



# SOUTHWEST OILFIELD PRODUCTS, INC. MUD PUMP EXPENDABLE PARTS LIST

## SOUTHWEST 8412A FLUID END FOR IDECO T-800

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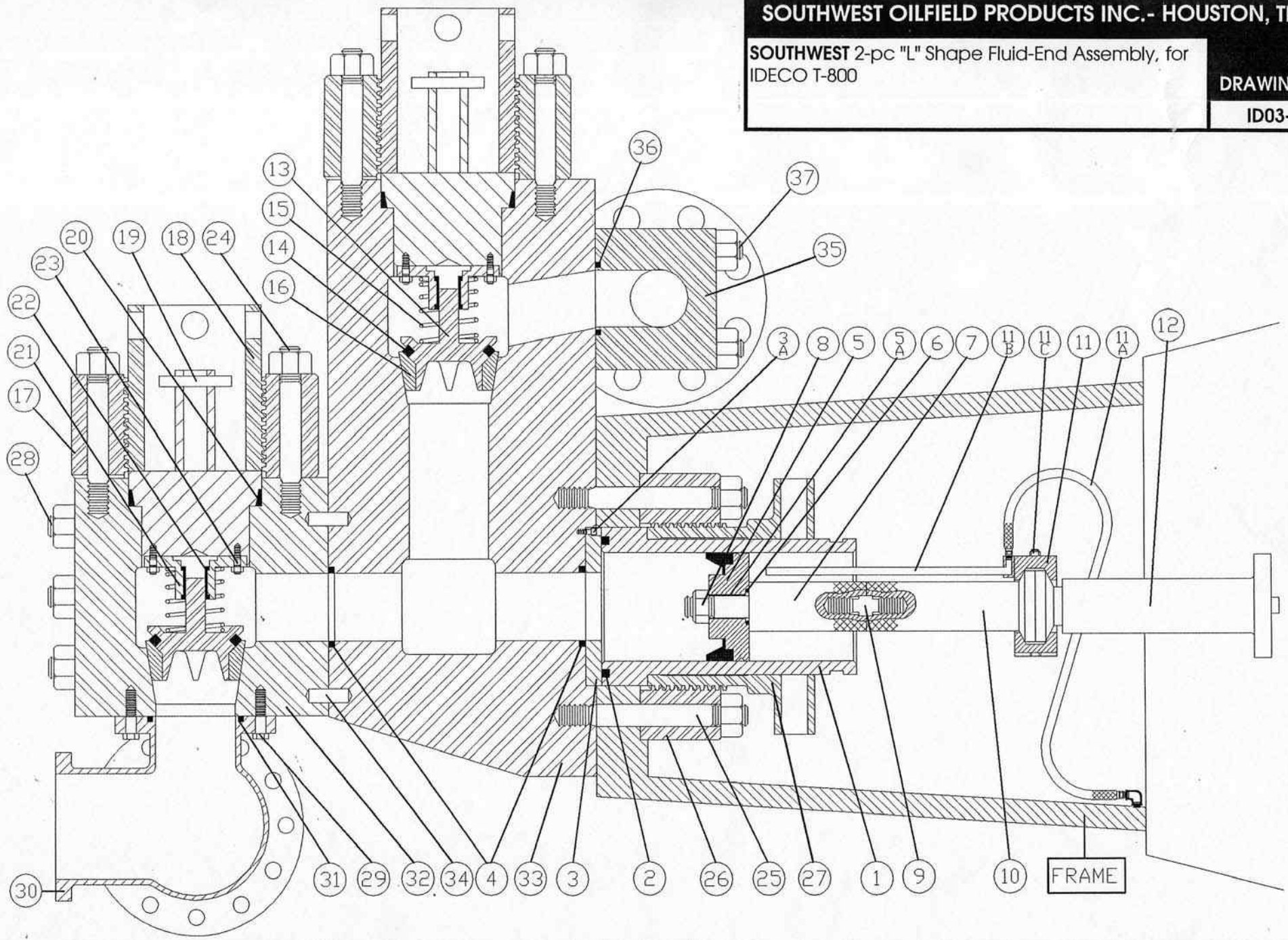
### MUD PUMP PERFORMANCE CHART

PUMP MODEL	MAX I.H.P.	MAX S.P.M.	STROKE LENGTH	LINER SIZE IN INCHES											
				4"	4 1/2"	5"	5 1/4"	5 1/2"	5 3/4"	6"	6 1/4"	6 1/2"	6 3/4"	7"	
T-800	800	150	9"	MAX-P.S.I.	5000	4425	3588	3247	2960	2707	2488	2291	2121	1964	1828
				G.P.R.	1.47	1.86	2.29	2.53	2.78	3.04	3.30	3.59	3.88	4.18	4.50
				G.P.M. @ 120 R.P.M.	176	223	275	304	334	365	396	431	466	502	540

