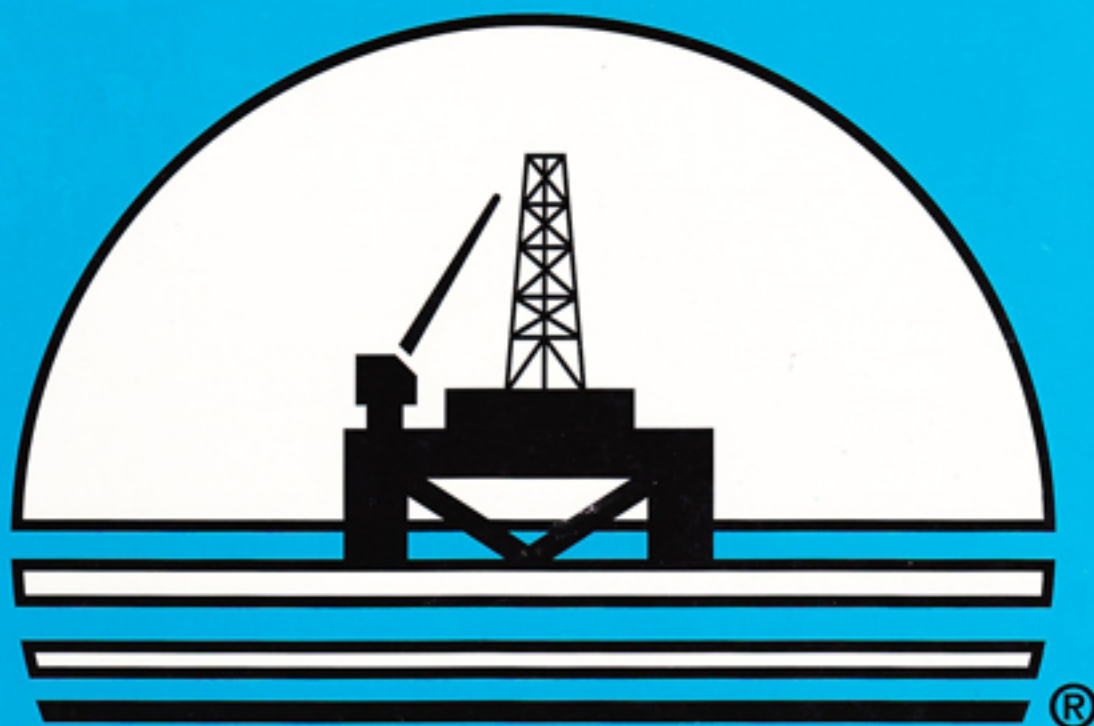


WESTCOAST B.O.P. PRODUCTS, INC.

"BLOWOUT PREVENTER SPECIALTIES"



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◇ SOME ITEMS LISTED ARE SUBJECT TO AVAILABILITY ONLY ◇

REPLACEMENT PARTS FOR : SHAFFER RAM & SPHERICAL BLOWOUT PREVENTER PARTS

PART #	DESCRIPTION	PART #	DESCRIPTION
010000	SET SCREW	030015	O-RING
010003	RETAINER PISTON CAP SCREW	030017	O-RING
010004	PISTON SCREW, SECONDARY SEAL	030018	O-RING
010015	SET SCREW	030019	O-RING
010087	ALLEN HEAD CAP SCREW	030020	O-RING
010127	MANIFOLD CAP SCREW	030022	O-RING
010220	CAP SCREW- RAM CLIP	030023	O-RING
010554	CYLINDER HEAD CAP SCREW	030030	O-RING
010608	HINGE BRACKET CAP SCREW	030032	PACKING
010614	CAP SCREW	030054	O-RING, HINGE MANIFOLD
010622	ALLEN HEAD CAP SCREW	030056	O-RING, CYLINDER MANIFOLD
010691	SOCKET HEAD CAP SCREW	030058	O-RING, CYLINDER MANIFOLD
010696	ALLEN HEAD CAP SCREW	030060	O-RING, HINGE BRACKET
010726	CAP SCREW	030061	O-RING, CYLINDER MANIFOLD
010727	CAP SCREW	030064	O-RING, HINGE PIN
010753	DOOR BOLT 6" LWP	030065	O-RING, HINGE PIN
011011	STUD	030066	O-RING, HINGE PIN
011022	STUD BONNET	030069	O-RING, ADAPTER INNER
011033	STUD BONNET	030071	O-RING
011203	CAP SCREW, HINGE PIN	030076	O-RING
020000	NUT, BODY STUD	030077	O-RING, ADAPTER OUTER
020003	NUT, BODY STUD	030079	O-RING
020013	NUT, BODY STUD	030094	DOOR SEAL 4"-10M
020016	NUT, BODY STUD T-B & E	030099	O-RING, END PLATE
020102	NUT, CYLINDER HEAD LWS	030100	O-RING, CYLINDER HEAD
020104	NUT, SPH	030102	DOOR SEAL 7"-10M
020105	NUT	030105	DOOR SEAL 9"-5M LWS
020106	NUT, SPH	030106	DOOR SEAL 11"-3M LWS
020107	NUT, SL	030108	O-RING, CYLINDER
020108	NUT, SPH	030111	O-RING
020109	NUT, SPH	030124	O-RING
020110	NUT, SPH	030130	O-RING
020111	NUT, BONNET BOLT	030134	O-RING, CYLINDER HEAD
020527	WASHER 2½" U-JOINT	030141	O-RING, CYLINDER HEAD
025000	LOCKWASHER	030145	O-RING
030000	O-RING	030166	DOOR SEAL 6" T-B & E
030001	O-RING	030167	DOOR SEAL 8" T-B & E
030002	O-RING	030168	DOOR SEAL 10" T-B & E
030003	RAM SHAFT PACKING	030169	DOOR SEAL 12" T-B & E
030004	RAM SHAFT PACKING RING	030169-A	DOOR SEAL 12" T-A
030005	O-RING	030170	O-RING, DOOR 16"-2M T-B & E
030006	O-RING	030176	DOOR SEAL 21"-2M/3M LWS
030007	O-RING	030182	O-RING
030008	O-RING	030184	O-RING
030009	O-RING	030185	O-RING
030011	O-RING	030188	O-RING
030012	O-RING		
030014	O-RING		

REPLACEMENT PARTS FOR : **SHAFFER RAM & SPHERICAL BLOWOUT PREVENTER PARTS**

PART #	DESCRIPTION	PART #	DESCRIPTION
030189	O-RING	031024	SEAL, PISTON OD
030190	O-RING	031025	SEAL, ADAPTER ID LOWER
030191	O-RING	031026	SEAL, ADAPTER OD
030210	LOCKING SHAFT PACKING	031027	SEAL, ADAPTER TOP
030211	END RING SHAFT PACKING	031029	SEAL, PISTON OD
030213	DOOR SEAL 8" T-A	031035	SEAL, ADAPTER TOP
030215	RAM SHAFT PACKING 4¼"	031036	SEAL, ADAPTER TOP
030216	RAM SHAFT PACKING 4¼"	031037	SEAL, ADAPTER ID LOWER
030244	SEAL, ADAPTER TOP	031038	DOOR SEAL
030267	O-RING, PISTON	031046	SEAL, ADAPTER ID LOWER
030270	O-RING	031048	SEAL, PISTON OD
030329	O-RING, CYLINDER	031053	SEAL, ADAPTER OD
030405	SEAL, ADAPTER TOP	031055	SEAL, ADAPTER TOP
030409	SEAL, ADAPTER OD	031065	SEAL, ADAPTER TOP
030596	O-RING	031071	SEAL, ADAPTER TOP
030598	O-RING, END PLATE	031076	SEAL, PISTON ID LOWER
030629	SIDE PLUG SEAL	031078	SEAL, ADAPTER ID LOWER
030653	O-RING	031081	SEAL, ADAPTER ID UPPER
030760	SEAL, ADAPTER OD	031082	SEAL, PISTON ID UPPER
030761	SEAL, PISTON/ADAPTER ID LOWER	031085	SEAL, ADAPTER ID UPPER
030765	SEAL, PISTON OD/ID LOWER	031086	SEAL, PISTON ID UPPER
030767	SEAL, PISTON OD	031087	SEAL, ADAPTER ID UPPER
030770	SEAL, PISTON ID LOWER	031088	SEAL, PISTON ID UPPER
030771	SEAL, ADAPTER ID LOWER	031094	SEAL, ADAPTER TOP
030772	SEAL, ADAPTER OD	031095	SEAL, ADAPTER TOP
030773	SEAL, ADAPTER TOP	031096	SEAL, ADAPTER ID UPPER
030778	PISTON SEAL 10"	031097	SEAL, PISTON ID UPPER
030780	SEAL, PISTON OD/ID LOWER	031098	SEAL, ADAPTER ID UPPER
030781	SEAL, ADAPTER ID LOWER	031099	SEAL, PISTON ID UPPER
030782	SEAL, PISTON OD	031100	SEAL, ADAPTER ID UPPER/LOWER
030783	SEAL, ADAPTER OD	031101	SEAL, PISTON ID LOWER
030784	SEAL, ADAPTER OD	031102	SEAL, ADAPTER ID UPPER/LOWER
030785	PISTON SEAL 14"	031104	SEAL, ADAPTER ID UPPER
030790	BACK-UP RING	031105	SEAL, PISTON ID UPPER
030791	BACK-UP RING	031107	SEAL, ADAPTER ID UPPER
031000	SEAL, PISTON ID LOWER	031108	SEAL, PISTON ID UPPER
031002	SEAL, PISTON/ADAPTER ID LOWER	031109	SEAL, ADAPTER ID UPPER
031011	SEAL, ADAPTER OD	031110	SEAL, PISTON ID UPPER
031012	SEAL, PISTON OD/ID LOWER	031111	SEAL, PISTON ID UPPER
031013	SEAL, PISTON OD	031112	SEAL, ADAPTER ID UPPER
031014	SEAL, ADAPTER ID LOWER	031113	SEAL, PISTON ID UPPER
031015	SEAL, ADAPTER OD	031114	SEAL, ADAPTER ID UPPER
031018	SEAL, PISTON/ADPTR OD LOWER	031115	SEAL, ADAPTER TOP
031019	SEAL, ADAPTER OD	031119	SEAL, ADAPTER OD
031020	SEAL, ADAPTER OD	031120	SEAL, ADAPTER TOP
031021	SEAL, ADAPTER TOP	031121	SEAL, PISTON ID UPPER/LOWER
031022	SEAL, ADAPTER TOP	031122	SEAL, ADAPTER ID UPPER/LOWER

REPLACEMENT PARTS FOR : SHAFFER RAM & SPHERICAL BLOWOUT PREVENTER PARTS

PART #	DESCRIPTION	PART #	DESCRIPTION
031123	SEAL, PISTON OD	114653	RAM SHAFT 5¼"
031124	SEAL, ADAPTER OD	114677	RAM SHAFT SEAL ASSEMBLY 4¼"
031125	SEAL, ADAPTER TOP	115021	PISTON RUBBER 8½"
031126	SEAL, ADAPTER OD	115023	THRUST BUSHING
031145	SEAL, ADAPTER TOP	115025	RAM SHAFT PACKING ADAPTER
031146	SEAL, PISTON ID UPPER/LOWER	115026	END RING
031148	SEAL, ADAPTER ID UPPER/LOWER	115050	LARGE HANDWHEEL
031150	SEAL, ADAPTER TOP	115209	BEARING, HINGE PIN
031152	SEAL, PISTON ID LOWER	115227	DOOR CAP SCREW
031160	SEAL, ADAPTER ID UPPER/LOWER	115264	END RING
031224	SEAL, ADAPTER ID UPPER/LOWER	116087	BACK-UP HYDRAULIC SEAL
031225	SEAL, PISTON ID UPPER/LOWER	116088	WIPER RING HOLDER
031226	SEAL, PISTON OD	116134	DOOR CAP SCREW
031260	SEAL	116164	RAM SHAFT PACKING ADAPTER
040000	RETAINER	116201	SEAL, LOCKING SHAFT
040001	RETAINER	116203	PACKING
040002	SCRAPER RING	116204	WIPER RING
040146	RETAINER	116205	BEARING
040367	RETAINER	116206	PACKING END RING
040384	SCRAPER RING	116207	PACKING
040389	SCRAPER RING	116233	WIPER RING HOLDER
040395	SCRAPER RING	116234	PACKING RING
040723	RETAINER	116235	END RING
040951	RETAINER	116236	SCRAPER RING
040952	RETAINER	116237	SCRAPER RING HOLDER
041017	RETAINER	116238	SEAL, RAM SHAFT PACKING
041018	RETAINER	116239	END RING
041462	RETAINER PLUG	116240	WIPER RING
050000	SEALANT, SECONDARY SEAL	116241	WIPER RING HOLDER
050096	DOWEL PIN	116242	WIPER RING HOLDER
050267	GREASE FITTING	116843	LOCKING SHAFT SEAL ASSEMBLY
050296	GASKET, COPPER SIDE/END PLUG	116854	THRUST BUSHING
050297	CHEVRON PACKING	119262	WEAR RING 10"
050297-F	CHEVRON PACKING – FEMALE	119263	WEAR RING 14"
050298	GASKET, THRUST PLATE	121213	RETRACTING SCREW
050414	CHECK VALVE, SECONDARY SEAL	123303	PISTON BODY
050465	LOCK NUT	123304	PISTON
060500	ANCHOR SHACKLE	123340	LWP PISTON SEAL KIT
062211	SEAT SEAL	130010	RAM SHAFT
062218	PISTON SEAL	130012	PISTON LOCK NUT
065001	PLUG, HINGE	130014	THRUST BUSHING
065002	PLUG, HINGE BRACKET	130015	PACKING ADAPTER
066326	PIPE PLUG	130057	WASHER, T-64 RAM
066329	PIPE PLUG	130203	SL DOOR SEAL 13"-3M/5M
066335	PLUG, SECONDARY SEAL	130207	CYLINDER MANIFOLD
114651	RAM SHAFT 5¼"	130212	MANDREL

REPLACEMENT PARTS FOR : **SHAFFER RAM & SPHERICAL BLOWOUT PREVENTER PARTS**

PART #	DESCRIPTION	PART #	DESCRIPTION
130217	CYLINDER STUD	135072	LOCKING SEGMENT
130222	PISTON ASSEMBLY	135073	LOCKING CONE
130368	CHECK VALVE	135074	LOCKING PLATE
130413	PISTON ASSEMBLY	135075	RETAINER PLATE
130609	PACKING ADAPTER	135082	LOCKING SEGMENT
130832	RETRACTING SCREW T-50	135251	SL DOOR SEAL 13"-10M
130895	RAM SHAFT SEAL ASSEMBLY 5¼"	135252	LWS DOOR SEAL 13"-5M
130916	LOCKING SHAFT	135272	STUD
131104	U-JOINT 7"-5M LWS/11"-3M LWS	135545	RETAINING SCREW
131107	HANDWHEEL 7"-5M & 11"-3M LWS	135546	RETAINING SCREW
131914	SL DOOR SEAL 11"-10M	135575	RETRACTING SCREW
132414	PISTON LOCK NUT	135848	RETRACTING SCREW
132415	PACKING ADAPTER 3"	136321	SEAL LOCKING CONE
132420	PISTON BODY	136322	SEAL LOCKING CONE
132421	RETAINER	136334	SEAL LOCKING CONE
132422	PISTON RUBBER 6½"	136635	PLUG DOOR BLEEDER
132423	CAP SCREW	137881	RETRACTING SCREW
132424	HINGE PIN RETAINER	141186	WIPER RING
132492	RAM SHAFT SEAL ASSEMBLY 5¼"	141188	RETAINER
132532	RAM SHAFT SEAL ASSEMBLY 3"	141200	RETRACTING SCREW
132534	RAM SHAFT SEAL ASSEMBLY 3½"	141202	RETRACTING SCREW
132534-A	RAM SHAFT SEAL ASSEMBLY 3½"	141213	RAM SHAFT
132536	RAM SHAFT SEAL ASSEMBLY 4¼"	141214	WIPER RING
132536-A	RAM SHAFT SEAL ASSEMBLY 4¼"	141215	PACKING ADAPTER
132539	LOCKING SHAFT SEAL ASSY 1½"	141218	LOCKING SHAFT
132540	LOCKING SHAFT SEAL ASSY 2"	141221	THRUST BUSHING
132541	LOCKING SHAFT SEAL ASSY 2"	141222	WIPER RING
132649	HINGE BRACKET ASSEMBLY T-SL	141229	RAM SHAFT
133012	DOOR CAP SCREW	141230	BACK-UP WELL SEAL
133529	RAM SHAFT PACKING ADAPTER	141236	LOCKING SHAFT
133531	RAM SHAFT SEAL ASSEMBLY 2¼"	141237	WIPER RING
133600	LOCKING SHAFT SEAL ASSEMBLY	141238	WIPER RING HOLDER
134006	CYLINDER HEAD	141242	RAM SHAFT
134008	THRUST BUSHING 2"	141243	RETAINER
134009	WIPER RING HOLDER	141247	LOCKING SHAFT
134011	HINGE PIN	141258	THRUST BUSHING
134014	DOOR SEAL	141266	RAM SHAFT
134015	CAP SCREW	141268	LOCKING SHAFT
134016	CAP SCREW	141292	LOCKING SHAFT
134110	CYLINDER HEAD	141302	LOCKING SHAFT
134134	HINGE PIN	141317	RETAINER
134415	DOOR BOLT LWS	141366	BACK-UP HYDRAULIC SEAL
134484	PACKING ADAPTER 5¼"	142061	RETRACTING SCREW
134674	SPRING	142184	RETRACTING SCREW
134806	DOOR BOLT	142514	RAM SHAFT PACKING
134811	HINGE PIN	150487	STUD
134812	HINGE MANIFOLD STRAIGHT	150613	WEAR BAND
134915	CYLINDER MANIFOLD PIPE	150648	STUD

REPLACEMENT PARTS FOR : **SHAFFER RAM & SPHERICAL BLOWOUT PREVENTER PARTS**

PART #	DESCRIPTION	PART #	DESCRIPTION
150660	STUD	185174	RAM SHAFT SEAL ASSEMBLY
150721	STUD	192007	PISTON BODY
150753	STUD	192009	THRUST BEARING
150832	STUD	192010	RETAINER PLATE
150836	KEY	192012	CAP SCREW
151106	STUD	192022	LOCKING SCREW
151142	STUD	192033	RETRACTING SCREW
151399	STUD	192034	RETAINING SCREW
177003	RAM CLIP – BRASS	192072	CYLINDER CAP SCREW
177006	SPROCKET	192103	PISTON LOCK NUT
177007	CHAIN	192209	RETRACTING SCREW
177016	BRASS FULL NUT RH 6"/8"	192370	RAM SHAFT PACKING
177017	BRASS FULL NUT LH 6"/8"	192371	PACKING ADAPTER – MALE
177216	BRASS FULL NUT RH 10"/12"	192703	LOCKING SHAFT
177217	BRASS FULL NUT LH 10"/12"	192712	LOCKING SCREW
177516	HYDRAULIC PACKING 6"	202007	U-JOINT 11"-5M LWS/A/B/E
177613	HYDRAULIC PACKING 8"		&13"-5M/10M LWS/SL
177814	HYDRAULIC PACKING 10"	721524	RAM SHAFT PACKING SENTINEL
177915	HYDRAULIC PACKING 12"	721526	PISTON SEAL SENTINEL

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / TYPE 50 ROTATING

PART #	DESCRIPTION	PART #	DESCRIPTION
030032	RING, CHEVRON	143050	HEXAGON KELLY DRIVE 5¼"
143024	BEARING SPACER, INNER	143057	LIP SEAL
143025	BEARING SPACER, OUTER	143059	WEAR SLEEVE
143030	RING, OUTSIDE DRIVER EAR	143104	RING, MALE CHEVRON
143032	RING, RETAINER DRIVE UNIT	143105	RING, SPACER
143037	SQUARE KELLY DRIVE 4½"	143106	RING, CHEVRON ADAPTER
143048	HEXAGON KELLY DRIVE 4½"	143109	STRIPPER HOLDER

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / TYPE 79 ROTATING

030149	O-RING	147389	BODY SEAL
030347	O-RING	147500	ROTATING SEAL ASSEMBLY
030351	O-RING	147501	BOTTOM ADAPTER RING
030386	O-RING	147502	LANTERN ADAPTER RING
030822	O-RING	147503	ROTATING SEAL GLAND
147380	ROTATING SLEEVE	147504	ROTATING SEAL
147381	WEAR SLEEVE	147505	ROTATING SEAL
147384	BEARING ASSEMBLY	147506	TOP ADAPTER RING
147386	OIL SEAL	147507	WAVE SPRING

