## 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**

## FC-2200

**EMSCO** 

8 x 15

			ZIRCONI	A LINER GASKETS	PISTONS				PISTON RUBBER	
SIZE	SIZE PART NUMBER		PART	PART	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART	
5"	5" TS-2200-50HP		TS-075515	0 G-882 *	LLU-50-B15	LL-50-B15	HPW-50-B15	I-50-B15	TM-50-BR	
5 1/2"	5 1/2" TS-2200-54HP		TS-075515	0 G-882 *	LLU-54-B15	LL-54-B15	HPW-54-B15	I-54-B15	TM-54-BR	
6 "	6 " TS-2200-60HP		TS-075516	0 G-882 *	LLU-60-B15	LL-60-B15	HPW-60-B15	I-60-B15	TM-60-BR	
6 1/4"	6 1/4" TS-2200-62HP		TS-075516	5 G-882 *	LLU-62-L15	LL-62-L15	HPW-62-L15	I-62-L15	TM-62-LR	
6 1/2"	5 1/2" TS-2200-64HP		TS-075516	G-882 *	LLU-64-L15	LL-64-L15	HPW-64-L15	I-64-L15	TM-64-LR	
7"	7" TS-2200-70HP		TS-0755170	0 G-882 *	LLU-70-L15	LL-70-L15	HPW-70-L15	I-70-L15	TM-70-LR	
7 1/2"	7 1/2" TS-2200-74HP		TS-075517	0 G-882 *	LLU-74-L15	LL-74-L15	HPW-74-L15	I-74-L15	TM-74-LR	
8"	8" TS-2200-80HP		TS-075518	0 G-882 *	LLU-80-L15	LL-80-L15	HPW-80-L15	I-80-L15	TM-80-LR	
VALVES, SEATS, SPRINGS								GASKETS		
			VEB SIGN	3 WEB DESIGN	FULL OPEN (1)	FULL OPEN (2)			PART NUMBER	
VALVE		TS-U5B-LP		-	TS-0965M	TS-8-V1	VALVE COVER GASKET		TS-6323-0125-00	
SEAT		TS-8-DDB2		-	TS-1360M	TS-8-S1	WEAR PLATE GASKET		TS-6323-0127-00	
SPRING		TS-5710-110		-	-	TS-5710- 115L	EXTENSION ROD SEAL		TS-7602-2160-09	
INSERT (Urethane)		TS-8-WI		-	TS-8-MI	TS-8-FI	EXTENSION ROD BAFFLE		TS-6323-0129-00	
INSERT (Rubber)		TS-	8-WR	-	-	-	-		-	
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	
TS-6323-0058-20		N/A	TM-NUT1	N/A	TS-6323-0117-20	N/A	N/A		TS-6323-0059-10	
FLUID END MODULE										
SUCTION MODULE STUDDED		-	DISCHARGE MODULE STUDDED		MODULE SEAL SET		STUDS & NUTS SET			
TS-6323-0109-00		-00	TS-6323-0108-00		TMFC22-SEALKIT		TMFC22-STUDSETS TMFC22-STUDSETD			

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.