NOTE: I.H.P.= INPUT HORSE POWER    S.P.M.= STROKE PER MINUTE    P.S.I.= POUNDS PER SQUARE INCH    G.P.R.= GALLONS PER REVOLUTION

\*MAX – P.S.I. CALCULATIONS DO NOT EXCEED MAXIMUM FLUID END PRESSURE RATINGS

BASED ON 100% VOLUMETRIC EFFICIENCY AND 90% MECHANICAL EFFICIENCY



<b>FLUID END TYPE</b>	<b>MODEL OF PUMP</b>	<b>SIZE OF PUMP</b>
<b>SOUTHWEST 5000 PSI</b>	<b>IDECO T-800</b>	<b>7" X 10"</b>

<b>ITEM NO.</b>	<b>PART NO.</b>	<b>DESCRIPTION</b>	<b>QTY. REQ'D</b>
	8412A	<b>FLUID END ASSEMBLY: (CONSISTS OF ITEMS: 3,4, 17,18,19,20,21,22,23,24,25,26,27,28,29,32,33,34,35)</b>	<b>3</b>
<b>1</b>	<b>6312YXX</b>	<b>LINER (REFER TO GUIDE TO ORDERING CHART FOR TYPE (Y) AND FOR SIZE (XX))</b>	<b>3</b>
<b>2</b>	<b>AJO512</b>	<b>LINER SEAL</b>	<b>3</b>
<b>3</b>	<b>8412-3</b>	<b>WEARPLATE</b>	<b>3</b>
<b>3A</b>	<b>4018-98</b>	<b>WEARPLATE SOCKET HEAD CAP SCREW</b>	<b>9</b>
<b>4</b>	<b>2988</b>	<b>WEARPLATE AND MODULE SEAL</b>	<b>6</b>
<b>5</b>	<b>XX-BYY</b>	<b>PISTON REFER TO GUIDE TO ORDERING CHART FOR SIZE (XX) AND FOR TYPE (YY)</b>	<b>3</b>
<b>5A</b>	<b>2932</b>	<b>PISTON BUSHING (FROM 1-5/8" TO 1-1/2" STRAIGHT BORE)</b>	<b>3</b>
<b>6</b>	<b>568-225</b>	<b>PISTON SEAL</b>	<b>3</b>
<b>7</b>	<b>6278-25</b>	<b>PISTON ROD (WITH ELASTIC STOP NUT)</b>	<b>3</b>
<b>8</b>	<b>API-4ESN</b>	<b>PISTON ROD NUT</b>	<b>3</b>
<b>9</b>	<b>1290-2</b>	<b>PISTON ROD CONNECTING STUD</b>	<b>3</b>
<b>10</b>	<b>6212-1</b>	<b>SUB ROD (CLAMP TYPE)</b>	<b>3</b>
<b>11</b>	<b>6212CW</b>	<b>ROD CLAMP (WITH WATER JACKET)(CONSIST OF 11A, 11B, 11C)</b>	<b>3</b>
<b>11A</b>	<b>1200H30</b>	<b>HOSE (1/2" X 30" WITH 1/2" MALE X 3/8" MALE CONNECTIONS)</b>	<b>3</b>
<b>11B</b>	<b>1200140</b>	<b>PIPE (3/8" X 14" GALVANIZED AND THREADED ON ONE END)</b>	<b>3</b>
<b>11C</b>	<b>4018-93</b>	<b>BOLT (5/8" X 6-1/2" GRADE 8 BOLT WITH LOCK NUT AND WASHER)</b>	<b>6</b>
<b>12</b>	<b>6200G12</b>	<b>PONY ROD</b>	<b>3</b>
<b>13</b>	<b>SEE PAGE</b>	<b>VALVE</b>	<b>6</b>
<b>14</b>	<b>SEE PAGE</b>	<b>VALVE INSERT</b>	<b>6</b>
<b>15</b>	<b>SEE PAGE</b>	<b>VALVE SPRING</b>	<b>6</b>
<b>16</b>	<b>SEE PAGE</b>	<b>SEAT</b>	<b>6</b>
	<b>SWTM1700</b>	<b>HYDRAULIC SEAT PULLER KIT COMPLETE (REFER TO TOOLS SECTION OF CATALOG FOR DETAILS.)</b>	
	<b>4475-2A</b>	<b>SOUTHWEST HP QUICK-CHANGE VALVE COVER ASSEMBLY: (CONSIST OF ITEMS NO. 17-24)</b>	<b>6</b>
<b>17</b>	<b>4475</b>	<b>THREADED FLANGE</b>	<b>6</b>
<b>18</b>	<b>4575</b>	<b>SCREW GLAND</b>	<b>6</b>
<b>19</b>	<b>4675-2A</b>	<b>PLUG (COMPLETE WITH VALVE GUIDE; SCREWS; AND BUSHING)</b>	<b>6</b>
<b>20</b>	<b>P129</b>	<b>HP VALVE COVER PLUG SEAL (ALSO AVAILABLE IN URETHANE PART# P129U)</b>	<b>6</b>
<b>21</b>	<b>4775R</b>	<b>VALVE GUIDE (complete with bushing #4700I)</b>	<b>6</b>
<b>22</b>	<b>4700I</b>	<b>VALVE GUIDE BUSHING (ALSO AVAILABLE IN URETHANE PART# 4700IU)</b>	<b>6</b>
<b>23</b>	<b>4016-99</b>	<b>VALVE GUIDE SCREW</b>	<b>12</b>
<b>24</b>	<b>4015-2</b>	<b>VALVE COVER STUD (WITH SW PART# HHN1250-7 1-1/4"-7" HEAVY HEX NUT)</b>	<b>72</b>