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / SPHERICAL SEAL KITS**

PART #	DESCRIPTION	PART #	DESCRIPTION
155092	SPHERICAL SEAL KIT 4"-10M	155069	SPHERICAL SEAL KIT 16"-5M
155078	SPHERICAL SEAL KIT 7"-3M	155071	SPHERICAL SEAL KIT 16"-5M DUAL
155079	SPHERICAL SEAL KIT 7"-5M	155068	SPHERICAL SEAL KIT 18"-5M
155079-OS	OLD STYLE SPH SEAL KIT 7"-5M	155566	SHPERICAL SEAL KIT 18"-10M
155050	SPHERICAL SEAL KIT 7"-10M	156715	NEW STYLE SPH SEAL KIT 18"-5M
155077	SPHERICAL SEAL KIT 9"-3M	155072	SPHERICAL SEAL KIT 18"-5M DUAL
155076	SPHERICAL SEAL KIT 9"-5M	155566	SPHERICAL SEAL KIT 18"-10M
155075	SPHERICAL SEAL KIT 11"-3M	155067	SPHERICAL SEAL KIT 21"-2M
155030	SPHERICAL SEAL KIT 11"-5M	155067-OS	OLD STYLE SPH SEAL KIT 21"-2M
155168	SPHERICAL SEAL KIT 11"-10M	156527	SPHERICAL SEAL KIT 21"-3M
152630	OLD STYLE SPH SEAL KIT 11"-10M	155066	SPHERICAL SEAL KIT 21"-5M
155073	SPH SEAL KIT 13"-3M & 13"-5M LT WT	155171	SPHERICAL SEAL KIT 21"-5M DUAL
155070	SPHERICAL SEAL KIT 13"-5M	155412	SPHERICAL SEAL KIT 30"-1M
155045	SPHERICAL SEAL KIT 13"-10M		

REPLACEMENT PARTS FOR: **SHAFFER BLOWOUT PREVENTERS / SPHERICAL ELEMENTS**

152376	4"-10M	NITRILE	150852	16"-5M	NATURAL
152377	4"-10M	NATURAL	150851	16"-5M	NITRILE - DUAL
150847	7"-3M/5M	NITRILE	150852	16"-5M	NATURAL - DUAL
150848	7"-3M/5M	NATURAL	151361	18"-5M	NITRILE
150987	7"-10M	NITRILE	151362	18"-5M	NATURAL
150988	7"-10M	NATURAL	151361	18"-5M	NITRILE - DUAL
150996	9"-3M/5M	NITRILE	151362	18"-5M	NATURAL - DUAL
152272	9"-3M/5M	NATURAL	155295	18"-10M	NITRILE
150578	11"-3M	NITRILE	155294	18"-10M	NATURAL
150579	11"-3M	NATURAL	150799	21"-2M	NITRILE
150810	11"-5M	NITRILE	150800	21"-2M	NATURAL
150809	11"-5M	NATURAL	150799	21"-3M	NITRILE
152373	11"-10M	NITRILE	150800	21"-3M	NATURAL
152374	11"-10M	NATURAL	150853	21"-5M	NITRILE
150576	13"-3M/5M	NITRILE	150854	21"-5M	NATURAL
150577	13"-3M/5M	NATURAL	150853	21"-5M	NITRILE - DUAL
152693	13"-10M	NITRILE	150854	21"-5M	NATURAL - DUAL
152694	13"-10M	NATURAL	155393	30"-1M	NITRILE
150851	16"-5M	NITRILE	155392	30"-1M	NATURAL

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / RAM SEAL KITS**

PART #	TYPE	DESCRIPTION			
4"-10M					
116858	LWS	MANUAL	6" PISTON	SINGLE	2" RAM SHAFT
7"-3M					
114662	LWP	MANUAL	5" PISTON	DOUBLE	2¼" RAM SHAFT
3400	WSI	HYDRAULIC		SINGLE	
721000	SENTINEL	HYDRAULIC		DOUBLE	OLD STYLE/SEALS ONLY
721000-NS	SENTINEL	HYDRAULIC		DOUBLE	NEW STYLE/SEALS ONLY
80001-S	LWP	MANUAL	5" PISTON	DOUBLE	2¼" R.S. SEALS ONLY N/S
80032	T-45	MECHANICAL		DOUBLE	SEALS ONLY
7"-3M/5M					
141962-S	LWS	MANUAL	6½" PISTON	DOUBLE	SEALS ONLY
141962	LWS	MANUAL	6½" PISTON	DOUBLE	3" RAM SHAFT
80039	T-B	HYDRAULIC	8½" PISTON	DOUBLE	3½" RAM SHAFT
80023	T-E	HYDRAULIC	8½" PISTON	DOUBLE	SEALS ONLY
80046	T-A	MANUAL	8½" PISTON	DOUBLE	3½" RAM SHAFT
7"-5M					
185151	CHASOVOY			SINGLE	
185151-S	CHASOVOY			SINGLE	SEALS ONLY
722001-II	SENTINEL II			DOUBLE	
7"-10M					
141961	SL	MANUAL	14" PISTON	SINGLE	¾" RAM SHAFT
80002	SL	POSLOCK	14" PISTON	SINGLE	¾" RAM SHAFT
80003	SL	POSLOCK	10" PISTON	SINGLE	¾" RAM SHAFT
7"-10M/15M					
80022	LWS	MANUAL	14" PISTON	SINGLE	¼" RAM SHAFT
80022-S	LWS	MANUAL	14" PISTON	SINGLE	SEALS ONLY
80004	SL	MANUAL	10" PISTON	SINGLE	¾" RAM SHAFT
80004-S	SL	MANUAL	10" PISTON	SINGLE	SEALS ONLY
7"-15M					
140252	SL	POSLOCK	10" PISTON	SINGLE	¾" RAM SHAFT
140254	SL	POSLOCK	14" PISTON	SINGLE	¾" RAM SHAFT
80024	SL	MANUAL	10" PISTON	SINGLE	¾" RAM SHAFT
9"-3M					
721001-NS	SENTINEL	HYDRAULIC		DOUBLE	NEW STYLE/SEALS ONLY
80037	LWP	MANUAL	5" NS PISTON	SINGLE	2¼" RAM SHAFT
80038	LWP	MANUAL	5" NS PISTON	SINGLE	SEALS ONLY
80007	T-A	HYDRAULIC	8½" PISTON	DOUBLE	3½" RAM SHAFT
9"-3M/5M					
80005	LWS	MANUAL	8½" PISTON	DOUBLE	OLD STYLE
80006	LWS	MANUAL	8½" PISTON	DOUBLE	NEW STYLE

NS – NEW STYLE

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / RAM SEAL KITS**

PART #	TYPE	DESCRIPTION			
11"-3M					
194400	T-B	HYDRAULIC	8½" PISTON	DOUBLE	3½" RAM SHAFT
194400-S	T-B	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
141965	LWS	MANUAL	6½" PISTON	DOUBLE	3" RAM SHAFT
141965-S	LWS	MANUAL	6½" PISTON	DOUBLE	SEALS ONLY
80031	T-A	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
80033	T-E	MANUAL	8½" PISTON	DOUBLE	3½" RAM SHAFT
80034	T-E	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
11"-3M/5M					
80035	T-RS	SHAFCO	8½" PISTON	DOUBLE	3½" RAM SHAFT
11"-5M					
80026	T-E	HYDRAULIC	8½" PISTON	SINGLE	3½" RAM SHAFT
80026-S	T-E	HYDRAULIC	8½" PISTON	DOUBLE	SEALS ONLY
80045	T-LWS	POSLOCK	14" PISTON	SINGLE	3½" RAM SHAFT
80045-S	T-LWS	POSLOCK	14" PISTON	SINGLE	SEALS ONLY
140388	T-LWS	MANUAL	14" PISTON	SINGLE	3½" RAM SHAFT
140388-S	T-LWS	MANUAL	14" PISTON	SINGLE	SEALS ONLY
141966	LWS	MANUAL	8½" PISTON	SINGLE	5¼" RAM SHAFT NS
141966-S	LWS	MANUAL	8½" PISTON	DOUBLE	NEW STYLE/SEALS ONLY
141966-S-OS	LWS	MANUAL	8½" PISTON	SINGLE	OLD STYLE/SEALS ONLY
11"-10M					
80008-S	SL	POSLOCK	14" PISTON	SINGLE	SEALS ONLY
80027	LWS	MANUAL	10" PISTON	SINGLE	3½" RAM SHAFT NS
140287	SL	MANUAL	14" PISTON	SINGLE	5¼" RAM SHAFT
80008	SL	POSLOCK	14" PISTON	SINGLE	5¼" RAM SHAFT
80040	XHP	MANUAL	10" PISTON	SINGLE	3½" RAM SHAFT
11"-15M					
140284	SL	POSLOCK	14" PISTON	SINGLE	5¼" RAM SHAFT
140288	SL	MANUAL	14" PISTON	SINGLE	5¼" RAM SHAFT
13"-3M					
80020	T-E	MANUAL	8½" PISTON	DOUBLE	3½" RAM SHAFT
80020-S	T-E	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
80021-S	T-A	MANUAL	8½" PISTON	DOUBLE	3½" RAM SHAFT
80021-S	T-A	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
80025	T-B	MANUAL	8½" PISTON	DOUBLE	3½" RAM SHAFT
80025-S	T-B	MANUAL	8½" PISTON	DOUBLE	SEALS ONLY
140286-S	SL	MANUAL	10" PISTON	SINGLE	SEALS ONLY
140278	SL	POSLOCK	14" PISTON	SINGLE	4¼" RAM SHAFT
80012	SL	POSLOCK	10" PISTON	SINGLE	4¼" RAM SHAFT
80042	T-NRS	SHAFCO	8½" PISTON	SINGLE	3½" RAM SHAFT
80043	LWS	AUTOLOCK	10" PISTON	SINGLE	OLD STYLE

NA – NEW STYLE

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / RAM SEAL KITS**

PART #	TYPE	DESCRIPTION				
13"-3M/5M						
80009	LWS	POSLOCK	10"	PISTON	SINGLE	NEW STYLE
80009-S	LWS	POSLOCK	10"	PISTON	DOUBLE	NEW STYLE/SEALS ONLY
80010	LWS	POSLOCK	14"	PISTON	SINGLE	NEW STYLE
80010-S	LWS	POSLOCK	14"	PISTON	DOUBLE	NEW STYLE/SEALS ONLY
80011	LWS	MANUAL	8½"	PISTON	DOUBLE	NEW STYLE
80011-S	LWS	MANUAL	8½"	PISTON	SINGLE	NEW STYLE/SEALS ONLY
80012-S	SL	POSLOCK	10"	PISTON	SINGLE	4¼" RAM SHAFT NS
80036	T-RS	SHAFCO	8½"	PISTON	DOUBLE	3½" RAM SHAFT
140286	SL	MANUAL	10"	PISTON	SINGLE	4¼" RAM SHAFT
13"-10M						
80030	SL	POSLOCK	14"	PISTON	SINGLE	4¼" RAM SHAFT
142003	SL	POSLOCK	14"	PISTON	SINGLE	5¼" RAM SHAFT
141993	SL	MANUAL	14"	PISTON	SINGLE	5¼" RAM SHAFT
141993-S	SL	MANUAL	14"	PISTON	SINGLE	SEALS ONLY
13"-15M						
140285	SL	POSLOCK	14"	PISTON	SINGLE	5¼" RAM SHAFT
140290	SL	MANUAL	14"	PISTON	SINGLE	5¼" RAM SHAFT
16"-3M						
80013	LWS	MANUAL	8½"	PISTON	SINGLE	SEALS ONLY
80013-NS	LWS	MANUAL	8½"	PISTON	SINGLE	NEW STYLE/SEALS ONLY
16"-5M						
80014	SL	MANUAL	10"	PISTON	SINGLE	4¼" RAM SHAFT
80015	SL	POSLOCK	10"	PISTON	SINGLE	4¼" RAM SHAFT
80016	SL	POSLOCK	14"	PISTON	SINGLE	4¼" RAM SHAFT
16"-10M						
80017	SL	POSLOCK	14"	PISTON	SINGLE	5¼" RAM SHAFT
18"-10M						
140282	SL	POSLOCK	14"	PISTON	SINGLE	5¼" RAM SHAFT
140282-S	SL	POSLOCK	14"	PISTON	SINGLE	SEALS ONLY
18"-15M						
140247	SL	POSLOCK	14"	PISTON	SINGLE	4¼" RAM SHAFT
20"-3M & 21"-2M						
80018	LWS	MANUAL	8½"	PISTON	SINGLE	3½" RAM SHAFT
80018-S	LWS	MANUAL	8½"	PISTON	SINGLE	SEALS ONLY
141985	LWS	MANUAL	8½"	PISTON	SINGLE	3½" RAM SHAFT
140329	LWS	POSLOCK	10"	PISTON	SINGLE	3½" RAM SHAFT
140330	LWS	POSLOCK	14"	PISTON	SINGLE	4¼" RAM SHAFT
21"-10M						
142070	SL	MANUAL	14"	PISTON	SINGLE	5¼" RAM SHAFT
80019	SL	POSLOCK	14"	PISTON	SINGLE	5¼" RAM SHAFT

NS – NEW STYLE

REPLACEMENT PARTS FOR: SHAFFER BLOWOUT PREVENTERS / RAM RUBBERS

PART #	TYPE	DESCRIPTION
4"-5M/10M		
116931	T-76	
117750	T-77	PIPE RUBBERS
117738	T-77	SNUBBING RUBBERS
7"-3M		
192035	T-39	
192035-SO	T-39	SINGLE OFFSET
192035-DO	T-39	DUAL OFFSET
192035-390	T-390	
192035-SO-390	T-390	SINGLE OFFSET
192035-DO-390	T-390	DUAL OFFSET
130518	T-64	LWP
130518-SO	T-64	LWP SINGLE OFFSET
130518-REMOLD	T-64	LWP REMOLDED (CSO, 2 ³ / ₈ ", 2 ⁷ / ₈ ", 3 ¹ / ₂ ")
721562	SENTINEL	OLD STYLE FACE RUBBER
721562-SO	SENTINEL	OLD STYLE SINGLE OFFSET
721812	SENTINEL II	NEW STYLE FACE SEAL
721812-SO	SENTINEL II	NEW STYLE SINGLE OFFSET
721812-VBR	SENTINEL II	NEW STYLE VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
7"-3M/5M/10M		
135857	T-61	LWS
135857-SO	T-61	SINGLE OFFSET
135857-DO	T-61	DUAL OFFSET
124890	T-61	VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ " & 2 ⁷ / ₈ " to 3 ¹ / ₂ ")
7"-5M		
722183	SENT. II/CHASOVOY	
722183-OS	SENT. II/CHASOVOY	SINGLE OFFSET
7"-10M/15M		
115706	T-SL	FACE RUBBER
9"-3M		
192213	T-39	
192213-SO	T-39	SINGLE OFFSET
192213-DO	T-39	DUAL OFFSET
192213-390	T-390	
131602	T-64	LWP
131602-SO	T-64	LWP SINGLE OFFSET
131602-DO	T-64	LWP DUAL OFFSET
131602-REMOLD	T-64	LWP REMOLDED (CSO, 2 ³ / ₈ ", 2 ⁷ / ₈ ", 3 ¹ / ₂ ")
9"-3M/5M		
136815	T-70	
136815-SO	T-70	SINGLE OFFSET
136815-DO	T-70	DUAL OFFSET

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / RAM RUBBERS**

PART #	TYPE	DESCRIPTION
11"-3M		
136801	T-70	
136801-SO	T-70	SINGLE OFFSET
136801-DO	T-70	DUAL OFFSET
192416	T-39	
192416-SO	T-39	SINGLE OFFSET
192416-DO	T-39	DUAL OFFSET
192416-390	T-390	
11"-5M		
192616	T-48	
192616-SO	T-48	SINGLE OFFSET
192616-DO	T-48	DUAL OFFSET
192616-480	T-480	
137107	T-70	
137107-SO	T-70	SINGLE OFFSET
137107-VBR	T-70	VARIABLE (2 ⁷ / ₈ " to 4 ¹ / ₂ ")
137220	T-70	DUAL OFFSET (2 ³ / ₈ " x 2 ³ / ₈ ")
126216	T-SL/LWS	VARIABLE FACE SEAL (3 ¹ / ₂ " to 5")
11"-10M		
137713	T-70	LWS
135489	T-61	LWS
121034	T-SL	VARIABLE FACE SEAL (3 ¹ / ₂ " to 5")
133111	T-SL	
133111-SO	T-SL	SINGLE OFFSET
133111-DO	T-SL	DUAL OFFSET
11"-15M		
114008	T-SL	
114008-DO	T-SL	DUAL OFFSET (1.66")
13"-3M		
177324	T-39	
R48-13000RR	SHAFCO	
13"-3M/5M		
192774	T-48	
192774-SO	T-48	SINGLE OFFSET
192774-DO	T-48	DUAL OFFSET
192774-480	T-480	
136715	T-70/SL	
136715-SO	T-70/SL	SINGLE OFFSET
136715-VBR	T-70/SL	VARIABLE (3 ¹ / ₂ " to 5")
122730	T-70/SL	DUAL OFFSET
13"-5M		
125137	T-SL/LWS	SMALL BORE VARIABLE FACE SEAL (2 ⁷ / ₈ " to 5 ¹ / ₂ ")
122601	T-SL/LWS	LARGE BORE VARIABLE FACE SEAL (4 ¹ / ₂ " to 7")

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / RAM RUBBERS**

PART #	TYPE	DESCRIPTION
13"-10M		
134204	T-SL	
134204-SO	T-SL	SINGLE OFFSET
138482	T-SL	SHEAR
162082	T-SL	DUAL OFFSET
121005	T-SL/LWS	VARIABLE FACE SEAL (3½" to 5")
125119	T-SL/LWS	HANG-OFF VARIABLE FACE SEAL (3½" to 5")
16"-2M		
195113	T-39	
16"-3M		
135122	T-60	OBSOLETE
16"-5M		
137304	T-SL	
137304-SO	T-SL	SINGLE OFFSET
137304-DO	T-SL	DUAL OFFSET
16"-10M		
121026	T-SL	VARIABLE FACE SEAL (3½" to 5")
142776	T-SL	
142776-SO	T-SL	SINGLE OFFSET
142776-DO	T-SL	DUAL OFFSET
18"-10M		
121017	T-SL	VARIABLE FACE SEAL (3½" to 5")
142850	T-SL	
142850-SO	T-SL	SINGLE OFFSET
142850-DO	T-SL	DUAL OFFSET
18"-15M		
121162	T-SL	
126670	T-SL/SLX	VARIABLE FACE SEAL (3½" to 5")
20"-3M & 21"-2M		
130973	T-50	OBSOLETE
137793	T-70	
137793-SO	T-70	SINGLE OFFSET
137793-DO	T-70	DUAL OFFSET
21"-10M		
114480	T-SL	
114480-SO	T-SL	SINGLE OFFSET
114480-DO	T-SL	DUAL OFFSET

REPLACEMENT PARTS FOR : **SHAFFER BLOWOUT PREVENTERS / TOP SEALS**

PART #	TYPE	DESCRIPTION
7"-3M		
721546	SENTINEL	OLD STYLE
721822	SENTINEL II	NEW STYLE
721822-VBR	SENTINEL II	NEW STYLE VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
7"-5M		
722181	SENTINEL II/CHASOVOY	
7"-10M/15M		
115774	T-SL	
11"-5M		
121062	T-SL/LWS	VARIABLE (3 ¹ / ₂ " to 5")
11"-10M		
121036	T-SL	VARIABLE (3 ¹ / ₂ " to 5")
13"-5M		
121055	T-SL/LWS	SMALL BORE VARIABLE (2 ⁷ / ₈ " to 5 ¹ / ₂ ")
123192	T-SL/LWS	LARGE BORE VARIABLE (4 ¹ / ₂ " to 7")
13"-10M		
121010	T-SL	VARIABLE (3 ¹ / ₂ " to 5")
16"-10M		
121027	T-SL	VARIABLE (3 ¹ / ₂ " to 5")
18"-10M		
121018	T-SL	VARIABLE (3 ¹ / ₂ " to 5")
18"-15M		
121261	T-SL	VARIABLE (3 ¹ / ₂ " to 5")

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM BLOCKS

PART #	TYPE	DESCRIPTION
4"-5M/10M		
117763	T-77	
117764	T-77	SNUBBING
7"-3M		
192032	T-39	
192032-SO	T-39	SINGLE OFFSET
192032-DO	T-39	DUAL OFFSET
130517	T-64	LWP
130517-SO	T-64	LWP SINGLE OFFSET
130517-REMOLD	T-64	LWP REMOLDED
721547	SENTINEL	OLD STYLE
721679	SENTINEL	OLD STYLE SINGLE OFFSET
721679-#2	SENTINEL II	NEW STYLE SINGLE OFFSET
721802	SENTINEL II	NEW STYLE
721810-VBR	SENTINEL II	NEW STYLE VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
7"-5M		
722156	SENTINEL II/CHASOVOY	
7"-3M/5M/10M		
135842	T-61	
135842-SO	T-61	SINGLE OFFSET
135842-DO	T-61	DUAL OFFSET
7"-10M/15M		
115612	T-SL	
9"-3M		
192212	T-39	
192212-SO	T-39	SINGLE OFFSET
192212-DO	T-39	DUAL OFFSET
131485	T-64	LWP
131485-SO	T-64	LWP SINGLE OFFSET
131485-DO	T-64	LWP DUAL OFFSET
9"-3M/5M		
136814	T-70H	
136814-SO	T-70H	SINGLE OFFSET
136814-DO	T-70H	DUAL OFFSET
11"-3M		
192415	T-39	
192415-SO	T-39	SINGLE OFFSET
192415-DO	T-39	DUAL OFFSET
T-509	T-39	BLOCK w/MOLDED RUBBER – OBSOLETE
136800	T-70H	
136800-SO	T-70H	SINGLE OFFSET
136800-DO	T-70H	DUAL OFFSET

