INTRODUCTION

LINERS

When it comes to mud pump fluid end expendable parts, TSC Manufacturing and Supply, LLC. has it all.

TSC mud pump liners are designed and manufactured to meet or exceed original equipment specification and API standards for almost all types of mud pumps in use today. With advanced technology, metallurgical control and rigid inspection, we offer unmatched performance and durability according to customer testimonies in the most severe drilling conditions, both triplex and duplex liners are available in a wide range of sizes.

HIGH CHROME SLEEVE LINER

The outer hull, or body, of the liner is manufactured using high-strength forging. TSC uses forgings exclusively to ensure consistent quality. The sleeve is centrifugally cast in the TSC facilities by skilled craftsmen. It has the maximum amount of chrome for the base metal and TSC adds molybdenum to increase the hardness depth. The sleeve is then inserted into the hull at a tightness at exceeds its counterparts. The TSC liner is rated to match the pressure rating of the pump per liner size.

TSC mud pump liners are unsurpassed in quality and reliability.

Features

- Rated for all drilling operations.
- Bore hardness is 62-69 Rockwell.
- "HP" lip design to prevent inner sleeve slippage.
- Extremely long service life.

CHROME-PLATED LINER

TSC chrome-plates the same outer hull in lieu of the sleeve to maximum thickness. The hulls are then machined and polished to a mirror finish.



