	12	NUT		1.50
11-113	13	PIVOT BLOCK		1.50
11-114	14	PIVOT BLOCK PIN		.25
11-115	15	NUT WRENCH		3.50
12-116	16	HANDLE (CAST STEEL)		3.00
11-117	17	HANDLE LINK PIN w/COTTER		.75
12-118	N/P	HANDLE KIT		4.00
11-119	19	PIVOT BLOCK PIN WRENCH		.25
11-120	N/P	SAFETY CLAMP BOX		20.00
12-119	21/22	LIFTING CLEVIS COMPLETE		15.00
12-120	21	LIFTING CLEVIS ONLY		9.00
12-121	22	BOLTS W/NUTS AND COTTERS		2.50

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "C" SAFETY CLAMPS

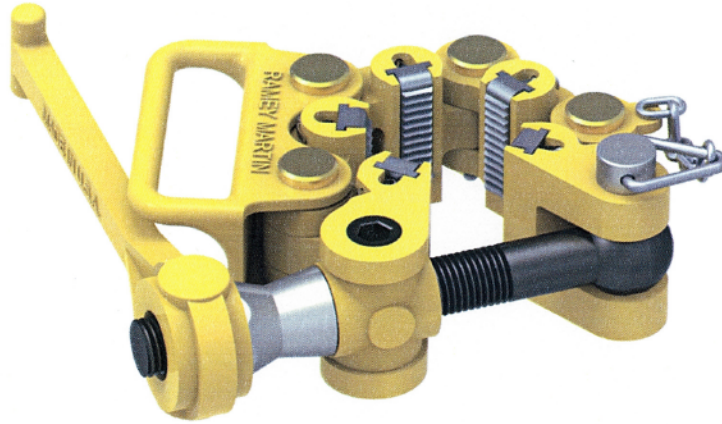
** RECOMMENDED SPARE PARTS FOR 1 YEARS SERVICE

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TYPE "T" SAFETY CLAMP

Type "T" Safety Clamp is designed for small diameter pipe 1 1/8" – 4 1/2" O.D. Each link changes the effective 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 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 other applications.



TYPE "T" SAFETY CLAMP ASSEMBLIES COMPLETE

†	RANGE O.D. SIZE	REFERENCE	LINKS REQUIRED	WT.
11-125	1 1/8" - 2"	7624-5103	4	35.00
11-126	2 1/8" - 3 1/4"	7624-5104	5	39.00
11-127	3 1/2" - 4 1/2"	7624-5105	6	43.00

ADD –"B" TO END OF PART NUMBER TO INCLUDE BOX
ALL CLAMPS COME COMPLETE WITH WRENCH

----- TYPE "T" SAFETY CLAMP



REPLACEMENT PARTS FOR TYPE "T" SAFETY CLAMP

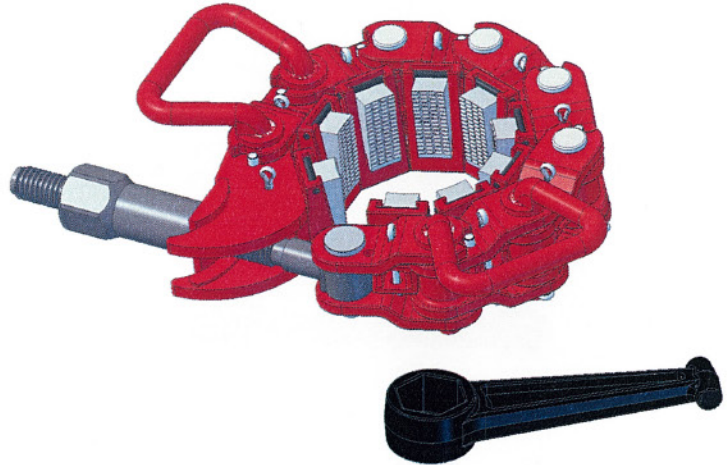
-----	ITEM	DESCRIPTION	**SPARES	WT.
11-101	1	LINK ASSY. COMPLETE		4.25
11-102	2	LINK INTERMEDIATE	3	3.25
11-103	3	INSERT w/COTTER	6	.25
11-104		COTTER f/INSERT		.06
11-105	5	SPRING f/INSERT	6	.06
11-106	6	LINK PIN w/COTTER	3	.75
11-107		COTTER f/LINK PIN		.06
11-108	8	END LINK (SCREW)		4.50
11-109	9	END LINK (PIVOT BLOCK)		3.50
11-110	10	END LINK PIN w/CHAIN	1	1.25
11-111	11	SCREW		4.00
11-112	12	NUT		1.50
11-113	13	PIVOT BLOCK		1.50
11-114	14	PIVOT BLOCK PIN		.25
11-115	15	NUT WRENCH		3.50
11-116	16	HANDLE (CAST STEEL)		3.00
11-117	17	HANDLE LINK PIN w/COTTER		.75
11-118	N/P	HANDLE KIT		4.00
11-119	19	PIVOT BLOCK PIN WRENCH		.12
11-120	N/P	SAFETY CLAMP BOX		20.00
11-121	N/P	1 YEAR SPARE PARTS KIT	1	13.00

ALL PARTS ARE INTERCHANGEABLE WITH CORRESPONDING DESIGN TYPE "T" SAFETY CLAMPS

** RECOMMENDED SPARE PARTS FOR 1 YEARS SERVICE

TYPE "MP" SAFETY CLAMPS

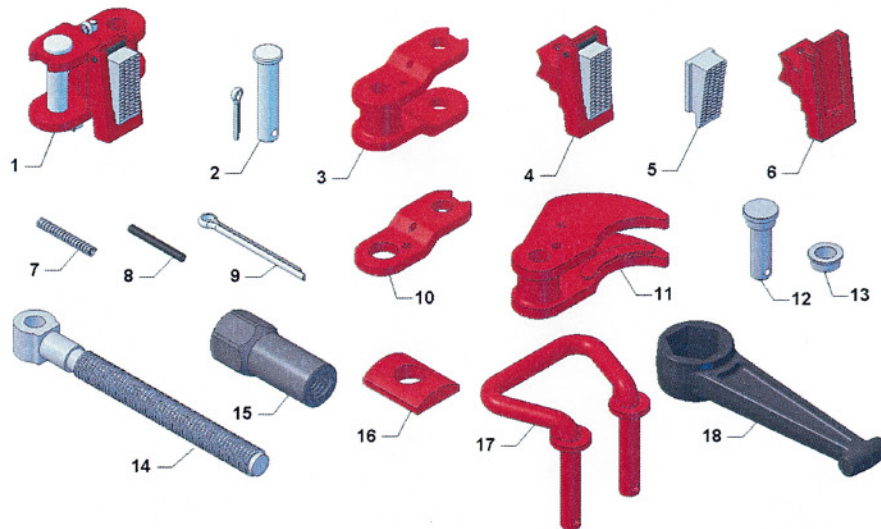
Type "MP" Safety Clamp is ideal to help safeguard against dropping strings of flush joint tubing while making up or breaking out the string. The multi-link design provides uniform pressure around the pipe reducing the risk of crushing or damaging the pipe. Each assembly is provided with its own aluminum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



TYPE "MP" SAFETY CLAMP ASSEMBLIES COMPLETE

	RANGE	REF#	# LINKS	GRIPPING DIES	WT.
MP-S					
31-009	2 7/8" - 4 1/8"	33030	7	8	128.00
31-010	4" - 5"	33031	8	9	133.00
MP-R					
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
MP-M					
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
MP-L					
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
MP-XL					
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

TYPE "MP" SAFETY CLAMPS



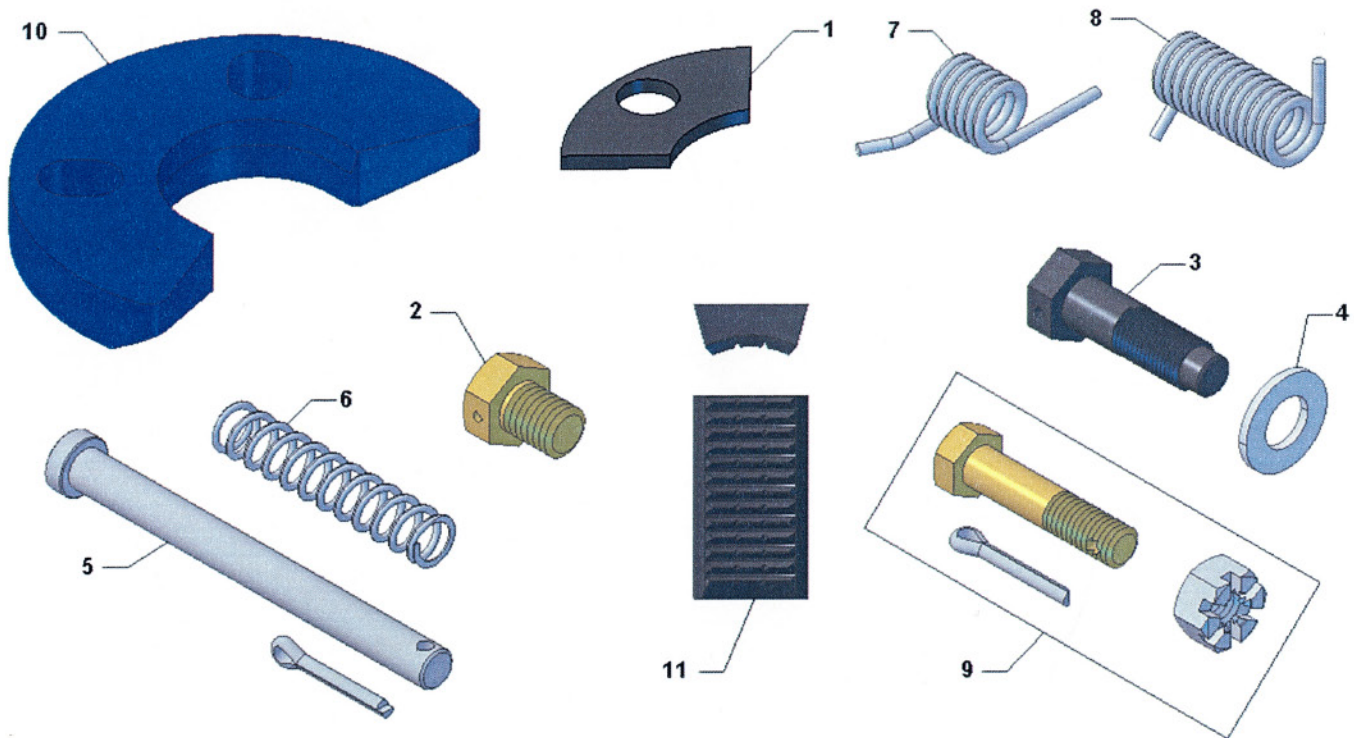
REPLACEMENT PARTS FOR "MP" TYPE SAFETY CLAMPS

PART#	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

RECOMMENDED SPARE PARTS FOR 1 YEAR FOR "MP" TYPE CLAMPS

PART#	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

"LYT" SLIP TYPE ELEVATOR



REPLACEMENT PARTS FOR "LYT" SLIP TYPE ELEVATOR

	ITEM#	DESCRIPTION	#REQ.	WT.
28786	1	INSERT RETAINER PLATE	4	.13
28787	2	INSERT RETAINER SCREW	2	.13
28785	3	SETTING PLATE BOLT	2	.25
339369-13	4	SETTING PLATE WASHER	2	.06
28760	5	SLIP BOLT	4	.25
28761	6	SLIP SPRING	4	.04
32486	7	LATCH SPRING	1	.08
28769	8	LATCH LOCK SPRING	1	.12
28764-1	9	LINK BLOCK BOLT KIT	4	.20

SETTING PLATES

	ITEM#	DESCRIPTION	#REQ.	WT.
28782	10	2 1/16" SETTING PLATE	1	2.25
28737	10	2" SETTING PLATE	1	2.35
28783	10	1 1/2" (1.900") SETTING PLATE	1	3.00
28784	10	1 1/4" (1.660") SETTING PLATE	1	3.10
28736	10	1" (1.315") SETTING PLATE	1	3.15
28735	10	3/4" (1.050") SETTING PLATE	1	3.20

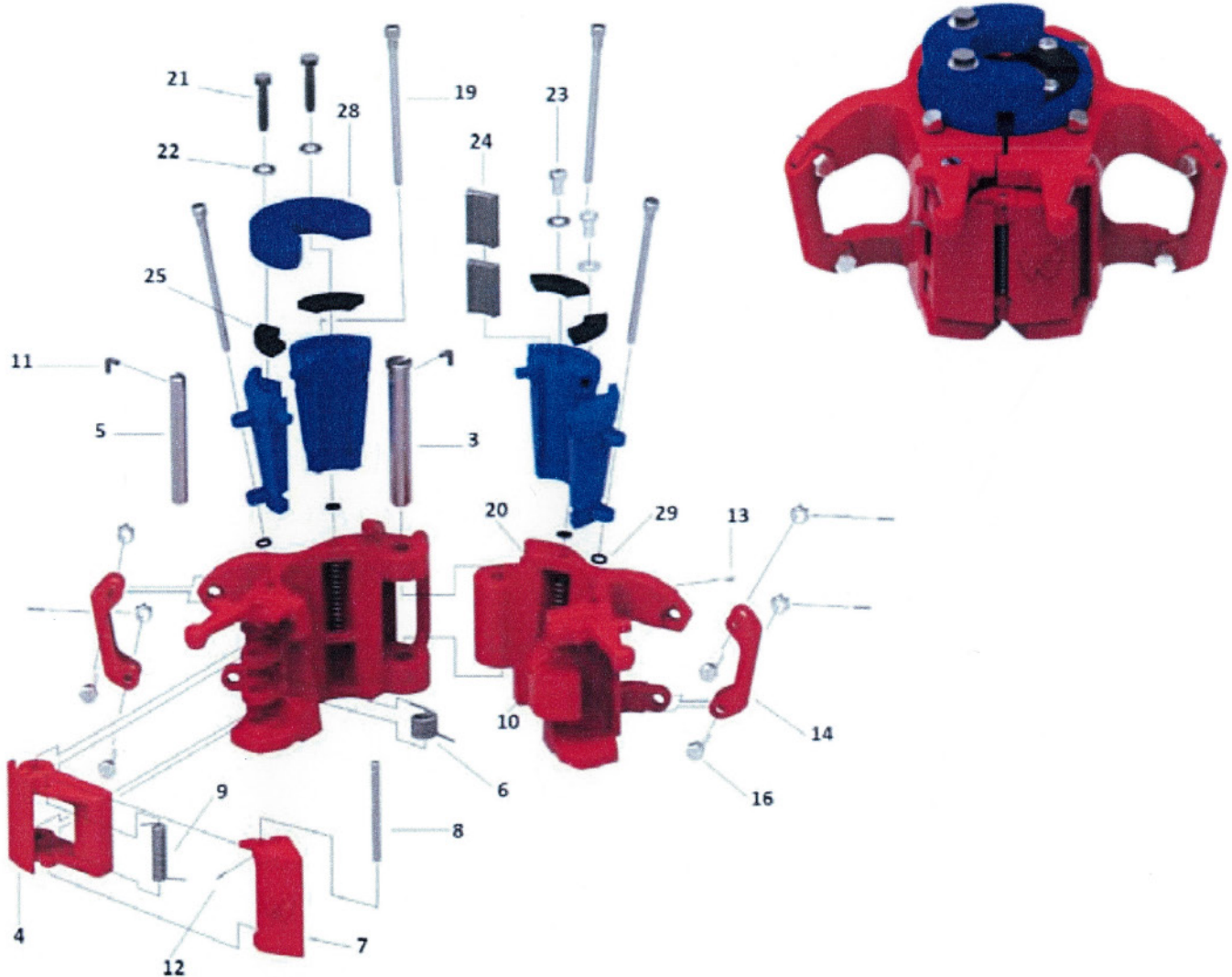
INSERTS

	ITEM#	DESCRIPTION	#REQ.	WT.
28772	11	2 1/16" & 2" LYT INSERT	8	.25
28775	11	1 1/2" (1.900") LYT INSERT	8	.25
28778	11	1 1/4" (1.660") LYT INSERT	8	.25
28749	11	1" (1.315") LYT INSERT	8	.25
29370	11	3/4" (1.050") LYT INSERT	8	.25

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40 TON MYT SLIP TYPE ELEVATOR

	DESCRIPTION	LINK SIZE	WT.
29328	MYT ELEVATOR COMPLETE LESS SLIP ASSEMBLY.	1 1/4" - 2 3/4"	148.00



MYT SLIP ASSEMBLIES

	DESCRIPTION	WT.
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
29343-10-S	2 7/8" MYT SLIP SEGMENTS ONLY (MATCHED SET OF 4)	31.00

40 TON MYT SLIP TYPE ELEVATOR

MYT REPLACEMENT PARTS

	ITEM#	DESCRIPTION	**SPARES	# REQ.	WT.
29333	3	HINGE PIN		1	4.00
30652	4	LATCH		1	10.00
29334	5	LATCH PIN		1	4.00
29338	6	LATCH SPRING	2	1	.50
30653	7	LATCH LOCK		1	2.00
29335	8	LATCH LOCK PIN	2	1	.50
29349	9	LATCH LOCK SPRING	2	1	.25
30841	10	LATCH LOCK DOOR PIN		1	.50
947128-120	11	LATCH PIN RETAINER	2	1	1.50
947128-172	12	LATCH LOCK PIN RETAINER	2	1	.50
940308-1	13	GREASE FITTING		1	.10
30708	N/P	LATCH & LATCH LOCK ASSY.		1	12.88
29337	14	LINK BLOCK		2	1.00
29359	15	USE P/N E939009-65		2	.13
939009-65	16	UPPER & LOWER LINK BLOCK PIN	2	2	.45
939484-7	17	LINK BLOCK NUT	2	2	.20
939672-18	18	COTTER PIN	2	2	.10
29336	19	SLIP BOLT	4	4	.75
29340	20	SLIP SPRING	8	4	.25
29347	21	SETTING RING SCREW	4	2	.25
939370-13	22	SETTING PLATE WASHER	4	2	.06
939098-15	23	INSERT RETAINER SCREW	4	2	.13
29344	25	INSERT RETAINER PLATE	4		.50

MYT INSERTS

	ITEM#	DESCRIPTION	#REQ	WT.
24773	24	2 7/8" X 2 7/8" INSERT	8	.75
29255	24	2 7/8" X 2 3/8" INSERT	8	1.00
29256	24	2 7/8" X 2 1/16" & 2" INSERT	8	1.13
29257	24	2 7/8" X 1 1/2" (1.900") INSERT	8	1.25
29258	24	2 7/8" X 1 1/4" (1.660") INSERT	8	1.38
29259	24	2 7/8" X 1" (1.315") INSERT	8	1.44
29259-1	24	2 7/8" X 3/4" (1.050") INSERT	8	1.50