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM BLOCKS

PART #	TYPE	DESCRIPTION
11"-5M		
192615	T-48	
192615-SO	T-48	SINGLE OFFSET
192615-DO	T-48	DUAL OFFSET
T-508	T-48	BLOCK w/MOLDED RUBBER – OBSOLETE
121058	T-SL/LWS/LXT	VARIABLE (3½" to 5")
137106	T-70H	
137106-SO	T-70H	SINGLE OFFSET
137106-DO	T-70H	DUAL OFFSET
11"-10M		
135833	T-61	OBSOLETE
137712	T-70H	LWS
133110	T-SL/75	
133110-SO	T-SL	SINGLE OFFSET
125132	T-SL/LWS	VARIABLE (3½" to 5")
133053	T-SL-D	
133053-SO	T-SL-D	SINGLE OFFSET
140366-SO	T-SL	SINGLE OFFSET
140366-DO	T-SL/SL-D	DUAL OFFSET
11"-15M		
114006	T-SL/SL-D	
13"-3M		
177323	T-39	
13"-3M/5M		
192719	T-48	
192719-SO	T-48	SINGLE OFFSET
192719-DO	T-48	DUAL OFFSET
136714	T-SL/70H	
136714-SO	T-SL/70H	SINGLE OFFSET
136714-DO	T-SL/70H	DUAL OFFSET
133726	T-SL-D	
13"-5M		
125136	T-SL/LWS	SMALL BORE VARIABLE (2⅞" to 5½")
121051	T-SL	VARIABLE (3½" to 5")
122597	T-SL/LWS	LARGE BORE VARIABLE (4½" to 7")
13"-10M		
134206	T-SL	
134206-SO	T-SL/SL-D	SINGLE OFFSET
121002	T-SL/LWS	VARIABLE (3½" to 5")
162083	T-SL/SL-D	DUAL OFFSET
131843	T-SL-D	
13"-15M		
114166	T-SL	
114209	T-SL-D	

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM BLOCKS

PART #	TYPE	DESCRIPTION
16"-3M		
135123	T-60	OBSOLETE
16"-5M		
137303	T-SL	
137303-SO	T-SL	SINGLE OFFSET
137303-DO	T-SL	DUAL OFFSET
133762	T-SL-D	
133762-SO	T-SL-D	SINGLE OFFSET
133762-DO	T-SL-D	DUAL OFFSET
16"-10M		
133632	T-SL	
121023	T-SL	VARIABLE (3½" to 5")
133649	T-SL-D	
18"-10M		
142401	T-SL	
121014	T-SL	VARIABLE (3½" to 5")
133772	T-SL-D	
18"-15M		
121525	T-SL	
121258	T-SL	VARIABLE (3½" to 5")
121573	T-SL-D	
20"-3M & 21"-2M		
130972	T-50	OBSOLETE
137792	T-70H	
137792-SO	T-70H	SINGLE OFFSET
137792-DO	T-70H	DUAL OFFSET
21"-2M		
124468	T-SL	MULTI-RAM (4½" to 7")
21"-10M		
114479	T-SL	
114591	T-SL-D	

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM HOLDERS

PART #	TYPE	DESCRIPTION
4"-10M		
117770	T-77	PIPE RAM
117771	T-77	SNUBBING RAM
7"-3M		
192031	T-39	
177023	T-45	
721520	SENTINEL	
7"-5M/10M		
135847	T-61	
7"-10M/15M		
115609	T-SL	
9"-3M		
192211-A	T-39-A	T-A
9"-3M/5M		
192211	T-39	
135736	T-70	
11"-3M		
192414	T-39	
135571	T-70	
11"-5M		
192614	T-48	
135875	T-70/LXT	
11"-10M		
137878	T-70	
131685	T-SL	
135832	T-61	
11"-15M		
114000	T-SL	
13"-3M		
177303	T-39	MECHANICAL BOP
13"-3M/5M		
192390	T-48-A	T-A
135551	T-70/SL	
13"-10M		
138180	T-SL	
13"-15M		
114162	T-SL	
16"-2M		
195110	T-39	
16"-3M		
135159	T-60/70/SL	
16"-5M		
135322	T-60/70/SL	
16"-10M		
133627	T-SL	

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM HOLDERS

PART #	TYPE	DESCRIPTION
18"-10M		
139413	T-SL	
18"-15M		
121522	T-SL	
20"-3M & 21"-2M		
130831	T-50	OBSOLETE
138242	T-70	
21"-10M		
138267	T-SL	

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM ASSEMBLIES

PART #	TYPE	DESCRIPTION
4"-5M/10M		
117786	T-77	
117798	T-77	SNUBBING
7"-3M		
192030	T-39	
192030-SO	T-39	SINGLE OFFSET
192030-DO	T-39	DUAL OFFSET
192030-390	T-390	
130516	T-64	LWP
130516-SO	T-64	LWP SINGLE OFFSET
130516-REMOLD	T-64	LWP REMOLDED
721588	SENTINEL	OLD STYLE
721682	SENTINEL	OLD STYLE SINGLE OFFSET
721682-#2	SENTINEL II	NEW STYLE SINGLE OFFSET
721835	SENTINEL II	NEW STYLE
7"-5M		
722224	SENT.II/CHASOVOY	
7"-3M/5M/10M		
142627	T-61	
142627-SO	T-61	SINGLE OFFSET
142627-DO	T-61	DUAL OFFSET
7"-10M/15M		
115610	T-SL	
9"-3M		
192210	T-39	
192210-SO	T-39	SINGLE OFFSET
192210-DO	T-39	DUAL OFFSET
192210-390	T-390	
131600	T-64	LWP
131600-SO	T-64	LWP SINGLE OFFSET
131600-DO	T-64	LWP DUAL OFFSET
9"-3M/5M		
130405	T-70H	
136405-SO	T-70H	SINGLE OFFSET
136405-DO	T-70H	DUAL OFFSET
11"-3M		
192413	T-39	
132413-SO	T-39	SINGLE OFFSET
192413-DO	T-39	DUAL OFFSET
192413-390	T-390	
141441	T-70H	
141441-SO	T-70H	SINGLE OFFSET
141441-DO	T-70H	DUAL OFFSET

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM ASSEMBLIES

PART #	TYPE	DESCRIPTION
11"-5M		
192613	T-48	
192613-SO	T-48	SINGLE OFFSET
192613-DO	T-48	DUAL OFFSET
192613-480	T-480	
141489	T-70H	
141489-SO	T-70H	SINGLE OFFSET
141489-DO	T-70H	DUAL OFFSET
121056	T-SL/LWS/LXT	VARIABLE (3½" to 5")
11"-10M		
137710	T-61	LWS
140366	T-SL	
140366-SO	T-SL	SINGLE OFFSET
121029	T-SL	VARIABLE (3½" to 5")
140346	T-SL-D	
140346-SO	T-SL-D	SINGLE OFFSET
11"-15M		
114607	T-SL/SL-D	
13"-3M		
177321	T-39	MECHANICAL BOP
13"-3M/5M		
192717	T-48	
192717-SO	T-48	SINGLE OFFSET
192717-DO	T-48	DUAL OFFSET
192717-480	T-480	
192717-SO-480	T-480	SINGLE OFFSET
192717-DO-480	T-480	DUAL OFFSET
141581	T-SL	
141581-SO	T-SL	SINGLE OFFSET
141581-DO	T-SL	DUAL OFFSET
140777	T-SL-D	
142162-VBR	T-SL/70H	VARIABLE (2⅞" to 5") w/ REGULAR 5" RAMS
116346	T-72	SHEAR RAM
13"- 5M		
125134	T-SL/LWS	SMALL BORE VARIABLE (2⅞" to 5½")
121049	T-SL/LWS	VARIABLE (3½" to 5")
122596	T-SL/LWS	LARGE BORE VARIABLE (4½" to 7")
13"-10M		
116343	T-SL	SHEAR RAM
140057	T-SL-D	
140037	T-SL/SL-D	
140037-SO	T-SL/SL-D	SINGLE OFFSET
121000	T-SL/LWS	VARIABLE (3½" to 5")
122792	T-SL/LWS	HANG-OFF VARIABLE (3½" to 5")
162080	T-SL/SL-D	DUAL OFFSET

REPLACEMENT PARTS FOR : SHAFFER BLOWOUT PREVENTERS / RAM ASSEMBLIES

PART #	TYPE	DESCRIPTION
13"-15M		
114164	T-SL	
114472	T-SL-D	
16"-5M		
141725	T-SL	
141725-SO	T-SL	SINGLE OFFSET
141725-DO	T-SL	DUAL OFFSET
140809	T-SL-D	
140809-SO	T-SL-D	SINGLE OFFSET
140809-DO	T-SL-D	DUAL OFFSET
16"-10M		
142746	T-SL	
121021	T-SL	VARIABLE (3½" to 5")
142745	T-SL-D	
18"-10M		
142750	T-SL	
121019	T-SL	VARIABLE (3½" to 5")
142767	T-SL-D	
18"-15M		
121523	T-SL	
121256	T-SL	VARIABLE (3½" to 5")
121571	T-SL-D	
20"-3M & 21"-2M		
130970	T-50	OBSOLETE
141835	T-70H	
141835-SO	T-70H	SINGLE OFFSET
141835-DO	T-70H	DUAL OFFSET
132195	T-73	
21"-10M		
140708	T-SL	
140727	T-SL-D	

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>7"-3M</u>		
HEAD GASKET	1	0063-31602
UPPER U-SEAL	2	0063-31603
MIDDLE U-SEAL	2	0103-31604
LOWER U-SEAL	2	0063-15614
COMPLETE SEAL KIT		0063-50683
<u>7"-3M/5M COMPACT STYLE</u>		
HEAD GASKET	1	0063-31602
UPPER U-SEAL	2	0063-31603
MIDDLE U-SEAL	2	0103-31604
LOWER U-SEAL	2	0063-15614
COMPLETE SEAL KIT		0063-1002016
<u>7"-5M</u>		
HEAD GASKET	1	0065-30690
UPPER U-SEAL	2	0065-30689
MIDDLE U-SEAL	2	0065-30688
LOWER U-SEAL	2	0065-30705
COMPLETE SEAL KIT		0065-50684
<u>7"-5M GRIFFITH ANNULAR</u>		
JUNK RING TOP SEAL	1	75018
JUNK RING OUTER TOP SEAL	1	75019
TOP SEAL	2	75008
PISTON SEAL	2	75007
LOWER SEAL	2	75004
COMPLETE SEAL KIT		75100
<u>7"-10M</u>		
HEAD GASKET	1	0710-39444
DOUBLE U-SEAL UPPER	1	0710-39445
NON-EXTRU RING UPPER	2	0710-39446
DOUBLE U-SEAL MIDDLE	1	0710-39447
NON-EXTRU RING MIDDLE	2	0710-39448
DOUBLE U-SEAL LOWER	1	0710-39449
NON-EXTRU RING LOWER	2	0710-39450
COMPLETE SEAL KIT		0710-50695

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>7"-15M</u>		
HEAD U-SEAL	1	0715-1004089
HEAD O-RING	1	0715-1004090
DOUBLE U-SEAL UPPER	1	0710-39445
NON-EXTRU RING UPPER	2	0715-1004093-01
DOUBLE U-SEAL MIDDLE	1	0710-39447
NON-EXTRU RING MIDDLE	2	0715-1004094-01
DOUBLE U-SEAL LOWER	1	0715-1004095
NON-EXTRU RING LOWER	2	0715-1004096-01
COMPLETE SEAL KIT		0715-1004091
<u>9"-3M</u>		
HEAD GASKET	1	0083-32868
UPPER U-SEAL	2	0083-32870
MIDDLE U-SEAL	2	0083-32871
LOWER U-SEAL	2	0083-32869
COMPLETE SEAL KIT		0083-50685
<u>9"-5M</u>		
HEAD GASKET	1	0085-33508
UPPER U-SEAL	2	0105-32599
MIDDLE U-SEAL	2	0133-30735
LOWER U-SEAL	2	0065-30689
COMPLETE SEAL KIT		0085-50686
<u>9"-10M</u>		
HEAD GASKET	1	0135-40912
DOUBLE U-SEAL UPPER	1	0135-40913
NON-EXTRU RING UPPER	2	0135-40914
DOUBLE U-SEAL MIDDLE	1	01310-40915
NON-EXTRU RING MIDDLE	2	01310-40916
DOUBLE U-SEAL LOWER	1	0910-40917
NON-EXTRU RING LOWER	2	0910-40918
COMPLETE SEAL KIT		0910-50696

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>11"-3M</u>		
HEAD GASKET	1	0103-31809
UPPER U-SEAL	2	0103-31808
MIDDLE U-SEAL	2	0103-31807
LOWER U-SEAL	2	0103-31604
COMPLETE SEAL KIT		0103-50687
<u>11"-5M</u>		
HEAD GASKET	1	0105-31402
UPPER U-SEAL	2	0105-31403
MIDDLE U-SEAL	2	0133-30736
LOWER U-SEAL	2	0105-32599
COMPLETE SEAL KIT		0105-50688
<u>11"-5M LATCHED HEAD</u>		
HEAD GASKET	1	0105-31402
HEAD SEAL	1	0105-51189
UPPER U-SEAL	2	0105-31403
MIDDLE U-SEAL	2	0133-30736
LOWER U-SEAL	2	0105-32599
O-RING	16	0105-39519
COMPLETE SEAL KIT		0105-50688L
<u>11"-10M</u>		
HEAD GASKET	1	01110-40690
DOUBLE U-SEAL UPPER	1	01110-40691
NON-EXTRU RING UPPER	2	01110-40692
DOUBLE U-SEAL MIDDLE	1	01110-40693
NON-EXTRU RING MIDDLE	2	01110-40694
DOUBLE U-SEAL LOWER	1	01110-40695
NON-EXTRU RING LOWER	2	01110-40696
COMPLETE SEAL KIT		01110-50697

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>11"-10M LATCHED HEAD</u>		
HEAD GASKET	1	01110-51125
DOUBLE U-SEAL UPPER	1	01110-40691
NON-EXTRU RING UPPER	2	01110-40692
DOUBLE U-SEAL MIDDLE	1	01110-40693
NON-EXTRU RING MIDDLE	2	01110-40694
DOUBLE U-SEAL LOWER	1	01110-40695
NON-EXTRU RING LOWER	2	01110-40696
HEAD O-RING	1	01110-51191
O-RING	20	0105-39519
COMPLETE SEAL KIT		01110-50697L
<u>11"-10M/15M LATCHED HEAD</u>		
HEAD GASKET	1	01110-51125
DOUBLE U-SEAL UPPER	1	01110-40691
NON-EXTRU RING UPPER	2	01110-40692
DOUBLE U-SEAL MIDDLE	1	01110-40693
NON-EXTRU RING MIDDLE	2	01110-40694
DOUBLE U-SEAL LOWER	1	01110-40695
NON-EXTRU RING LOWER	2	01110-40696
HEAD O-RING	1	01115-49273
O-RING	20	0205-34989
COMPLETE SEAL KIT		01115-1002713
<u>13"-3M</u>		
HEAD GASKET	1	0133-30738
UPPER U-SEAL	2	0133-30736
MIDDLE U-SEAL	2	0133-30737
LOWER U-SEAL	2	0133-30735
COMPLETE SEAL KIT		0133-50689
<u>13"-3M LATCHED HEAD</u>		
HEAD GASKET	1	0133-1008119
HEAD O-RING	1	0133-1008120
UPPER U-SEAL	2	0133-30736
MIDDLE U-SEAL	2	0133-30737
LOWER U-SEAL	2	0133-30735
O-RING	16	0105-39519
COMPLETE SEAL KIT		0133-50689L

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>13"-5M</u>		
HEAD GASKET	1	0135-38150
UPPER U-SEAL	2	0135-38151
MIDDLE U-SEAL	2	0135-38152
LOWER U-SEAL	2	0135-38165
COMPLETE SEAL KIT		0135-50690
<u>13"-5M LATCHED HEAD</u>		
HEAD GASKET	1	0133-30738
HEAD SEAL	1	202-37381
UPPER U-SEAL	2	0135-38151
MIDDLE U-SEAL	2	0135-38152
LOWER U-SEAL	2	0135-38165
CAP SCREW SEAL	20	0135-1003300
CAP SCREW NON-EXTRU RING	20	0135-1002353
O-RING	20	0135-42382
COMPLETE SEAL KIT		0135-50690L
<u>13"-5M HELICOPTER LIFT</u>		
HEAD GASKET	1	0135-38150
DOUBLE U-SEAL UPPER	1	0135-46825
NON-EXTRU RING UPPER	2	0135-1003384
DOUBLE U-SEAL MIDDLE	1	0135-1003350
NON-EXTRU RING MIDDLE	2	0135-1003324
DOUBLE U-SEAL LOWER	1	0135-1003349
NON-EXTRU RING LOWER	2	0135-1003325
COMPLETE SEAL KIT		0135-1002649
<u>13"-10M</u>		
HEAD GASKET	1	01110-40690
DOUBLE U-SEAL UPPER	1	01310-40915
NON-EXTRU RING UPPER	2	01310-40916
DOUBLE U-SEAL MIDDLE	1	01310-44781
NON-EXTRU RING MIDDLE	2	01310-44782
DOUBLE U-SEAL LOWER	1	01310-44783
NON-EXTRU RING LOWER	2	01310-44784
COMPLETE SEAL KIT		01310-50698

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>13"-10M LATCHED HEAD</u>		
HEAD GASKET	1	01110-40690
DOUBLE U-SEAL UPPER	1	01310-40915
NON-EXTRU RING UPPER	2	01310-40916
DOUBLE U-SEAL MIDDLE	1	01310-44781
NON-EXTRU RING MIDDLE	2	01310-44782
DOUBLE U-SEAL LOWER	1	01310-44783
NON-EXTRU RING LOWER	2	01310-44784
HEAD O-RING	1	01310-49283
O-RING	20	0105-39519
COMPLETE SEAL KIT		01310-50698L
<u>16"-2M</u>		
HEAD GASKET	1	0162-32954
UPPER U-SEAL	2	0162-32962
MIDDLE U-SEAL	2	0162-32961
LOWER U-SEAL	2	0162-32963
COMPLETE SEAL KIT		0162-50691
<u>16"-3M</u>		
HEAD GASKET	1	0162-32954
UPPER U-SEAL	2	0162-32962
MIDDLE U-SEAL	2	0163-42226
LOWER U-SEAL	2	0162-32963
COMPLETE SEAL KIT		0163-1002309
<u>16"-5M</u>		
HEAD GASKET	1	01110-40690
DOUBLE U-SEAL UPPER	1	01310-40915
NON-EXTRU RING UPPER	2	01310-40916
DOUBLE U-SEAL MIDDLE	1	0165-45454
NON-EXTRU RING MIDDLE	2	0165-45455
DOUBLE U-SEAL LOWER	1	0165-45456
NON-EXTRU RING LOWER	2	0165-45457
COMPLETE SEAL KIT		0165-50694

REPLACEMENT PARTS FOR : HYDRIL / GK ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>16"-5M LATCHED HEAD</u>		
HEAD GASKET	1	0165-48196
HEAD SEAL	1	0165-48197
DOUBLE U-SEAL UPPER	1	01310-40915
NON-EXTRU RING UPPER	2	01310-40916
DOUBLE U-SEAL MIDDLE	1	0165-45454
NON-EXTRU RING MIDDLE	1	0165-45455
DOUBLE U-SEAL LOWER	1	0165-45456
NON-EXTRU RING LOWER	2	0165-45457
CAP SCREW SEAL	20	0135-1003300
O-RING	20	1900001-328
NON-EXTRUSION WASHER	20	0135-1002353
COMPLETE SEAL KIT		0165-1002355

