

## 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

NATIONAL

8-P-80

6-1/2 x 8-1/2

	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-0256-40HP	TS-07464400	G-272 *	LLU-40-K15	LL-40-K15	HPW-40-K15	I-40-K15	TM-40-KR
4 1/2"	TS-0256-44HP	TS-07464450	G-274 *	LLU-44-B15	LL-44-B15	HPW-44-B15	I-44-B15	TM-44-BR
5"	TS-0256-50HP	TS-07464500	G-276 *	LLU-50-B15	LL-50-B15	HPW-50-B15	I-50-B15	TM-50-BR
5 1/2"	TS-0256-54HP	TS-07464550	G-278 *	LLU-54-B15	LL-54-B15	HPW-54-B15	I-54-B15	TM-54-BR
5 3/4"	TS-0256-56HP	TS-07464575	-	LLU-56-B15	LL-56-B15	HPW-56-B15	I-56-B15	TM-56-BR
6"	TS-0256-60HP	TS-07464600	G-280 *	LLU-60-B15	LL-60-B15	HPW-60-B15	I-60-B15	TM-60-BR
6 1/4"	TS-0256-62HP	TS-07464625	G-268 *	LLU-62-L15	LL-62-L15	HPW-62-L15	I-62-L15	TM-62-LR
6 1/2"	TS-0256-64HP	TS-07464650	-	LLU-64-L15	LL-64-L15	HPW-64-L15	I-64-L15	TM-64-LR
VALVES, SEATS, SPRINGS						GASKETS		
	4 WEB DESIGN	3 WEB DESIGN	FULL OPEN ( 1 )	FULL OPEN ( 2 )			PART NUMBER	
VALVE	TS-6-EH	-	TS-0995M	TS-6-V1	VALVE COVER GASKET		G-768 *	
SEAT	TS-6-ADDB4	-	TS-1450M	TS-6-S4	CYLINDER HEAD GASKET		-	
SPRING	TS-5710-115	-	TS-0701M	TS-5710-115	WEAR PLATE GASKET		TS-1290344	
INSERT (Urethane)	TS-6-WI	-	TS-6-MI	TS-6-FI	EXTENSION ROD SEAL		TS-1291182	
INSERT (Rubber)	TS-6-WR	-	-	TS-6-FR	EXTENSION ROD BAFFLE		TS-1291194	
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	
TM08P-03-08	N/A	TM-NUT	N/A	TM-259-A	TM-259-B	N/A	TM08P-01-06	
FLUID END MODULE								
SUCTION MODULE STUDDER		DISCHARGE MODULE STUDDER		MODULE SEAL SET		STUDS & NUTS SET		
TS-1290338		TS-1291280		TM08P-SEALKIT		TM08P-STUDSETD TM08P-STUDSETS		

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.