

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

EMSCO		F-350				6-3/4 x 7	
LINERS		LINER GASKETS	PISTONS				PISTON RUBBER
SIZE	PART NUMBER	PART NUMBER	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART NUMBER
4"	TS-0146-40HP	G-281 *	LLU-40-K10	LL-40-K10	HPW-40-K10	I-40-K10	TM-40-KR
4 1/2"	TS-0146-44HP	G-281 *	LLU-44-B10	LL-44-B10	HPW-44-B10	I-44-B10	TM-44-BR
5"	TS-0146-50HP	G-281 *	LLU-50-B10	LL-50-B10	HPW-50-B10	I-50-B10	TM-50-BR
5 1/2"	TS-0146-54HP	G-281 *	LLU-54-B10	LL-54-B10	HPW-54-B10	I-54-B10	TM-54-BR
5 3/4"	TS-0146-56HP	G-281 *	LLU-56-B10	LL-56-B10	HPW-56-B10	I-56-B10	TM-56-BR
6"	TS-0146-60HP	G-281 *	LLU-60-B10	LL-60-B10	HPW-60-B10	I-60-B10	TM-60-BR
6 1/4"	TS-0146-62HP	G-281 *	LLU-62-L10	LL-62-L10	HPW-62-L10	I-62-L10	TM-62-LR
6 1/2"	TS-0146-64HP	G-281 *	LLU-64-L10	LL-64-L10	HPW-64-L10	I-64-L10	TM-64-LR
6 3/4"	TS-0146-66Cr	G-281 *	LLU-66-L10	LL-66-L10	HPW-66-L10	I-66-L10	TM-66-LR
VALVES, SEATS, SPRINGS					GASKETS		
	4 WEB DESIGN	3 WEB DESIGN	FULL OPEN (1)	FULL OPEN (2)		PART NUMBER	
VALVE	TS-5-M5B5	-	-	TS-5-V1	VALVE COVER GASKET	G-733 *	
SEAT	TS-5-DDB1	-	-	TS-5-S1	CYLINDER HEAD GASKET	G-281 *	
SPRING	TS-5710-111	-	-	TS-5710-111	WEAR PLATE GASKET	N/A	
INSERT (Urethane)	TS-5-WI	-	-	TS-5-FI	EXTENSION ROD SEAL	-	
INSERT (Rubber)	-	-	-	-	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
TMF05-03-08	N/A	TM-NUT1	N/A	TM-147	N/A	N/A	TMF05-01-06
FLUID END MODULE							
FLUID END MODULE STUDED				MODULE SEAL SET		STUDS & NUTS SET	
TS-6318-0151-00				TMF05-SEALKIT		TMF05-STUDSET	

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FLUID END EXPENDABLES

EMSCO

F-500

6-3/4 x 7-1/2

LINERS		LINER GASKETS	PISTONS				PISTON RUBBER
SIZE	PART NUMBER	PART NUMBER	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART NUMBER
4"	TS-0146-40HP	G-281 *	LLU-40-K10	LL-40-K10	HPW-44-K10	I-40-K10	TM-40-KR
4 1/2"	TS-0146-44HP	G-281 *	LLU-44-B10	LL-44-B10	HPW-44-B10	I-44-B10	TM-44-BR
5"	TS-0146-50HP	G-281 *	LLU-50-B10	LL-50-B10	HPW-50-B10	I-50-B10	TM-50-BR
5 1/2"	TS-0146-54HP	G-281 *	LLU-54-B10	LL-54-B10	HPW-54-B10	I-54-B10	TM-54-BR
5 3/4"	TS-0146-56HP	G-281 *	LLU-56-B10	LL-56-B10	HPW-56-B10	I-56-B10	TM-56-BR
6"	TS-0146-60HP	G-281 *	LLU-60-B10	LL-60-B10	HPW-60-B10	I-60-B10	TM-60-BR
6 1/4"	TS-0146-62HP	G-281 *	LLU-62-L10	LL-62-L10	HPW-62-L10	I-62-L10	TM-62-LR
6 1/2"	TS-0146-64HP	G-281 *	LLU-64-L10	LL-64-L10	HPW-64-L10	I-64-L10	TM-64-LR
6 3/4"	TS-0146-66Cr	G-281 *	LLU-66-L10	LL-66-L10	HPW-66-L10	I-66-L10	TM-66-LR
VALVES, SEATS, SPRINGS					GASKETS		
	4 WEB DESIGN	3 WEB DESIGN	FULL OPEN (1)	FULL OPEN (2)		PART NUMBER	
VALVE	TS-5-M5B5	-	-	TS-5-V1	VALVE COVER GASKET	G-733 *	
SEAT	TS-5-DDB1	-	-	TS-5-S1	CYLINDER HEAD GASKET	G-281 *	
SPRING	TS-5710-111	-	-	TS-5710-111	WEAR PLATE GASKET	N/A	
INSERT (Urethane)	TS-5-WI	-	-	TS-5-FI	EXTENSION ROD SEAL	-	
INSERT (Rubber)	-	-	-	-	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
TMF05-03-08	N/A	TM-NUT1	N/A	TM-146	N/A	N/A	TMF05-01-06
FLUID END MODULE							
FLUID END MODULE STUDED				MODULE SEAL SET		STUDS & NUTS SET	
TS-6318-0151-00				TMF05-SEALKIT		TMF05-STUDSET	