REPLACEMENT PARTS FOR : HYDRIL / GKS ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>2-9/16"-3M/5M</u>		
HEAD O-RING	1	1900001-450
UPPER PISTON O-RING	1	1900001-449
LOWER PISTON O-RING	1	1900001-445
UPPER BACK-UP RING	2	37907
LOWER BACK-UP RING	2	37906
COMPLETE SEAL KIT		235-40001
<u>2"-10M</u>		
HEAD O-RING	1	1900001-454
UPPER PISTON O-RING	1	1900001-455
LOWER PISTON O-RING	1	1900001-450
UPPER BACK-UP RING	2	42918
LOWER BACK-UP RING	2	42917
COMPLETE SEAL KIT		235-40002
<u>4-5M/10M</u>		
HEAD O-RING	1	1900001-469
UPPER PISTON O-RING	1	112-36866
UPPER BACK-UP RING	2	4510-44930
LOWER PISTON -RING	1	73-37515
LOWER BACK-UP RING	2	4510-44931
COMPLETE SEAL KIT		4510-1006185
<u>7"-3M</u>		
HEAD GASKET	1	73-31081
UPPER PISTON SEAL	2	73-29510
LOWER PISTON SEAL	2	73-26858
COMPLETE SEAL KIT		73-31073

REPLACEMENT PARTS FOR : HYDRIL / GKM TUBING STRIPPER

<u>7"-3M</u>		
HEAD GASKET	1	072-36548
LOWER PISTON SEAL	2	112-36867
PISTON HEAD SEAL	2	73-37513
PISTON SLEEVE SEAL	2	73-37514
O-SEAL RING	1	73-37515
COMPLETE SEAL KIT		73-38000

REPLACEMENT PARTS FOR : HYDRIL / MSP ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>7"-2M</u>		
HEAD GASKET	1	072-36548
U-SEAL RING UPPER	2	072-36527
U-SEAL RING LOWER	2	112-36867
U-SEAL RING INNER	2	072-36549
BODY SLEEVE O-RING	1	072-36550
COMPLETE SEAL KIT		072-50699
<u>9"-2M</u>		
HEAD GASKET	1	092-36525
U-SEAL RING UPPER	2	112-36867
U-SEAL RING LOWER	2	092-36526
U-SEAL RING INNER	2	092-36528
BODY SLEEVE O-RING	1	092-36529
COMPLETE SEAL KIT		092-50700
<u>11"-2M</u>		
HEAD GASKET	1	112-36467
U-SEAL RING UPPER	2	112-36469
U-SEAL RING LOWER	2	112-36468
U-SEAL RING INNER	2	112-36867
BODY SLEEVE O-RING	1	112-36866
COMPLETE SEAL KIT		112-50701
<u>21"-2M</u>		
HEAD GASKET	1	202-37377
U-SEAL RING UPPER	2	202-37379
U-SEAL RING LOWER	2	202-37378
U-SEAL RING INNER	2	202-37380
BODY SLEEVE O-RING	1	202-37381
COMPLETE SEAL KIT		202-50702

REPLACEMENT PARTS FOR : **HYDRIL / MSP ANNULAR BLOWOUT PREVENTERS**

DESCRIPTION	NO. REQ'D	PART #
<u>21"-2M LATCHED HEAD</u>		
HEAD GASKET	1	202-1004922
U-SEAL RING UPPER	2	202-37379
U-SEAL RING LOWER	2	202-37378
U-SEAL RING INNER	2	202-37380
BODY SLEEVE O-RING	1	202-37381
CAP SCREW SEAL	20	0135-1003300
O-RING	20	0135-42382
HEAD O-RING	1	01310-49283
COMPLETE SEAL KIT		202-50702L
<u>21"-2M HELICOPTER LIFT</u>		
HEAD GASKET	1	202-37377
BODY SLEEVE O-RING	1	202-37381
DOUBLE U-SEAL UPPER	1	202-1003406
NON-EXTRU RING UPPER	2	202-1003409
DOUBLE U-SEAL LOWER	1	202-1003404
NON-EXTRU RING LOWER	2	202-1003408
DOUBLE U-SEAL INNER	1	202-1003403
NON-EXTRU RING INNER	2	202-1003405
COMPLETE SEAL KIT		202-1002634
<u>29"-500 MODEL A</u>		
U-SEAL RING OUTER	1	295-46533
U-SEAL RING INNER	2	295-1002684
HEAD/PISTON O-RING	2	295-46742
BODY SLEEVE O-RING	1	295-1920085
COMPLETE SEAL KIT		295-50703
<u>29"-500 MODEL B/T-C</u>		
DOUBLE U-SEAL OUTER	1	295-3106272
NON-EXTRU RING OUTER	2	295-3106271
U-SEAL INNER	2	295-1002684
HEAD O-RING	1	295-46742
BODY SLEEVE O-RING	1	295-1920085
U-SEAL PISTON	1	295-3106274
COMPLETE SEAL KIT		295-3106283

REPLACEMENT PARTS FOR : **HYDRIL / MSP ANNULAR BLOWOUT PREVENTERS**

DESCRIPTION	NO. REQ'D	PART #
<u>30"-1M</u>		
BODY SLEEVE O-RING	1	301-1004232
DOUBLE U-SEAL UPPER	1	301-1004230
NON-EXTRU RING UPPER	2	301-1004231
DOUBLE U-SEAL MIDDLE	1	301-1004228
NON-EXTRU RING MIDDLE	2	301-1004229
DOUBLE U-SEAL LOWER	1	301-1004226
NON-EXTRU RING LOWER	2	301-1004227
OPENING CHAMBER HEAD O-RING, UPPER	1	301-1004234
OPENING CHAMBER HEAD O-RING, LOWER	1	301-1004233
O-RING	24	1900001-329
HEAD O-RING	1	301-1004235
COMPLETE SEAL KIT		301-1004242

REPLACEMENT PARTS FOR : **HYDRIL / GX ANNULAR BLOWOUT PREVENTERS**

<u>13"-10M</u>		
DOUBLE U-SEAL MIDDLE	1	0165-45454
NON-EXTRU RING MIDDLE	2	0165-45455
DOUBLE U-SEAL LOWER	1	01310-1008750
U-SEAL RING LOWER	2	01310-1008751
NON-EXTRU RING LOWER	2	0135-1003384
U-SEAL RING OUTER	1	01310-1009121
HEAD O-RING	1	01310-1009173
O-RING	16	1900001-332
COMPLETE SEAL KIT		01310-1009167

REPLACEMENT PARTS FOR : HYDRIL / GL ANNULAR BLOWOUT PREVENTERS

DESCRIPTION	NO. REQ'D	PART #
<u>13"-5M LATCHED HEAD</u>		
HEAD O-RING	1	0135-48728
O-RING	20	0135-42382
NON-EXTRU RING UPPER	2	0135-46826
DOUBLE U-SEAL UPPER	1	0135-46825
NON-EXTRU RING MIDDLE	2	0135-46828
DOUBLE U-SEAL MIDDLE	1	0135-46827
NON-EXTRU RING LOWER	2	0135-40914
DOUBLE U-SEAL LOWER	1	0135-40913
BODY SLEEVE O-RING	1	0135-46830
NON-EXTRU RING INNER	2	0135-41480
DOUBLE U-SEAL INNER	1	0135-41479
HEAD SEAL	1	0135-50084
HEAD GASKET	1	0135-40912
COMPLETE SEAL KIT		0135-50679L
<u>16"-5M LATCHED HEAD</u>		
HEAD O-RING	1	0165-50332
O-RING	20	0105-39519
NON-EXTRU RING MIDDLE	2	0165-1002437
DOUBLE U-SEAL MIDDLE	1	0165-1002438
NON-EXTRU RING LOWER	2	0135-46828
DOUBLE U-SEAL LOWER	1	0135-46827
BODY SLEEVE O-RING	1	0165-50241
NON-EXTRU RING INNER	2	01110-40692
DOUBLE U-SEAL INNER	1	01110-40691
U-SEAL	2	0165-1002428
HEAD GASKET	1	0165-1004924
COMPLETE SEAL KIT		0165-50680L
<u>18"-5M LATCHED HEAD</u>		
HEAD O-RING	1	0185-50331
O-RING	20	1900001-329
NON-EXTRU RING MIDDLE	2	0185-50165
DOUBLE U-SEAL MIDDLE	1	0185-50164
NON-EXTRU RING LOWER	2	0165-45455
DOUBLE U-SEAL LOWER	1	0165-45454
O-RING	1	0185-50196
NON-EXTRU RING INNER	2	0185-50269
DOUBLE U-SEAL INNER	1	0185-50268
U-SEAL	2	0185-50163
HEAD GASKET	1	0185-50195
COMPLETE SEAL KIT		0185-50681

REPLACEMENT PARTS FOR : **HYDRIL / GL ANNULAR BLOWOUT PREVENTERS**

DESCRIPTION	NO. REQ'D	PART #
<u>21"-5M WEDGE LOCK</u>		
HEAD O-RING	1	0205-49274
NON-EXTRU RING MIDDLE	2	0205-49272
DOUBLE U-SEAL MIDDLE	1	0205-49271
NON-EXTRU RING LOWER	2	01310-44782
DOUBLE U-SEAL LOWER	1	01310-44781
NON-EXTRU RING INNER	2	01310-40916
DOUBLE U-SEAL INNER	1	01310-40915
U-SEAL	2	0205-50053
HEAD GASKET	1	0205-1004923
COMPLETE SEAL KIT		0205-50682W
<u>21"-5M LATCHED HEAD</u>		
HEAD O-RING	1	0205-49274
O-RING	16	0205-34989
NON-EXTRU RING MIDDLE	2	0205-49272
DOUBLE U-SEAL MIDDLE	1	0205-49271
NON-EXTRU RING LOWER	2	01310-44782
DOUBLE U-SEAL LOWER	1	01310-44781
BODY SLEEVE O-RING	1	202-37381
NON-EXTRU RING INNER	2	01310-40916
DOUBLE U-SEAL INNER	1	01310-40915
U-SEAL	2	0205-50053
HEAD GASKET	1	0205-1004923
COMPLETE SEAL KIT		0205-50682L

REPLACEMENT PARTS FOR : HYDRIL BLOWOUT PREVENTERS / PACKING ELEMENTS

DESCRIPTION	PART #
2-9/16"-3M/5M GKS	1003250-02
7"-2M MSP	1003252-02
7"-3M GK	1003252-02
7"-3M TOWNSEND	T1078
7"-3M/5M GK COMPACT	1003252-02
7"-5M GK	1003253-02
7"-10M GK	1003254-02
7"-15M GK	1006518-02
7"-20M GK	1006519-02
9"-2M MSP	1003257-02
9"-3M GK	1003257-02
9"-5M GK	1003277-02
9"-10M GK	1003258-02
11"-2M MSP	1003259-02
11"-3M GK	1003259-02
11"-5M GK	1003260-02
11"-10M GX	1010026-02
11"-10M/15M GK	1003261-02
13"-3M GK	1003262-02
13"-5M GK	1003263-02
13"-5M GL	3105077-02
13"-5M GX	3112017-02
13"-10M GK	1003265-02
13"-10M GX	1009175-02
13"-15M GX	1008357-02
16"-2M GK	1003266-02
16"-3M GK	1003267-02
16"-5M GK	1003268-02
18"-5M GL	1003272-02
18"-10M GX	1008949-02
21"-2M MSP	1003273-02
21"-5M GL	1003274-02
29"-500 MSP	1003275-02
30"-1M MSP	1003276-02

REPLACEMENT PARTS FOR : **HYDRIL PULSATION DAMPENERS / STABILIZERS**

DESCRIPTION	PART #
P. D. DIAPHRAGM K-10	41586-M
P. D. STABILIZER	45808
STABILIZER PLATE	37017
SCREW	45559
LOCKWASHER	36985
CHARGING HOSE ASSEMBLY	38010-Y
COMPLETE REPAIR KIT 3M	1005422
COMPLETE REPAIR KIT 5M	1005423
BOTTOM PLATE GASKET	1005212-01
VALVE	33844
GAUGE 3M	1900168-4
GAUGE 5M	38937
P. D. DIAPHRAGM K-20	35504-M
P. D. STABILIZER	37016
STABILIZER PLATE	37017
SCREW	37018
LOCKWASHER	36985
CHARGING HOSE ASSEMBLY	1920006-05
COMPLETE REPAIR KIT 3M	1005425
COMPLETE REPAIR KIT 5M	1005426
BOTTOM PLATE GASKET	1005212-01
VALVE	33844
DUST PLUG	33845
GAUGE 3M	1900168-4
GAUGE 5M	38937
P. D. DIAPHRAGM T-IP	3102540-01
P. D. DIAPHRAGM T-IP	3102229-01
P. D. 45 BLADDER	6922-0086-00
P.D. 55 BLADDER	6922-0003-00

REPLACEMENT PARTS FOR : **HYDRIL ACCUMULATOR PUMPS**

U-SEAL FOR PLUNGER CAGE (1.7 GAL)	32552
O-RING FOR VALVE CAGE (1.7 GAL)	33768
BALL VALVE & SEAT (1.7 GAL)	33769
OIL SEAL (1.7 GAL)	33770
BALL BEARING (1.7 GAL)	33774
OIL SEAL (7.5 GAL)	34983
BALL BEARING (7.5 GAL)	34985

REPLACEMENT PARTS FOR : **HYDRIL REGULATOR**

VENTING VALVE SEAL	30100
CHARGING VALVE SEAL	31035

REPLACEMENT PARTS FOR : **KOOMEY ACCUMULATORS**

DESCRIPTION	5 GALLON	10 GALLON	11 GALLON	15 GALLON
		(2" NPT)	(2" NPT)	
COMPLETE ACCUMULATOR	00-00171	00-00181	00-00205	
VALVE GUARD	00-00251	00-00251	00-00251	
VALVE NUT	00-00258	00-00258	00-00258	
SHELL	00-00291	00-00293	00-00297	
BAG & GAS VALVE ASSEMBLY	00-00357	00-00367	00-00378	1000-9464
VALVE CAP	00-00267	00-00267	00-00267	
VALVE CORE	00-00270	00-00270	00-00270	
POPPET	00-00404	00-00404	00-00404	
SPRING	00-00416	00-00416	00-00416	
ANTI-EXTRUSION RING	00-00457	00-00457	00-00457	
WASHER	00-00568	00-00568	00-00568	
SPACER	00-00579	00-00579	00-00581	
PISTON	00-00589	00-00589	00-00589	
PLUG ASSEMBLY	00-00603	00-00603	00-00603	
PLUG O-RING	50-01240	50-01240	50-01240	
LOCK NUT	00-00554	00-00554	00-00554	
STOP NUT	00-00545	00-00545	00-00545	
PIPE PLUG	20-23950	20-23950	20-23950	
PORT ASSEMBLY	00-00526	00-00526	00-00526	
POPPET & PLUG ASSEMBLY	00-00537	00-00537	00-00537	
VALVE STEM w/O-RING	703260	703260	703260	
3/4" KR MANUAL REGULATOR REPAIR KIT			1110-2100	
3/4" KR REGULATOR REPAIR KIT			1110-2199	
3/4" KR REGULATOR SEAL KIT			1110-2197	
3/4" KR REGULATOR SEAL CONTAINER			1110-2106	
3/4" KR REGULATOR PLUNGER			1110-2105	
3/4" KR REGULATOR PIN			1110-2112	
1" KR MANUAL REGULATOR REPAIR KIT			1110-3100	
1" KR REGULATOR REPAIR KIT			1110-3199	
1" KR REGULATOR SEAL KIT			1110-3197	
1" KR REGULATOR SEAL CONTAINER			1110-3107	
1" KR REGULATOR PISTON			1110-3120	
1" SELECTOR VALVE, MANIPULATOR BYPASS			1330-4100	
1" SELECTOR VALVE, 4-WAY, MAJOR REPAIR KIT			1330-4199	
1" SELECTOR VALVE, 4-WAY, MINOR REPAIR KIT			1330-4198	
1" SELECTOR VALVE, 4-WAY, SEAL KIT			1330-4197	
1" BYPASS VALVE, 4-WAY, MAJOR REPAIR KIT			1390-1199	
1" BYPASS VALVE, 4-WAY, MINOR REPAIR KIT			1390-1198	
1" BYPASS VALVE, 4-WAY, SEAL KIT			1390-4197	
1/2" CHECK VALVE			1601-1100	
1" CHECK VALVE			1601-3100	

REPLACEMENT PARTS FOR : STEWART & STEVENSON ACCUMULATORS - 3M PSI

DESCRIPTION	PART #
CHARGING & GAUGE ASSEMBLY	17-00001
GAUGING HEAD ASSEMBLY	17-00002
AIR CHUCK	17-00003
ADAPTER	17-00004
TANK VALVE	17-00005
SWIVEL CONNECTOR	17-00006
BLEEDER VALVE	17-00007
NUT	17-00008
GLAND	17-00009
COUPLER	20-22002
HOSE	25-65001
GAUGE	40-02000
PLUNGER PACKING (3/4")	3001-3104
PLUNGER PACKING (7/8")	3001-3106
NEEDLE VALVE 10M (1/4" NPT FEMALE X 1/4" NPT FEMALE)	FFG-2002T
VALVCON ACCUMULATOR VALVE HANDLE	152080

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM PARTS**

DESCRIPTION	PART #	PART #	PART #
O-RING	1900001-029	1900001-327	1900001-451
	1900001-124	1900001-328	1900001-452
	1900001-210	1900001-329	1900001-454
	1900001-212	1900001-330	1900001-455
	1900001-214	1900001-331	1900001-456
	1900001-215	1900001-334	1900001-457
	1900001-216	1900001-335	1900001-458
	1900001-223	1900001-336	1900001-459
	1900001-225	1900001-337	1900001-461
	1900001-226	1900001-338	1900001-462
	1900001-227	1900001-339	1900001-464
	1900001-228	1900001-340	1900001-467
	1900001-230	1900001-345	1900001-468
	1900001-231	1900001-347	1900001-469
	1900001-232	1900001-356	1900001-470
	1900001-235	1900001-365	1900001-471
	1900001-237	1900001-370	1900001-472
	1900001-239	1900001-374	1900001-473
	1900001-241	1900001-383	1900001-482
	1900001-243	1900001-385	1900002-222
	1900001-245	1900001-390	1900002-226
	1900001-248	1900001-427	1900002-229
	1900001-249	1900001-433	1900002-231
	1900001-250	1900001-437	1900002-232
	1900001-256	1900001-440	1900002-233
	1900001-257	1900001-443	1900002-239
	1900001-259	1900001-445	1900002-338
	1900001-264	1900001-446	1900002-340
	1900001-277	1900001-447	1900002-346
	1900001-316	1900001-448	1900002-349
	1900001-325	1900001-449	1900002-427
	1900001-326	1900001-450	1900002-469
BACK-UP RING	1920012-210	1920012-346	1920012-458
	1920012-212	1920012-349	1920012-459
	1920012-222	1920012-433	1920012-462
	1920012-226	1920012-437	3101517-1
	1920012-229	1920012-445	3101517-2
	1920012-231	1920012-449	3101517-3
	1920012-232	1920012-450	3101517-4
	1920012-233	1920012-451	3101517-5
	1920012-239	1920012-452	3101517-6
	1920012-316	1920012-454	3120012-226
	1920012-338	1920012-455	
	1920012-340	1920012-456	

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM PARTS**

DESCRIPTION	PART #	PART #	PART #
SCRAPER	3100225-1	3100225-3	
	3100225-2	3100225-5	
SEAL	1920057-112	3101789-11	3101789-22
	1920057-224	3101789-12	3101789-23
	3101789-4	3101789-13	3102758-1
	3101789-5	3101789-14	3102758-3
	3101789-6	3101789-15	3102758-6
	3101789-7	3101789-16	3103269
	3101789-8	3101789-17	3105024-1
	3101789-9	3101789-18	
	3101789-10	3101789-21	
	SPACER RING	3100244-3	3100244-9
3100244-5		3100244-10	3100244-21
3100244-7		3100244-11	3100244-22
3100244-8		3100244-12	
RETAINER RING	1900102-136	3101869-2	3101869-6
	1900102-145	3101869-3	3101869-11
	1900102-163	3101869-4	3101869-12
	3101869-1	3101869-5	
RING, PLASTIC PACKING	3100233-3	3100233-7	3100233-12
	3100233-4	3100233-9	3100233-14
	3100233-5	3100233-10	
	3100233-6	3100233-11	
RING, PLASTIC ENERGIZING	3100234-3	3100234-6	3100234-10
	3100234-4	3100234-7	3100234-12
	3100234-5	3100234-9	3100234-14
PLASTIC PACKING	3100453		
BONNET SEAL TO CONNECTING ROD	3100236-3	3100236-9	3100236-13
	3100236-6	3100236-10	3100236-14
	3100236-7	3100236-11	
	3100236-8	3100236-12	