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FLUID END EXPENDABLES

OILWELL

A-350-PT

7 x 8

4" TS-0287-40HP G-753* LLU-40-K15 HPW-40-K15 H-40-K15 TM-40-K8 4 1/2" TS-0287-44HP G-754* LLU-40-K15 HPW-40-K15 H-40-K15 TM-40-K8 5" TS-0287-50HP G-754* LLU-50-B15 HPW-50-B15 H-50-B15 TM-40-K8 5"// TS-0287-50HP G-742* LLU-50-B15 LL-50-B15 HPW-50-B15 I-50-B15 TM-40-K8 5 1/2"// TS-0287-50HP G-742* LLU-50-B15 LL-50-B15 HPW-56-B15 I-50-B15 TM-50-B8 6" TS-0287-50HP G-744* LLU-50-B15 LL-60-B15 HPW-56-B15 I-50-B15 TM-50-B8 6 1/4" TS-0287-60HP G-746* LLU-62-L15 LL-60-B15 HPW-64-L15 I-60-L15 TM-60-B15 6 1/4" TS-0287-60HP G-766* LLU-62-L15 LL-60-L15 HPW-64-L15 I-60-L15 TM-60-B15 6 1/2" TS-0287-70HP G-766* LLU-70-L15 LL-70-L15 HPW-70-L15 I-70-L15 TM-70-LR 7" TS-628		LINE	ERS	LINER GASKETS	PISTONS				PISTON RUBBERS	
4 1/2" TS-0287-44HP G-754* LU-44-B15 LL-44-B15 HPW-44-B15 I-44-B15 TM-44-BR 5" TS-0287-50HP G-742* LU-50-B15 LL-50-B15 HPW-50-B15 I-50-B15 TM-50-BR 5 1/2" TS-0287-50HP G-743* LU-54-B15 LL-56-B15 HPW-50-B15 I-56-B15 TM-56-BR 6" TS-0287-50HP G-744* LU-56-B15 LL-60-B15 HPW-56-B15 I-56-B15 TM-60-BR 6" TS-0287-60HP G-745* LU-60-B15 LL-62-L15 HPW-60-B15 I-60-B15 TM-60-BR 6 1/4" TS-0287-62HP G-770* LU-62-L15 LL-62-L15 HPW-62-L15 I-60-B15 TM-60-BR 6 1/2" TS-0287-63HP G-766* LU-02-L15 LL-70-L15 HPW-62-L15 I-60-L15 TM-64-LR 7" TS-0287-70HP G-756* LU-70-L15 LL-70-L15 HPW-70-L15 I-70-L15 TM-70-LR VALVES SEATS SWEB FUL OPEN FUL OPEN C/10-115 VALVE COVER GASKET G-732* SEAT TS-6-ADD86 - TS-10701M TS-6-S6	SIZE						-		PART NUMBER	
5" TS-0287-50HP G-742 * LLU-50-B15 LL-50-B15 HPW-50-B15 I-50-B15 TM-50-BR 5 1/2" TS-0287-54HP G-743 * LLU-54-B15 LL-54-B15 HPW-54-B15 I-54-B15 TM-50-BR 5 3/4" TS-0287-56HP G-744 * LLU-56-B15 LL-56-B15 HPW-66-B15 I-56-B15 TM-56-BR 6" TS-0287-60HP G-745 * LLU-60-B15 LL-60-B15 HPW-60-B15 I-60-B15 TM-60-BR 6 1/4" TS-0287-60HP G-770 * LLU-62-L15 LL-60-L15 HPW-60-B15 I-60-B15 TM-60-BR 6 1/2" TS-0287-60HP G-770 * LLU-62-L15 LL-60-L15 HPW-60-B15 I-60-B15 TM-60-BR 6 1/2" TS-0287-70HP G-766 * LLU-70-L15 LL-70-L15 HPW-70-L15 I-70-L15 TM-70-LR 7" TS-0287-70HP G-756 * LLU-70-L15 HPW-70-L15 I-70-L15 TM-70-LR 9 AttVES SEAT TS-6710 TS-6710 TS-6710 TS-6710 TS-6710-115 VALV	4"	TS-0287-40HP		G-753 *	LLU-40-K15	LL-40-K15	HPW-40-K15	I-40-K15	TM-40-KR	
5 1/2" TS-0287-54HP G.743* LLU-54-B15 LL-54-B15 HPW-54-B15 I-54-B15 TM-54-BR5 5 3/4" TS-0287-56HP G.744* LLU-56-B15 LL-56-B15 HPW-56-B15 I-56-B15 I-56-B15 I-16-B15	4 1/2"	TS-0287-44HP		G-754 *	LLU-44-B15	LL-44-B15	HPW-44-B15	I-44-B15	TM-44-BR	
5 3/4" TS-0287-56HP G-744* LLU-56-B15 LL-56-B15 HPW-56-B15 I-56-B15 I-56-S6 I-10-L15 I-56-L15 I-56-L15 I-56-S7 I-70-L15	5"	TS-0287-50HP		G-742 *	LLU-50-B15	LL-50-B15	HPW-50-B15	I-50-B15	TM-50-BR	
