

## 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 that 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.

## FLUID END EXPENDABLES

TSC

WF1600L

7 x 11

	LINERS		ZIRCONIA LINERS	LINER GASKETS	PISTONS				PISTON RUBBERS
SIZE	PART NUMBER		PART NUMBER	PART NUMBER	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART NUMBER
4"	TS-0197-40HPA		TS-07496400A	G-692 *	LLU-40-K15	LL-40-K15	HPW-40-K15	I-40-K15	TM-40-KR
4 1/2"	TS-0197-44HPA		TS-07496450A	G-692 *	LLU-44-B15	LL-44-B15	HPW-44-B15	I-44-B15	TM-44-BR
5"	TS-0197-50HPA		TS-07496500A	G-692 *	LLU-50-B15	LL-50-B15	HPW-50-B15	I-50-B15	TM-50-BR
5 1/2"	TS-0197-54HPA		TS-07496550A	G-692 *	LLU-54-B15	LL-54-B15	HPW-54-B15	I-54-B15	TM-54-BR
5 3/4"	TS-0197-56HPA		TS-07496575A	G-692 *	LLU-56-B15	LL-56-B15	HPW-56-B15	I-56-B15	TM-56-BR
6"	TS-0197-60HPA		TS-07496600A	G-692 *	LLU-60-B15	LL-60-B15	HPW-60-B15	I-60-B15	TM-60-BR
6 1/4"	TS-0197-62HPA		TS-07496625A	G-692 *	LLU-62-L15	LL-62-L15	HPW-62-L15	I-62-L15	TM-62-LR
6 1/2"	TS-0197-64HPA		TS-07496650A	G-692 *	LLU-64-L15	LL-64-L15	HPW-64-L15	I-64-L15	TM-64-LR
6 3/4"	TS-0197-66HPA		TS-07496675A	G-692 *	LLU-66-L15	LL-66-L15	HPW-66-L15	I-66-L15	TM-66-LR
7"	TS-0197-70HPA		TS-07496700A	G-692 *	LLU-70-L15	LL-70-L15	HPW-70-L15	I-70-L15	TM-70-LR
VALVES, SEATS, SPRINGS							GASKETS		
	4 WEB DESIGN		3 WEB DESIGN	FULL OPEN ( 1 )	FULL OPEN ( 2 )			PART NUMBER	
VALVE	TS-7-EEF		TS-202482	TS-0985M	TS-7-V1	VALVE COVER GASKET		G-798 *	
SEAT	TS-7-DDB1		TS-202039	TS-1370M	TS-7-S1	CYLINDER HEAD GASKET		G-798 *	
SPRING	TS-5710-115		-	-	TS-5710-115L	WEAR PLATE GASKET		G-758 *	
INSERT (Urethane)	TS-7-WI		TS-201PZL106	TS-7-MI	TS-7-FI	EXTENSION ROD SEAL		-	
INSERT (Rubber)	TS-7-WR		TS-202PZL106	-	-	EXTENSION ROD BAFFLE		TS-720-8503	
PISTON ROD & EXTENSION ROD									
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	
TMP11-03-08	N/A	TM-NUT	N/A	TM-200	N/A	N/A		TE02030503-03-05-DAD	
FLUID END MODULE									
FLUID END MODULE STUDDED				MODULE SEAL SET		STUDS & NUTS SET			
TS-202PZL029B				TMPZ11-SEALKIT		TMPZ11-STUDSET			

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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