RECOMMENDED SPARES INCLUDE 2 SETTING RINGS FOR EACH PIPE SIZE TO BE RUN

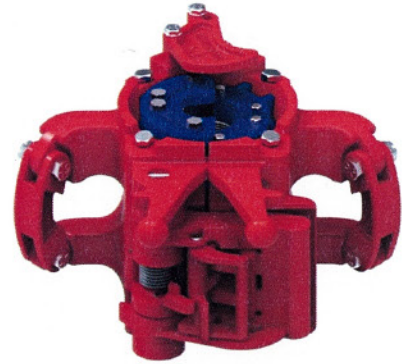
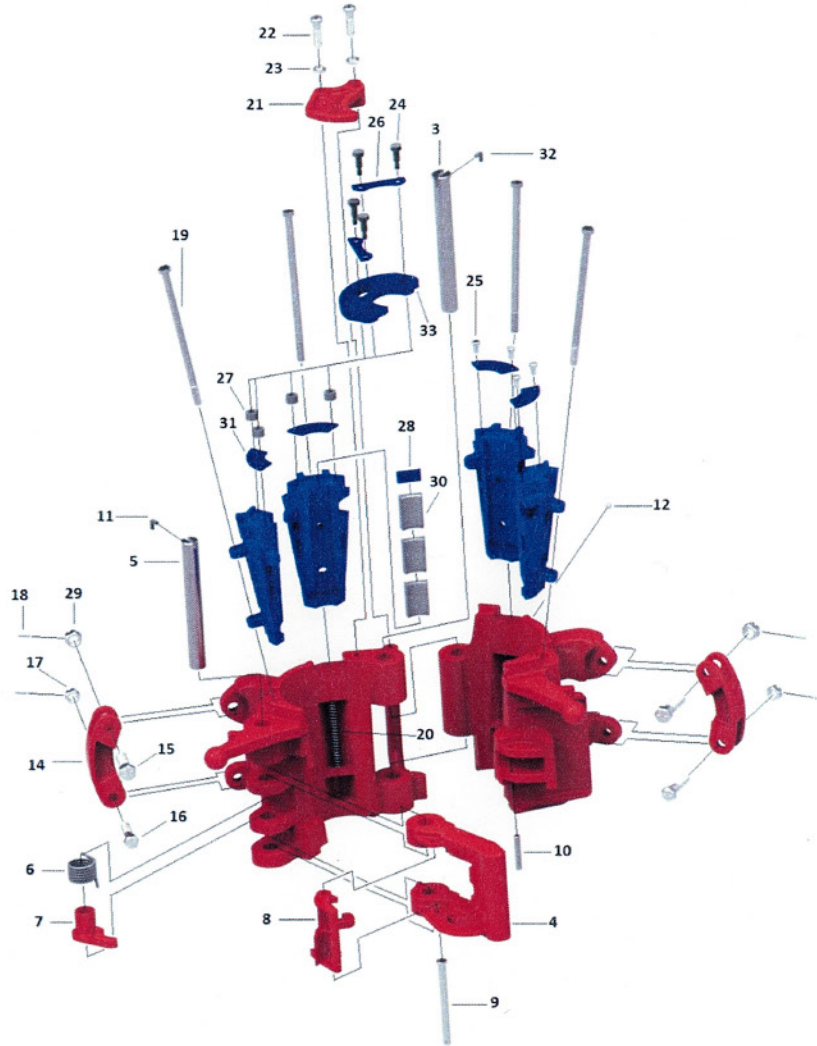
MYT SETTING RINGS

	ITEM#	DESCRIPTION	WT.
29348	28	2 7/8" MYT SETTING RING	6.50
29345	28	2 3/8" MYT SETTING RING	6.63
29350	28	2 1/16" MYT SETTING RING	7.00
29352	28	1 1/2" (1.900") SETTING RING	7.35
29353	28	1 1/4" (1.660") MYT SETTING RING	7.50
29354	28	1" (1.315") MYT SETTING RING	7.90
29354-1	28	3/4" (1.050") MYT SETTING RING	8.05

RECOMMENDED SPARES INCLUDE 2 SETTING RINGS FOR EACH PIPE SIZE TO BE RUN

YT 75 TON SLIP TYPE ELEVATOR

	DESCRIPTION	SIZE OF LINKS	WT.
23105	YT ELEVATOR COMPLETE LESS SLIP ASSY.	2 1/4" - 2 3/4"	355.00



YT SLIP ASSEMBLIES

	DESCRIPTION	WT.
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
23108-4	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" (2.000") 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
23108-2	2 7/8" YT SLIP SEGMENTS ONLY (MATCHED SET OF 4)	51.00

----- YT 75 TON SLIP TYPE ELEVATOR

YT REPLACEMENT PARTS

-----	ITEM#	DESCRIPTION	**SPARES	#REQ.	WT.
23116-1	3	HINGE PIN		1	4.13
15348	4	LATCH		1	27.00
24182	5	LATCH PIN		1	5.00
12978	6	LATCH SPRING	2	1	.63
12946	7	LATCH CAM		1	1.50
12972	8	LATCH LOCK		1	3.50
13530	9	LATCH LOCK PIN	2	1	.63
12529	10	DOOR LUG PIN		1	.65
29464	11	LATCH PIN RETAINER	2	1	.20
940308-1	12	GREASE FITTING		1	.10
940308-8	13	GREASE FITTING		1	.10
9519	14	LINK BLOCK		2	5.50
8145-1	15	UPPER LINK BLOCK BOLT ASSEMBLY		2	.50
8145-2	16	LOWER LINK BLOCK BOLT ASSEMBLY	2	2	1.19
8150	17	LOWER LINK BLOCK NUT	2	2	.25
939672-19	18	COTTER PIN	2	2	.10
23115	19	SLIP BOLT	4	4	1.25
23115-1	19	SLIP BOLT	4	4	1.25
23113	20	SLIP SPRING	8	4	.25
23630	21	GUIDE PLATE		1	4.00
939098-75	22	GUIDE PLATE SCREW	2	2	.25
939352-64	23	GUIDE PLATE LOCKWASHER	2	2	.15
27697	24	SETTING PLATE BOLT	8	4	.25
27532	25	INSERT RETAINER SCREW	8	4	.06
27546	26	SETTING RING RETAINER (3 1/2")	2	2	.13
27507	26	SETTING RING RETAINER (2 7/8")	2	2	.13
27696	27	RUBBER BUSHING	8	4	.06
24507	28	INSERT SPACER (3 1/2")	8	8	.13
24508	28	INSERT SPACER (2 7/8")	4	4	.25
27530	31	INSERT RETAINER (3 1/2")		4	.13
27451	31	INSERT RETAINER (2 7/8")		4	.25
23117	32	HINGE PIN RETAINER	2	1	.25

YT INSERTS

-----	ITEM#	DESCRIPTION	#REQ.	WT.
24774	30	3 1/2" X 3 1/2" INSERT	24	.50
30358	30	3 1/2" X 2 7/8" INSERT	24	.75
78-06	30	3 1/2" X 2 3/8" INSERT	24	.80
24773	30	2 7/8" X 2 7/8" INSERT	12	.75
29255	30	2 7/8" X 2 3/8" INSERT	12	1.00
29256	30	2 7/8" X 2 1/16" & 2" INSERT	12	1.20
29257	30	2 7/8" X 1 1/2" (1.900") INSERT	12	1.25
29258	30	2 7/8" X 1 1/4" (1.660") INSERT	12	1.38
29259	30	2 7/8" X 1" (1.315") INSERT	12	1.45

RECOMMENDED SPARES INCLUDE 1 SET OF INSERTS FOR EACH PIPE SIZE TO RUN

YT 75 TON SLIP TYPE ELEVATOR

YT SETTING RINGS

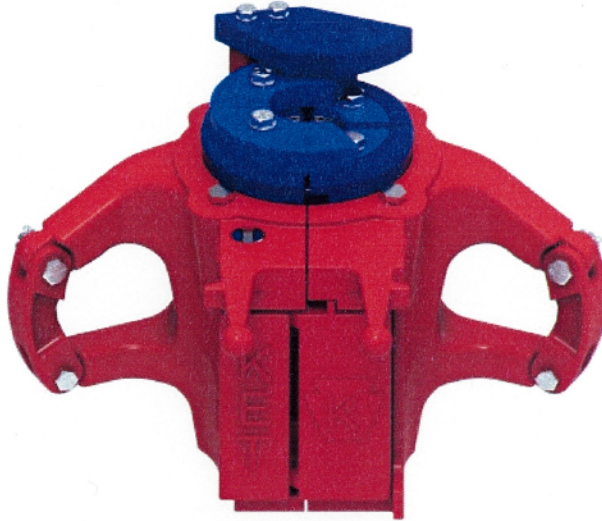
	ITEM#	DESCRIPTION	WT.
27813	33	3 1/2" YT SETTING RING	3.13
27695	33	2 7/8" YT SETTING RING	3.56
27694	33	2 3/8" YT SETTING RING	4.00
27812	33	2 1/16" YT SETTING RING	4.25
27811	33	1 1/2" (1.900") YT SETTING RING	4.31
27810	33	1 1/4" (1.660") YT SETTING RING	4.38
29001	33	1" (1.315") YT SETTING RING	4.75

RECOMMENDED SPARES INCLUDE 2 SETTING RINGS FOR EACH PIPE SIZE TO BE RUN

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HYT 150 TON SLIP TYPE ELEVATOR

	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

	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
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 150 TON SLIP TYPE ELEVATOR

HYT REPLACEMENT PARTS

PART#	DESCRIPTION	**SPARES	#REQ.	WT.
39239	HINGE PIN		1	12.40
39162	LATCH		1	22.00
39238	LATCH PIN		1	6.00
39240	LATCH SPRING	2	1	.70
39161	LATCH LOCK	1	1	8.00
39251	LATCH LOCK PIN	1	1	.80
39241	LATCH LOCK SPRING	2	1	.70
39253	HINGE PIN RETAINER		1	.10
39254	LATCH PIN RETAINER		1	.40
940308-1	GREASE FITTING		1	.10
9519	LINK BLOCK		2	5.50
8151	UPPER LINK BLOCK BOLT, NUT, & COT.		2	.50
8145	LINK BLOCK BOLT	2	2	.50
8150	LINK BLOCK NUT	2	2	.50
939672-19	COTTER PIN	2	2	.10
52321	SLIP BOLT	4	4	1.00
52539-1	SLIP SPRING	8	4	.80
51090	GUIDE PLATE		1	8.60
939098-65	GUIDE PLATE SCREW	4	2	.10
939352-64	GUIDE PLATE LOCKWASHER	4	2	.10
94787923	LOCKWIRE		A/R	.10
939098-96	SETTING PLATE BOLT		2	.65
939352-6	LOCKWASHER		4	.10
51089	SETTING RING BUSHING	4	2	.15
939098-36	INSERT RETAINER BOLT	4	2	.20
39247	3 1/2" & 3 1/2" X 2 7/8" INSERT RET.	8	4	.25
39246	2 7/8" & 2 7/8" X 2 3/8" INSERT RET.	8	4	.25

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

HYT INSERTS

PART#	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
78-06	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

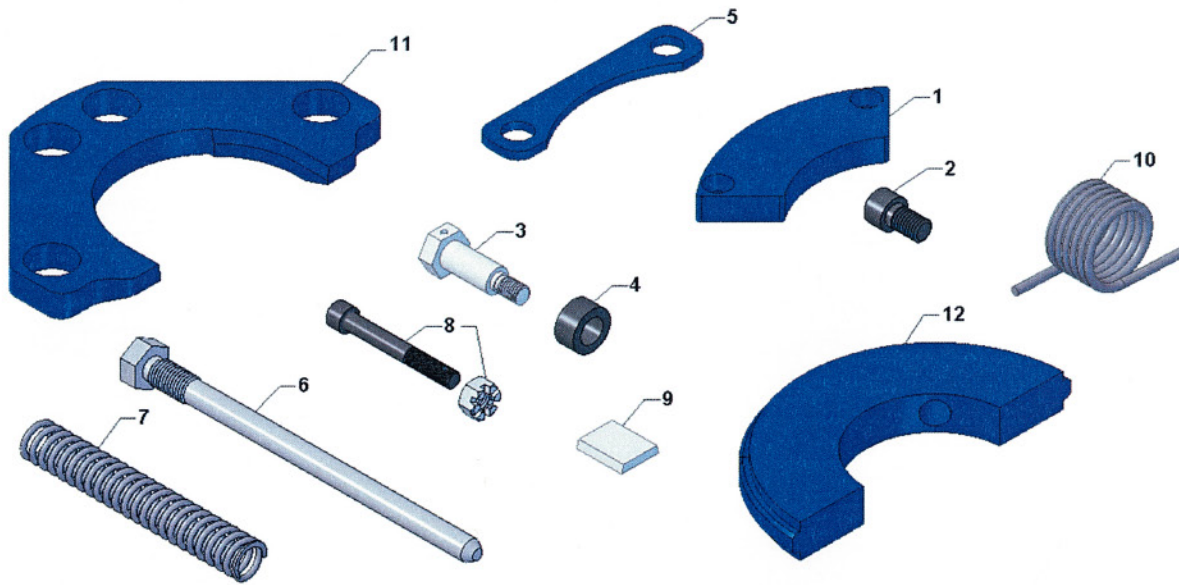
RECOMMENDED SPARES INCLUDE 1 SET OF INSERTS FOR EACH PIPE SIZE TO BE RUN

HYT SETTING RINGS

	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

RECOMMENDED SPARES INCLUDE 2 SETTING RINGS FOR EACH PIPE SIZE TO BE RUN

YC SLIP TYPE ELEVATOR



YC REPLACEMENT PARTS

	ITEM#	DESCRIPTION	#REQ.	WT.
30214	1	INSERT RET. RING 3 1/2" - 4 1/2"	4	2.75
30224	1	INSERT RET. RING 5" & 5 1/2"	4	2.13
30230	1	INSERT RET. RING 6 5/8" & 7"	4	2.75
941271-73	2	INSERT RET. SCREW	4	.13
30211	3	SETTING PLATE BOLT	4	.25
30213	4	RUBBER BUSHING	4	.06
30216	5	SETTING RING RET.	2	.25
24076	6	SLIP BOLT	4	1.05
24049	7	SLIP SPRING	4	.38
24075	8	GUIDE PLATE SCREW w/NUT	4	.40
24506	9	INSERT SPACER	8	.25
12978	10	LATCH SPRING		

YC SETTING PLATES

f	ITEM#	DESCRIPTION	#REQ.	WT.
34932	11	3 1/2" SETTING PLATE	1	8.00
30209	11	4" SETTING PLATE	1	8.00
30219	11	4 1/2" SETTING PLATE	1	7.00
30220	11	5" SETTING PLATE	1	6.25
30223	11	5 1/2" SETTING PLATE	1	6.13
30226	11	6 5/8" SETTING PLATE	1	6.00
30229	11	7" SETTING PLATE	1	5.50

YC BOTTOM GUIDE PLATES

f	ITEM#	DESCRIPTION	WT.
24071-2	12	7" BOTTOM GUIDE	3.75
24071-3	12	6 5/8" BOTTOM GUIDE	4.50
24071-1	12	5 1/2" BOTTOM GUIDE	5.50
24071	12	5" BOTTOM GUIDE	7.75
24071-4	12	4 1/2" BOTTOM GUIDE	8.50
26827	12	4" BOTTOM GUIDE	8.50
26827-1	12	3 1/2" BOTTOM GUIDE	8.00

HYC 200 TON SLIP TYPE ELEVATOR

	DESCRIPTION	RANGE	SIZE OF LINKS	WT.
55310	HYC ELEVATOR COMPLETE L/SLIPS & BOTTOM GUIDES	3 1/2" - 7 5/8"	2 1/4" - 3 1/2"	978.00

HYC SLIP ASSEMBLIES

	DESCRIPTION	WT.
70009	7 5/8" X 7 5/8" HYC SLIP ASSY.	216
55515	7" X 7" HYC SLIP ASSY.	224
55514	7" X 6 5/8" HYC SLIP ASSY.	227
55513	5 1/2" X 5 1/2" HYC SLIP ASSY.	243
55512	5 1/2" X 5" HYC SLIP ASSY.	253
55511	4 1/2" X 4 1/2" HYC SLIP ASSY.	265
55510	4 1/2" X 4" HYC SLIP ASSY.	268
55509	4 1/2" X 3 1/2" HYC SLIP ASSY.	274
55305-1	7 5/8" HYC SLIP SEGMENTS ONLY (MATCHED SET OF 4)	176
55305	7" HYC SLIP SEGMENTS ONLY (MATCHED SET OF 4)	184
55304	5 1/2" HYC SLIP SEGMENTS ONLY (MATCHED SET OF 4)	200
55303	4 1/2" HYC SLIP SEGMENTS ONLY (MATCHED SET OF 4)	212

HYC SETTING RINGS

	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

RECOMMENDED SPARES INCLUDE 2 SETTING RINGS FOR EACH PIPE SIZE TO BE RUN

HYC BOTTOM GUIDE PLATES

	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

HYC 200 TON SLIP TYPE ELEVATOR

HYC REPLACEMENT PARTS

	DESCRIPTION	**SPARES	#REQ.	WT.
55311	HINGE PIN		1	25.00
55503	LATCH		1	47.00
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	1	1	.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
8151	UPPER LINK BLOCK BOLT, NUT, & COT.	2	2	.50
939672-19	COTTER PIN	2	2	.10
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

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

HYC INSERTS

	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

RECOMMENDED SPARES INCLUDE 1 SET OF INSERTS FOR EACH PIPE SIZE TO BE RUN

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" 175 TON	13 3/8" 350 TON	13 3/8" 350 TON	10 3/4" 500 TON	14" 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	10 3/4"			72		90		.50
15660	10	10 7/8"						126	.50
15660	11	11 3/4"			72	105			.50
15660	12	12 1/2"						144	.50
15660	13	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" 175 TON	13 3/8" 350 TON	13 3/8" 500 TON	10 3/4" 500 TON	14" 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

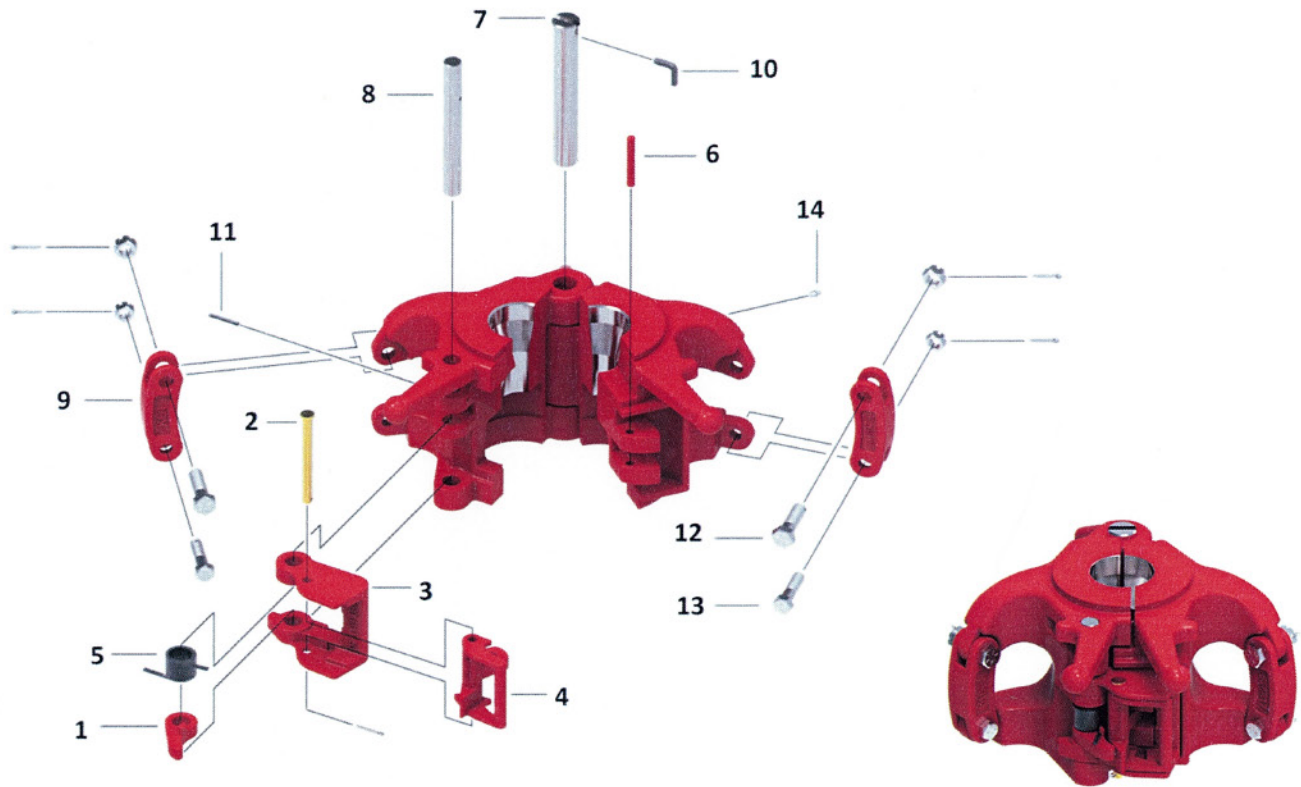
INSERTS FOR VARCO® ELEVATORS/SPIDERS

			PIPE		NUMBER OF INSERTS REQUIRED							
				SIZE	200	350	500	750	1000	500	750	
	DESC.	REF#	SLIP	(OD)	TON	TON	TON	TON	TON	TON	TON	WT (EA)
			SIZE	7 5/8"	14"	14"	14"	24"	24"	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