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM SEAL KITS**

DESCRIPTION	PART #	DESCRIPTION	PART #
<u>BONNET SEAL KIT</u> (1 KIT PER BONNET)		<u>BONNET HINGE SEAL KIT</u> (1 KIT PER BONNET)	
7"-3M/5M MODEL A T-V	4101400	7"-3M/5M MODEL A T-V	3104733
7"-3M/5M MODEL B T-X	3104728	7"-10M	3104733
7"-5M WORKOVER	3105107	7"-10M MPL	3104733
7"-10M	3104732	7"-15M	3104743
7"-10M MPL	3104736	9"-3M/5M	3104733
7"-15M	3104742	11"-3M/5M	3104743
9"-3M/5M	3104737	11"-3M/5M MPL	3104743
11"-3M/5M	3104747	11"-3M/5M SHEAR RAM	3104743
11"-3M/5M MPL	3104755	11"-10M T-A	4101399-BH
11"-3M/5M SHEAR RAM	3104751	11"-10M T-B	3104743
11"-10M T-A	4101399	11"-10M MPL	3104743
11"-10M T-B	3104756	11"-10M SHEAR RAM	3104743
11"-10M MPL	3104760	11"-10M MPL SHEAR RAM	3104743
11"-10M SHEAR RAM	3104761	11"-15M	3104777
11"-10M MPL SHEAR RAM	3104765	13"-3M/5M T-A & B	3104743
13"-3M/5M T-A & B	3104766	13"-3M/5M MPL 10"	3104743
13"-3M/5M MPL	3104771	13"-3M/5M MPL 14"	3104743
13"-3M/5M T-B MPL 10"	3104770	13"-3M/5M SHEAR RAM	3104743
13"-3M/5M T-B MPL 14"	3104775	13"-10M T-A & B	3104777
13"-10M T-A & B	3104771	13"-15M	3104777
13"-10M MPL 14"	3104775	18"-10M T-B	3104781
18"-10M	3104784	20"-3M & 21"-2M	3104793
18"-10M LAND BASED	3104784-LB		
20"-3M & 21"-2M	3104766		
<u>UPPER SEAT SEAL KIT</u> (1 KIT PER SINGLE)		<u>FLUID HINGE SEAL KIT</u> (1 KIT PER BONNET)	
7"-3M/5M MODEL A T-V	4101400-S	7"-3M/5M MODEL A T-V	3104735
7"-3M/5M MODEL B T-X	3104729	7"-3M/5M MODEL B1 T-X OLD	3104730-B
7"-10M/15M	3104729	7"-3M/5M MODEL B2 T-X NEW	3104730
9"-3M/5M	3104739	7"-10M	3104735
11"-3M/5M	3104749	7"-15M	3104745
11"-10M/15M	3104758	9"-3M/5M	3104735
13"-3M/5M	3104768	11"-3M/5M	3104745
13"-10M/15M	3104778	11"-10M T-B	3104745
18"-10M T-B	3104786	11"-15M	3104745
20"-3M & 21"-2M	3104794	13"-3M/5M/10M	3104745
		13"-15M T-B	3104779
		18"-10M T-B	3104779
		20"-3M & 21"-2M	3104745
<u>SENTRY DUAL WORKOVER SEAL KIT</u>			
7"-3M/5M DOUBLE	3117169		

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM PACKERS**

PART #	B.O.P. SIZE	DESCRIPTION
3101231-1	7"-3M/5M	MODEL A T-V
3101790-1	7"-3M/5M	MODEL A T-V SINGLE OFFSET
3102696	7"-3M/5M	MODEL B T-X
3102913-1	7"-3M/5M	MODEL B T-X SINGLE OFFSET
3103491-1	7"-3M/5M	MODEL B T-X DUAL OFFSET – UNLIKE BORES
3116586-01	7"-3M/5M	SENTRY
3116586-01-OS	7"-3M/5M	SENTRY SINGLE OFFSET
3116874	7"-3M/5M	SENTRY VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3104699-1	7"-5M	WORKOVER
3104699-1-SO	7"-5M	WORKOVER SINGLE OFFSET
3105596	7"-5M	WORKOVER VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3102621-1	7"-10M/15M	
3103390-1	7"-10M/15M	SINGLE OFFSET
3103017-1	7"-10M	DUAL OFFSET
3103393-1	7"-15M	DUAL OFFSET
3101853-1	9"-3M/5M	
3102935-1	9"-3M/5M	SINGLE OFFSET
3102955-1	9"-3M/5M	DUAL OFFSET
3102962-1	9"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101120-1	11"-3M/5M	
3101772-1	11"-3M/5M	SINGLE OFFSET
3102421-2	11"-3M/5M	DUAL OFFSET
3103344-6	11"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101014-1	11"-10M	MODEL A
3102486-1	11"-10M	MODEL B
3104512	11"-10M	MODEL B VARIABLE (2 ³ / ₈ " to 5")
3103828-1	11"-15M	
3101470-1	13"-3M/5M	MODEL A & B
3101569-1	13"-3M/5M	SINGLE OFFSET
3101736-3	13"-3M/5M	DUAL OFFSET
3101880-1	13"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101470-7	13"-3M/5M	HANGING RAM
3104438	13"-3M/5M	VARIABLE (3 ¹ / ₂ " to 6")
3107078	13"-3M/5M	VARIABLE (4 ¹ / ₂ " to 7")
3100966-1	13"-10M	
3102811-4	13"-10M	SINGLE OFFSET
3101967-1	13"-10M	DUAL OFFSET
3100967-3-HR	13"-10M	HANGING RAM
3104341	13"-10M	VARIABLE (3 ¹ / ₂ " to 6")
3103648-1	13"-15M	
3100991-1	16"-10M	
3100929-1	18"-10M	
3106025	18"-10M	VARIABLE (3 ¹ / ₂ " to 5")
3103935-1	18"-15M	
3105745	18"-15M	VARIABLE (3 ¹ / ₂ " to 5")
3101443-1	20"-3M & 21"-2M	
3101443-4-HR	20"-3M & 21"-2M	HANGING RAM

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / TOP SEALS**

PART #	B.O.P. SIZE	DESCRIPTION
3101235	7"-3M/5M	MODEL A T-V
3102693	7"-3M/5M	MODEL B T-X
3116587	7"-3M/5M	SENTRY
3116880	7"-3M/5M	SENTRY VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3104690	7"-5M	WORKOVER
3104590	7"-5M	WORKOVER VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3102563	7"-10M/15M	
3101852	9"-3M/5M	
3101115	11"-3M/5M	
3101013	11"-10M	MODEL A
3102494	11"-10M	MODEL B
3103303	11"-15M	
3101477	13"-3M/5M	
3101477	13"-3M/5M	VARIABLE (3 ¹ / ₂ " to 6")
3107249	13"-3M/5M	VARIABLE (4 ¹ / ₂ " to 7")
3104956	13"-10M	
3104956	13"-10M	VARIABLE (3 ¹ / ₂ " to 6")
3117616	13"-10M	VARIABLE (4 ¹ / ₂ " to 7")
3103645	13"-15M	
3101004	16"-10M	
3100938	18"-10M	
3100938	18"-10M	VARIABLE (3 ¹ / ₂ " to 5")
3103943	18"-15M	
3105127	18"-15M	VARIABLE (3 ¹ / ₂ " to 5")
3101449	20"-3M & 21"-2M	
3104124	20"-3M & 21"-2M	VARIABLE (2 ⁷ / ₈ " to 5")

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / BONNET SEALS**

3101158	7"-3M/5M	MODEL A T-V
3102684	7"-3M/5M	MODEL B T-X
1900002-442	7"-3M/5M	SENTRY
3104704	7"-5M	WORKOVER
3102194	7"-10M/15M	
3101849	9"-3M/5M	
3101163	11"-3M/5M	
3101567	11"-10M	MODEL A
3102465	11"-10M	MODEL B
3103287	11"-15M	
3100782	13"-3M/5M	MODEL A & B
3101054	13"-10M	MODEL A & B
3103640	13"-15M	
3100918	18"-10M	MODEL B
3101447	20"-3M/21"-2M	
3101447	21"-5M	

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM BLOCKS**

PART #	B.O.P. SIZE	DESCRIPTION
3101164-1	7"-3M/5M	MODEL A T-V
3101801-1	7"-3M/5M	MODEL A T-V SINGLE OFFSET
3102679-1	7"-3M/5M	MODEL B T-X
3102914-1	7"-3M/5M	MODEL B T-X SINGLE OFFSET
3103493-1	7"-3M/5M	MODEL B T-X DUAL OFFSET – UNLIKE BORES
3116569-01	7"-3M/5M	SENTRY
3116569-01-06	7"-3M/5M	SENTRY SINGLE OFFSET
3116569-07-VBR	7"-3M/5M	SENTRY VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3104703-1	7"-5M	WORKOVER
3104702-6	7"-5M	WORKOVER VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3102213-1	7"-10M	
3103006-1	7"-10M	SINGLE OFFSET
3103014-1	7"-10M	DUAL OFFSET
3102605-1	7"-15M	
3104302-1	7"-15M	SINGLE OFFSET
3104949-1	7"-15M	DUAL OFFSET
3101839-1	9"-3M/5M	
3102937-1	9"-3M/5M	SINGLE OFFSET
3102952-1	9"-3M/5M	DUAL OFFSET
3102960-1	9"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101091-5	11"-3M/5M	
3101171-1	11"-3M/5M	SINGLE OFFSET
3102420-2	11"-3M/5M	DUAL OFFSET
3103346-6	11"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101024-1	11"-10M	MODEL A
3102483-1	11"-10M	MODEL B
3104511	11"-10M	MODEL B VARIABLE (2 ³ / ₈ " to 5")
3103294-1	11"-15M	
3101469-1	13"-3M/5M	
3101580-1	13"-3M/5M	SINGLE OFFSET
3101735-3	13"-3M/5M	DUAL OFFSET
3101875-1	13"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101818-1	13"-3M/5M	HANGING RAM
3104439	13"-3M/5M	VARIABLE (3 ¹ / ₂ " to 6")
3107079	13"-3M/5M	VARIABLE (4 ¹ / ₂ " to 7")
3100973-1	13"-10M	
3102837-4	13"-10M	SINGLE OFFSET
3101970-1	13"-10M	DUAL OFFSET
3102056-1	13"-10M	HANGING RAM
3104347	13"-10M	VARIABLE (3 ¹ / ₂ " to 6")
3103644-1	13"-15M	
3100997-1	16"-10M	
3100927-1	18"-10M	
3105274	18"-10M	VARIABLE (3 ¹ / ₂ " to 5")
3103960-1	18"-15M	
3104948	18"-15M	VARIABLE (3 ¹ / ₂ " to 5")
3101437-3	20"-3M & 21"-2M	
3101819-1	20"-3M & 21"-2M	HANGING RAM
3107319	20"-3M & 21"-2M	VARIABLE (2 ⁷ / ₈ " to 5")

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM ASSEMBLIES**

PART #	B.O.P. SIZE	DESCRIPTION
3101086-1	7"-3M/5M	MODEL A T-V
3101791-1	7"-3M/5M	MODEL A T-V SINGLE OFFSET
3103495-1	7"-3M/5M	MODEL A T-V DUAL OFFSET – UNLIKE BORES
3102709-1	7"-3M/5M	MODEL B T-X
3102918-1	7"-3M/5M	MODEL B T-X SINGLE OFFSET
3105503-1	7"-3M/5M	MODEL B T-X DUAL OFFSET
3103495-1	7"-3M/5M	MODEL B T-X DUAL OFFSET – UNLIKE BORES
3116580-01	7"-3M/5M	SENTRY
3116580-01-OS	7"-3M/5M	SENTRY SINGLE OFFSET
3116580-07-VBR	7"-3M/5M	SENTRY VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3104692-1	7"-5M	WORKOVER
3105956-1	7"-5M	WORKOVER SINGLE OFFSET
3105693-1	7"-5M	WORKOVER DUAL OFFSET
3105967-1	7"-5M	WORKOVER DUAL OFFSET – UNLIKE BORES
3104952	7"-5M	WORKOVER VARIABLE (2 ³ / ₈ " to 2 ⁷ / ₈ ")
3102211-1	7"-10M	
3103013-1	7"-10M	SINGLE OFFSET
3103018-1	7"-10M	DUAL OFFSET
3102592-1	7"-15M	
3104301-1	7"-15M	SINGLE OFFSET
3104950-3	7"-15M	DUAL OFFSET
3105028	7"-10M/15M	SHEAR
3101838-1	9"-3M/5M	
3102940-1	9"-3M/5M	SINGLE OFFSET
3102956-1	9"-3M/5M	DUAL OFFSET
3102959-1	9"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101068-1	11"-3M/5M	
3101777-1	11"-3M/5M	SINGLE OFFSET
3102419-2	11"-3M/5M	DUAL OFFSET
3103348-6	11"-3M/5M	DUAL OFFSET – UNLIKE BORES
3103322	11"-3M/5M	SHEAR
3101011-1	11"-10M	MODEL A
3102500-1	11"-10M	MODEL B
3104510	11"-10M	MODEL B VARIABLE (2 ³ / ₈ " to 5")
3104525	11"-10M	MODEL B SHEAR
3103302-1	11"-15M	
3104904	11"-15M	SHEAR
3101463-1	13"-3M/5M	
3101582-1	13"-3M/5M	SINGLE OFFSET
3101873-3	13"-3M/5M	DUAL OFFSET
3101879-1	13"-3M/5M	DUAL OFFSET – UNLIKE BORES
3101822-1	13"-3M/5M	HANGING RAM
3104440	13"-3M/5M	VARIABLE (3 ¹ / ₂ " to 6")
3107080	13"-3M/5M	VARIABLE (4 ¹ / ₂ " to 7")
3102745	13"-3M/5M	SHEAR

REPLACEMENT PARTS FOR : **HYDRIL BLOWOUT PREVENTERS / RAM ASSEMBLIES**

PART #	B.O.P. SIZE	DESCRIPTION
3100956-1	13"-10M	
3102838-4	13"-10M	SINGLE OFFSET
3101963-1	13"-10M	DUAL OFFSET
3102057-1	13"-10M	HANGING RAM
3104348	13"-10M	VARIABLE (3½" to 6")
3103338	13"-10M	SHEAR
3103637-1	13"-15M	
3104161	13"-15M	SHEAR
3100986-1	16"-10M	
3103226	16"-10M	SHEAR
3100933-1	18"-10M	
3106229	18"-10M	VARIABLE (3½" to 5")
3102584	18"-10M	SHEAR
3103947-1	18"-15M	
3104992	18"-15M	VARIABLE (3½" to 5")
3104000	18"-15M	SHEAR
3101390-1	20"-3M & 21"-2M	
3101821-1	20"-3M & 21"-2M	HANGING RAM
3107320	20"-3M & 21"-2M	VARIABLE (2⅞" to 5")
3104417	20"-3M & 21"-2M	SHEAR

REPLACEMENT PARTS FOR : **HYDRIL KELLYGUARD VALVE PARTS**

PART #	VALVE SIZE	CONNECTION	OD	PSI
1008080-1	2½"	2½ API IF	3¾"	10M
1006980-1	2½"	2½ API IF	3¾"	15M
1008080-101	2½"	2½ 7.9# PH-6	3¾"	10M
1006980-101	2½"	2½ 7.9# PH-6	3¾"	15M
1008080-102	2½"	2½ 8.7# PH-6	3¾"	10M
1006980-102	2½"	2½ 8.7# PH-6	3¾"	15M
1008180-1	3"	2½ API IF	4¼"	10M
1007380-1	3"	2½ API IF	4¼"	15M
1008180-2	3"	3½ API IF	4¾"	10M
1007380-2	3"	3½ API IF	4¾"	15M
1008180-6	3"	NC 40 (4 FH)	5⅜"	10M
1007380-6	3"	NC 40 (4 FH)	5⅜"	15M
1008280-1	3½"	3½ API IF	5⅜"	10M
1007580-1	3½"	3½ API IF	5⅜"	15M
1008280-4	3½"	4 API IF, 4½ XH	6⅛"	10M
1007580-4	3½"	4 API IF, 4½ XH	6⅛"	15M
1008280-2	3½"	4½ XH	6⅛"	10M
1007580-2	3½"	4½ FH	6⅛"	15M
1008280-5	3½"	4½ REG LH (UPPER)	6⅛"	10M
1007580-5	3½"	4½ REG LH (UPPER)	6⅛"	15M
1008280-3	3½"	4½ API IF, 5 XH	6⅜"	10M
1007580-3	3½"	4½ API IF, 5 XH	6⅜"	15M
1008680-1	4¼"	4 API IF, 4½ XH	6⅝"	10M
1007880-1	4¼"	4 API IF, 4½ XH	6⅝"	15M
1008680-2	4¼"	4½ API IF, 5 XH	6⅝"	10M
1007880-2	4¼"	4½ API IF, 5 XH	6⅝"	15M
1008680-3	4¼"	5½ FH	7¾"	10M
1007880-3	4¼"	5½ FH	7¾"	15M
1008680-4	4¼"	6⅝ REG LH (UPPER)	7¾"	10M
1007880-4	4¼"	6⅝ REG LH (UPPER)	7¾"	15M
1008880-1	5¼"	4½ API IF, 5 XH	7⅝"	10M
1007980-1	5¼"	4½ API IF, 5 XH	7⅝"	15M
1008880-2	5¼"	5½ FH	7⅝"	10M
1007980-2	5¼"	5½ FH	7⅝"	15M
1008880-3	5¼"	NC 56	7⅝"	10M
1007980-3	5¼"	NC 56	7⅝"	15M
1008880-4	5¼"	5½ IF	7¾"	10M
1007980-4	5¼"	5½ IF	7¾"	15M
1008880-6	5¼"	6⅝ REG RH	7¾"	10M
1007980-6	5¼"	6⅝ REG RH	7¾"	15M
1008880-5	5¼"	6⅝ REG LH	7¾"	10M

REPLACEMENT PARTS FOR : HYDRIL KELLYGUARD VALVE PARTS

DESCRIPTION	PART #	PART #	PART #	PART #	PART #
	2½"	3"	3½"	4¼"	5¼"
LOWER SEAT*	1004382-1	1004482-1	1004582-1	1006682-1	1006882-1
BALL*	1006983	1007483	1004583	1001893	1004883
UPPER SEAT*	1004384-1	1004484-1	1004584-1	1006684-1	1006884-1
OPER CRANK	1008188	1008188	1006688	1007888	1007888
SLEEVE*	1008386	1008486	1008588	1008686	1008886
LOWER SPLIT RETAINER RING	1004407-1	1004507-1	1004607-1	1001907-1	1006907-1
UPPER SPLIT RETAINER RING	1004409	1004508	1004608	1001908	1006908
RETAINER RING	1004401	1004501	1004601	1001913	1006901
SPIRAL WOUND RETAINER RING	1920003-193	1920003-193	1920003-287	1920003-362	1920003-387
UPPER O-RING #	1900002-229	1900002-233	1900002-340	1900002-346	1900002-349
BACK-UP RING #	1920012-229	1920012-233	1920012-340	1920012-346	1920012-349
LOWER O-RING #	1900002-222	1900002-226	1900002-231	1900002-338	1900002-239
BACK-UP RING #	1920012-222	1920012-226	1920012-231	1920012-338	1920012-239
CRANK T-SEAL #	1920004-210	1920004-210	1920004-214	1920004-220	1920004-220
LOWER SEAT SPRING*	1004295-6	1004295-5	1004295-3	1004295-2	1004295-4
COUPLER	1007492	1007492	1008592	1008543	1008543
O-RING #	1900002-025	1900002-025	1900002-029	1900002-032	1900002-032
BACK-UP RING #	1920012-025	1920012-025	1920012-029	1920012-032	1920012-032
ASSEMBLY TOOL	1008515	1006175	1006175	1005693	1005693
OPER WRENCH	1005695	1005695	40929	40928	40928
SEAL KIT *	1004385	1007482	1006889	1004485	1004486
MAJOR REPAIR KIT	3108871	3108872	3108873	3108874	3108875

SEAL KIT COMPONENTS

* MAJOR REPAIR KIT COMPONENTS

REPLACEMENT PARTS FOR : HYDRIL CHECKGUARD ASSEMBLIES

DESCRIPTION	PART #	PART #	PART #	PART #
CHECKGUARD ASSEMBLY	NO. 27	NO. 35	NO. 43	NO. 48
2 ⁷ / ₈ " IF (NC31)	1007212-01			
3 ¹ / ₂ " IF (NC38)	1007212-02	1007412-01		
4" IF (NC46)		1007412-03	1004612-06	
4 ¹ / ₂ " IF (NC50)		1007412-04	1004612-03	1007712-01
5 ¹ / ₂ " FH				1007712-02
6 ¹ / ₈ " FH				1007712-05
LANDING SUB ASSEMBLY				
2 ⁷ / ₈ " IF (NC31)	1400096-1			
3 ¹ / ₂ " IF (NC38)	1400096-2	1400097-1		
4" IF (NC46)		1400097-3	1400098-6	
4 ¹ / ₂ " IF (NC50)		1400097-4	1400098-3	1400099-1
5 ¹ / ₂ " FH				1400099-2
6 ¹ / ₈ " FH				1400099-5
SUB BODY				
2 ⁷ / ₈ " IF (NC31)	1007220-1			
3 ¹ / ₂ " IF (NC38)	1007220-2	1007420-1		
4" IF (NC46)		1007420-3	1004620-6	
4 ¹ / ₂ " IF (NC50)		1007420-4	1004620-3	1007720-1
6 ¹ / ₈ " FH				1007720-5
LANDING SLEEVE	1007219	1007419	1004619	1007719
UPPER SPLIT RING	1004508	1004608	1001908	1006908
RETAINER RING	1004501	1004601	1001913	1006901
RETAINING RING	1920003-231	1920003-287	1920003-362	1920003-387
QUAD RING	1920076-230	1920076-234	1920076-240	1920076-244
O-RING	1900002-233	1900002-340	1900002-346	1900002-349
BACK-UP O-RING	1920012-233	1920012-340	1920012-346	1920012-349
CHECK VALVE (SPARE PARTS FOR ONE YEAR) ASSEMBLY	1007240	1007440	1004640	1007740
BALL, CAGE	1007238	1007438	1004638	1007738
BALL, SEAT	1007214	1007414	1004614	1007714
BODY	1007215	1007415	1004615	1007715
NUT	1007216	1007416	1004616	1007716
SLIP	1007236	1007436	1004636	1007736
PACKER 1007218	1007418	1004618	1007718	
BACK-UP RING INNER	1007222	1007422	1004622	1007722
BACK-UP RING OUTER	1007223	1007423	1004623	1007723
RETAINING RING	1007821-2	1007721-3	1007721-2	1007721-1
VALVE SPRING	1007210	1007410	1004610	1007710
BALL SPRING	1007224	1007424	1004624	1007724
BALL	1900150-39	1900150-47	1900150-55	1900150-60
RETRIEVING TOOL	1007225	1007425	1004625	1007725

