

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

GARDNER DENVER

TEE-5

4-1/2 × 4-7/8

	LINERS		LINER GASKETS	PISTONS			PISTON RUBBER
SIZE	PART NUMBER	PART NUMBER	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART NUMBER
3"	TS-1190-30HP	G-691 *	-	-	-	I-30-A10	TM-30-AR
3-1/2"	TS-1190-34HP	G-691 *	-	-	-	I-34-K10	TM-34-KR
4"	TS-1190-40HP	G-691 *	LLU-40-K10	LL-40-K10	HPW-40-K10	I-40-K10	TM-40-KR
4-1/2"	TS-1190-44Cr	G-691 *	LLU-44-B10	LL-44-B10	HPW-44-B10	I-44-B10	TM-44-BR
VALVES, SEATS, SPRINGS					GASKETS		
	4 WEB DESIGN	3 WEB DESIGN	FULL OPEN (1)	FULL OPEN (2)		PART NUMBER	
VALVE	-	-	-	TS-2-V3	VALVE COVER GASKET	TS-25AL20	
SEAT	-	-	-	TS-2-S9	CYLINDER HEAD GASKET	-	
SPRING	-	-	-	TS-5710-03	WEAR PLATE GASKET	-	
INSERT (Urethane)	-	-	-	TS-2-FIA	EXTENSION ROD SEAL	TS-60DD99	
CAGE	-	-	-	TS-2-C1	EXTENSION ROD BAFFLE	-	
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
TMTEE-03-08	-	TM-NUT1	-	TM-TEE5	-	-	TMTEE-01-06
FLUID END MODULE							
FLUID END MODULE STUDDED			MODULE SEAL SET		STUDS & NUTS SET		
-			-		-		

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.