Intentionally Left Blank

MG (100 TON) BOTTLENECK ELEVATOR

	RANGE	SIZE OF LINKS	WT.
30157	2 3/8" - 5"	1 3/4" - 2 3/4"	308-296



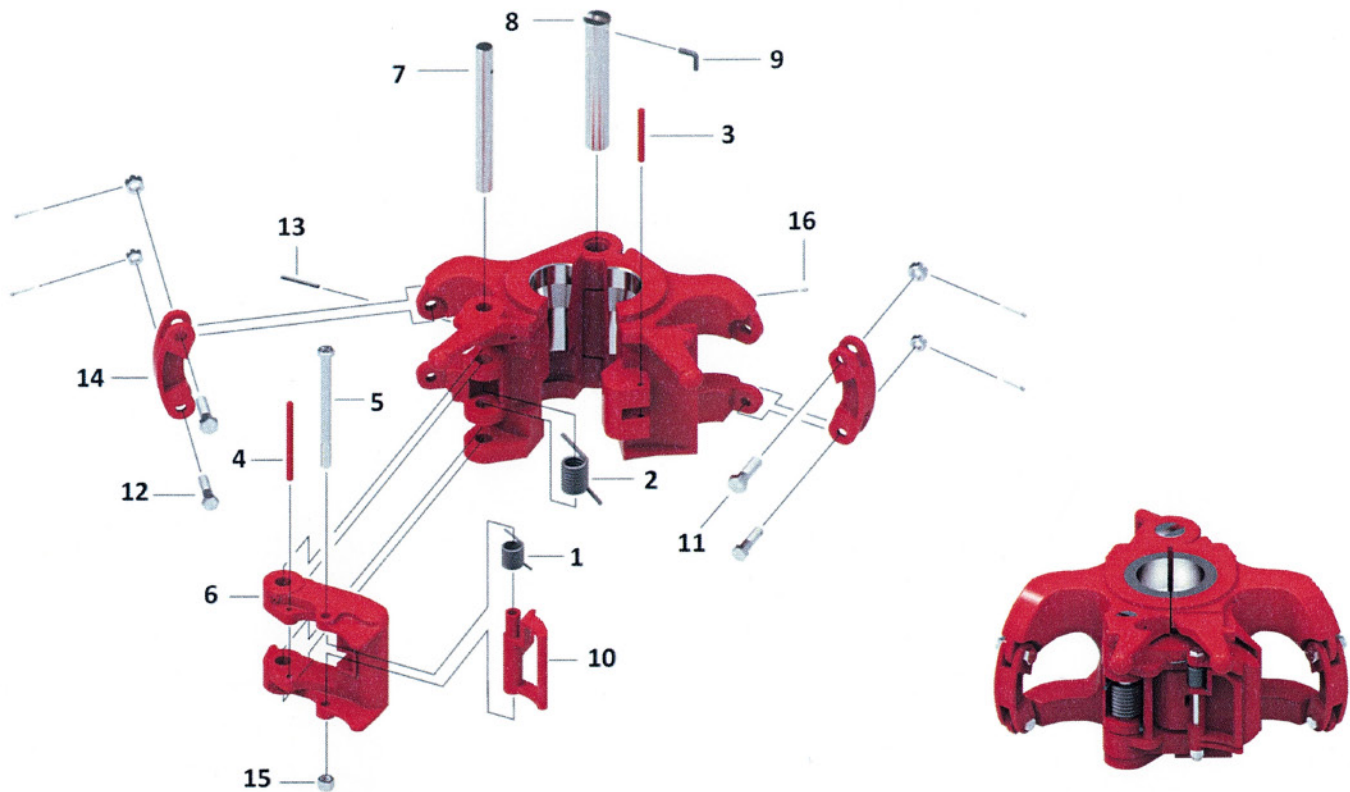
REPLACEMENT PARTS FOR MG ELEVATORS

	ITEM#	DESCRIPTION	**SPARES	#REQ.	WT.
11581	1	LATCH CAM	1	1	.75
11759	2	LATCH LOCK PIN	1	1	.75
11763	3	LATCH		1	9.25
11764	4	LATCH LOCK	*	1	3.00
11766	5	LATCH SPRING	2	1	.25
12529	6	DOOR LUG PIN		1	.25
26813	7	HINGE PIN	*	1	4.85
26814	8	LATCH PIN	*	1	.50
26817	9	LINK BLOCK		2	3.50
26813-RT	10	HINGE PIN RETAINER	1	1	.25
8156	11	LATCH PIN RETAINER	1	1	.25
8145-1	12	UPPER LINK BLOCK BOLT KIT	2	2	.80
8145-2	13	LOWER LINK BLOCK BOLT KIT	2	2	.55
ZF-GZN-02-1	14	GREASE FITTING		1	.10

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

RG (150 TON) BOTTLENECK ELEVATOR

	RANGE	SIZE OF LINKS	WT.
30156	2 3/8" - 4 1/2"	1 3/4" - 2 3/4"	308-296



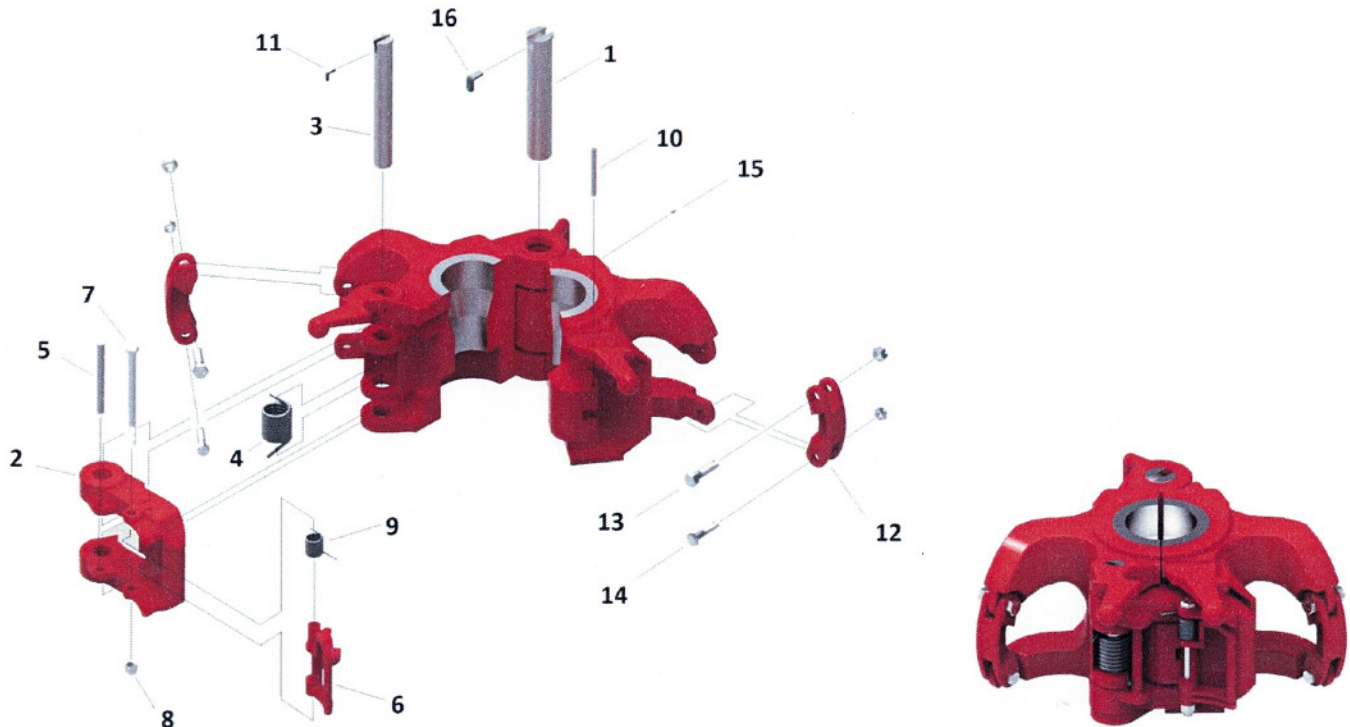
REPLACEMENT PARTS FOR RG ELEVATORS

	ITEM#	DESCRIPTION	SPARES	#REQ.	WT.
13188	1	LATCH LOCK SPRING	2	1	.30
23546	2	LATCH SPRING	2	1	.75
23547	3	DOOR LUG PIN		1	.25
23548	4	LATCH SPRING STOP	1	1	.88
23553	5	LATCH LOCK BOLT	1	1	1.13
23543	6	LATCH	1	1	33.00
23544	7	LATCH PIN	*	1	3.90
23569	8	HINGE PIN	*	1	8.13
8156	9	HINGE PIN RETAINER	2	1	.25
23729	10	LATCH LOCK	*	1	4.00
8145-1	11	UPPER LINK BLOCK BOLT KIT	2	2	.80
8145-2	12	LOWER LINK BLOCK BOLT KIT	2	2	.55
939672-18	13	LATCH PIN RETAINER		3	.10
9519	14	LINK BLOCK		2	5.50
939484-8	15	LATCH LOCK BOLT NUT	1	1	.20
ZF-GZN-02-1	16	GREASE FITTING		1	.10

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

MGG (250 TON) BOTTLENECK ELEVATOR

	RANGE	SIZE OF LINKS	WT.
35005	3 1/2" - 5 1/2"	2 1/4" - 3 1/2"	600.00



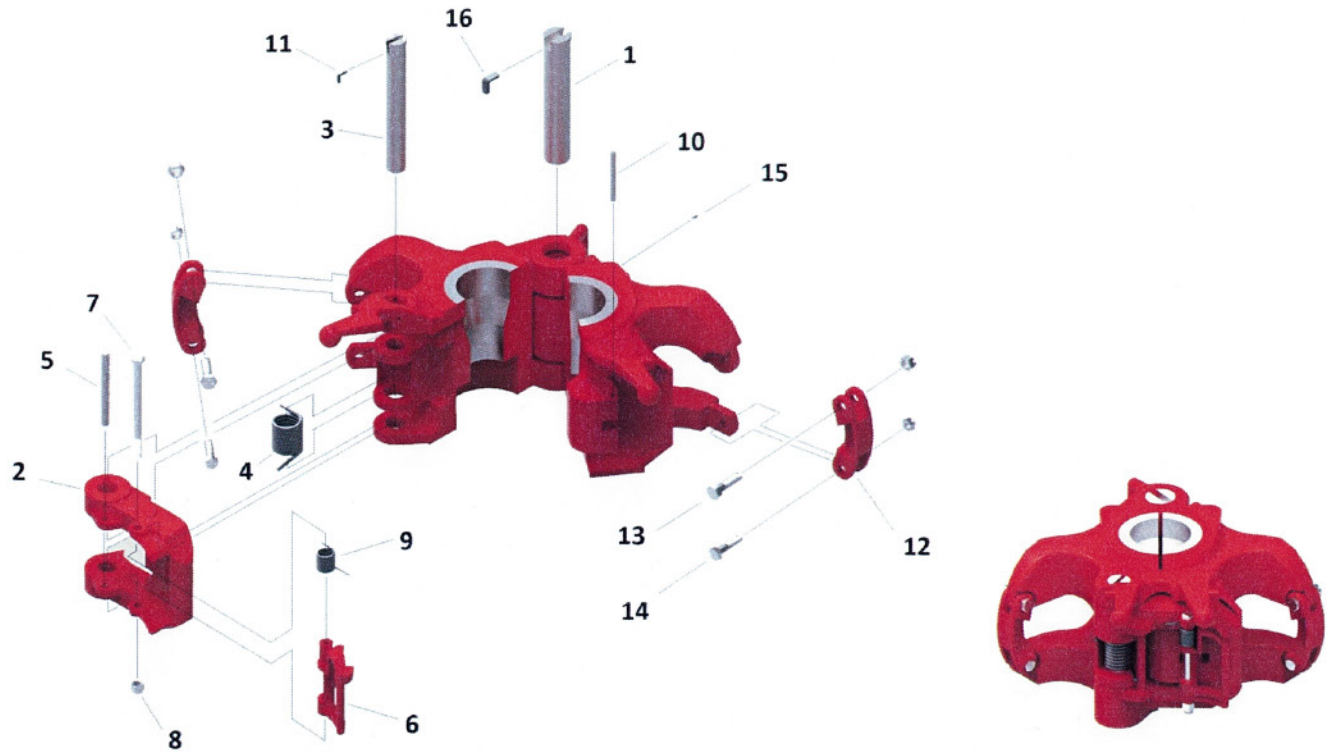
REPLACEMENT PARTS FOR MGG ELEVATORS

	ITEM#	DESCRIPTION	SPARES	#REQ.	WT.
34908	1	HINGE PIN	*	1	15.50
34906	2	LATCH		1	57.00
34907	3	LATCH PIN	*	1	7.31
34909	4	LATCH SPRING	2	1	2.50
13185	5	LATCH SPRING STOP	1	1	.94
13152	6	LATCH LOCK	*	1	4.00
15101	7	LATCH LOCK BOLT	2	1	1.30
939484-8	8	LATCH LOCK BOLT NUT	2	1	.20
13188	9	LATCH LOCK SPRING	2	1	.30
13190	10	DOOR LUG PIN		1	.32
34911	11	LATCH PIN RETAINER	2	1	.13
12732	N/P	DOOR CATCH ARM		1	1.50
12916	N/P	DOOR CATCH ARM PIN		1	.13
9561	N/P	DOOR CATCH SPRING	*	1	.13
12734	N/P	ROLLER		1	.50
12735	N/P	ROLLER PIN		1	.25
9519	12	LINK BLOCK		2	5.50
8145-1	13	UPPER LINK BLOCK BOLT KIT		2	.80
8145-2	14	LOWER LINK BLOCK BOLT KIT	2	2	.55
ZF-GZN-02-1	15	GREASE FITTING		3	.06
34910	16	HINGE PIN RETAINER		1	.19

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

GG (350 TON) BOTTLENECK ELEVATOR

	RANGE	SIZE OF LINKS	WT.
31068	3 1/2" - 5 1/2"	2 1/4" - 3 1/2"	715.00



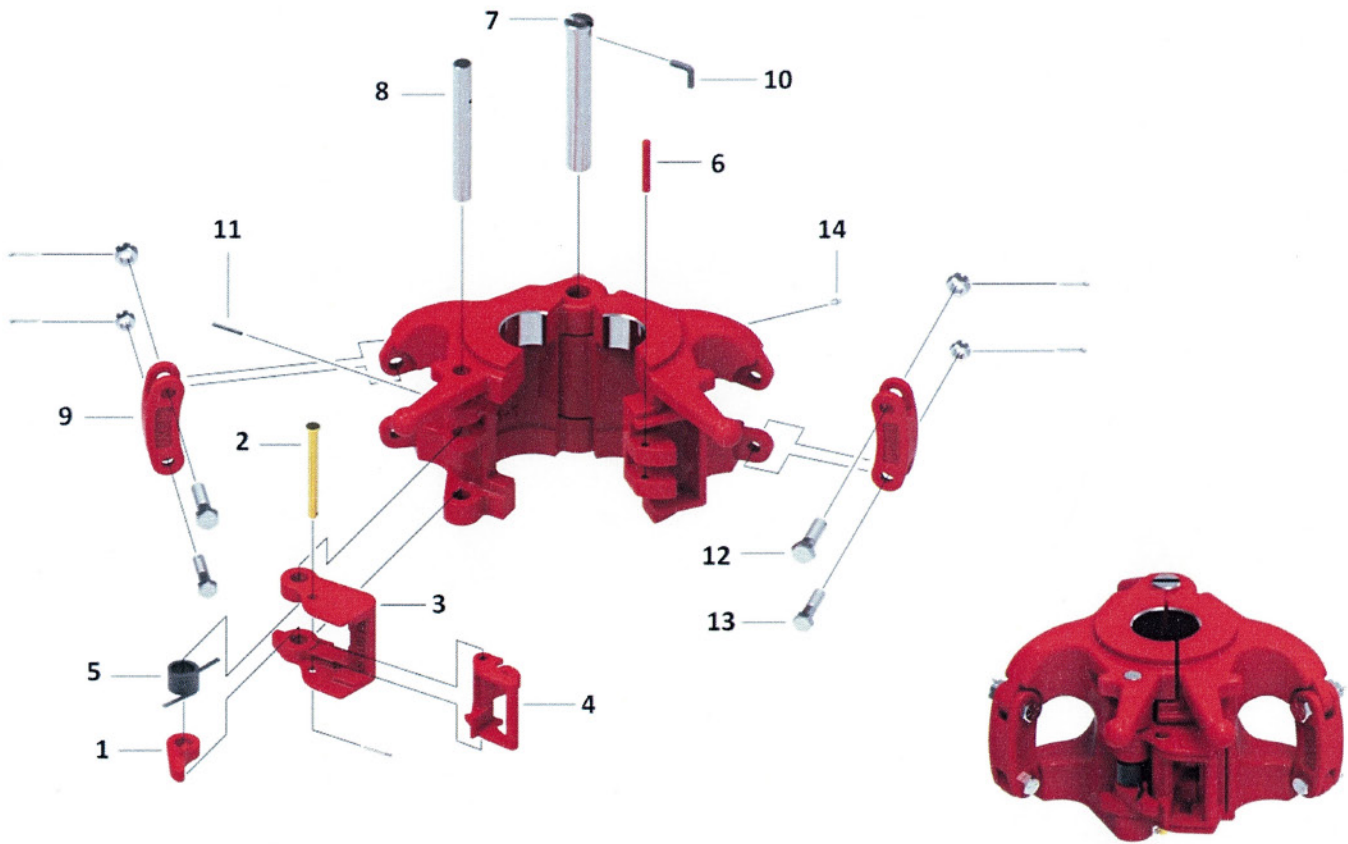
REPLACEMENT PARTS FOR GG ELEVATORS

	ITEM#	DESCRIPTION	SPARES	#REQ.	WT.
33998	1	HINGE PIN	*	1	18.38
31071	2	LATCH		1	50.00
33999	3	LATCH PIN	*	1	10.38
18416	4	LATCH SPRING	2	1	2.25
13185	5	LATCH SPRING STOP	2	1	.94
13152	6	LATCH LOCK	*	1	4.00
15101	7	LATCH LOCK BOLT	2	1	1.30
939484-8	8	LATCH LOCK BOLT NUT	2	1	.20
13188	9	LATCH LOCK SPRING	2	1	.30
13190	10	DOOR LUG PIN		1	.32
32892	11	LATCH PIN RETAINER	2	1	.04
12732	N/P	DOOR CATCH ARM		1	1.50
12916	N/P	DOOR CATCH ARM PIN		1	.13
9561	N/P	DOOR CATCH SPRING	*	1	.13
12734	N/P	ROLLER		1	.50
12735	N/P	ROLLER PIN		1	.25
9519	12	LINK BLOCK		2	5.50
8145-1	13	UPPER LINK BLOCK BOLT KIT		2	.80
8145-2	14	LOWER LINK BLOCK BOLT KIT	2	2	.55
ZF-GZN-02-1	15	GREASE FITTING		1	.10
31074	16	HINGE PIN RETAINER	*	1	.50