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM PARTS

PART #	DESCRIPTION	PART #	DESCRIPTION
6227-11	O-RING	6230-12	O-RING
6227-15	O-RING	6230-15	O-RING
6227-24	O-RING	6230-17	O-RING
6227-26	O-RING	6230-21	O-RING
6227-29	O-RING	6230-23	O-RING
6227-31	O-RING	6230-25	O-RING
6227-32	O-RING	6230-26	O-RING
6227-33	O-RING	11735-1	RING, RAM REAR SEAL
6227-34	O-RING	11735-2	RING, RAM REAR SEAL
6227-35	O-RING	11735-3	RING, RAM REAR SEAL
6227-36	O-RING	11741-1	CONNECTING ROD SEAL
6227-38	O-RING	11741-2	CONNECTING ROD SEAL
6227-39	O-RING	11741-3	CONNECTING ROD SEAL
6227-40	O-RING	11741-4	RING, PISTON ROD SEAL
6227-41	O-RING	11741-5	RING, PISTON ROD SEAL
6227-43	O-RING	11741-6	RING, PISTON ROD SEAL
6227-44	O-RING	11741-7	RING, OPERATING CYLINDER HEAD
6227-45	O-RING	11741-8	RING, OPERATING CYLINDER HEAD
6227-46	O-RING	11741-9	RING, OPERATING CYLINDER HEAD
6227-47	O-RING	11741-32	SEAL RING TAIL ROD
6227-48	O-RING	11741-33	SEAL RING TAIL ROD
6227-49	O-RING	11741-34	SEAL RING TAIL ROD
6227-50	O-RING	11741-36	SEAL RING CONNECTING ROD
6227-52	O-RING	11741-37	SEAL RING CONNECTING ROD
6227-56	O-RING	11741-38	SEAL RING CONNECTING ROD
6227-58	O-RING	11741-60	SEAL RING CONNECTING ROD
6227-61	O-RING	11746-1	RING, PLASTIC PACKING RETAINER
6227-62	O-RING	11746-2	RING, PLASTIC PACKING RETAINER
6227-64	O-RING	11746-3	RING, PLASTIC PACKING RETAINER
6227-65	O-RING	12469-24	RING, PLASTIC PACKING
6227-66	O-RING	12469-36	RING, PLASTIC PACKING
6227-67	O-RING	12469-38	RING, PLASTIC PACKING
6227-68	O-RING	12469-72	RING, PLASTIC PACKING
6227-69	O-RING	15352	RING, LOCKING SCREW SEAL
6227-73	O-RING	15694	RING, RAM CHANGE PISTON ROD/INT. FLANGE
6227-78	O-RING	16277	RING, RAM OPERATING PISTON ROD SEAL
6227-82	O-RING	18492-12	RING, RAM OPERATING PISTON SEAL
6227-88	O-RING	18492-15	BONNET SEAL
6230-01	O-RING	18492-24	4" HCR BONNET SEAL
6230-03	O-RING	18492-29	O-RING OPERATING PISTON
6230-05	O-RING	18492-84	O-RING OPERATING PISTON
6230-07	O-RING	18492-88	O-RING OPERATING PISTON
6230-09	O-RING	18492-90	O-RING OPERATING PISTON
6230-10	O-RING	18492-91	O-RING OPERATING ROD/INTERNAL FLANGE

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM PARTS

PART #	DESCRIPTION	PART #	DESCRIPTION
18492-92	O-RING OPER. ROD/INT. FLANGE	46613-03	BONNET SEAL TYPE U NEW STYLE
18493-4	BONNET SEAL TYPE SS	46613-04	BONNET SEAL TYPE U NEW STYLE
18493-5	BONNET SEAL TYPE SS	46613-05	BONNET SEAL TYPE U NEW STYLE
18493-11	PISTON SEAL	46613-06	BONNET SEAL TYPE U NEW STYLE
18493-12	PISTON SEAL	46613-07	BONNET SEAL TYPE U NEW STYLE
18493-13	PISTON SEAL	46613-09	BONNET SEAL TYPE U NEW STYLE
18586-01	RING, PLASTIC ENERGIZING	49272-03	BONNET SEAL TYPE U
18586-12	RING, PLASTIC ENERGIZING	644196-01	BONNET SEAL TYPE U NEW STYLE
18586-13	RING, PLASTIC ENERGIZING	644197-01	BONNET SEAL TYPE U NEW STYLE
19060-11	BONNET SEAL TYPE U OLD STYLE	644197-02	BONNET SEAL TYPE U NEW STYLE
19060-12	BONNET SEAL TYPE U	644197-03	BONNET SEAL TYPE U NEW STYLE
19060-13	BONNET SEAL TYPE U	644197-04	BONNET SEAL TYPE U NEW STYLE
19060-16	BONNET SEAL TYPE U	644197-05	BONNET SEAL TYPE U NEW STYLE
19061-1	BONNET SEAL TYPE QRC	704772	BONNET SEAL TYPE U NEW STYLE
19061-3	BONNET SEAL TYPE QRC	704773	LIP SEAL PISTON
19061-4	BONNET SEAL TYPE QRC	704774	LIP SEAL PISTON
46613-01	BONNET SEAL TYPE U NEW STYLE	704775	LIP SEAL PISTON
46613-02	BONNET SEAL TYPE U NEW STYLE	704776	LIP SEAL PISTON

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / CLAMPS

615236-08 CLAMP No. 8
615236-15 CLAMP No. 15

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / CHECK VALVE

20298 2"-5M TYPE R RUBBER SEAT – SEAL (1-13/16" to 2-9/16")

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / GASKETS

AX RING GASKETS
CX RING GASKETS
VX RING GASKETS

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM SEAL KITS

PART #	DESCRIPTION	PART #	DESCRIPTION
<u>OLD STYLE SEAL KITS</u>		<u>OLD STYLE REPAIR KITS</u>	
90012-01	6"-3M/5M TYPE QRC	91017-01	7"-3M TYPE U
90015-01	6"-3M/5M TYPE SS	91017-011	7"-5M TYPE U
90017-01	7"-3M TYPE U	91018-01	7"-10M TYPE U
90017-011	7"-5M TYPE U	91018-011	7"-15M TYPE U
90018-01	7"-10M TYPE U	90013-02	10"-3M/5M TYPE QRC
90018-011	7"-15M TYPE U	91019-01	11"-3M TYPE U
90013-01	10"-3M/5M TYPE QRC	91019-011	11"-5M TYPE U
90016-01	10"-3M/5M TYPE SS	91020-01	11"-10M TYPE U
90019-01	11"-3M TYPE U	91026-01	13"-3M TYPE U
90019-011	11"-5M TYPE U	91026-011	13"-5M TYPE U
90020-01	11"-10M TYPE U	91022-01	13"-10M TYPE U
90014-01	12"-3M TYPE QRC	91031-01	16"-3M TYPE U
90021-01	12"-3M TYPE SS	91030-01	16"-5M TYPE U
90026-01	13"-3M TYPE U	91033-01	16"-10M TYPE U
90026-011	13"-5M TYPE U	<u>T-D PACKING ELEMENT SUB ASSY</u>	
90022-01	13"-10M TYPE U	644856-03	7"-10M
90031-01	16"-3M TYPE U	644856-05	11"-10M
90031-011	16"-5M TYPE U	644586-06	13"-10M
90033-01	16"-10M TYPE U	<u>WEDGE LOCK SEAL KITS</u>	
90025-011	20"-3M TYPE U	633413-01	13"-5M/10M DOUBLE STYLE
90025-01	21"-2M TYPE U	<u>TANDEM BOOSTER KITS</u>	
<u>BONNET REBUILD KITS</u>		2164148-01	7"-3M/5M/10M/15M
644909-01	7"-3M/5M/10M/15M TYPE U	2164148-03	11"-3M/5M/10M
644909-02	11"-3M/5M/10M TYPE U	2164148-02	11"-15M/13"-3M/5M/10M
644909-02-OS	11"-3M/5M/10M OLD STYLE	<u>TANDEM BOOSTER ASSU</u>	
644909-02-LB	11"-3M/5M/10M/15M TYPE U	645414-01	7"-5M/10M/15M
644831-08	11"-15M TYPE U	<u>TYPE R REPAIR KIT</u>	
644909-03	13"-3M/5M/10M/15M TYPE U	20001	2"-10M TYPE R
644909-03-OS	13"-3M/5M/10M/15M OLD STYLE		
644560-07-05	13"-5M LARGE BORE TYPE U		
633413-02	13"-5M/10M SINGLE STYLE		
644831-12	13"-15M TYPE U		
644560-07-10	13"-10M LARGE BORE TYPE U		
644909-07-01	16"-3M/5M/10M TYPE U		
644909-04	18"-10M TYPE U		
644909-06	21"-2M/3M/5M/10M TYPE U		
644831-19	21"-5M TYPE U		
644831-22	26"-3M TYPE U		

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM SEAL KITS

PART #	DESCRIPTION	PART #	DESCRIPTION
<u>NEW STYLE SEAL KITS</u>		<u>NEW STYLE REPAIR KITS</u>	
90017-02	7"-3M TYPE U	91017-02	7"-3M TYPE U
90017-021	7"-5M TYPE U	91017-021	7"-5M TYPE U
90018-02	7"-10M TYPE U	91018-02	7"-10M TYPE U
90018-021	7"-15M TYPE U	91018-021	7"-15M TYPE U
90019-02	11"-3M TYPE U	91019-02	11"-3M TYPE U
90019-021	11"-5M TYPE U	91019-021	11"-5M TYPE U
90020-02	11"-10M TYPE U	91020-02	11"-10M TYPE U
90021-02	11"-15M TYPE U	91021-02	11"-15M TYPE U
90026-02	13"-3M TYPE U	91026-02	13"-3M TYPE U
90026-021	13"-5M TYPE U	91026-021	13"-5M TYPE U
90022-02	13"-10M TYPE U	91022-02	13"-10M TYPE U
90029-01	13"-15M TYPE U	91029-01	13"-15M TYPE U
90030-02	16"-3M TYPE U	91030-02	16"-3M TYPE U
90032-02	16"-5M TYPE U	91032-02	16"-5M TYPE U
90033-02	16"-10M TYPE U	91033-02	16"-10M TYPE U
90024-02	18"-10M TYPE U	91024-02	18"-10M TYPE U
90025-021	20"-3M TYPE U	91025-021	20"-3M TYPE U
90025-02	21"-2M TYPE U	91025-02	21"-2M TYPE U
90028-01	21"-5M TYPE U	91028-01	21"-5M TYPE U
90028-011	21"-10M TYPE U	91028-011	21"-10M TYPE U
90040-01	26"-3M TYPE U	91040-01	26"-3M TYPE U
<u>LARGE BORE SEAL KITS</u>		<u>LARGE BORE REPAIR KITS</u>	
90019-02-LB	11"-3M TYPE U	91019-02-LB	11"-3M TYPE U
90019-021-LB	11"-5M TYPE U	91019-021-LB	11"-5M TYPE U
90020-02-LB	11"-10M TYPE U	91020-02-LB	11"-10M TYPE U
90021-02-LB	11"-15M TYPE U	91021-02-LB	11"-15M TYPE U
90026-02-LB	13"-3M TYPE U	91026-02-LB	13"-3M TYPE U
90026-021-LB	13"-5M TYPE U	91026-021-LB	13"-5M TYPE U
90022-02-LB	13"-10M TYPE U	91022-02-LB	13"-10M TYPE U
90029-01-LB	13"-15M TYPE U	91029-01-LB	13"-15M TYPE U
90032-02-LB	16"-5M TYPE U	91032-02-LB	16"-5M TYPE U
90033-02-LB	16"-10M TYPE U	91033-02-LB	16"-10M TYPE U
90025-021-LB	20"-3M TYPE U	91025-021-LB	20"-3M TYPE U
90025-02-LB	21"-2M TYPE U	91025-02-LB	21"-2M TYPE U

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM PACKERS

PART #	B.O.P. SIZE	DESCRIPTION
5660-11	6"-3M/5M	TYPE QRC
5660-11-OS	6"-3M/5M	TYPE QRC OFFSET
5660-11-D	6"-3M/5M	TYPE QRC DUAL
11735-1	6"-3M/5M	TYPE QRC REAR SEAL
16251	6"-3M/5M	TYPE SS
16251-OS	6"-3M/5M	TYPE SS OFFSET
19473-01-D	7"-3M/5M/10M	TYPE U DUAL
19473-01-UC	7"-3M/5M/10M	TYPE U UNDERCUT(STRIPPER)
19473-01-U	7"-3M/5M/10M	TYPE U URETHANE INSERT(WEAR INSERT)
49358-01	7"-3M/5M/10M	TYPE U SBR PACKER - LEFT
49358-02	7"-3M/5M/10M	TYPE U SBR PACKER - RIGHT
19473-01	7"-3M/5M/10M/15M	TYPE U
19473-01-SP	7"-3M/5M/10M/15M	TYPE U SNUBBING PACKER
19473-01-SPI	7"-3M/5M/10M/15M	TYPE U SNUBBING PACKER INSERT
614616-02	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ³ / ₈ " to 3 ¹ / ₂ ")
614616-01	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 4")
21153-07	7"-3M/5M/10M/15M	TYPE U OFFSET LH (1.315")
49347-01	7"-5M/10M/15M	TYPE U SBR BLADE PACKER
H978-00-053	7"-10M/15M	TYPE U SLIP & SEAL PACKER
5871-14	10"-3M/5M	TYPE QRC
5871-14-OS	10"-3M/5M	TYPE QRC OFFSET
5871-14-D	10"-3M/5M	TYPE QRC DUAL
11735-2	10"-3M/5M	TYPE QRC REAR SEAL
16005	10"-3M/5M & 8"-3M/5M	TYPE SS
16005-OS	10"-3M/5M & 8"-3M/5M	TYPE SS OFFSET
19243-03	11"-3M/5M/10M	TYPE U
19243-03-SP	11"-3M/5M/10M	TYPE U SNUBBING PACKER
19243-03-SPI	11"-3M/5M/10M	TYPE U SNUBBING PACKER INSERT
49715-01	11"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
46554-01	11"-3M/5M/10M	TYPE U VARIABLE (3 ¹ / ₂ " to 5 ¹ / ₂ ")
21157-05	11"-3M/5M/10M	TYPE U OFFSET LH (1.66")
19243-03-D	11"-3M/5M/10M	TYPE U DUAL
645080-02	11"-5M/10M	TYPE U DS SBR LEFT PACKER
645080-01	11"-5M/10M	TYPE U DS SBR RIGHT PACKER
645031-02	11"-5M/10M	TYPE U DS SBR BLADE PACKER
46751-04	11"-5M/10M	TYPE U SBR LEFT PACKER
46752-04	11"-5M/10M	TYPE U SBR RIGHT PACKER
2010462-04	11"-5M/10M	TYPE U SBR BLADE PACKER
2163445-01	11"-5M/10M	TYPE U NR FLEXPACKER (3 ¹ / ₂ " to 5 ¹ / ₂ ")
690808-17	11"-15M	TYPE U
690808-17-D	11"-15M	TYPE U DUAL
690808-17-UR	11"-15M	TYPE U URETHANE INSERT
690808-17-SP	11"-15M	TYPE U STRIPPER PACKING (5")
614452-01	11"-15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
2010460-07	11"-15M	TYPE U SBR LEFT PACKER
2010461-07	11"-15M	TYPE U SBR RIGHT PACKER

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM PACKERS

PART #	B.O.P. SIZE	DESCRIPTION
2010462-04	11"-15M	TYPE U SBR BLADE PACKER
6500-1	12"-3M	TYPE QRC
6500-1-OS	12"-3M	TYPE QRC OFFSET
6500-1-D	12"-3M	TYPE QRC DUAL
11735-3	12"-3M	TYPE QRC REAR SEAL
16175	12"-3M/5M	TYPE SS
19504-03	13"-3M/5M/10M	TYPE U
19504-03-OS	13"-3M/5M/10M	TYPE U OFFSET
19504-03-D	13"-3M/5M/10M	TYPE U DUAL
19504-03-278278	13"-3M/5M/10M	TYPE U DUAL (2 ⁷ / ₈ " x 2 ⁷ / ₈ ")
19504-03-SP	13"-3M/5M/10M	TYPE U SNUBBING PACKER
19504-03-SPI	13"-3M/5M/10M	TYPE U SNUBBING PACKER INSERT
46546-01	13"-3M/5M/10M	TYPE U VARIABLE (4 ¹ / ₂ " to 7")
46178-01	13"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
31215-17	13"-3M/5M/10M	TYPE U BLADE PACKER – ALUM. DRILL PIPE
46751-01	13"-5M/10M	TYPE U SBR LEFT SHEAR
46752-01	13"-5M/10M	TYPE U SBR RIGHT SHEAR
645494-01	13"-5M/10M	TYPE U DS SBR LEFT PACKER
645494-02	13"-5M/10M	TYPE U DS SBR RIGHT PACKER
645031-01	13"-5M/10M	TYPE U DS SBR BLADE PACKER
644435-01	13"-5M/10M/15M	TYPE U SBR BLADE PACKER
686758	13"-10M	TYPE U MODEL III SBR LH PACKER
686752	13"-10M	TYPE U MODEL III SBR RH PACKER
40910-21	13"-15M	TYPE U
46546-02	13"-15M	TYPE U VARIABLE (5" to 7")
46178-02	13"-15M	TYPE U VARIABLE (3 ¹ / ₂ " to 5")
46751-05	13"-15M	TYPE U SBR LEFT PACKER
46752-05	13"-15M	TYPE U SBR RIGHT PACKER
38853-01	16"-3M/5M/10M	TYPE U BLIND THRU 5 ¹ / ₂ "
46751-03	16"-5M	TYPE U SBR LEFT PACKER
46752-03	16"-5M/10M	TYPE U SBR RIGHT PACKER
46910-03	16"-5M/10M	TYPE U SBR BLADE PACKER
49678-01	16"-5M/10M	TYPE U VARIABLE (3 ¹ / ₂ " to 7")
46751-03	16"-5M/10M	TYPE U SBR UPPER
46910-03	16"-5M/10M	TYPE U BLADE PACKER
46779-01	16"-10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
41856-19	18"-10M	TYPE U
614130-01	18"-10M	TYPE U VARIABLE (3 ¹ / ₂ " to 7 ⁵ / ₈ ")
46770-01	18"-10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
46751-02	18"-10M	TYPE U SBR LEFT PACKER
46752-02	18"-10M	TYPE U SBR RIGHT PACKER
46910-02	18"-10M	TYPE U SBR BLADE PACKER
2010191-01	18"-10M	TYPE U H ₂ S SBR LEFT PACKER
2010190-01	18"-10M	TYPE U H ₂ S SBR RIGHT PACKER
2010192-01	18"-10M	TYPE U H ₂ S SBR BLADE PACKER
19249-03	20"-3M & 21"-2M	TYPE U

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM PACKERS

PART #	B.O.P. SIZE	DESCRIPTION	
615235-01	20"-3M & 21"-2M	TYPE U	SBR UPPER PACKER
615247-01	20"-3M & 21"-2M	TYPE U	SBR LOWER LH PACKER
615247-02	20"-3M & 21"-2M	TYPE U	SBR LOWER RH PACKER
40962-19	21"-5M/7.5M/10M	TYPE U	
46751-06	21"-5M/7.5M/10M	TYPE U	SBR LEFT PACKER
46752-06	21"-5M/7.5M/10M	TYPE U	SBR RIGHT PACKER
46910-05	21"-5M/7.5M/10M	TYPE U	BLADE PACKER
34201-20	26"-2M/3M	TYPE U	