6" TS-0287-60HP G-745* LLU-60-B15 LL-60-B15 HPW-60-B15 I-60-B15 I-60-B15 TM-60-BR5 6 1/4" TS-0287-62HP G-770* LLU-62-L15 LL-62-L15 HPW-62-L15 I-62-L15 TM-62-LR5 6 1/2" TS-0287-63HP G-746* LLU-64-L15 LL-64-L15 HPW-64-L15 I-62-L15 TM-62-LR5 7" TS-0287-70HP G-756* LLU-70-L15 LL-70-L15 HPW-70-L15 I-70-L15 TM-70-LR5 VALVES. SEATS. SPRING SWEB SWEB FULL OPEN (1) FULL OPEN (2) PART NUMB VALVE TS-6-EH - TS-6395M TS-6-V1 VALVE COVER GASKET G-732* SPRING TS-71-115 - TS-0701M TS-6710-115 WEAR PLATE GASKET G-734* INSERT (Urethane) TS-6-WR - TS-6-MI TS-6-MI TS-6-MI TS-6-MI G-746* INSERT (Rubber) PISTON NUT THREADED TYPE FISTON ROD & SUB ROD SUB ROD THREADED TYPE EXTENSION ROD CLAMP TYPE FISTON ROD SUB ROD THREADED TYPE EXTENSION ROD CLAMP TYPE FISTON ROD SUB ROD THREADE	5 1/2"	TS-0287-54HP		G-743 *	LLU-54-B15	LL-54-B15	HPW-54-B15	I-54-B15	TM-54-BR	
6 1/4" TS-0287-62HP G-770* LLU-62-L15 LL-62-L15 HPW-62-L15 H-62-L15 TM-62-L15 6 1/2" TS-0287-64HP G-746* LLU-62-L15 LL-62-L15 HPW-64-L15 H-62-L15 H-62-L15 TM-62-L15 H-62-L15 TM-62-L15 H-62-L15 TM-62-L15 H-62-L15 TM-62-L15 H-62-L15 H-62-L15 <td>5 3/4"</td> <td colspan="2">TS-0287-56HP</td> <td>G-744 *</td> <td>LLU-56-B15</td> <td>LL-56-B15</td> <td>HPW-56-B15</td> <td>I-56-B15</td> <td>TM-56-BR</td>	5 3/4"	TS-0287-56HP		G-744 *	LLU-56-B15	LL-56-B15	HPW-56-B15	I-56-B15	TM-56-BR	
6 1/2"TS $\circ 0287 \cdot 04P$ G $\cdot 746 \cdot$ LLU $\cdot 64 \cdot 15$ I PW $\cdot 64 \cdot 15$ I F64 \cdot 15TM $\cdot 64 \cdot 15$ 7"TS $\circ 0287 \cdot 04P$ G $\cdot 756 \cdot$ LLU $\cdot 01 \cdot 15$ I $\cdot 70 \cdot 15$ TM $\cdot 64 \cdot 15$ TM $\cdot 64 \cdot 15$ VALVES, SEATS, SPRUSG $\cdot 750 \cdot 15$ G $\cdot 750 \cdot 150$ G $\cdot 750 \cdot 150$ PAR NUMBVALVESERTSWEB $\int ULO PENFULO PENVALVE COVER SEXETSPAR NUMBVALVETS \cdot 5710 \cdot 15TS \cdot 5710 \cdot 15VALVE COVER SEXETG \cdot 750 \cdot 750 \cdot 150G \cdot 750 \cdot 750 \cdot 750 \cdot 150G \cdot 750 \cdot 750$	6"	TS-0287-60HP		G-745 *	LLU-60-B15	LL-60-B15	HPW-60-B15	I-60-B15	TM-60-BR	
7"TS-0287-70HPG-756*LLU-70-L15HPW-70-L15I-70-L15TM-70-L15TM-70-L16VALVESSEATS, SPRIVESGASKETSVALVE $4 WEB$ DESIGN $3 WEB$ DESIGNFULLOPPEN (1)FULLOPPEN (2)VALVE COVERASKETPART NUMBVALVE $1 S-6 MDB6$ $3 WEB$ DESIGNFULLOPPEN (1)TS-6-V1VALVE COVERASKETG-73 PSEAT $TS-6 - ADDB6$ $1 S. 0.095M$ TS-6-S0CYLINDER H-D GASKETG-73 PSPRING $TS-6 - MD6$ $1 S. 0.001M$ TS-6-S0CYLINDER H-D GASKETG-75 PINSERT (Mubber) $TS-6 - MI$ $1 S. 0.001M$ TS-6-FREXTENSION ROD SEALG-75 PINSERT (Rubber) $TS-6 - MI$ $1 S. 0.001M$ TS-6-FREXTENSION ROD SEALG-75 PROD CLAMP RODPISTON 	6 1/4"	TS-0287-62HP		G-770 *	LLU-62-L15	LL-62-L15	HPW-62-L15	I-62-L15	TM-62-LR	
VALVES, SEATS, SPRINGS GASKETS VALVE 3 WEB DESIGN JWEB DESIGN FULL OPEN (1) FULL OPEN (2) PART NUMB VALVE TS-6-EH - TS-0995M TS-6-V1 VALVE COVER GASKET G-732 * SEAT TS-6-ADDB6 - TS-1380M TS-6-S6 CYLINDER HEAD GASKET G-732 * SPRING TS-5710-115 - TS-0701M TS-6-S6 CYLINDER HEAD GASKET G-754 * INSERT (Urethane) TS-6-WI - TS-6-MI TS-6-FI EXTENSION ROD SEAL - INSERT (Rubber) TS-6-WR - - TS-6-FI EXTENSION ROD SEAL - INSERT (Rubber) TS-6-WR - - TS-6-FI EXTENSION ROD BAFFLE - ROD CLAMP PISTON STUD PISTON ROD THREADED ROD SUB ROD THREADED TYPE EXTENSION ROD SUB ROD THREADED TYPE EXTENSION ROD TMA35-01-0 TMA17-03-08 TM-283-0 TM-NUT - TM-283-A - TMA35-01-0	6 1/2"	TS-0287-64HP		G-746 *	LLU-64-L15	LL-64-L15	HPW-64-L15	I-64-L15	TM-64-LR	