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

MRA (175 TON) SQUARE SHOULDER ELEVATOR

	RANGE	SIZE OF LINKS	WT.
30158	2 3/8" - 5 1/2"	1 3/4" - 2 3/4"	210-185



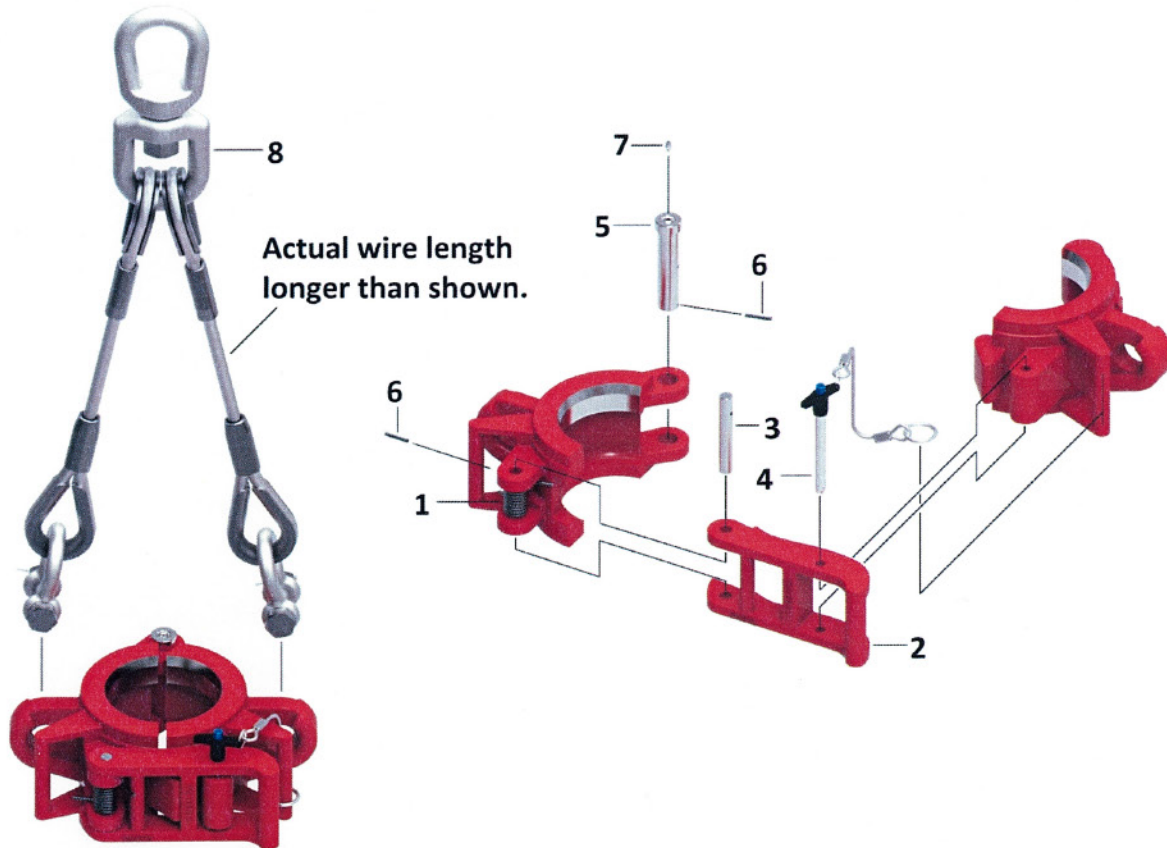
REPLACEMENT PARTS FOR MRA ELEVATORS

	ITEM#	DESCRIPTION	**SPARES	#REQ.	WT.
11581	1	LATCH CAM	1	1	.75
11759	2	LATCH LOCK PIN	1	1	.75
11763	3	LATCH		1	9.25
11764	4	LATCH LOCK	*	1	3.00
11766	5	LATCH SPRING	2	1	.25
12529	6	DOOR LUG PIN		1	.25
26813	7	HINGE PIN	*	1	4.85
26814	8	LATCH PIN	*	1	.50
26817	9	LINK BLOCK		2	3.50
26813-RT	10	HINGE PIN RETAINER	1	1	.25
8156	11	LATCH PIN RETAINER	1	1	.10
8145-1	12	UPPER LINK BLOCK BOLT KIT		2	.80
8145-2	13	LOWER LINK BLOCK BOLT KIT		2	.55
ZF-GZN-02-1	14	GREASE FITTING		1	.10

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

!

	RANGE	WT.
20030	2 3/8" - 5 1/2"	51.00
39-200	2 3/8" - 3 1/2"	63.00
39-210	4" - 5 3/4"	63.00
39-040	5 3/4" - 7 5/8"	69.00



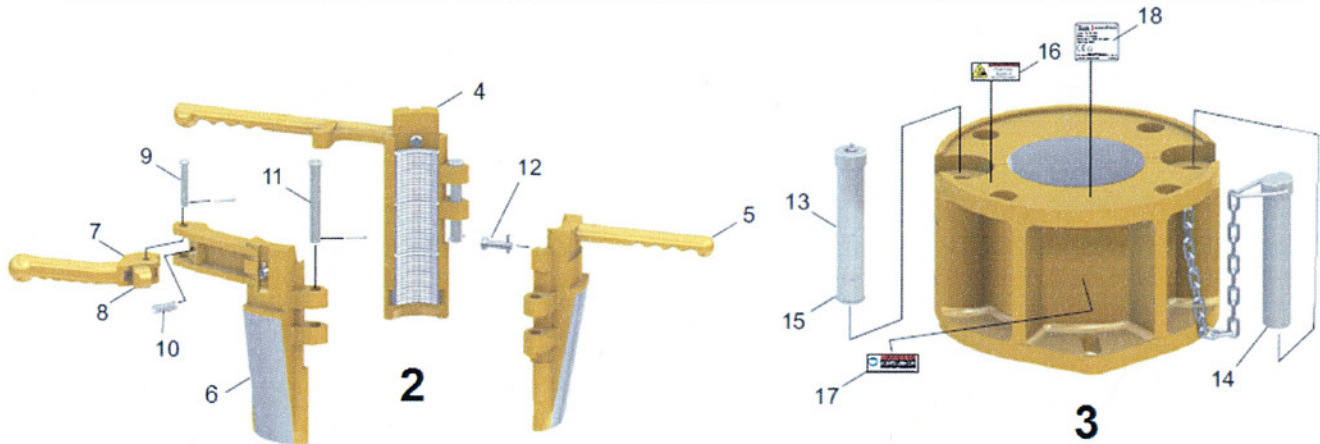
REPLACEMENT PARTS FOR SINGLE JOINT ELEVATORS

PART#	ITEM#	DESCRIPTION	*SPARES	#REQ.	WT.
39-034	1	2 3/8" - 20" LATCH SPRING	2	1	.08
39-035	2	2 3/8" - 13 3/8" LATCH		1	5.50
39-050	3	2 3/8" - 20" LATCH PIN	1		.35
39-051-7	4	2 3/8" - 20" LATCH RET PIN ASSY. (7/16")	1	1	.65
39-051-8	4	2 3/8" - 20" LATCH RET PIN ASSY. (1/2")	1	1	.65
39-052	5	2 3/8" - 13 3/8" HINGE PIN	1		.75
39-054	2	14" - 20" LATCH	1		7.00
39-053	5	14" - 20" HINGE PIN		1	1.00
39-055	6	2 3/8" - 20" HINGE PIN RETAINING PIN		1	.08
ZF-GZN-02-1	7	GREASE FITTING			.05
34568	8	SWIVEL SUSPENSION ASSEMBLY		1	19.00

*** RECOMMENDED SPARE PARTS F/1 YEAR OPERATION**

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.



	ITEM#	DESCRIPTION	REF #	*SPARES	#REQ.	WT.
	17-301	2	SLIP ASSY. LESS INSERTS	7502-104	1	51.00
	17-302	3	3-1/2" TS-100 BOWL ONLY	7502-100	1	187.00
	17-101	4	RIGHT HAND SEGMENT	7502-C-217	1	13.00
	17-102	5	CENTER SEGMENT	7502-B-217	1	13.00
	17-103	6	LEFT HAND SEGMENT	7502-A-217	1	13.00
	17-104	7	LATCH HANDLE	7502-A-214	1	3.00
	17-105	8	LATCH	7502-A-207	1	.50
	17-108	9	LATCH PIN W/COTTER	7502-B-207	2	.12
	17-109	10	LATCH SPRING	7502-C-207	2	.12
	17-110	11	HINGE PIN F/SLIP W/COTTER	7502-A-216	2	.25
	17-111	12	LINE KEEPER W/COTTER	7502-B-216	6	.12
	17-112	13	HINGE PIN F/BOWL	7502-A-202	1	4.50
	17-113	14	LOCK PIN W/BAIL & CHAIN	7502-D-203	1	5.00
	17-114	15	SNAP RING	7502-103-X	1	.08

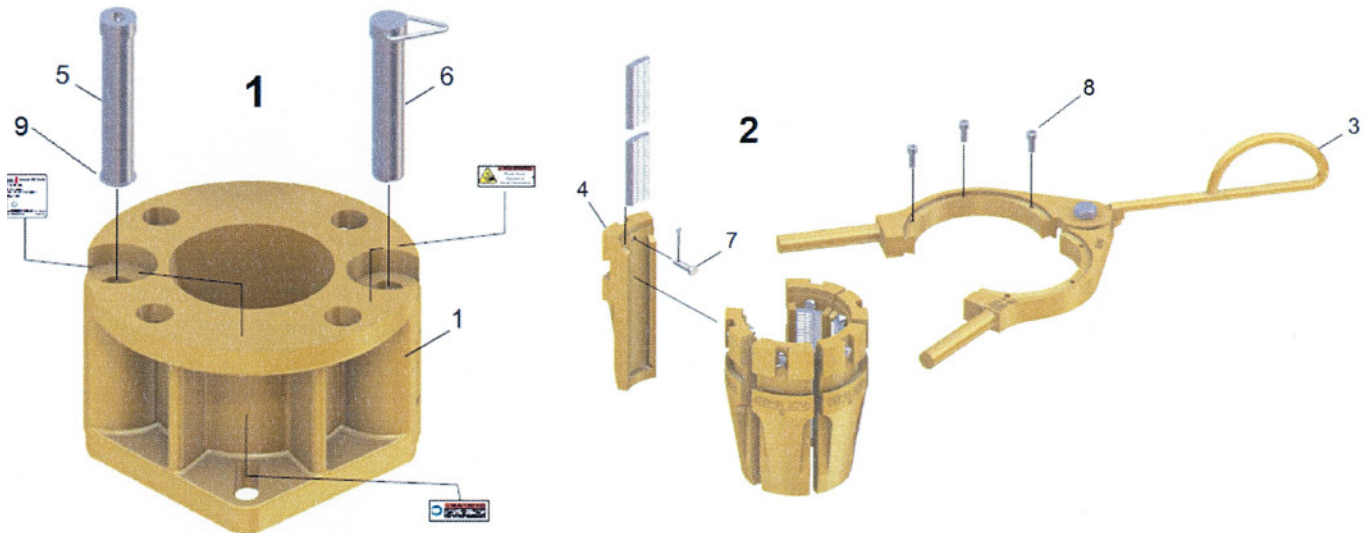
* RECOMMENDED SPARE PARTS F/1 YEAR OPERATION

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

	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

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

The 4-1/2" spider and slip uses the 4-1/2" "DU" rotary slip insert and has a range of 1.660" thru 4-1/2" O.D. by changing the 12 inserts. The 5-1/2" spider and slip uses the 5-1/2" "D"U rotary slip insert and has a range of 2-7/8" 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 and heat treated for strength and wear resistance. Both spiders are rated for 100 ton capacity.



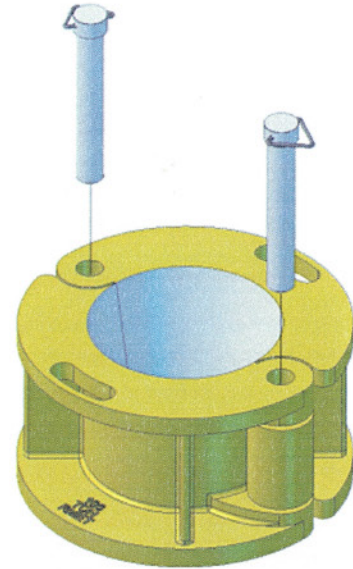
REPLACEMENT PARTS FOR 4-1/2" & 5-1/2" "TS-100" SPIDER

ITEM#	DESCRIPTION	*SPARES	#REQ.	WT.
18-451	1 4-1/2" BOWL ONLY		1	155.00
18-452	2 4-1/2" SLIP ASSY. COMPLETE LESS INSERTS		1	60.00
18-453	3 4-1/2" SLIP HANDLES ONLY (SET)		1	20.00
18-454	4 4-1/2" SLIP SEGMENTS EACH		1	6.80
18-457	5 4-1/2" HINGE PIN		1	3.50
18-458	6 4-1/2" REMOVEABLE HINGE PIN		1	3.75
18-455	7 4-1/2" & 5-1/2" INSERT RETAINER PIN	12	1	.20
18-456	8 4-1/2" & 5-1/2" SEGMENT RETAINER PIN	6	1	.25
18-551	1 5-1/2" BOWL ONLY		1	213.00
18-552	2 5-1/2" SLIP ASSY. COMPLETE LESS INSERTS		1	70.00
18-553	3 5-1/2" SLIP HANDLES ONLY (SET)		1	21.00
18-554	4 5-1/2" SLIP SEGMENTS EACH		2	8.00
18-557	5 5-1/2" HINGE PIN		3	4.00
18-558	6 5-1/2" REMOVABLE HINGE PIN		1	4.25
18-559	9 HINGE PIN RETAINER		1	

* RECOMMENDED SPARE PARTS F/1 YEAR OPERATION
INSERTS FOR 4-1/2" - 5-1/2" SPIDER ON **PAGE 11**

8-5/8" "API" BOWL

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" F.J. and is rated for 100 tons.



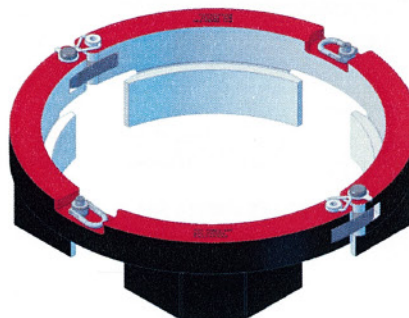
	DESCRIPTION	#REQ.	WT.
17-850	8-5/8" API BOWL	1	600.0
17-851	REMOVABLE HINGE PIN W/CHAIN	2	8.0

FALSE ROTARY



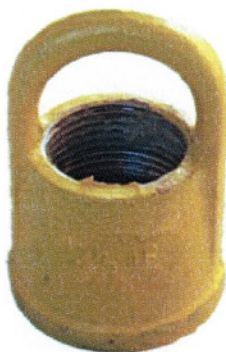
	DESCRIPTION	WT.
RM51-500	FALSE ROTARY TABLE FOR 18 5/8", 20", 24", AND 30" CASING	2300

ADAPTER RING

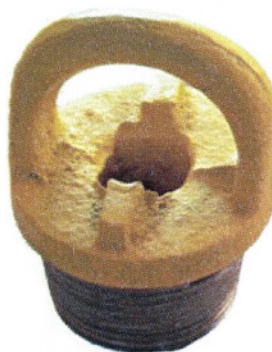


	DESCRIPTION	WT.
RM52-100	37 1/2" OILWELL TO 37 1/2" NATIONAL ROTARY TABLE ADAPTER RING	1118

LIFT NUBBINGS



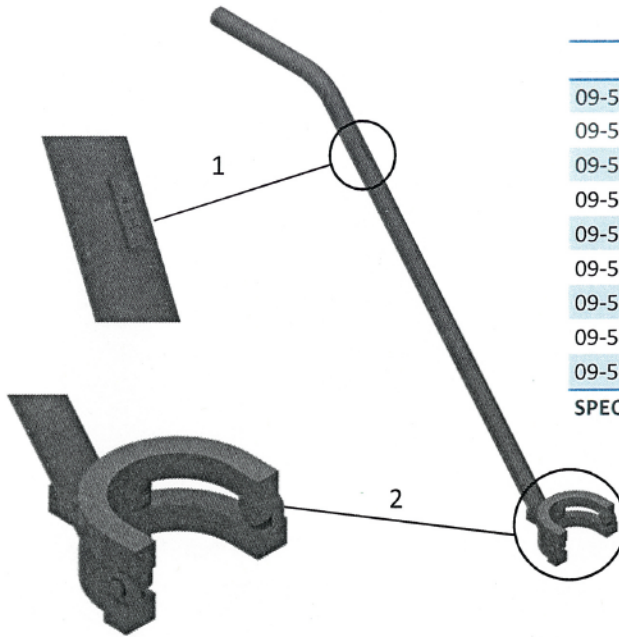
PIN



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	09-105	6	12
	2 7/8 PAC	09-105	6	09-205	6	12
4 – 4 3/8	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
5 3/4 – 6 1/4	4 1/2 REG	09-116	21	09-216	19	40
	4 1/2 FH	09-117	21	09-217	19	40
6 1/4 – 6 3/4	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
	N.C 46	09-121	20	09-221	18	38
	4 1/2 H-90	09-122	20	09-222	18	38
6 3/4 – 7 1/2	5 1/2 REG	09-123	23	09-223	20	43
	5 1/2 H-90	09-124	23	09-224	20	43
	N.C 50	09-125	23	09-225	20	43
	4 1/2 IF	09-126	23	09-226	20	43
7 1/4 – 8 1/4	5 1/2 FH	09-127	33	09-227	30	63
	6 5/8 REG	09-128	33	09-228	30	63
	6 5/8 H-90	09-129	33	09-229	30	63
8 1/4 - 9	N.C 61	09-130	32	09-230	32	64
9 – 10	7 5/8 REG	09-131	66	09-231	62	128
	XT-39	09-132	12	09-232	10	22
10 - 11	8 5/8 REG	09-133	77	09-233	73	150
	HT-38	09-134	12	09-234	10	22

PIPE JACKS



	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 SPECIFICATON STAMP ON EACH PRODUCT
2) HEAVY DUTY HINGE DESIGN FOR STRONGER SUPPORT

PIPE ROLLERS



	DESCRIPTION	WT.
26-950	RMET PIPE ROLLER	6.50



DRILL PIPE & CASING TONGS PRODUCT CATALOG



Type C, B, HT-65 & HT-100 Tongs

CORPORATE OFFICE

20044 Hwy 35
Alvin, TX 77511
Fax: [281] 331-0898



FRIENDSWOOD OFFICE

P.O. Box 834
Friendswood, TX 77549
Office: [281] 331-9550

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DRILL PIPE & CASING TONGS

Drill Pipe Tongs are the latest addition to the product line of Access Oil Tools and are manufactured at its 42,000 sq. ft. plant located in Broussard, Louisiana

Access was founded in 1985 by professionals with years of experience in oil field sales and manufacturing. We recognized the need for a reliable source of quality equipment to meet the rigorous demands of this industry. Our company has grown steadily over the years and today is a leading supplier of pipe handling equipment to the drilling industry worldwide.

- Licensed under API Spec. Q1, 7K, 8A and 8C
- ISO 9001; 2000 Certified
- All Tongs Pull Tested and Full Certification Available

In addition to the Drill Pipe Tongs detailed in this catalog, Access offers a complete range of manual and proprietary powered handling tools. Manual tools include Elevators, Slips, Safety Clamps, Spiders, Bushings, Casing Scrapers and Stabbing Guides.

The powered tools cover Kelly Spinners, Rotating Mousehole Tool, The "Twister Torque" wrenching tool and the "Twister Spin" which incorporates the Twister Torque tool and a Drill Pipe Spinner.