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / TOP SEALS

PART #	B.O.P. SIZE	DESCRIPTION
11735-1	7"-3M/5M	TYPE QRC
19475	7"-3M/5M/10M/15M	TYPE U
644214-01	7"-3M/5M/10M/15M	TYPE U CAMRAM™ SBR
11735-2	11"-3M/5M	TYPE QRC
19270	11"-3M/5M/10M	TYPE U
644217-01	11"-3M/5M/10M	TYPE U CAMRAM™ VBR
644217-01	11"-5M/10M	TYPE U SBR
644217-02	11"-5M/10M	TYPE U DS SBR
690807	11"-15M	TYPE U
644220-01	11"-15M	TYPE U CAMRAM™
2010453-02	11"-15M	TYPE U CAMRAM™ VBR
2010453-01	11"-15M	TYPE U SBR
19517	13"-3M/5M/10M	TYPE U
644223-01	13"-3M/5M/10M	TYPE U CAMRAM™
644223-01	13"-5M/10M	TYPE U H ₂ S SBR
46753-01	13"-5M/10M	TYPE U VBR
645033-01	13"-5M/10M	TYPE U DS SBR
690056	13"-10M	TYPE U MODEL III SBR REAR SEAL
40936	13"-15M	TYPE U
644226-01	13"-15M	TYPE U CAMRAM™ SBR
38863	16"-3M/5M/10M	TYPE U
644229-01	16"-3M/5M/10M	TYPE U CAMRAM™
644229-01	16"-5M/10M	TYPE U SBR
41444	18"-10M	TYPE U
644232-01	18"-10M	TYPE U CAMRAM™
644232-02	18"-10M	TYPE U SBR
2010193-01	18"-10M	TYPE U H ₂ S SBR
644725-01	18"-10M	TYPE U VBR
19514	20"-3M & 21"-2M	TYPE U SBR
645478-01	21"-5M/7.5M/10M	TYPE U SBR
40972	21"-5M/10M	TYPE U
644238-01	21"-5M/10M	TYPE U CAMRAM™
34200	26"-2M/3M	TYPE U

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM BLOCKS

PART #	B.O.P. SIZE	DESCRIPTION
11730-1	6"-3M/5M	TYPE QRC
11730-1-OS	6"-3M/5M	TYPE QRC OFFSET
11730-1-D	6"-3M/5M	TYPE QRC DUAL
16254-1	6"-3M/5M	TYPE SS UPPER RAM SEGMENT
16253	6"-3M/5M	TYPE SS LOWER RAM SEGMENT
16250	6"-3M/5M	TYPE SS PIPE GUIDE
44102-01-D	7"-3M/5M/10M	TYPE U DUAL
44102-01	7"-3M/5M/10M/15M	TYPE U
615065-01	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ³ / ₈ " to 3 ¹ / ₂ ")
614605-01	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 4")
44109-05	7"-3M/5M/10M/15M	TYPE U OFFSET LH (1.315")
46210-01	7"-5M/10M/15M	TYPE U SBR UPPER
12021	10"-3M/5M	TYPE QRC
12021-OS	10"-3M/5M	TYPE QRC OFFSET
12021-D	10"-3M/5M	TYPE QRC DUAL
16003	10"-3M/5M	TYPE SS UPPER RAM SEGMENT
16004	10"-3M/5M	TYPE SS LOWER RAM SEGMENT
16008	10"-3M/5M	TYPE SS PIPE GUIDE
44129-04	11"-3M/5M/10M	TYPE U OFFSET LH (1.66")
44118-01	11"-3M/5M/10M	TYPE U
44118-01-D	11"-3M/5M/10M	TYPE U DUAL
46670-01	11"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
49692-01	11"-3M/5M/10M	TYPE U VARIABLE (3 ¹ / ₂ " to 5 ¹ / ₂ ")
49009-01	11"-5M/10M	TYPE U SBR UPPER
645078-01	11"-5M/10M	TYPE U DS SBR UPPER
644836-01	11"-5M/10M	TYPE U VBR HANGOFF (2 ⁷ / ₈ " to 5") & (3 ¹ / ₂ " to 5 ¹ / ₂ ")
44121-01	11"-15M	TYPE U
44121-01-D	11"-15M	TYPE U DUAL
614453-01	11"-15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
614275-01	11"-15M	TYPE U SBR UPPER
12776	12"-3M	TYPE QRC
12776-OS	12"-3M	TYPE QRC OFFSET
12776-D	12"-3M	TYPE QRC DUAL
16178-1	12"-3M/5M	TYPE SS UPPER RAM SEGMENT
16177-1	12"-3M/5M	TYPE SS LOWER RAM SEGMENT
16152	12"-3M/5M	TYPE SS PIPE GUIDE
44147-01	13"-3M/5M/10M	TYPE U
44147-01-OS	13"-3M/5M/10M	TYPE U OFFSET
44147-01-D	13"-3M/5M/10M	TYPE U DUAL
44147-01-278278	13"-3M/5M/10M	TYPE U DUAL (2 ⁷ / ₈ " x 2 ⁷ / ₈ ")
46671-01	13"-3M/5M/10M	TYPE U VARIABLE (4 ¹ / ₂ " to 7")
49345-01	13"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
644744-01	13"-3M/5M/10M	TYPE U VBR HANGOFF (2 ⁷ / ₈ " to 5")

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM BLOCKS

PART #	B.O.P. SIZE	DESCRIPTION
46749-01	13"-5M/10M	TYPE U SBR UPPER
644780-01	13"-5M/10M	TYPE U H ₂ S SBR UPPER
645027-01-00-02	13"-5M/10M	TYPE U DS SBR UPPER
44143-01	13"-15M	TYPE U
614146-01	13"-15M	TYPE U VARIABLE (5" to 7")
614147-01	13"-15M	TYPE U VARIABLE (3½" to 5")
614002-01	13"-15M	TYPE U SBR UPPER
44179-01	16"-3M/5M/10M	TYPE U
49006-01	16"-5M	TYPE U SBR UPPER
46672-01	16"-5M/10M	TYPE U VARIABLE (3½" to 7")
46767-01	16"-10M	TYPE U VARIABLE (2⅞" to 5")
46774-01	16"-10M	TYPE U SBR UPPER
44184-01	18"-10M	TYPE U
46673-01	18"-10M	TYPE U VARIABLE (3½" to 7⅝")
46769-01	18"-10M	TYPE U VARIABLE (2⅞" to 5")
46777-01	18"-10M	TYPE U SBR UPPER
2010187-01	18"-10M	TYPE U H ₂ S SBR UPPER
615407-01	18"-10M/15M	TYPE U II
644479	18"-15M	TYPE T/TL
44191-01	20"-3M & 21"-2M	TYPE U
46784-01	20"-3M & 21"-2M	TYPE U SBR UPPER
49981-01	21"-5M	TYPE U SBR UPPER
44214-01	21"-5M/10M	TYPE U
49012-01	21"-7.5M/10M	TYPE U SBR UPPER
44209-01	26"-2M/3M	TYPE U

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM ASSEMBLIES

PART #	B.O.P. SIZE	DESCRIPTION
12746-1	6"-3M/5M	TYPE QRC
12746-1-OS	6"-3M/5M	TYPE QRC OFFSET
12746-1-D	6"-3M/5M	TYPE QRC DUAL
16249	6"-3M/5M	TYPE SS
16249-08	6"-3M/5M	TYPE SS OFFSET
44226-01-D	7"-3M/5M/10M	TYPE U DUAL
44226-01	7"-3M/5M/10M/15M	TYPE U
615066-01	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ³ / ₈ " to 3 ¹ / ₂ ")
614633-01	7"-3M/5M/10M/15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 4")
44229-01	7"-3M/5M/10M/15M	TYPE U OFFSET LH (1.315")
46792-01	7"-5M/10M/15M	TYPE U SBR UPPER
12748-1	10"-3M/5M	TYPE QRC
12748-1-OS	10"-3M/5M	TYPE QRC OFFSET
12748-1-D	10"-3M/5M	TYPE QRC DUAL
16006	10"-3M/5M & 8"-3M/5M	TYPE SS
16006-OS	10"-3M/5M & 8"-3M/5M	TYPE SS OFFSET
44233-01	11"-3M/5M/10M	TYPE U
44233-01-D	11"-3M/5M/10M	TYPE U DUAL
44238-01	11"-3M/5M/10M	TYPE U OFFSET LH (1.66")
46674-01	11"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
49691-01	11"-3M/5M/10M	TYPE U VARIABLE (3 ¹ / ₂ " to 5 ¹ / ₂ ")
49392-01	11"-5M/10M	TYPE U SBR UPPER
645078-01	11"-5M/10M	TYPE U DS SBR UPPER
645360-01	11"-5M/10M	TYPE U VBR HANGOFF (3 ¹ / ₂ " to 5")
44234-01	11"-15M	TYPE U
44234-01-D	11"-15M	TYPE U DUAL
614456-01	11"-15M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
614297-01	11"-15M	TYPE U SBR UPPER
12749-1	12"-3M	TYPE QRC BLIND THRU 10 ³ / ₄ "
12749-1-OS	12"-3M	TYPE QRC OFFSET
12749-D	12"-3M	TYPE QRC DUAL
16172	12"-3M/5M	TYPE SS
16172-D	12"-3M/5M	TYPE SS DUAL
44244-01	13"-3M/5M/10M	TYPE U
44244-01-OS	13"-3M/5M/10M	TYPE U OFFSET
44244-01-D	13"-3M/5M/10M	TYPE U DUAL
44244-01-278278	13"-3M/5M/10M	TYPE U DUAL (2 ⁷ / ₈ " x 2 ⁷ / ₈ ")
46675-01	13"-3M/5M/10M	TYPE U VARIABLE (4 ¹ / ₂ " to 7")
49346-01	13"-3M/5M/10M	TYPE U VARIABLE (2 ⁷ / ₈ " to 5")
46748-01	13"-5M/10M	TYPE U SBR & H ₂ S SBR UPPER
645026-01	13"-5M/10M	TYPE U DS SBR UPPER
645166-01	13"-10M	TYPE U VBR HANGOFF (2 ⁷ / ₈ " to 5")
44243-01	13"-15M	TYPE U
44243-01-OS	13"-15M	TYPE U OFFSET
44243-01-D	13"-15M	TYPE U DUAL
614104-01	13"-15M	TYPE U VARIABLE (5" to 7")

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / RAM ASSEMBLIES

PART #	B.O.P. SIZE	DESCRIPTION
614129-01	13"-15M	TYPE U VARIABLE (3½" to 5")
614004-01	13"-15M	TYPE U SBR UPPER
44252-01	16"-3M/5M/10M	TYPE U
46766-01	16"-5M	TYPE U SBR UPPER
46676-01	16"-5M/10M	TYPE U VARIABLE (3½" to 7")
44242-01-OS	16"-5M/10M	TYPE U OFFSET
44242-01-D	16"-5M/10M	TYPE U DUAL
49410-01	16"-10M	TYPE U VARIABLE (2⅞" to 5")
46773-01	16"-10M	TYPE U SBR UPPER
44254-01	18"-10M	TYPE U
44254-01-OS	18"-10M	TYPE U OFFSET
44254-01-D	18"-10M	TYPE U DUAL
46677-01	18"-10M	TYPE U VARIABLE (3½" to 7⅝")
49411-01	18"-10M	TYPE U VARIABLE (2⅞" to 5")
46777-01	18"-10M	TYPE U SBR UPPER
44256-01	20"-3M & 21"-2M	TYPE U
46783-01	20"-3M & 21"-2M	TYPE U SBR UPPER
49983-01	21"-5M	TYPE U SBR UPPER
44262-01	21"-5M/10M	TYPE U
46788-01	21"-7.5M/10M	TYPE U SBR UPPER
44260-01	26"-2M/3M	TYPE U

REPLACEMENT PARTS FOR : CAMERON BLOWOUT PREVENTERS / TYPE F CUP TESTERS

TOP & BOTTOM CONNECTION	CASING SIZE / WT. RANGE*		COMPLETE ASSEMBLY	CUP	MANDREL	SUB	O-RING
2½" INTERNAL FLUSH	4½"	ALL	30594-01	30591	30589	30590	6227-25
	5"	ALL	30594-02	30592	30589	30590	6227-25
	5½"	ALL	30594-03	30593	30589	30590	6227-25
3½" INTERNAL FLUSH	6⅝"	ALL	30605-01	30597	30595	30596	6227-37
	7"	17 – 26	30605-02	30598-02	30595	30596	6227-37
		29 – 38	30605-03	30598-01	30595	30596	6227-37
	7⅝"	24 – 26.4	30605-04	30599-01	30595	30596	6227-37
		29.7 – 39	30605-05	30599-02	30595	30596	6227-37
4½" INTERNAL FLUSH	8⅝"	24 – 36	30600-03	30606-02	30603	30604	6227-47
		40 – 49	30600-04	30606-01	30603	30604	6227-47
	9⅝"	32.3 – 40	30600-01	30601-01	30603	30604	6227-47
		43.5 – 53.5	30600-02	30601-02	30603	30604	6227-47
	10¾"	32.75 – 51	30600-05	30607-01	30603	30604	6227-47
		55.5 – 65.7	30600-06	30607-02	30603	30604	6227-47
	13⅜"	48 – 61	30600-07	30579-02	30603	30604	6227-47
		68 – 72	30600-08	30579-01	30603	30604	6227-47
	16"	ALL	30600-09	30584	30603	30604	6227-47
	18⅝"	ALL	30600-12	674819	30603	30604	6227-47
	20"	78.6 – 129.3	30600-10	33543	30603	30604	6227-47
78.6 – 133.0		30600-10	33543	30603	30604	6227-47	

* WEIGHT RANGE = POUND / FOOT

REPLACEMENT PARTS FOR : T.I.W. / BALL VALVE PARTS

<u>PART #</u>	<u>TYPE</u>	<u>CONNECTION</u>	<u>OD x ID</u>
601233	SV	1" CS HYD.	1¾" x ½"
601234	SV	1" CS HYD.	2½" x 1"
6000035	SV	1¼" CS	3⅝" x 1¼"
601235	SV	2⅜" EUE	4½" x 2"
500024	SV	2⅞" IF	4-11/16" x 2⅞"
601230	SV	2⅞" EUE, HYD. & PH6	4⅞" x 2-7/16"
6000021	SV	3½" IF	5" x 2"
6000022	SV	3½" IF	6⅝" x 2-11/16"
6000024	SV	3½" EUE & 3½" CS	7" x 2.992"
6000023	SV	4" FH	6⅜" x 2-11/16"
50314-0	SV	4½" FH	7½" x 3"
6000025	SV	4½" XH, IF, H90	7½" x 3¼"
6000034	SV	4½" EUE	8¼" x 3.865"
6000026	KV	2⅜" IF	3⅝" x 1⅜"
6000029	KV	2⅜" IF	4½" x 1¾"
6000027	KV	2⅞" REG	4" x 1¼"
6000028	KV	2⅞" IF, H90 & 3½" REG	4¼" x 1½"
6000029	KV	2⅞" IF	4½" x 2"
6000030	KV	2⅞" IF	4-11/16" x 2⅞"
6000031	KV	3½" XH	4⅞" x 2-7/16"
500025	KV	3½" FH, IF	5" x 2"
508063-XH	KV	3½" IF	6⅝" x 2-11/16"
508054-IF	KV	3½" IF & 4½" FH, IF, XH	6⅝" x 2¾"
6000032	KV	4½" REG	5½" x 2¼"
508063-XH	KV	4½" XH, FH, IF	6⅝" x 2¾"
500078	KV	4½" FH & 4½" IF, XH	7" x 3¼"
500048	KV	6⅝" REG, LH	7¾" x 3¼"
6000036	KV	6⅝" FH	8" x 3¼"

REPLACEMENT PARTS FOR : T.I.W. / OPERATING WRENCH

<u>PART #</u>	<u>CONNECTION</u>	<u>SIZE</u>	<u>WRENCH FITTING</u>
1030-16	2⅞" EUE	SMALL	SQUARE STEM
1036-16	4½" IF	LARGE	SQUARE STEM

REPLACEMENT PARTS FOR : T.I.W. SAFETY VALVES / BALL TYPE – HOLDS ONE WAY ONLY

DESCRIPTION	PART #	PART #
	<u>1" HYD. (1$\frac{3}{4}$" OD)</u>	<u>1" HYD. (2$\frac{1}{2}$" OD)</u>
FLOATING INSERT	1023P-2	1023Z-2
BALL	1023P-3	1023Z-3
SEAT w/SEAL RING	1023P-4	1023Z-4T
OPERATING STEM	1023P-6	1023P-6
SPRING	1023P-8	1023Z-8
BODY O-RING	1023P-16	0206F-5
STEM O-RING	1023P-15	0340D-11
SEAT O-RING	1023P-17	0421H-7
SEAL RING	1023P-15T	0391N-8T
SEAL KIT	1023P-S	1023Z-S
MAJOR REPAIR KIT	1023P-M	1023Z-M
	<u>2$\frac{3}{8}$" EUE / 2$\frac{3}{8}$" PH6</u>	<u>2$\frac{7}{8}$" IF (4-11/16" OD)</u>
	<u>2$\frac{3}{8}$" CS (4$\frac{1}{2}$" OD)</u>	
FLOATING INSERT	1023V-2	1023G-2
BALL	1023V-3	1023G-3
SEAT w/SEAL RING	1023V-4T	1023G-4T
OPERATING STEM	1023F-6	1023F-6
SPRING	1023V-8	1023G-8
BODY O-RING	0230-4	0212A-6
STEM O-RING	1023C-10	1023C-10
SEAT O-RING	0226E-4	0240B-4
SEAL RING	0224A-6T	0209A-6T
SEAL KIT	1023V-S	1023G-S
MAJOR REPAIR KIT	1023V-M	1023G-M
	<u>2$\frac{1}{2}$" EUE / 2$\frac{7}{8}$" HYD.</u>	<u>3$\frac{1}{2}$" IF (5" OD)</u>
	<u>2$\frac{7}{8}$" PH6 (4$\frac{7}{8}$" OD)</u>	
FLOATING INSERT	1023F-2	1023B-2
BALL	1023F-3	1023B-3
SEAT w/SEAL RING	1023F-4T	1023B-4T
OPERATING STEM	1023F-6	1023B-6
SPRING	1023H-8	1023B-8
BODY O-RING	0459E-6	0212A-6
STEM O-RING	1023C-10	1023C-10
SEAT O-RING	0206K-4	0226E-4
SEAL RING	1023H-9T	0224A-6T
SEAL KIT	1023H-S	1023B-S
MAJOR REPAIR KIT	1023H-M	1023B-M

REPLACEMENT PARTS FOR : T.I.W. SAFETY VALVES / BALL TYPE – HOLDS ONE WAY ONLY

DESCRIPTION	PART #	PART #
	<u>3½" IF (6¾" OD)</u>	<u>4" FH (6¾" OD)</u>
FLOATING INSERT	1023K-2	1023R-2
BALL	1023K-3	1023R-3
SEAT w/SEAL RING	1023K-4T	1023R-4T
OPERATING STEM	1023K-6	1023K-6
SPRING	1023K-8	1023K-8
BODY O-RING	0247A-5	0247A-5
STEM O-RING	0224A-5	0224A-5
SEAT O-RING	0304B-1	0304B-16
SEAL RING	0240B-4T	0206K-4T
SEAL KIT	1023K-S	1023R-S
MAJOR REPAIR KIT	1023K-M	1023R-M
	<u>4½" XH / 4½" IF</u>	<u>4½" H90 (7½" OD)</u>
	<u>3½" EUE (7" OD)</u>	
FLOATING INSERT	1023A-2	1023A-2
BALL	1023A-3	1023A-3
SEAT w/SEAL RING	1023A-4T	1023A-4T
OPERATING STEM	1023D-6	1023A-6
SPRING	1023A-8	1023A-8
BODY O-RING	1023A-12	1023A-12
STEM O-RING	0224A-5	0228C-5
SEAT O-RING	0244A-5	0244A-5
SEAL RING	0241B-5T	0241B-5T
SEAL KIT	1023E-S	1023A-S
MAJOR REPAIR KIT	1023E-M	1023A-M
	<u>4½" FH (7½" OD)</u>	
FLOATING INSERT	1023S-2	
BALL	1023S-3	
SEAT w/SEAL RING	1023S-4T	
OPERATING STEM	1023A-6	
SPRING	1023S-8	
BODY O-RING	1023M-12	
STEM O-RING	0228C-5	
SEAT O-RING	1023G-12	
SEAL RING	0316B-12T	
SEAL KIT	1023S-S	
MAJOR REPAIR KIT	1023S-M	