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TSC Manufacturing and Supply LLC, 13788 West Road, Suite 100, Houston, Texas 77041, USA
Tel: +1 832 456 3900 Fax: +1 832 456 3998 E-mail: sales@t-s-c.com

FLUID END EXPENDABLES

EMSCO

F-650

6-3/4 x 8

	LINERS		LINER GASKETS	PISTONS			PISTON RUBBER
SIZE	PART NUMBER	PART NUMBER	URETHANE BONDED	RUBBER BONDED	N'DURALL BONDED	REPLACEABLE RUBBER	PART NUMBER
4"	TS-0146-40HP	G-281 *	LLU-40-K15	LL-40-K15	HPW-40-K15	I-40-K15	TM-40-KR
4 1/2"	TS-0146-44HP	G-281 *	LLU-44-B15	LL-44-B15	HPW-44-B15	I-44-B15	TM-44-BR
5"	TS-0146-50HP	G-281 *	LLU-50-B15	LL-50-B15	HPW-50-B15	I-50-B15	TM-50-BR
5 1/2"	TS-0146-54HP	G-281 *	LLU-54-B15	LL-54-B15	HPW-54-B15	I-54-B15	TM-54-BR
5 3/4"	TS-0146-56HP	G-281 *	LLU-56-B15	LL-56-B15	HPW-56-B15	I-56-B15	TM-56-BR
6"	TS-0146-60HP	G-281 *	LLU-60-B15	LL-60-B15	HPW-60-B15	I-60-B15	TM-60-BR
6 1/4"	TS-0146-62HP	G-281 *	LLU-62-L15	LL-62-L15	HPW-62-L15	I-62-L15	TM-62-LR
6 1/2"	TS-0146-64HP	G-281 *	LLU-64-L15	LL-64-L15	HPW-64-L15	I-64-L15	TM-64-LR
6 3/4"	TS-0146-66Cr	G-281 *	LLU-66-L15	LL-66-L15	HPW-66-L15	I-66-L15	TM-66-LR
VALVES, SEATS, SPRINGS					GASKETS		
	4 WEB DESIGN	3 WEB DESIGN	FULL OPEN (1)	FULL OPEN (2)		PART NUMBER	
VALVE	TS-5-M5B5	-	-	TS-5-V1	VALVE COVER GASKET	G-733 *	
SEAT	TS-5-DBB1	-	-	TS-5-S1	CYLINDER HEAD GASKET	G-281 *	
SPRING	TS-5710-111	-	-	TS-5710-111	WEAR PLATE GASKET	N/A	
INSERT (Urethane)	TS-5-WI	-	-	TS-5-FI	EXTENSION ROD SEAL	-	
INSERT (Rubber)	-	-	-	-	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
TMF65-03-08	N/A	TM-NUT	N/A	TM-151	N/A	N/A	TMF65-01-06
FLUID END MODULE							
FLUID END MODULE STUDDED				MODULE SEAL SET		STUDS & NUTS SET	
TS-6318-0151-00				TMF05-SEALKIT		TMF05-STUDSET	

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