This detailed parts catalog can be found on the Access web page and can be downloaded in PDF file format.

Web address: www.accessoiltools.com

TORQUE RATINGS

TYPE	TORQUE RATING (ft.lbs.)	SIZE RANGE
C	35,000	2 3/8" - 10 3/4"
B	30,000	13 3/8"
	40,000	9" - 11 3/4"
	55,000	3 1/2" - 9"
B Extended Head (for Casing)	25,000	13 3/8" - 25 1/2"
HT-65	40,000	11 3/4" - 17"
	65,000	3 1/2" - 11 1/4"
HT-100	60,000	16" - 17"
	75,000	12" - 15"
	100,000	4" - 12" and 15 3/4"

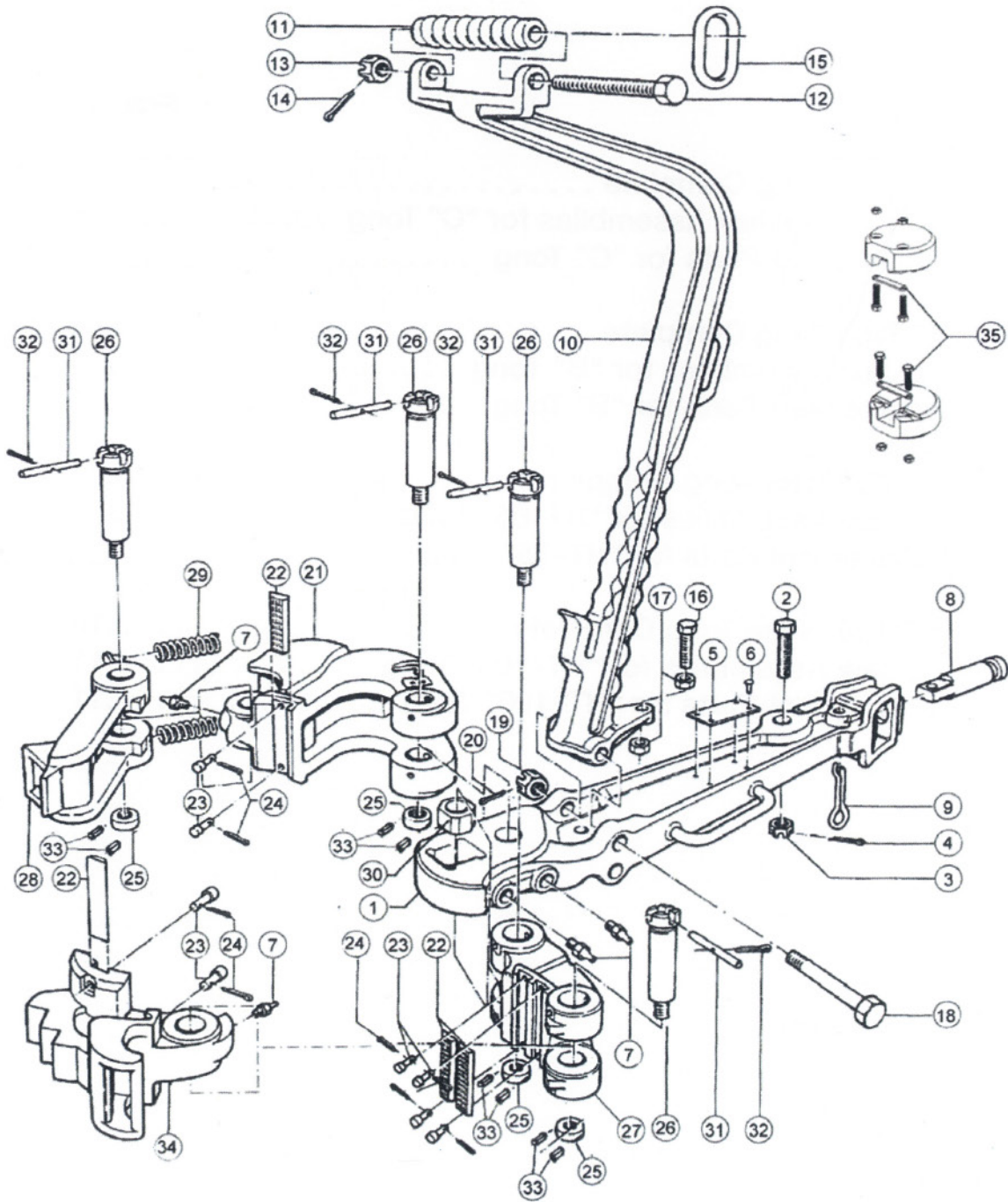
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AOT TYPE "C" TONG COMPLETE

AOT #	DESCRIPTION	WT.
T30117-2	TYPE "C" TONG COMPLETE W/STANDARD LEVER LESS LUG JAWS (2 3/8" - 7")	250.00
T30117-3	TYPE "C" TONG COMPLETE W/SHORT LEVER LESS LUG JAWS (2 3/8" - 7")	232.00
T30117	TYPE "C" TONG COMPLETE W/STANDARD LEVER LESS LUG JAWS (7 5/8" - 10 3/4")	250.00
T30117-1	TYPE "C" TONG COMPLETE W/SHORT LEVER LESS LUG JAWS (7 5/8" - 10 3/4")	232.00

NOTE: ADD - ST TO END OF TONG P/N FOR TONG WITH
SAFETY HANDLES & SET-BACK HANGER



HINGE AND LUG JAW ASSEMBLIES FOR TYPE "C" TONG

AOT #	ITEM#	DESCRIPTION	TORQUE RATING	WT.
T30728-1	34	2 3/8 — 3.668 LUG JAW ASSEMBLY	35,000 ft. lbs.	33.00
T30727-1	34	2 7/8 — 4 1/4 LUG JAW ASSEMBLY	35,000 ft. lbs.	34.00
T11939-4	34	3 1/2 — 5 1/4 LUG JAW ASSEMBLY	35,000 ft. lbs.	37.00
T11940-2	34	5 1/4 — 7 LUG JAW ASSEMBLY	35,000 ft. lbs.	49.00
T11941-1	N/P	7" — 8 5/8" HINGE & LUG JAW ASSEMBLY	35,000 ft. lbs.	61.00
T11941-2	N/P	7 — 8 5/8 LUG JAW	35,000 ft. lbs.	30.00
T11942-1	N/P	7" — 8 5/8" HINGE JAW ASSEMBLY (ONLY)	35,000 ft. lbs.	28.00
T13799-1	N/P	9 5/8 — 10 3/4 HINGE & LUG JAW ASSEMBLY	35,000 ft. lbs.	76.00
T13799	N/P	9 5/8 — 10 3/4 LUG JAW	35,000 ft. lbs.	39.00
T13798-1	N/P	9 5/8 — 10 3/4 HINGE JAW ASSEMBLY (ONLY)	35,000 ft. lbs.	36.00

NOTE: ADD — SH TO END OF LUG JAW P/N FOR JAWS W/SAFETY HANDLES

*Lug Jaw Assemblies include Jaw, and any required Tong Dies, Die Retainer Pins, Cotter Pins, & Grease Fittings

REPLACEMENT PARTS FOR TYPE "C" TONG

AOT #	ITEM #	DESCRIPTION	** SPARES	# REQ.	WT.
T11516-2	1-7	STANDARD LEVER ASSY. F/TYPE C TONG		1	87.00
T11516	1	STANDARD LEVER ONLY F/TYPE C TONG		1	78.00
T11883-1	1-7	SHORT LEVER ASSY. F/TYPE C TONG		1	63.00
T11883	1	SHORT LEVER ONLY F/TYPE C TONG		1	54.00
T939099-108	2	SAFETY LINE BOLT	1	1	1.00
T50516-C	3	SAFETY LINE BOLT NUT	1	1	.25
T51402-14	4	COTTER PIN	2	1	.10
T26119-1	5	NAME PLATE		1	.10
T53301-4-3	6	NAME PLATE SCREWS		4	.05
T53201	7	GREASE FITTING		2	.05
T11517	8	TONG LINE PIN F/TYPE C TONG	1	1	4.00
T25468	9	TONG LINE PIN RETAINER	2	1	1.00
T13264-1	10-17	HANGER ASSY. F/TYPE C TONG		1	36.25
T13264	10	HANGER ONLY F/TYPE C TONG		1	25.80
T13264-1-SH	10-17	SET BACK HANGER ASSY. F/TYPE C TONG		1	44.00
T13264-SH	10	SET BACK HANGER ONLY F/TYPE C TONG		1	33.55
T12586	11	BALANCING SCREW		1	2.75
T939099-596	12	BALANCING SCREW BOLT		1	2.10
T939484-8	13	BALANCING SCREW BOLT NUT		1	.40
T51402-10	14	COTTER PIN		1	.08
T12863	15	SUSPENSION RING		1	1.50
T939168-133	16	HANGER ADJUSTMENT SCREW		1	.75
T939248-8	17	HANGER JAM NUT	2		.25
T30329	18-20	HANGER BOLT ASSY.	1	1	1.50
T939097-516	18	HANGER BOLT		1	1.40
T940985-8	19	HANGER BOLT NUT		1	.25
T51402-10	20	COTTER PIN		1	.05
T11511-1	21-24,7	LONG JAW ASSY. F/TYPE C TONG		1	64.00
T11511	21	LONG JAW F/TYPE C TONG		1	63.00
T16401-2	22	1/2 X 1 1/4 X 5 TONG DIE	144	AS REQ.	.55
T17194	23	TONG DIE RETAINER PIN	24	AS REQ.	.03
T51402-6	24	COTTER PIN	36	AS REQ.	.01
T11522	25	HINGE PIN NUT	4	4	.35
T51506-8	33	GROOVE PIN F/HINGE PIN NUT	8	8	.05
T11521-1	26	THREADED HINGE PIN	4	4	2.65
T11513-5	27, 22-24	SHORT JAW ASSY. (2 3/8 — 7)		1	31.75
T11513-1	27, 22-24	SHORT JAW ASSY. (7 5/8 — 10 3/4)		1	31.75
T11933-1	28,25, & 33	LATCH ASSY.	1	1	17.25
T9561	29	LATCH SPRING	12	2	.10
T11523	30	LEVER HINGE PIN BLOCK	1	3	2.65
T11199	31	DOWELL PIN	4	4	.05
T51402-6	32	COTTER PIN	4	4	.01
T11520-1	NP	REMOVABLE HINGE PIN	NA		2.75
T20000-SH-2	35	SAFETY HANDLE KIT (fits all AOT tongs)	3	3	3.25

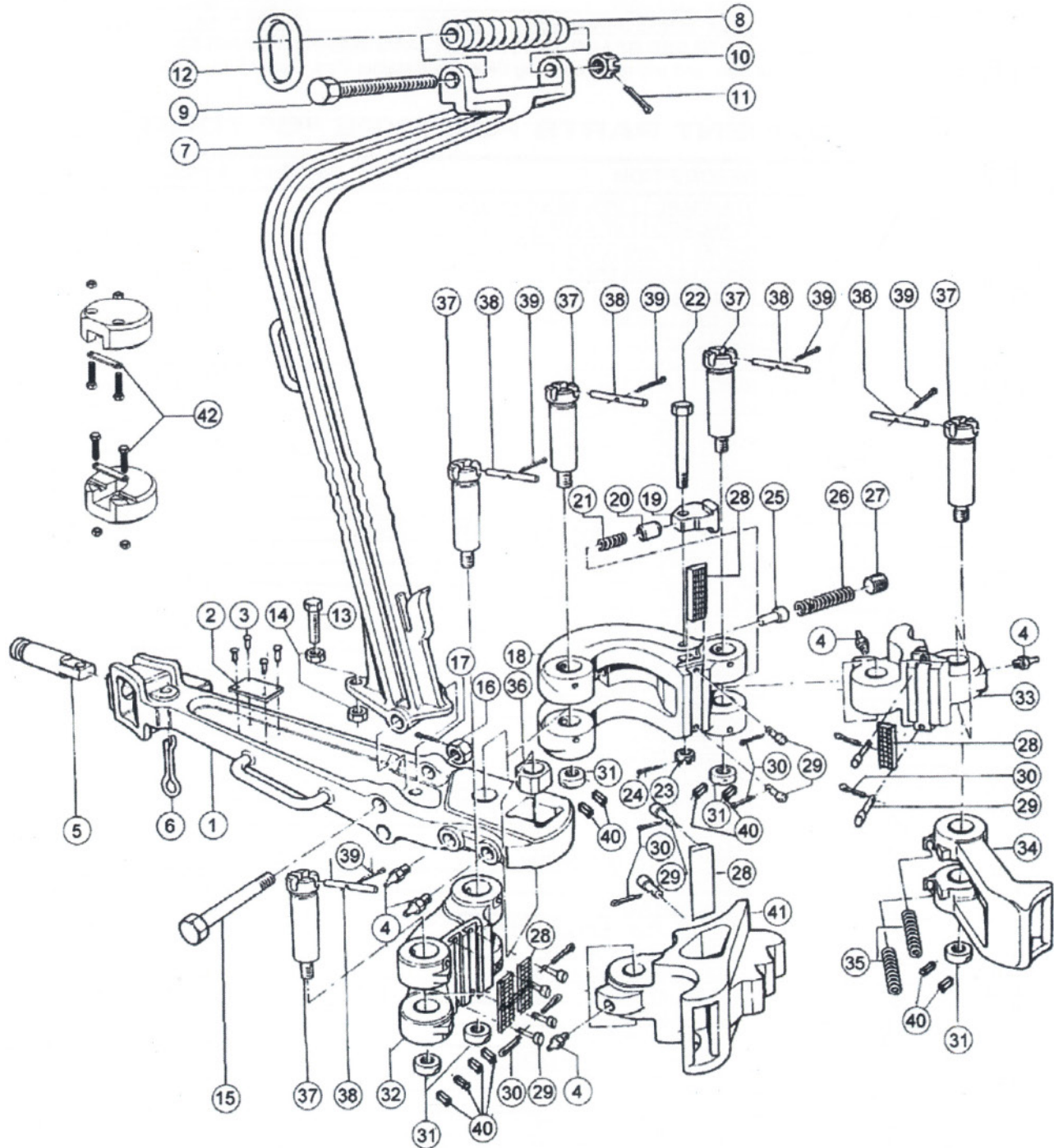
NOTE: ADD —SH TO END OF LONG JAW, LATCH JAW, OR LATCH LUG JAWS FOR SAFETY HANDLES

**RECOMMENDED SPARE PARTS FOR 1 YEAR

AOT TYPE "B" TONG COMPLETE

AOT #	DESCRIPTION	WT.
T30114	TYPE B TONG COMPLETE W/STANDARD LEVER LESS LUG JAWS	395.00
T30114-1	TYPE B TONG COMPLETE W/SHORT LEVER LESS LUG JAWS	386.00

NOTE: ADD —ST TO END OF TONG P/N FOR TONG WITH
SAFETY HANDLES & SET-BACK HANGER



LUG JAW ASSEMBLIES FOR TYPE "B" TONG

AOT #	ITEM#	DESCRIPTION	TORQUE RATING	WT.
T11765-1	41	3 1/2 - 5 LUG JAW ASSEMBLY	55,000 ft. lbs.	30.00
T11196-3	41	4 1/4 - 6 3/4 LUG JAW ASSEMBLY	55,000 ft. lbs.	42.00
T11196-2	41	6 5/8 - 9 LUG JAW ASSEMBLY	55,000 ft. lbs.	53.00
T11297-1	41	9 - 10 3/4 LUG JAW ASSEMBLY	40,000 ft. lbs.	60.00
T13285-1	41	11 3/4 LUG JAW ASSEMBLY	40,000 ft. lbs.	61.00
T24592-3	41	12 3/4 - 13 LUG JAW ASSEMBLY	30,000 ft. lbs.	65.00
T24592-1	41	13 3/8 LUG JAW ASSEMBLY	30,000 ft. lbs.	28.00

NOTE: ADD - SH TO END OF LUG JAW P/N FOR JAWS W/SAFETY HANDLES

*Lug Jaw Assemblies include Jaw, and any required Tong Dies, Die Retainer Pins, Cotter Pins; & Grease Fittings

REPLACEMENT PARTS FOR TYPE "B" TONG

AOT #	ITEM #	DESCRIPTION	** SPARES	# REQ.	WT.
T12434-2	1-4	STANDARD LEVER ASSY. F/TYPE B TONG		1	133.00
T12434	1	STANDARD LEVER ONLY F/TYPE B TONG		1	124.00
T9568-1	1-4	SHORT LEVER ASSY. F/TYPE B TONG		1	124.00
T9568	1-4	SHORT LEVER ONLY F/TYPE B TONG		1	113.00
T2005682	2	NAME PLATE	1		.10
T53301-4-3	3	NAME PLATE SCREWS		4	.05
T53201	4	GREASE FITTING		2	.05
T9574	5	TONG LINE PIN F/TYPE B TONG	1	1	6.00
T25468	6	TONG LINE PIN RETAINER	2	1	1.00
T26782	7-14	HANGER ASSY. F/TYPE B TONG		1	56.00
T26783	7	HANGER ONLY F/TYPE B TONG		1	47.00
T26782-SH	7-14	SET BACK HANGER ASSY. F/TYPE B TONG		1	64.00
T26783-SH	7	SET BACK HANGER ONLY F/TYPE B TONG		1	55.00
T12586	8	BALANCING SCREW		1	2.75
T939099-596	9	BALANCING SCREW BOLT		1	2.10
T939484-8	10	BALANCING SCREW BOLT NUT		1	.40
T51402-14	11	COTTER PIN		1	.08
T12863	12	SUSPENSION RING		1	1.50
T939168-133	13	HANGER ADJUSTMENT SCREW		1	.75
T939248-8	14	HANGER JAM NUT		2	.25
T939097-556	15	HANGER BOLT	1	1	1.40
T940985-8	16	HANGER BOLT NUT	1	1	.25
T51402-16	17	COTTER PIN	1	1	.05
T11194-1	18-30	LONG JAW ASSY. F/TYPE B TONG		1	98.00
T11194	18	LONG JAW F/TYPE B TONG		1	95.00
T11139	19	ADJUSTABLE STOP		1	.75
T11144	20	ADJUSTABLE STOP PLUNGER		1	.15
T11192	21	ADJUSTABLE STOP SPRING		1	.15
T11191	22	ADJUSTABLE STOP BOLT		1	.55
T8150	23	ADJUSTABLE STOP BOLT NUT		1	.20
T51402-14	24	COTTER PIN		AS REQ.	.03
T11228	25	BOOSTER PLUNGER		1	.25
T11229	26	BOOSTER PLUNGER SPRING		1	.25
T940968-6	27	BOOSTER PLUNGER RETAINER PLUG		1	.25
T16402-2	28	1/2 X 1 1/4 X 5 7/8 TONG DIE	144	AS REQ.	.75
T17194	29	TONG DIE RETAINER PIN	32	AS REQ.	.03
T51402-6	30	COTTER PIN	32	AS REQ.	.01
T11142	31	HINGE PIN NUT	5	5	.35
T51506-8	40	GROOVE PIN F/HINGE PIN NUT	10	10	.05
T11197-1	32,28-30	SHORT JAW ASSY.		1	44.00
T11971	32	SHORT JAW ONLY		1	41.00
T11195-2	33, 28-30,4	LATCH JAW ASSY.		1	37.00
T11195	33	LATCH JAW ONLY		1	34.00
T11138-1	34, 31, & 40	LATCH ASSY.	1	1	28.00
T9561	35	LATCH SPRING	12	2	.10
T9572	36	LEVER HINGE PIN BLOCK	1	1	1.75
T11141	37	THREADED HINGE PIN	5	5	4.75
T11199	38	DOWELL PIN	5	5	.05
T51402-6	39	COTTER PIN	5	5	.01
T11140	NP	REMOVABLE HINGE PIN		NA	4.20
T20000-SH-2	42	SAFETY HANDLE KIT (fits all AOT tongs)	3	3	3.25