REPLACEMENT PARTS FOR : T.I.W. KELLY VALVE PARTS / BALL TYPE – HOLDS 2 WAYS

DESCRIPTION	PART #	PART #
	<u>2³/₈" IF (3⁵/₈" OD)</u>	<u>2⁷/₈" REG (4" OD)</u>
BALL	1024U-3	1024T-3
SEAT w/SEAL RING	1024U-2	1024T-2
OPERATING STEM	1024U-6	1024T-6
SPRING	1024T-8	1024T-8
BODY O-RING	0209A-6	0221D-5
STEM O-RING	0219-5	0219-5
SEAT O-RING	0206J-5	0206J-5
SEAL RING	1023C-10T	0396A-23T
SEAL KIT	1024U-S	1024T-S
MAJOR REPAIR KIT	1024U-M	1024T-M
	<u>2⁷/₈" IF / H90</u> <u>3¹/₂" REG (4¹/₄" OD)</u>	<u>2³/₈" IF</u> <u>2⁷/₈" IF (4¹/₂" OD)</u>
BALL	1024J-3	1024C-3
SEAT w/SEAL RING	1024J-2	1024C-2
OPERATING STEM	1024J-6	1024A-6
SPRING	1024J-8	1024C-8
BODY O-RING	0226E-4	0230-4
STEM O-RING	0219-5	0219-5
SEAT O-RING	0224A-6	0221D-5
SEAL RING	0206J-4T	0224A-6T
SEAL KIT	1024J-S	1024F-S
MAJOR REPAIR KIT	1024J-M	1024F-M
	<u>2⁷/₈" IF (4-11/16" OD)</u>	<u>3¹/₂" XH (4⁷/₈" OD)</u>
BALL	1024A-3	1024H-3
SEAT w/SEAL RING	1024A-2	1024H-2
OPERATING STEM	1024A-6	1024A-6
SPRING	1024-8	1024H-8
BODY O-RING	0230-4	0216A-4
STEM O-RING	0219-5	0219-5
SEAT O-RING	0223A-6	0240B-4
SEAL RING	0209A-6T	1023H-9T
SEAL KIT	1024A-S	1024H-S
MAJOR REPAIR KIT	1024A-M	1024H-M

REPLACEMENT PARTS FOR : T.I.W. KELLY VALVE PARTS / BALL TYPE – HOLDS 2 WAYS

DESCRIPTION	PART #	PART #
	<u>3½" FH, IF (5" OD)</u>	<u>4½" REG (5½" OD)</u>
BALL	1024-3	1024H-3
SEAT w/SEAL RING	1024-2	1024H-2
OPERATING STEM	1024-6	1024V-6
SPRING	1024-8	1024H-8
BODY O-RING	0290X-4	0216A-4
STEM O-RING	0219-5	0219-5
SEAT O-RING	0223A-6	0240B-4
SEAL RING	0209A-6T	1023H-9T
SEAL KIT	1024-S	1024V-S
MAJOR REPAIR KIT	1024-M	1024V-M
	<u>3½" IF / 4½" FH, XH, IF (6⅜" OD)</u>	<u>4½" FH 4½" IF, XH (7" OD)</u>
BALL	1024B-3	1024D-3
SEAT w/SEAL RING	1024B-2	1024D-2
OPERATING STEM	1024E-6	1024D-6
SPRING	1024B-8	1024D-8
BODY O-RING	0247A-5	1024C-12
STEM O-RING	0224A-5	0224A-5
SEAT O-RING	0459E-6	0244A-5
SEAL RING	0206K-4T	0216A-4T
SEAL KIT	1024E-S	1024D-S
MAJOR REPAIR KIT	1024E-M	1024D-M
	<u>6⅝" REG LH (7¾" OD)</u>	
BALL	1024D-3	
SEAT w/SEAL RING	1024D-2	
OPERATING STEM	1024K-6	
SPRING	1024D-8	
BODY O-RING	1024C-12	
STEM O-RING	0224A-5	
SEAT O-RING	0244A-5	
SEAL RING	0216A-4T	
SEAL KIT	1024D-S	
MAJOR REPAIR KIT	1024K-M	

REPLACEMENT PARTS FOR : OMSCO LOWER KELLY VALVE PARTS / BALL TYPE

DESCRIPTION	PART #	PART #
	<u>3½"-10M</u> <u>(5¼" OD x 2" ID)</u>	<u>3½"-15M</u> <u>(6" OD x 2" ID)</u>
COMPLETE VALVE	LK-525	LK-600
WRENCH - HEX	LK-841	LK-841
UPPER SUB	LK-812	LK-822
SPRING	LK-813	LK-813
SEAT w/SEAL	LK-814	LK-814
SEAT O-RING	LK-815	LK-815
BALL	LK-816	LK-816
STEM	LK-817	LK-827
STEM O-RING	LK-818	LK-828
LOWER SUB	LK-810	LK-820
COMPLETE VALVE REPAIR KIT	LK-830	LK-830-H
	<u>4½"-10M (OLD STYLE)</u> <u>(6¾"OD x 2¾" ID)</u>	<u>4½"-10M (OLD STYLE)</u> <u>(6¾" OD x 3" ID)</u>
COMPLETE VALVE	LK-637	LK-675
WRENCH - HEX	LK-841	LK-841
UPPER SUB	LK-832	LK-842
SPRING	LK-833	LK-843
SEAT w/SEAL	LK-834	LK-844
SEAT O-RING	LK-621	LK-845
BALL	LK-836	LK-846
STEM	LK-837	LK-847
STEM O-RING	LK-818	LK-848
LOWER SUB	LK-880	LK-840
COMPLETE VALVE REPAIR KIT	LK-890	LK-850
	<u>4½"-10M (NEW STYLE)</u> <u>(6¾" OD x 3" ID)</u>	<u>4½"-15M</u> <u>(7½" OD x 3" ID)</u>
COMPLETE VALVE	ML-675	ML-750
WRENCH - HEX	LK-841	LK-841
UPPER SUB	LK-842	LK-862
SPRING	LK-843	LK-843
SEAT w/SEAL	LK-844	LK-844
SEAT O-RING	LK-845	LK-845
BALL	LK-846	LK-846
STEM	ML-847	LK-867
STEM O-RING	ML-848	ML-868
LOWER SUB	LK-840	LK-860
COMPLETE VALVE REPAIR KIT	ML-850	ML-850-H

REPLACEMENT PARTS FOR : OMSCO UPPER KELLY VALVE PARTS / FLAPPER TYPE

DESCRIPTION	PART #	PART #
	<u>6⁵/₈"-10M</u>	<u>6⁵/₈"-15M</u>
RAM SHAFT	604-SA	604-SA
JUNK RING - FEMALE	610-S	610-S
RAM SHAFT PACKING	210	210
JUNK RING - MALE	612-S	612-S
RAM KEY	614-S	614-S
RAM RUBBER	616-S	616-SP
RETAINER PLATE	617-S	617-S
RETAINER PLATE SCREW	618-S	618-S
SHAFT SPACER	626-S	626-S
FRICITION RING	627-S	627-S
BLIND NUT	633-SA	633-SA
SHAFT CAP SCREW	634-S	634-S
BLIND NUT KEY	635-S	635-S
RAM (BODY/FLAPPER)	613-S	613-S
LOWER SUB	632-SA-6-5/8	632-SA-6-5/8
SHAFT WASHER	4SP-6	4SP-6
COMPLETE VALVE KIT	636-S	636-SP
COMPLETE VALVE	KV-800	KV-900

REPLACEMENT PARTS FOR : OMSCO UPPER KELLY VALVE PARTS / FLAPPER – JUNIOR

3" RAM BODY	J-613
3" RAM RUBBER	J-616
3" PLATE	J-617
3" RETAINER PLATE	J-618

REPLACEMENT PARTS FOR : GRAY INSIDE BLOWOUT PREVENTER VALVE PARTS

DESCRIPTION	PART #	PART #
	<u>2³/₈" EUE</u>	<u>2³/₈" HYD. IF</u>
	<u>(3-1/16" OD)</u>	<u>(3³/₈" OD)</u>
COMPLETE VALVE	62000	62001
DART (VALVE HEAD)	62400	62400
O-RING (VALVE INSERT)	72504	72504
SEAT	62404	62404
SPRING	75501	75501
RELEASING ROD	62432	62432
LOCK SCREW	62433	62433
REPAIR KIT	124200	124200
	<u>2⁷/₈" EUE</u>	<u>2⁷/₈" HYD. IF</u>
	<u>(3-47/64" OD)</u>	<u>(3⁷/₈" OD)</u>
COMPLETE VALVE	62010	62011
DART (VALVE HEAD)	62401	62401
O-RING (VALVE INSERT)	72503	72503
SEAT	62405	62405
SPRING	75502	75502
RELEASING ROD	62432	62432
LOCK SCREW	62433	62433
REPAIR KIT	124199	124199
	<u>2⁷/₈" IF</u>	<u>2⁷/₈" H90</u>
	<u>(4¹/₈" OD)</u>	<u>(3⁷/₈" OD)</u>
COMPLETE VALVE	62012	62014
DART (VALVE HEAD)	62401	62401
O-RING (VALVE INSERT)	72503	72503
SEAT	62405	62405
SPRING	75502	75502
RELEASING ROD	62432	62432
LOCK SCREW	62433	62433
REPAIR KIT	124199	124199

REPLACEMENT PARTS FOR : GRAY INSIDE BLOWOUT PREVENTER VALVE PARTS

DESCRIPTION	PART #	PART #
	<u>3½" IF</u> <u>(4¾" OD)</u>	<u>3½" XH</u> <u>(4¾" OD)</u>
COMPLETE VALVE	62020	62022
DART (VALVE HEAD)	62402	62402
O-RING (VALVE INSERT)	72223	72223
SEAT	62406	62406
SPRING	75503	75503
RELEASING ROD	62432	62432
LOCK SCREW	62433	62433
REPAIR KIT	124198	124198
	<u>3½" EUE</u> <u>(4½" OD)</u>	
COMPLETE VALVE	62013	
DART (VALVE HEAD)	62402	
O-RING (VALVE INSERT)	72223	
SEAT	62406	
SPRING	75503	
RELEASING ROD	62432	
LOCK SCREW	62433	
REPAIR KIT	124198	
	<u>4½" IF</u> <u>(6⅞" OD)</u>	<u>4½" IF, FH</u> <u>(5¾" OD)</u>
COMPLETE VALVE	62030	62031
DART (VALVE HEAD)	62403	62403
O-RING (VALVE INSERT)	72051	72051
SEAT	62407	62407
SPRING	75504	75504
RELEASING ROD	62179	62179
LOCK SCREW	62433	62433
REPAIR KIT	124173	124173

REPLACEMENT PARTS FOR : GRAY INSIDE BLOWOUT PREVENTER VALVE PARTS

DESCRIPTION	PART #	PART #
	<u>4½" XH</u>	<u>4½" Hughes Acme</u>
	<u>(6" OD)</u>	<u>Streamline</u>
		<u>(5¾" OD)</u>
COMPLETE VALVE	62032	62033
DART (VALVE HEAD)	62403	62403
O-RING (VALVE INSERT)	72051	72051
SEAT	62407	62407
SPRING	75504	75504
RELEASING ROD	62179	62179
LOCK SCREW	62433	62433
REPAIR KIT	124173	124173
	<u>4½" IF</u>	
	<u>5" XH</u>	<u>4½" IF</u>
	<u>(6¼" OD)</u>	<u>(6⅜" OD)</u>
COMPLETE VALVE	62035	62037
DART (VALVE HEAD)	62403	62403
O-RING (VALVE INSERT)	72051	72051
SEAT	62407	62407
SPRING	75504	75504
RELEASING ROD	62179	62179
LOCK SCREW	62433	62433
REPAIR KIT	124173	124173
	<u>4½" H90</u>	
	<u>(6" OD)</u>	
COMPLETE VALVE	62039	
DART (VALVE HEAD)	62403	
O-RING (VALVE INSERT)	72051	
SEAT	62407	
SPRING	75504	
RELEASING ROD	62179	
LOCK SCREW	62433	
REPAIR KIT	124173	

REPLACEMENT PARTS FOR : ARMCO BALL VALVE PARTS

PART#	DESCRIPTION
L507020	2"-6M ARMCO BALL VALVE SEAT SEAL
L507098	2-1/16" ARMCO BALL VALVE SEAT SEAL
L507092	2-9/16" ARMCO BALL VALVE SEAT SEAL
L507097	3-1/8" ARMCO BALL VALVE SEAT SEAL

REPLACEMENT PARTS FOR : GUIBERSON BLOWOUT PREVENTER PARTS

18367	6" RAM BLOCK A & B
G9002	6" RAM RUBBERS A & B
G9003	6" OFFSET RAM RUBBERS
G9004	6" DUAL RAM RUBBERS
20859	6" HOLDER A & B
17601	9"-2M DOOR SEAL
17601	SEAL RING BONNET

REPLACEMENT PARTS FOR : BOWEN BLOWOUT PREVENTER / POWER SWIVEL PARTS

72327	2.5 SWIVEL PACKING
72355	3.5 SWIVEL PACKING
B9100	4-1/16" RAM RUBBERS (SAFETY)
B9101	4-1/16" PRE-CUT RAM RUBBERS
B9102	4-1/16" REAR SEAL
B9103	4-1/16" BONNET SEAL
B9104	4-1/16" DUAL DUROMETER STRIPPER INSERT

REPLACEMENT PARTS FOR : SHAFCO BLOWOUT PREVENTER MISCELLANEOUS PARTS

PART #	TYPE	DESCRIPTION
11"-3M/5M		
100284	SHAFCO	DOOR SEAL
13"-3M		
100259	SHAFCO	DOOR SEAL

REPLACEMENT PARTS FOR : TOWNSEND BLOWOUT PREVENTER / RAMS SEAL KITS

PART #	TYPE	DESCRIPTION
7"-3M		
T21000	T-81	HYDRAULIC DOUBLE
7-3M-SHORTY	T-81	
7"-5M		
T21000	T-82	HYDRAULIC DOUBLE
7-5M T-81	T-81	HYDRAULIC DOUBLE
9"-3M		
T21009	T-81	HYDRAULIC DOUBLE
11"-3M		
		MANUAL 6½" PISTON DOUBLE 3" RAM SHAFT
		MANUAL 6½" PISTON DOUBLE SEALS ONLY

REPLACEMENT PARTS FOR : TOWNSEND BLOWOUT PREVENTER /ANNULAR

PART #	TYPE	DESCRIPTION
7"-3M		
7"-5M		

REPLACEMENT PARTS FOR : **TOWNSEND BLOWOUT PREVENTER /PACKERS AND TOP SEALS**

PART #	TYPE	DESCRIPTION
7"-3M		
T21812		PACKER FACE SEAL
T21822		TOP SEAL
7"-5M		
9"-3M		
T93823		PACKER FACE SEAL
T93822		TOP SEAL
11"-3M		

REPLACEMENT PARTS FOR : **T-B SHAFFER VALVE KIT**

3"-5M		
719450	SHAFFER	EMERGENCY KIT
719451	SHAFFER	SEAL KIT
3"-10M		
719375	SHAFFER	EMERGENCY KIT
719376	SHAFFER	SEAL KIT

REPLACEMENT PARTS FOR : **T-DB SHAFFER VALVE**

2"-10M		
9100	SHAFFER	SEALS ONLY KIT
2"-15M		
9101	SHAFFER	SEALS ONLY KIT
3"-10M		
9102	SHAFFER	SEALS ONLY KIT
3"-15M		
9103	SHAFFER	SEALS ONLY KIT
4"-10M		
9104	SHAFFER	SEALS ONLY KIT
4"-15M		
9103	SHAFFER	SEALS ONLY KIT

REPLACEMENT PARTS FOR : WSI MISCELLANEOUS PARTS

PART #	TYPE	DESCRIPTION	MISCELLANEOUS
7"-3M 0254	WSI	DUKE PISTON SEAL	
11"-5M 6024	WSI	DIAMOND BONNET SEAL	

REPLACEMENT PARTS FOR : WSI TOP SEAL

7"-5M 3569-TS	WSI	DUKE TOP SEAL	
7"-5M/10M 5080	WSI	NUGGET TOP SEAL	
9"-3M/5M 3814	WSI	TOP SEAL	
11"-5M 6216	WSI	DIAMOND OUTER SEAL	

REPLACEMENT PARTS FOR : WSI FACE SEAL

7"-5M 3569	WSI	DUKE PACKER	
7"-5M/10M 5040	WSI	NUGGET FACE SEAL	
9"-3M/5M 3829	WSI	FACE SEAL	
11"-5M 6220	WSI	DIAMOND FACE SEAL	

REPLACEMENT PARTS FOR : WSI RAM BLOCK/RAM ASSEMBLY

7"-5M/10M 5020	WSI	NUGGET RAM BLOCK	
11"-5M 6300	WSI	DIAMOND RAM BLOCK	
6400	WSI	DIAMOND RAM ASSEMBLY	

REPLACEMENT PARTS FOR : WSI SEAL KIT

7"-3M 3400	WSI	DUKE SEAL KIT	
7"-5M/10M/15M 3500	WSI	NUGGET	
9"-5M 9500	WSI		
11"-5M 6100	WSI	DIAMOND	

- NOTES -

TERMS AND CONDITIONS

The following are the sole terms and conditions set forth by WESTCOAST B.O.P. PRODUCTS, INC.TM (WCBOPTM), which apply to any sale of its products.

WARRANTY AND LIMITATION OF LIABILITY:

- a) WCBOPTM warrants the products it sells to be free from defects in workmanship and materials for a period of one year from the date of shipment. The WCBOPTM obligation under this warranty is limited to repairing or replacing, at its option, any product found by WCBOPTM to be defective. WCBOPTM assumes no obligation for replacement charges for lost time incurred or attributed to its products.
- b) The liability of WCBOPTM for any loss or damage, in any way, resulting to the buyer, the user, or to any other person, from any failure of a product, shall not in any event exceed the amount which WCBOPTM received from the buyer for that product. Defective items must be held for inspection by WCBOPTM, and upon request, returned to the original F.O.B. point at the buyer's expense.
- c) In no event shall WCBOPTM be liable for incidental, consequential, special, or other damages of any nature.
- d) Products not manufactured by WCBOPTM are warranted only to the extent of the manufacturer's warranty extended to WCBOPTM.

PAYMENT TERMS:

Terms are cash or net 30 days from the date of invoice and payable in United States currency. Accounts exceeding 60 days from the date of invoice will be placed on C.O.D. effective immediately. In the event an account is placed into collections, or is referred to court; any and all costs incurred will become the responsibility of the account holder.

TAXES:

Any sales, use, or other similar type of applicable taxes, shall be the obligation of the buyer.

PRICES:

Prices are subject to change without notice. WCBOPTM reserves the right to issue a revised quotation should the original quotation have any deviations or additions made to it.

TRANSPORTATION:

Shipments are F.O.B. from a designated shipping point. Shipping charges are the obligation of the buyer, unless otherwise noted. Deliveries are based upon material availability and manufacturing capacity at the time of the quotation.

RETURNS:

- a) WCBOPTM must be notified of the intent to return products within one year from the date of the invoice which covers that item. No products will be accepted for return, repair, or replacement without the prior authorization of WCBOPTM.
- b) All products returned must be in a saleable condition. An appropriate charge will be made for any reconditioning which is determined necessary. Orders for non-standard or special production products are not returnable.
- c) Upon receipt of the returned products, WCBOPTM will issue a credit memorandum which is based on the purchase price or the current price, whichever is lower, less any reconditioning charges and less transportation charges (both ways).
- d) A 15% restocking charge, over and above any reconditioning or transportation charges, will apply to all items returned for credit.

CANCELLATIONS:

Orders for standard WCBOPTM products are subject to a 20% cancellation charge. Orders for non-standard or special production products are not subject to cancellation.

These Terms and Conditions are in lieu of all others expressed or implied by WCBOPTM.

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WESTCOAST B.O.P. PRODUCTS, INC.

SPECIALIZING IN BLOWOUT PREVENTER REPLACEMENT PARTS

WESTCOAST B.O.P. PRODUCTS, INC.[™] is a specialized company that manufactures and supplies blowout preventer replacement parts. WCBOP[™] has been in the oil industry since 1983, and is located in Chandler, Arizona, southeast of Phoenix. This exceptional location offers various modes of transportation in giving WCBOP[™] the added advantage by meeting all of its customers' delivery requirements.

The WCBOP[™] management team has many years of hands-on experience in the oilfield and is extremely knowledgeable about the industry in general. Everyone at WCBOP[™] is devoted to meet the constant changes and challenges in today's oil industry, and is highly motivated to acquire the customers' needs. Together, with the company's high standards, quality customer service, and prompt shipping commitments, its dedicated staff will efficiently meet the demands of the oilfield customer.

WESTCOAST B.O.P. PRODUCTS, INC.[™] maintains an extensive, on-site inventory of replacement parts to fit all major blowout preventers. This permits the customer to receive competitive prices and a rapid turnaround time on orders. All manufactured parts meet the industry's required specifications, and are completely inter-changeable with the original equipment manufacturers' (O.E.M.) blowout preventers. The company's own high standards in the manufacturing of these parts assures its customer of receiving dependable and quality products that are guaranteed to endure the oilfield's toughest conditions. With the company's focus directed on wholesale distribution, this has allowed its products to be widely used and accepted by major oil companies – both domestically and internationally.