VALVE 4 WEB DESIGN 3 WEB DESIGN FULL OPEN (1) FULL OPEN (2) FULL OPEN (2) PART NUMB VALVE TS-6-H TS-0995M TS-6-V1 VALVE COVER GASKET G-732* SEAT TS-6-H TS-0995M TS-6-V1 VALVE COVER GASKET G-732* SEAT TS-6-H TS-6-S6 CYLINDER HEAD GASKET G-754* SPRING TS-57-1155 TS-6-MI TS-6710-115 WEAR PLATE GASKET G-754* INSERT (Numbber) TS-6-WI TS-6-MI TS-6-FI EXTENSION ROD SEAL INSERT (Rubber) TS-6-WI TS-6-FR EXTENSION ROD BAFFLE NSERT (Rubber) TS-6-WI TS-6-FR EXTENSION ROD BAFFLE ROD CLAMP PISTON ROD THREADED NUT THREADED ROD SUB ROD THREADED TYPE EXTENSION ROD TM-83-0 TMA35-01-0 TMA17-03-08 TM-83-0 TM-283-C TM-283-A TMA35-01-0<	7"	TS-0287-70HP		G-756 *	LLU-70-L15	LL-70-L15	HPW-70-L15	I-70-L15	TM-70-LR	
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INSERT (Urethane) TS-6-WI TS-6-MI TS-6-FI EXTENSION ROD SEAL INSERT (Rubber) TS-6-WR - - TS-6-FR EXTENSION ROD BAFFLE - - ROD CLAMP PISTON ROD STUD PISTON NUT THREADED TYPE PISTON ROD CLAMP TYPE PISTON ROD ROD SUB ROD THREADED TYPE EXTENSION ROD CLAMP TYPE EXTENSION ROD TMA35-01-0 TMA17-03-08 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TMA17-03-08 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TM-803-0 TM-803-0	SEAT	TS-6-ADDB6		-	TS-1380M	TS-6-S6	CYLINDER HEAD GASKET		-	
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(Rubber) 15-6-WR - 1 15-6-FR EXTENSION ROD BAFFLE - PISTON ROD & EXTENSION ROD ROD CLAMP PISTON NUT THREADED TYPE PISTON ROD SUB ROD THREADED TYPE EXTENSION ROD CLAMP TYPE PISTON ROD TMA17-03-08 TM-283-D TM-NUT - TM-283-C TM-283-A - TMA35-01-C	-	TS-6-WI		-	TS-6-MI	TS-6-FI	EXTENSION ROD SEAL		-	
ROD CLAMP PISTON ROD STUD PISTON NUT THREADED TYPE PISTON ROD CLAMP TYPE PISTON ROD SUB ROD THREADED TYPE EXTENSION ROD CLAMP TYPE EXTENSION ROD TMA17-03-08 TM-283-D TM-NUT - TM-283-C TM-283-A - TMA35-01-C FLUID END MODULE	-	TS-6-WR		-	-	TS-6-FR	EXTENSION ROD BAFFLE		-	
ROD CLAMP ROD STUD PISTON NUT TYPE PISTON ROD CLAMP TYPE PISTON ROD SUB ROD THREADED TYPE EXTENSION ROD EXTENSIO ROD TMA17-03-08 TM-283-D TM-NUT - TM-283-C TM-283-A - TMA35-01-0 FLUID END MODULE	PISTON ROD & EXTENSION ROD									
FLUID END MODULE	ROD CLAMP	ROD		TYPE PISTON		SUB ROD			CLAMP TYPE EXTENSION ROD	
	TMA17-03-08	TM-283-D	TM-NUT	-	TM-283-C	TM-283-A		-	TMA35-01-06	
FLUID END MODULE STUDDED MODULE SEAL SET STUDS & NUTS SET	FLUID END MODULE									
	FLUID END MODULE STUDDED				MODULE SEAL SET		STUDS & NUTS SET		ET	

TSC does not warrant or represent that any of such information is accurate, or that any products listed are compatible with each other. Any deviations from the OEM products should be verified as to compatibility.

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