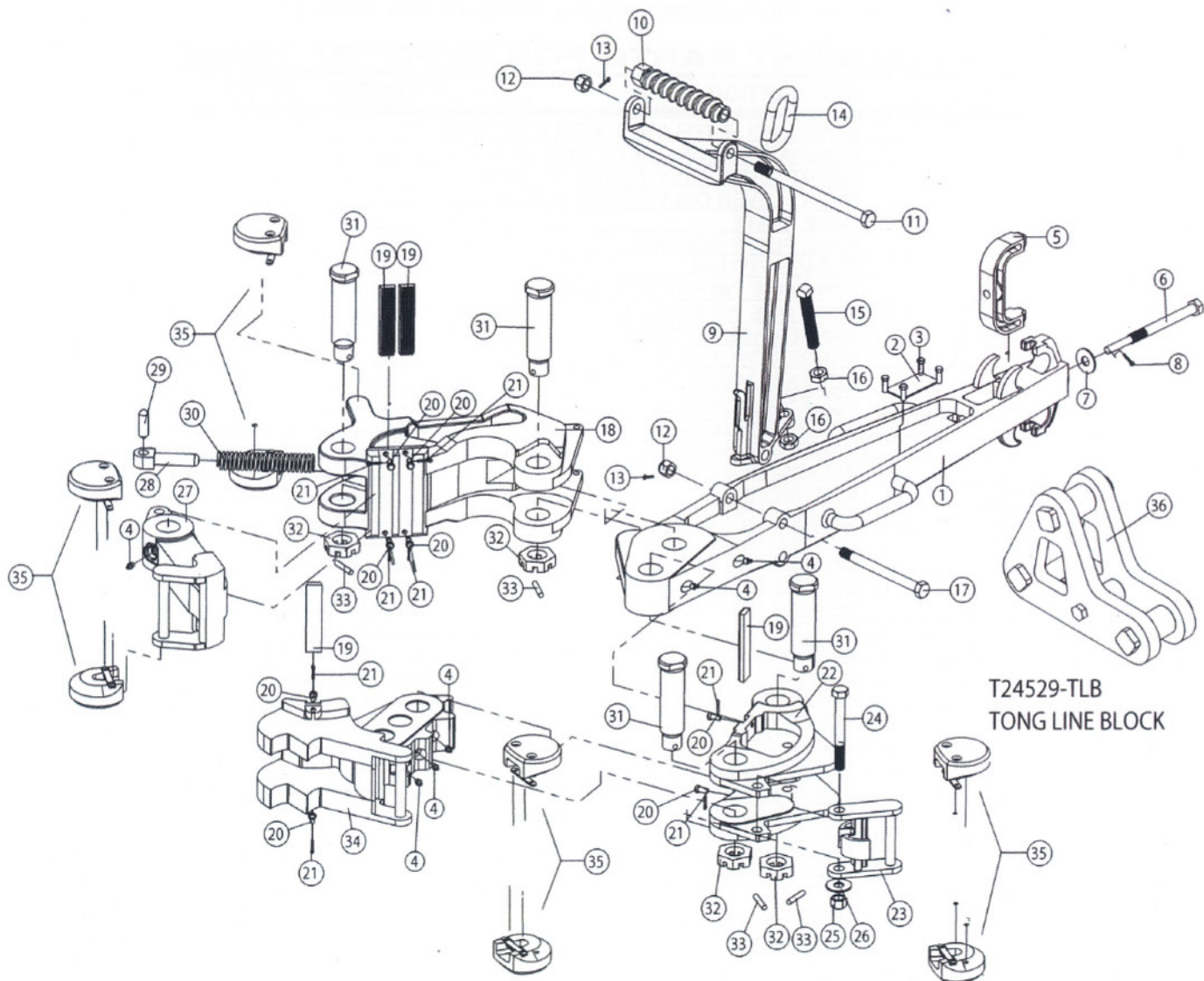
NOTE: ADD -SH TO END OF LATCH JAW ASSEMBLY, LATCH OR LATCH LUG JAWS FOR SAFETY HANDLES

**RECOMMENDED SPARE PARTS FOR 1 YEAR

AOT TYPE "HT-65" TONG COMPLETE

AOT #	DESCRIPTION	WT.
T200540	TYPE HT-65 TONG COMPLETE LESS LUG JAWS	440.00

NOTE: ADD —ST TO END OF TONG P/N FOR TONG WITH
SAFETY HANDLES & SET-BACK HANGER



HINGE & LUG JAW ASSEMBLIES FOR TYPE "HT-65" TONG

AOT #	ITEM #	DESCRIPTION	TORQUE RATING	WT.
T200546-1	34	3 1/2 - 8 1/4 LUG JAW ASSEMBLY	65,000 ft. lbs.	82.00
T200547-1	34	8 — 11 1/4 LUG JAW ASSEMBLY	65,000 ft. lbs.	97.00
T200548	34	11 3/4 — 14 3/8 LUG JAW ASSEMBLY	40,000 ft. lbs.	71.00
T200549	34	16 - 17 LUG JAW ASSEMBLY	40,000 ft. lbs.	83.00
T200545-1	NP	11 3/4 — 17 HINGEJAW ASSEMBLY	40,000 ft. lbs.	56.00

NOTE: ADD - SH TO END OF LUG JAW P/N FOR JAWS W/SAFETY HANDLES

*Lug & Hinge Jaw Assemblies include Jaw, and any required Tong Dies, Die Retainer Pins, Cotter Pins, & Grease Fittings

** Hinge Jaw Assembly required for sizes greater than 11 1/4

REPLACEMENT PARTS FOR TYPE "HT-65" TONG

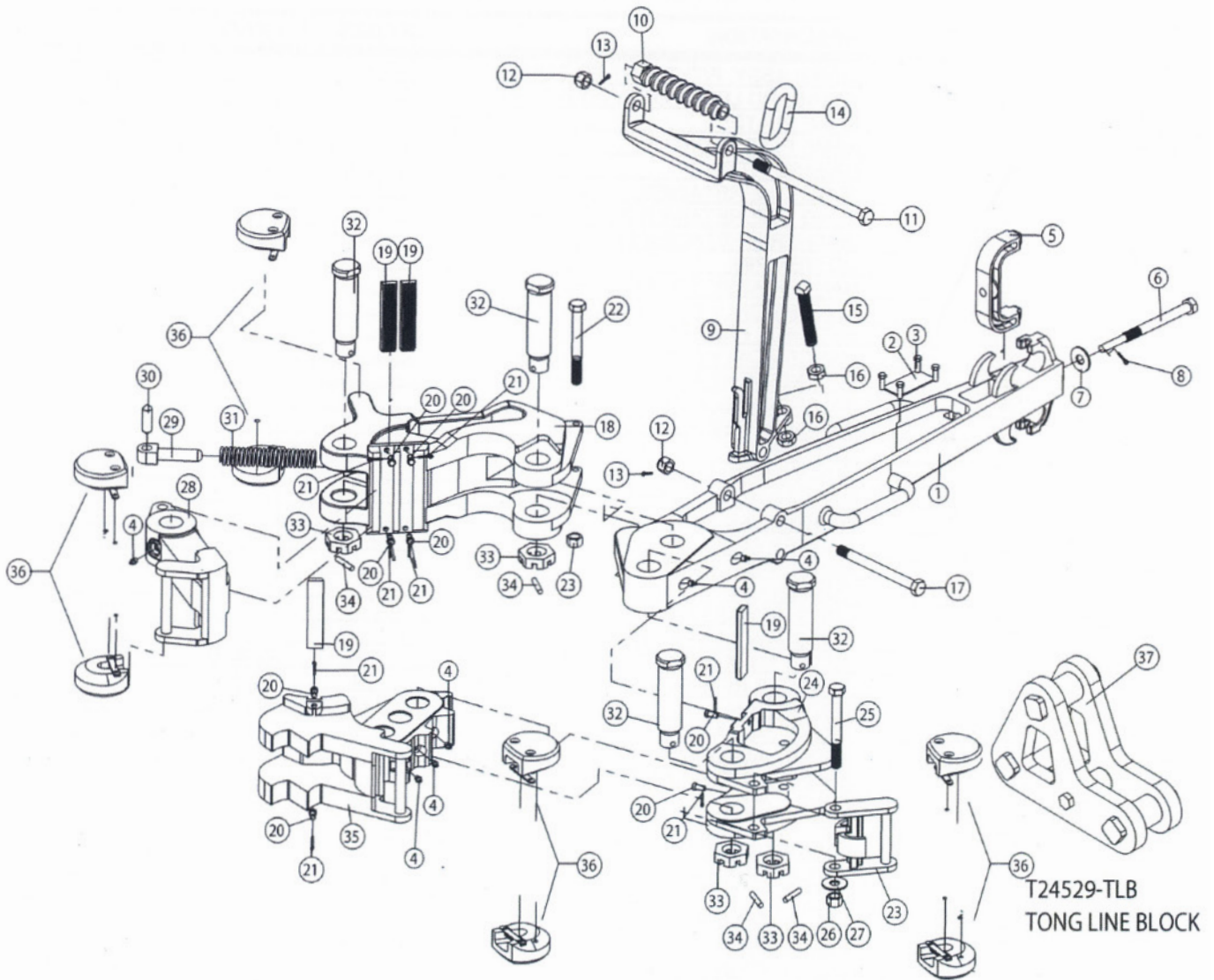
AOT #	ITEM #	DESCRIPTION	** SPARES	# REQ.	WT.
T200541-1	1-8	LEVER ASSY. F/TYPE HT-65 TONG		1	139.00
T200541	1	STANDARD LEVER ONLY F/TYPE HT-65 TONG		1	134.00
T200551	2	NAME PLATE		1	.10
T53301-4-3	3	NAME PLATE SCREWS		4	.05
T53201	4	GREASE FITTING		2	.05
T24529	5	TONG LINE RETAINER	1	1	3.65
T24249	6	TONG LINE RETAINER BOLT	1	1	1.08
T50809-N-C	7	WASHER F/RETAINER BOLT	1	1	.05
T51402-8	8	COTTER PIN	1	1	.04
T200668-2	9-16	HANGER ASSY. F/TYPE HT-65 TONG		1	56.00
T200668	9	HANGER ONLY F/TYPE HT-65 TONG		1	47.00
T200668-2-SH	9-16	SET BACK HANGER ASSY. F/TYPE HT-65 TONG		1	64.00
T200668-SH	9	HANGER ONLY F/TYPE HT-65 TONG		1	55.00
T12586	10	BALANCING SCREW		1	2.75
T939099-596	11	BALANCING SCREW BOLT		1	2.10
T50512-C	12	BALANCING SCREW BOLT NUT		1	.40
T51402-16	13	COTTER PIN		1	.08
T12863	14	SUSPENSION RING		1	1.50
T939168-133	15	HANGER ADJUSTMENT SCREW		1	.75
T50314-C	16	HANGER JAM NUT		2	.25
T939099-556	17	HANGER BOLT	1	1	1.40
T50512-C	12	HANGER BOLT NUT	1	1	.25
T51402-16	13	COTTER PIN	1	1	.05
T200542-1	18-21	LONG JAW ASSY. F/TYPE HT-65 TONG		1	118.00
T200542	18	LONG JAW F/TYPE HT-65 TONG		1	111.00
T16402-2	19	1/2 X 1 1/4 X 5 7/8 TONG DIE	144	AS REQ.	.75
T17194	20	TONG DIE RETAINER PIN	24	AS REQ.	.03
T51402-6	21	COTTER PIN	36	AS REQ.	.01
T200543-1	22-26, 19-21	SHORT JAW ASSY. F/TYPE HT-65 TONG		1	51.00
T200543	22	SHORT JAW ONLY F/TYPE HT-65 TONG		1	47.00
T25864	23	SHORT HANDLE JAW		1	2.75
T50012-52-C8	24	BOLT		1	.75
T50212-C	25	NUT		1	.35
T50912-C	26	LOCKWASHER		1	.04
T200544-1	27-29, 4	LATCH ASSY.	1	1	36.00
T200544	27	LATCH		1	34.00
T24526	28	LATCH SPING PLUNGER		1	1.75
T24530	29	PLUNGER PIN	1		.25
T24525	30	LATCH SPRING	12	1	.50
T200550	31	HINGE PIN	4.5	4.5	5.00
T24528	32	HINGE PIN NUT	4.5	4.5	.75
T51405-20	33	COTTER PIN	4.5	4.5	.03
T2000-SH-2	35	SAFETY HANDLE KIT (fits all AOT tongs)	4	4	3.25
T24529-TLB-MU	36	TONG LINE BLOCK, MAKE-UP (Right Hand)		A/R	31.00
T24529-TLB-BO	36	TONG LINE BLOCK, BREAK OUT (Left Hand)		A/R	31.00

*RECOMMENDED SPARE PARTS FOR 1 YEAR

AOT TYPE "HT-100" TONG COMPLETE

AOT #	DESCRIPTION	WT.
T200071	TYPE HT-100 TONG COMPLETE LESS LUG JAWS	533.00

NOTE: ADD —ST TO END OF TONG P/N FOR TONG WITH
SAFETY HANDLES & SET-BACK HANGER



HINGE & LUG JAW ASSEMBLIES FOR TYPE "HT-100" TONG

AOT #	ITEM#	DESCRIPTION	TORQUE RATING	WT.
T200663-1	35	4 - 8 1/2 LUG JAW ASSEMBLY	100,000 ft. lbs.	135.00
T200664	35	8 1/2 — 12 LUG JAW ASSEMBLY	100,000 ft. lbs.	102.00
T200665	35	12 — 15 LUG JAW ASSEMBLY	75,000 ft. lbs.	140.00
T200666	35	15 3/4 LUG JAW ASSEMBLY	100,000 ft. lbs.	162.00
T200667	35	16 — 17 LUG JAW ASSEMBLY	60,000 ft. lbs.	140.00
T200662-1	NP	8 1/2 — 17 HINGEJAW ASSEMBLY	100,000 ft. lbs.	112.00

NOTE: ADD - SH TO END OF LUG JAW P/N FOR JAWS W/SAFETY HANDLES

*Lug & Hinge Jaw Assemblies include Jaw, and any required Tong Dies, Die Retainer Pins, Cotter Pins, & Grease Fittings

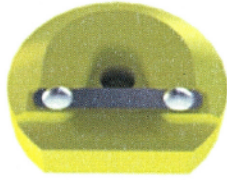
** Hinge Jaw Assembly required for sizes greater than 8 1/2

REPLACEMENT PARTS FOR TYPE "HT-100" TONG

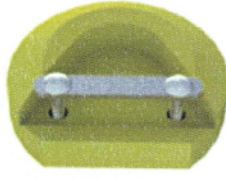
AOT #	ITEM #	DESCRIPTION	** SPARES	# REQ.	WT.
T200661-1	1-8	LEVER ASSY. F/TYPE HT-100 TONG		1	191.00
T200661	1	STANDARD LEVER ONLY F/TYPE HT-100 TONG		1	186.00
T200669	2	NAME PLATE		1	.10
T53301-4-3	3	NAME PLATE SCREWS		4	.05
T53201	4	GREASE FITTING		2	.05
T24529	5	TONG LINE RETAINER	1	1	3.65
T24249	6	TONG LINE RETAINER BOLT	1	1	1.08
T50809-N-C	7	WASHER F/RETAINER BOLT	1	1	.05
T51402-8	8	COTTER PIN	1	1	.04
T200668-2	9-16	HANGER ASSY. F/ HT-100 & HT-65 TONG		1	56.00
T200668	9	HANGER ONLY F/ HT-100 & HT-65 TONG		1	47.00
T200668-2-SH	9-16	SET BACK HANGER ASSY. F/ HT-100 & HT-65 TONG		1	64.00
T200668-SH	9	SET BACK HANGER ONLY F/ HT-100 & HT-65 TONG		1	55.00
T12586	10	BALANCING SCREW		1	2.75
T939099-596	11	BALANCING SCREW BOLT		1	2.10
T50512-C	12	BALANCING SCREW BOLT NUT		1	.40
T51402-16	13	COTTER PIN		1	.08
T12863	14	SUSPENSION RING		1	1.50
T939168-133	15	HANGER ADJUSTMENT SCREW		1	.75
T50314-C	16	HANGER JAM NUT		2	.25
T939099-556	17	HANGER BOLT	1	1	1.40
T50512-C	12	HANGER BOLT NUT	1	1	.25
T51402-16	13	COTTER PIN	1	1	.05
T200072-1	18-23	LONG JAW ASSY. F/TYPE HT-100 TONG		1	140.00
T200072	18	LONG JAW F/TYPE HT-100 TONG		1	128.00
T16401-2	19	1/2 X 1 1/4 X 5 TONG DIE	144	AS REQ.	.75
T17194	20	TONG DIE RETAINER PIN	24	AS REQ.	.03
T51402-6	21	COTTER PIN	36	AS REQ.	.01
T50012-52-C8	22	BOLT F/LONG JAW		1	1.75
T50212-C	23	NUT		1	.30
T200074-1	24-27, 19-21	SHORT JAW ASSY. F/TYPE HT-100 TONG		1	87.00
T200074	24	SHORT JAW ONLY F/TYPE HT-100 TONG		1	77.00
T939107-516	25	BOLT		1	.75
T50214-C	26	NUT		1	.35
T50912-C	27	LOCKWASHER		1	.04
T200073-1	28-30,4	LATCH ASSY.	1	1	47.00
T200073	28	LATCH		1	43.00
T24526	29	LATCH SPRING PLUNGER		1	1.75
T24530	30	PLUNGER PIN		1	.25
T24525	31	LATCH SPRING	12	1	.50
T200204	32	HINGE PIN	4.5	4.5	5.00
T24528	33	HINGE PIN NUT	4.5	4.5	.75
T51405-20	34	COTTER PIN	4.5	4.5	.03
T20000-SH-2	36	SAFETY HANDLE KIT (fits all AOT tongs)	3	3	3.25
T24529-TLB-MU	37	TONG LINE BLOCK, MAKE-UP (Right Hand)		A/R	31.00
T24529-TLB-BO	37	TONG LINE BLOCK, BREAK OUT (Left Hand)		A/R	31.00

**RECOMMENDED SPARE PARTS FOR 1 YEAR

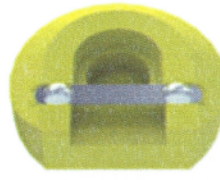
TONG SAFETY HANDLES



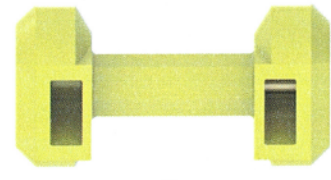
A



B



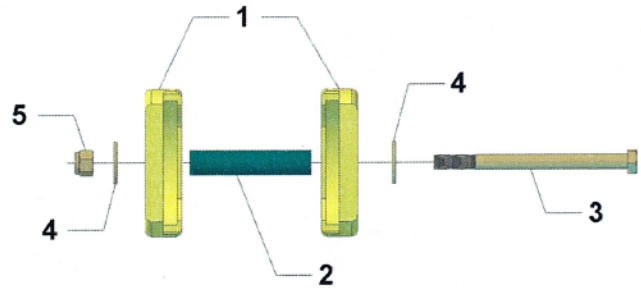
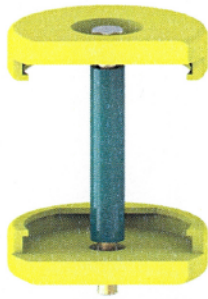
C



D

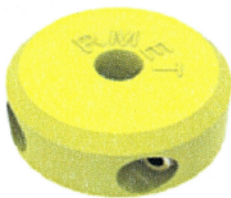
	ITEM	DESCRIPTION	WT.
20000-SH-1	A	2 PC TONG SAFETY HANDLE KIT F/ TONGS MODIFIED WITH 3/8" HOLES	1.25
20000-SH-2	A	2 PC TONG SAFETY HANDLE KIT F/ TONGS WITH STEEL HANDLES	1.25
20000-SH-3	B	2 PC TONG SAFETY HANDLE F/ TYPE "C" LONG JAW	1.10
20000-SH-4	C	2 PC TONG SAFETY HANDLE F/ TONG MODIFIED W/ 1 3/4" WIDE HANDLES W/ 3/4" HOLES	1.18
20000-DB	D	DUMBBELL TONG SAFETY HANDLE	2.16

SAFETY CAP ASSEMBLY FOR VARCO® TONGS



	ITEM	DESCRIPTION	QTY	WT.
250369	N/A	SAFETY CAP ASSEMBLY FOR VARCO TONGS	N/A	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 SAETY CAP ASSEMBLY	2	.08
250369-5	5	LOCKNUT FOR SAFETY CAP ASSEMBLY	1	.09

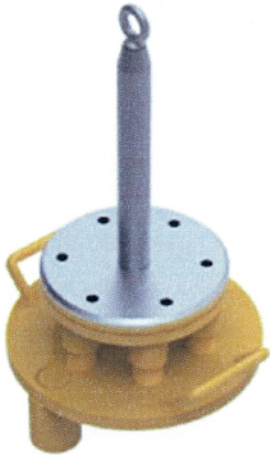
SAFETY BUMPERS



The 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.

	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

SAFETY MAKE-UP STAND



Safety Make-Up Stand is used to support stabilizers, subs, and other drilling tools during bottom hole make-up. It is located on the side of the rotary table, away from the slips and safety clamps.

	DESCRIPTION	PIN DIA.	RATING	HEIGHT	WT.
26-900	SAFETY MAKE-UP STAND	2"	10,000 LBS	24"	140

TONG DIE DRIVERS



A

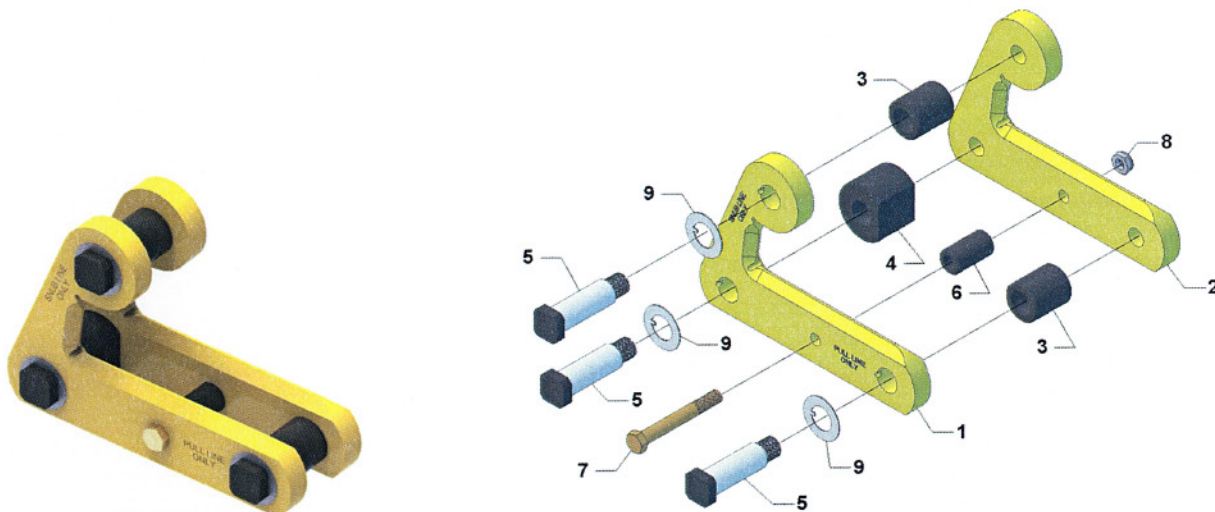


B

	ITEM	DESCRIPTION	WT.
26-300	A	1 1/4" STRAIGHT TONG DIE DRIVER	7.25
26-310	A	1" STRAIGHT TONG DIE DRIVER	7.25
26-350	B	1 1/4" ANGLE TONG DIE DRIVER	9.25
26-360	B	1" ANGLE TONG DIE DRIVER	9.25

TONG LINE BLOCKS

DESCRIPTION		WT.
24529-TLB	TONG LINE BLOCK	42.00



REPLACEMENT PARTS FOR THE RMET TONG LINE BLOCK

ITEM	DESCRIPTION	QTY	WT.
24529-TLB-1	1 TOP PLATE FOR TONG LINE BLOCK	1	15.10
24529-TLB-2	2 BOTTOM PLATE FOR TONG LINK BLOCK	1	15.10
24529-TLB-3	3 LINE BUSHING FOR TONG LINE BLOCK	2	1.10
24529-TLB-4	4 LEVER BUSHING FOR TONG LINE BLOCK	1	3.18
24529-TLB-5	5 PIN FOR TONG LINE BLOCK	3	1.62
24529-TLB-6	6 LOCATING BUSHING FOR TONG LINE BLOCK	1	.50
24529-TLB-7	7 BOLT FOR TONG LINE BLOCK	1	.48
24529-TLB-8	8 NUT FOR TONG LINE BLOCK	1	.05
24529-TLB-9	9 WASHER FOR TONG LINE BLOCK	3	.03

TYPE "B" TONG LINE BLOCK



ITEM	DESCRIPTION	WT.
9574-TLB	A TYPE "B" TONG LINE BLOCK ASSEMBLY	28.50
9574-TLB-01	B TYPE "B" TONG LINE BLOCK ASSEMBLY FOR USE WITH SHEAVE	20.75

MISCELLANEOUS DIES AND INSERTS

FC INSERTS

	DESCRIPTION	#REQ.	WT.
34-205	3 1/2" X 3 1/2" INSERTS (SET OF 4)	1	9.00
34-206	3 1/2" X 2 7/8" INSERTS (SET OF 4)	1	14.00
34-207	3 1/2" X 2 3/8" INSERTS (SET OF 4)	1	17.00
34-228	3 1/2" X 2 1/16" INSERTS (SET OF 4)	1	18.50
34-229	3 1/2" X 1 1/2" (1.900") INSERTS (SET OF 4)	1	19.00
34-230	3 1/2" X 1 1/4" (1.660") INSERTS (SET OF 4)	1	19.50
34-231	3 1/2" X 1" (1.315") INSERTS (SET OF 4)	1	20.00
34-209	4 1/2" X 4 1/2" INSERTS (SET OF 4)	1	10.00
34-210	4 1/2" X 4" INSERTS (SET OF 4)	1	12.00
34-211	4 1/2" X 3 1/2" INSERTS (SET OF 4)	1	14.00

*AVAILABLE IN FINE TOOTH FOR CHROME

COIL TUBING INSERTS

	DESCRIPTION	WT.
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

IRON ROUGHNECK[®] TONG DIES

	DESCRIPTION	WT.
ST-80LD	LOWER DIE ST-80	2.17
ST-80UD	UPPER DIE ST-80	3.05
AC01-01-03	MODEL 3080 IRON ROUGHNECK DIE	2.25

POWER TONG DIES

	DESCRIPTION	WT.
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

MISCELLANEOUS DIES AND INSERTS

DRILL PIPE TONG DIES

	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
4316	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
122050	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
082034	1/2" X 1 1/4" X 3 1/2" 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
9061255	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
102057	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
122050	3/4" X 1 1/4" X 5" TONG DIE	1.05
122057	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

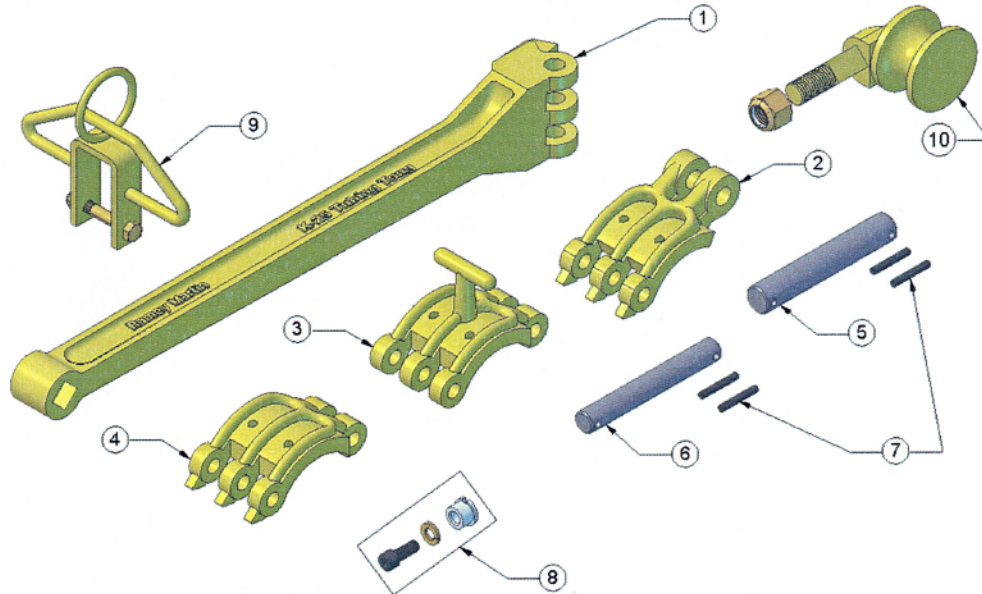
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"K-25" LIGHT WEIGHT TUBING TONG

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.



	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

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		2.75
05-107	4 K-25 LATCH JAW	1		2.12
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 72**

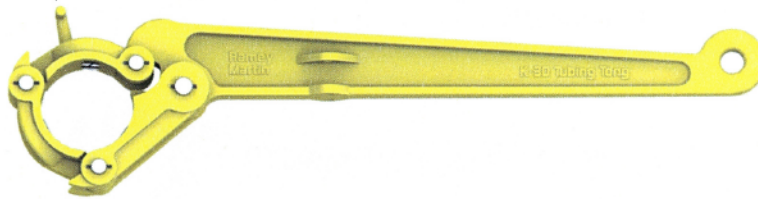
*RECOMMENDED SPARE PARTS FOR ONE YEAR

RECOMMENDED DIES FOR ONE YEAR ORDER 3 FOR EACH SIZE REQUIRED

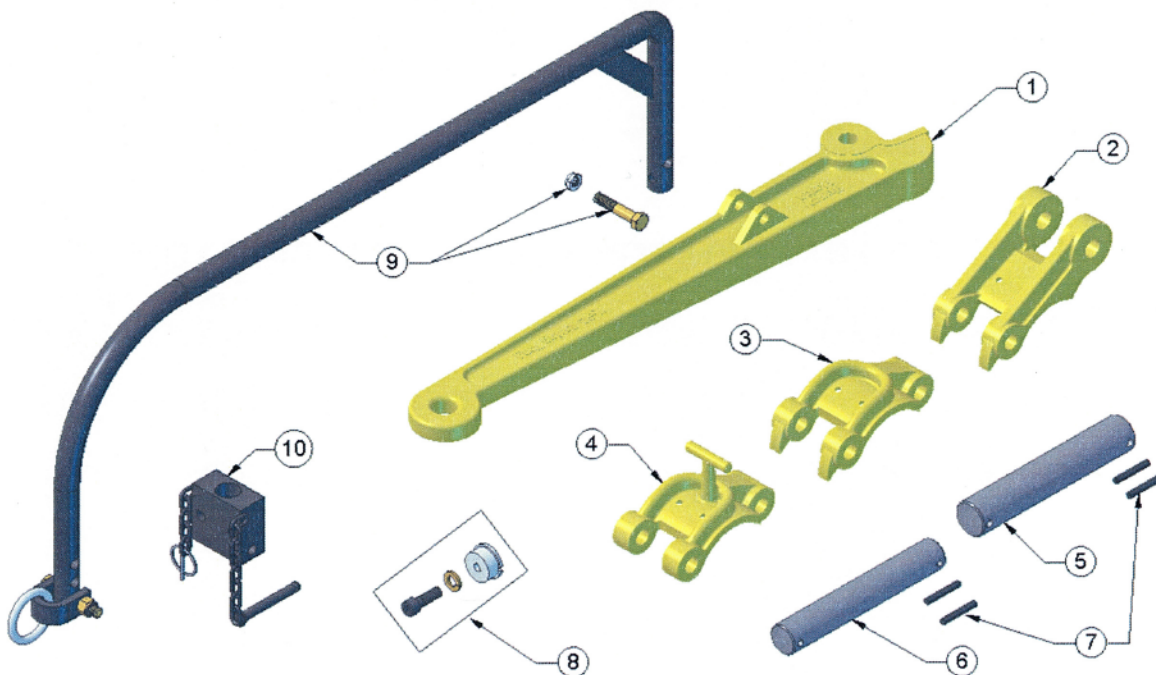
ALL PARTS ARE INTERCHANGEABLE WITH KELCO** K-20 & K-25 TUBING TONGS

K-30, K-50, K50-HT & K-70 MANUAL TUBING TONG

K-Series Tubing Tongs are designed for heavy duty service of tubing 1 1/2" to 7" 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.



	DESCRIPTION	RANGE	RATING	WT.
06-101	K-30 TONG ASSEMBLY COMPLETE LESS HANGER AND DIES	1 1/2 – 4 1/8	5,000 FT. LBS	48.00
06-102	K-30 TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER	1 1/2 – 4 1/8	5,000 FT. LBS	61.00
06-103	K-30 TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER	1 1/2 – 4 1/8	5,000 FT. LBS	64.00
06-501	K-50 TONG ASSEMBLY COMPLETE LESS HANGER AND DIES	2 3/8 – 5 1/2	7,500 FT. LBS	60.00
06-502	K-50 TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER	2 3/8 – 5 1/2	7,500 FT. LBS	75.00
06-503	K-50 TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER	2 3/8 – 5 1/2	7,500 FT. LBS	77.50
06-105	K-50HT TONG ASSEMBLY COMPLETE LESS HANGER AND DIES	2 3/8 – 5 1/2	15,000 FT. LBS	82.00
06-106	K-50HT TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER	2 3/8 – 5 1/2	15,000 FT. LBS	98.00
06-107	K-50HT TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER	2 3/8 – 5 1/2	15,000 FT. LBS	100.00
06-701	K-70 TONG ASSEMBLY COMPLETE LESS HANGER AND DIES	2 7/8 - 7	12,500 FT. LBS	82.00
06-702	K-70 TONG ASSEMBLY COMPLETE LESS DIES W/ STANDARD HANGER	2 7/8 - 7	12,500 FT. LBS	98.00
06-703	K-70 TONG ASSEMBLY COMPLETE LESS DIES W/ ROLLOVER HANGER	2 7/8 - 7	12,500 FT. LBS	100.00



REPLACEMENT PARTS FOR K-30 & K-50 TUBING TONGS

K-30 TUBING TONG

	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

K-50 TUBING TONG

	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

K-50HT TUBING TONG

	ITEM#	DESCRIPTION	#REQ.	*SPARES	WT.
06-704	1	TONG LEVER	1		40.00
06-601	2	LEVER JAW	1		14.00
06-602	3	CENTER JAW	1		13.00
06-603	4	LATCH JAW	1		13.00
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

K-70 TUBING TONG

	ITEM#	DESCRIPTION	#REQ.	*SPARES	WT.
06-704	1	TONG LEVER	1		40.00
06-705	2	LEVER JAW	1		14.00
06-706	3	CENTER JAW	1		13.00
06-707	4	LATCH JAW	1		13.00
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	.18
06-113	9	TONG HANGER W/ HANGER SCREW & NUT	1		13.00
06-114	10	ROLLOVER BLOCK	1		2.50

DIES REPLACEMENT REFER TO **PAGE 72**

*RECOMMENDED SPARE PARTS FOR 1 YEAR OPERATION

RECOMMENDED DIES FOR 1 YEAR ORDER 3 FOR EACH SIZE PIPE TO BE RUN

ALL PARTS ARE INTERCHANGEABLE WITH KELCO® TONGS

DIES FOR TUBING TONGS

	DESCRIPTION	# SET	WT.
04-119	K-20 - 3/4" (1.050")	3	1.13
04-120	K-20 - 1" (1.315")	3	1.07
04-121	K-20 - 1-1/4" (1.660")	3	.94
04-122	K-20 - 1-1/2" (1.900")	3	.75
04-123	K-20 - 2-1/16"	3	.63
04-124	K-20 - 2-3/8"	3	.41
05-129	K-25 - 3/4" (1.050")	3	1.75
05-120	K-25 - 1" (1.315")	3	1.63
05-121	K-25 - 1-1/4" (1.660")	3	1.50
05-122	K-25 - 1-1/2" (1.900")	3	1.32
05-123	K-25 - 2-1/16"	3	1.30
05-124	K-25 - 2-3/8"	3	1.25
05-125	K-25 - 2-1/2"	3	.95
05-126	K-25 - 2.697"	3	.63
05-127	K-25 - 2.776"	3	.55
05-128	K-25 - 2-7/8"	3	.58
06-133	K-30 - 1-1/4" (1.660")	3	5.00
06-134	K-30 - 1-1/2" (1.900")	3	4.60
06-119	K-30 - 2-1/16"	3	4.10
06-120	K-30 - 2-3/8	3	3.80
06-121	K-30 - 2-7/8"	3	3.10
06-135	K-30 - 3"	3	3.00
06-122	K-30 - 3-1/16"	3	2.80
06-123	K-30 - 3-1/8	3	2.75
06-124	K-30 - 3-1/4"	3	2.50
06-130	K-30 - 3-3/8"	3	2.40
06-125	K-30 - 3-1/2"	3	2.10
06-126	K-30 - 3.668"	3	1.70
06-127	K-30 - 3-3/4"	3	1.50
06-131	K-30 - 3-7/8"	3	1.40
06-573	K-50 & K-50HT - 2 3/8"	3	7.50
06-575	K-50 & K-50HT - 2-7/8"	3	6.33
06-576	K-50 & K-50HT - 3-1/2"	3	5.33
06-577	K-50 & K-50HT - 3-3/4"	3	4.74
06-578	K-50 & K-50HT - 4"	3	4.15
06-579	K-50 & K-50HT - 4-1/8"	3	4.05
06-580	K-50 & K-50HT - 4-1/2"	3	3.50
06-581	K-50 & K-50HT - 4-3/4"	3	2.92
06-582	K-50 & K-50HT - 5"	3	2.33
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
06-756	K-70 - 4 1/2"	3	10.50
06-755	K-70 - 4 3/4"	3	10.25
06-754	K-70 - 5"	3	9.50
06-753	K-70 - 5 1/2"	3	8.00
06-759	K-70 - 5 3/4"	3	7.25
06-752	K-70 - 6"	3	6.25
06-751	K-70 - 6 5/8"	3	4.75
06-750	K-70 - 7"	3	3.00

RING GASKETS



TYPE "R", "RX", & "BX" RING GASKETS

	WT.
R-24	.87
R-27	1.00
R-31	1.14
R-35	1.25
R-37	1.37
R-39	1.49
R-45	1.94
R-46	2.38
R-49	2.47
R-50	4.42
R-53	2.97
R-53-RC	
R-54	5.30
R-57	3.49
R-57-RC	
R-66	7.69
R-73	6.59
R-74	12.91

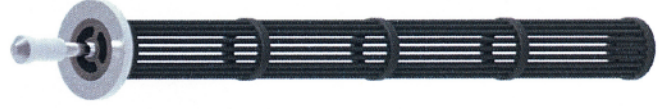
	WT.
RX-39	2.31
RX-46	3.67
RX-54	7.63

	WT.
BX-151	.33
BX-152	.41
BX-153	.62
BX-154	.85
BX-155	1.44
BX-156	4.04
BX-158	9.36
BX-159	14.08
BX-160	6.64

NOTE: ABOVE TABLES DO NOT LIST ALL TYPES. OTHER TYPES ARE AVAILABLE UPON REQUEST
"R" TYPE RING GASKETS ARE OVAL. IF OCTAGON GASKETS ARE REQUIRED, PLEASE SPECIFY WHEN ORDERING.

**We Keep, In Stock,
A Complete Line of the Following:
R, RX, BX, & Stainless Steel
Ring Gaskets**

MUD SCREENS



SLOTTED AND ROD TYPE DRILL PIPE MUD SCREENS

SLOTTED TYPE *	
	SIZE
MS-1011	4 1/2" IF
MS-1012	XT-39
MS-1013	4 1/2" XH
MS-1014	4" FH
MS-1015	3 1/2" IF
MS-1016	XT-50
MS-1017	HT-55
MS-1018	5 1/2" IF
MS-1019	2 7/8" IF

ROD TYPE **	
	SIZE
MS-2011	4 1/2" IF
MS-2012	XT-39
MS-2013	4 1/2" XH
MS-2014	4" FH
MS-2015	3 1/2" IF
MS-2016	XT-50
MS-2017	HT-55
MS-2018	5 1/2" IF
MS-2019	2 7/8" IF
MS-2020	6 5/8" REG

* TUBE IS MANUFACTURED FROM 304SS

** RODS ARE MANUFACTURED FROM 316SS

RETRIEVABLE FISH NECK IS MANUFACTURED FROM 316SS

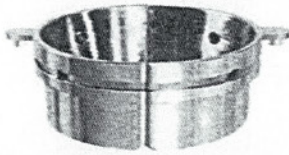
PIPE FLANGES ARE MANUFACTURED FROM 4140HT

STANDARD LENGTH = 24". ADDITIONAL LENGTHS SPECIFIED IN INCHES AFTER THE PART NUMBER (I.E. MS-1011-12)

MUD SCREENS ARE POWDERED COATED TO EXTEND USE AND PREVENT DETERIORATION

ROD TYPE MUD SCREENS HAVE BEVELS ON RINGS TO RESIST WEAR WHILE MUD IS PASSES THROUGH

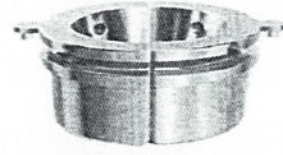
INSERT BOWLS



INSERT BOWL 1



INSERT BOWL 2



INSERT BOWL 3

	DESCRIPTION	REF.#	WT.
34-101	INSERT BOWL NO. 1 FOR 13 3/8" - 11 3/4" CASING (23" - 27 1/2" Master Bushings)	1903	326
34-102	INSERT BOWL NO. 2 FOR 10 3/4" - 9 5/8" CASING (23" - 27" Master Bushings)	1904	460
34-103	INSERT BOWL NO. 3 FOR 8 5/8" & SMALLER CASING (23" - 27 1/2" Master Bushings)	1810	664
34-301	INSERT BOWL NO. 1 FOR 13 3/8" - 11 3/4" CASING (37 1/2" - 49 1/2" Master Bushings)	6610	335
34-302	INSERT BOWL NO. 2 FOR 10 3/4" - 9 5/8" CASING (37 1/2" - 49 1/2" Master Bushings)	6609	470
34-303	INSERT BOWL NO. 3 FOR 8 5/8" & SMALLER CASING (37 1/2" - 49 1/2" Master Bushings)	6608	625

CASING BUSHINGS



CB



CUL

	DESCRIPTION	REF.#	WT.
34-401	20" CB BUSHING FOR ALL 27 1/2" API ROTARY TABLES (SPLIT)	6695	713
34-418	20" CUL BUSHING FOR ALL 27 1/2" API ROTARY TABLES (SOLID)	3103	975
34-405	20" CB BUSHING FOR 37 1/2" - 49 1/2" NATIONAL ROTARY TABLES	10187	1600
34-411	24" CB BUSHING FOR 37 1/2" - 49 1/2" NATIONAL ROTARY TABLES	11253	1200
34-412	26" CB BUSHING FOR 37 1/2" - 49 1/2" NATIONAL ROTARY TABLES	16454	1100
34-404	30" CB BUSHING FOR 37 1/2" - 49 1/2" NATIONAL ROTARY TABLES	11763	1100
34-406	20" CB BUSHING FOR 37 1/2" - 49 1/2" OILWELL, WIRTH, & GARDNER-DENVER	10188	1670
34-422	24" CB BUSHING FOR 37 1/2" - 49 1/2" OILWELL, WIRTH, & GARDNER-DENVER	6170	1400
34-421	26" CB BUSHING FOR 37 1/2" - 49 1/2" OILWELL, WIRTH, & GARDNER-DENVER	6170-26	1250
34-420	30" CB BUSHING FOR 37 1/2" - 49 1/2" OILWELL, WIRTH, & GARDNER-DENVER	12093	1150
34-407	20" CB BUSHING FOR 37 1/2" - 49 1/2" IDECO ROTARY TABLES	10189	1670
34-424	26" CB BUSHING FOR 37 1/2" - 49 1/2" IDECO ROTARY TABLES	N/A	1160
34-423	30" CB BUSHING FOR 37 1/2" - 49 1/2" IDECO ROTARY TABLES	12092 MTO	1100
34-408	20" CB BUSHING FOR 37 1/2" - 49 1/2" EMSCO (S/N 49 AND UP)	11553	1600
34-419	30" CB BUSHING F/37 1/2" - 49 1/2" EMSCO ROTARY TABLE (S/N 49 AND UP)	11633	1160

CASING BUSHINGS

RMET REDUCING BUSHINGS FOR CB & CUL

	DESCRIPTION	REF.#	WT.
34-409	20" X 16" REDUCING BUSHING FOR CB BUSHING	6127	570
34-410	13 3/8" - 11 3/4" NO. 1 INSERT BOWL FOR CB BUSHING	6126	900
34-416	10 3/4" - 9 5/8" NO. 2 INSERT BOWL FOR CB BUSHING	6114	252
34-417	20" X 16" REDUCING BUSHING FOR CUL BUSHING	3104	562
34-413	13 3/8" - 11 3/4" NO. 1 INSERT BOWL FOR CUL BUSHING	3105	846
34-414	10 3/4" - 9 5/8" NO. 2 INSERT BOWL FOR CUL BUSHING	1902	242
34-415	8 5/8" & SMALLER NO. 3 INSERT BOWL FOR CUL BUSHING	1809	464



(Actual length of cable longer than shown)

A



(Actual length of cable longer than shown)

B

ACCESSORIES

	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)	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)	6699-CAB	140

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"27-HPD" PIN DRIVE & "HSD" SQUARE DRIVE KELLY BUSHINGS

HS and HP series of Kelly Drive Bushings are designed for rugged high torque, high speed drilling operations. They will accommodate 3" Hex thru 6" Square Kelly's. The 27-HPD bushing fits 22" - 49 1/2" pin drive master bushings. The HSD bushing fits square drive master bushings.



KELLY SIZE/TYPE	"27-HPD" COMPLETE W/ WRENCH & WIPER			"HSD" COMPLETE		
	PART NO.	WT.	REF.#	PART NO.	WT.	REF.#
3" HEX	32-030	1445	3650-30	32-530	1425	3635-30
3 1/2" HEX	32-035	1445	3650-35	32-535	1425	3635-35
4 1/4" HEX	32-042	1445	3650-42	32-542	1425	3635-42
5" HEX	32-050	1445	3650-50	32-550	1425	3635-50
5 1/4" HEX	32-052	1445	3650-52	32-552	1425	3635-52
6" HEX	32-060	1445	3650-60	32-560	1425	3635-60
3" SQUARE	32-130	1500	3651-30	32-630	1475	3636-30
3 1/2" SQUARE	32-135	1500	3651-35	32-635	1475	3636-35
4 1/4" SQUARE	32-142	1500	3651-42	32-642	1475	3636-42
5 1/4" SQUARE	32-152	1500	3651-52	32-652	1475	3636-52
6" SQUARE	32-160	1500	3651-60	32-660	1475	3636-60

"27-HPD" PIN DRIVE & "HSD" SQUARE DRIVE KELLY BUSHINGS

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
RECOMMENDED SPARES INCLUDE TWO WIPER RUBBERS FOR EACH SIZE OF KELLY TO BE RUN

REPLACEMENT PARTS FOR "27-HPD" & "HSD" KELLY BUSHINGS

27-HPD					HSD		
PART #	DESCRIPTION	QTY	REF.#	WT.	PART #	REF.#	WT.
32-653	BODY ASSY. COMPLETE LESS ROLLER ASSY.	1	3653	990.00	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	51110	.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 ONE YEAR OPERATION

ROLLER ASSEMBLY PARTS, FOR "27-HPD" & "HSD" KELLY BUSHINGS

	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

*RECOMMENDED SPARES FOR ONE YEAR OPERATION

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FLOAT VALVE OVERVIEW

Valve Body

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

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)

Springs

Inconel® or stainless steel springs come standard on all our valves. These 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.

PLUNGER-TYPE VALVES

337-365-4411

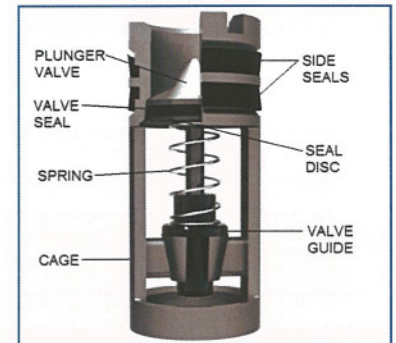
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MODEL

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

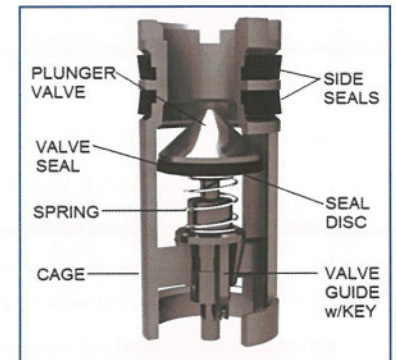


MODEL

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

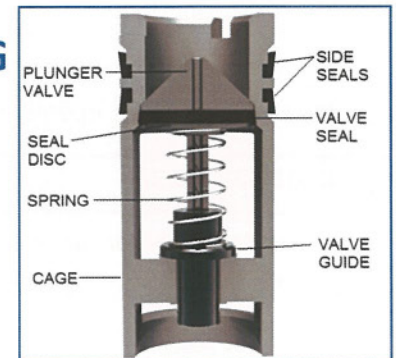


MODEL

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 allowing differential pressure measuring when required. The port also permits partial automatic fill during run in.



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.

FLAPPER-TYPE VALVES

337-365-4411

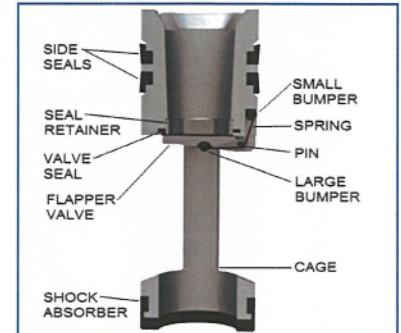
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MODEL

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.

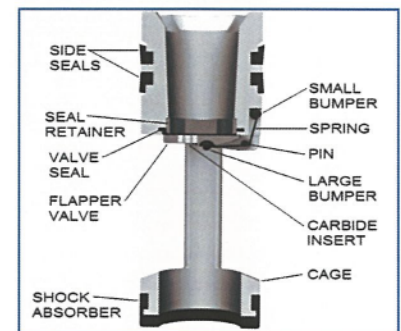


MODEL

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.

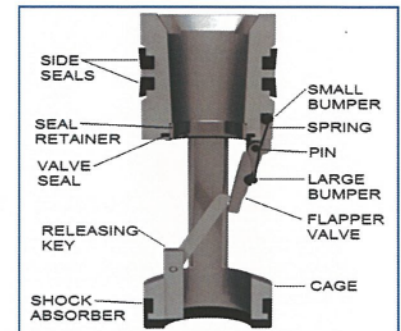


MODEL

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.

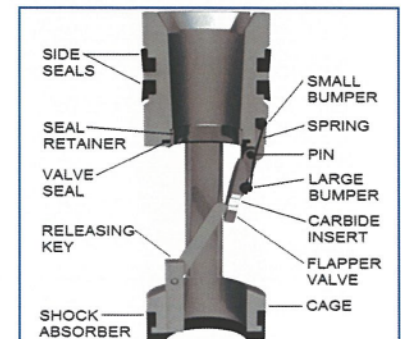


MODEL

GCA

FLAPPER TYPE-AUTO FILL PRESSURE MONITORING

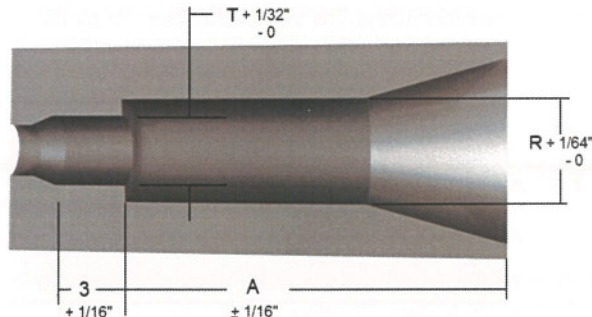
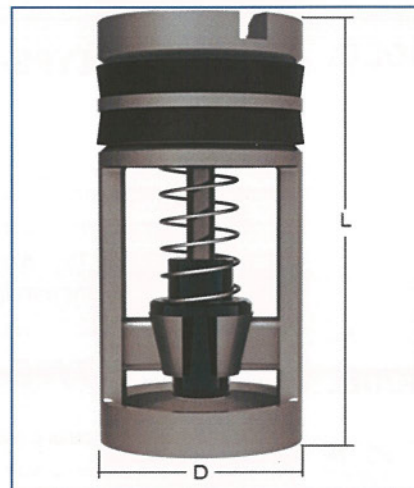
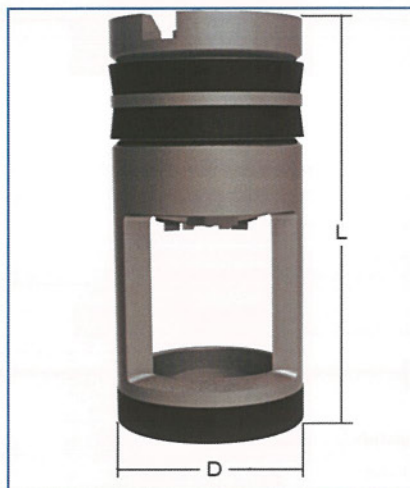
The Model GCA Automatic-Fill/Pressure-Monitoring flapper-type float valve includes all the advantages of the Models G, GC, and GA. An unobstructed bore through the float valve, when open, permits automatic partial filling of the drill pipe from the bottom and measuring differential pressures when necessary.



DIMENSIONAL DATA

337-365-4411

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

Valve Size	D Diameter of Valve	R (D + 1/32") Diameter Recess F/ Valve	L Valve Length	T* Baffle Plate Recess Diameter	Valve I.D. Model F	Valve I.D. 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.

TOOL JOINT SPECIFICATION

337-365-4411

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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" 5-9/16"	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 STREAM-LINE		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	26
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

BIT SUB INFORMATION

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VALVE SIZE	THREAD SIZE	TOOL JOINT TYPE	STANDARD OD	FACE TO SHOULDER 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"	API IF	8"	30"
1F-2R	2-3/8"		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.

FLOAT VALVE REPAIR KITS

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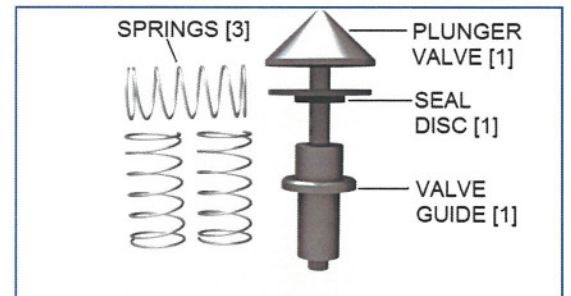
RUBBER REPAIR KIT F

MODEL F	MODEL FC
MODEL FA	



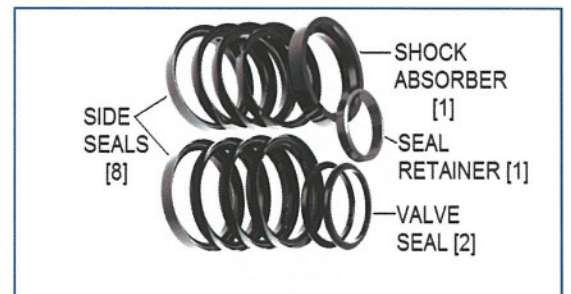
METAL REPAIR KIT F

MODEL F	MODEL FC
MODEL FA	



RUBBER REPAIR KIT G

MODEL G	MODEL GA
MODEL GC	MODEL GCA



METAL REPAIR KIT G

MODEL G	MODEL GA
MODEL GC	MODEL GCA



VALVE PULLERS

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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

STANDARD SERVICE VALVES

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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	1.5	15929800	1.0	16012200	0.5	N/A	N/A	911200	6.0
1F-2R	480131422	1.5	16011300	2.0	16012300	0.7	N/A	N/A	911200	6.0
2F-3R	480132432	2.5	16011400	2.0	16012400	0.8	933600	8.0	912432	8.0
3F	480133400	5.0	16011500	2.0	16012500	1.0	933600	10.0	913400	10.0
3.5 IF	480133600	5.0	16011500	2.0	16012600	1.0	933600	10.0	913400	10.0
4R	480134200	7.0	16011700	2.0	16012700	1.0	934200	12.0	914200	12.0
4F	480134400	9.5	16011800	3.0	16012800	1.0	934210	13.0	914400	13.0
5R	480135200	9.5	16011900	4.0	16012900	1.0	934225	15.0	914400	15.0
5F-6R	480135462	16.0	16012000	5.0	16013000	1.1	934250	19.0	914400	19.0
6F	480136400	28.0	16012100	5.0	16013100	2.0	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	13.0
5R	480185200	9.5	70017600	4.0	16012900	1.0	934225	15.0	914400	15.0
5F-6R	480185462	16.0	70017700	5.0	16013000	1.1	934250	19.0	914400	19.0
6F	480186400	28.0	70017800	5.0	16013100	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)
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	16012600	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	13.0
5R	480125200	9.5	16011905	3.5	16012900	1.0	934225	15.0	914400	15.0
5F-6R	480125462	16.0	16012005	5.0	16013000	1.1	934250	19.0	914400	19.0
6F	480126400	28.0	16012105	5.0	16013100	1.2	934265	21.0	916400	21.0

STANDARD SERVICE VALVES

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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	N/A
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

STANDARD SERVICE VALVES

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

SIZE	ASSEMBLY	WEIGHT (lbs)	METAL REPAIR KIT	WEIGHT (lbs)	RUBBER 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

H₂S/HIGH TEMP SERVICE VALVES

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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	13.0
5R	480305200	9.5	16011900	4.0	71082401	1.0	934225	15.0	914400	15.0
5F-6R	480305462	16.0	16012000	5.0	71082501	1.1	934250	19.0	914400	19.0
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)
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
5F-6R	480355462	16.0	16012005	5.0	71082501	1.1	934250	19.0	914400	19.0

H₂S/HIGH TEMP SERVICE VALVES

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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 ASSEM- BLY	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

BAFFLE PLATES

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BAFFLE PLATES

Baffle plates can be placed on top of the drill-pipe float valve or the drill bit too 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	4F	SPIDER	0.7	3.44
	4-1/2" API REG	4R			
	5-9/16" API REG	5R			
K-91723*	5-9/16" FH	5F-6R	SPIDER	1.0	4.68
	6-5/8" FH	5F-6R			
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.