# SOUTHWEST 5000 PSI IDECO T-800 GUIDE TO ORDERING

		PISTONS			LINERS		LINER SEALS	
SIZE	FAIL-SAFE	DUAL-DURO®	BLACK CAT	BULL DOG	GRAYLOY®	ZIRCONIA	RUBBER	URETHANE
4"	76BFS	76BDD	76BBC	76BDB	6312G06	6312ZIR06	AJO512	AJO512U
4 1/4"	77BFS	77BDD	77BBC	77BDB	6312G07		AJO512	AJO512U
4 1/2"	78BFS	78BDD	78BBC	78BDB	6312G08	6312ZIR08	AJO512	AJO512U
4 3/4"	79BFS	79BDD	79BBC	79BDB	6312G09		AJO512	AJO512U
5"	81BFS	81BDD	81BBC	81BDB	6312G1	6312ZIR1	AJO512	AJO512U
5 1/4"	82BFS	82BDD	82BBC	82BDB	6312G2		AJO512	AJO512U
5 1/2"	83BFS	83BDD	83BBC	83BDB	6312G3	6312ZIR3	AJO512	AJO512U
5 3/4"	84BFS	84BDD	84BBC	84BDB	6312G4		AJO512	AJO512U
6"	85BFS	85BDD	85BBC	85BDB	6312G5	6312ZIR5	AJO512	AJO512U
6 1/4"	86BFS	86BDD	86BBC	86BDB	6312G6		AJO512	AJO512U
6 1/2"	87BFS	87BDD	87BBC	87BDB	6312G7	6312ZIR7	AJO512	AJO512U
6 3/4"	88BFS	88BDD	88BBC	88BDB	6312G8		AJO512	AJO512U
7"	89BFS	89BDD	89BBC	89BDB	6312G9	6312ZIR9	AJO512	AJO512U
7 1/4"	91BFS	91BDD	91BBC	91BDB	N/A		AJO512	AJO512U

\* CENTER GUIDED VALVES AND SEATS

**NOTE: DUAL-DURO® AND GRAYLOY® ARE REGISTERED TRADEMARKS OF SOUTHWEST® OILFIELD PRODUCTS.**



## VALVES & SEATS (IDECO T-800)

TYPE	VALVE	INSERT	SPRING	STAINLESS SPRING	SEAT	PULLER HEAD	PULLER HEAD STYLE
SOUTHWEST (Full Open)	773-1B	N/A	SW5710-110L	N/A	873-2	SWTM3750	SPLIT JAW
FULL OPEN-ROUGHNECK (W/Bonded Valve Insert)	SWND-6V2	N/A	SW5710-115	N/A	SWND-6S6	SWND-6PH SWTM27SXN	PANCAKE SPLIT JAW
FULL OPEN-ROUGHNECK (High Temp Bonded Insert)	SWND-6V2HC	N/A	SW5710-115	N/A	SWND-6S6	SWND-6PH SWTM27SXN	PANCAKE SPLIT JAW
FULL OPEN-ROUGHNECK (w/Replaceable Urethane Insert)	SWND-6V1	SWND-6I	SW5710-115	N/A	SWND-6S6	SWND-6PH SWTM27SXN	PANCAKE SPLIT JAW
3 WEB DOUBLE ANGLE O-RING	SWR0500118	SWR0515844	SWR0513744	SWR0514790	SWR0504818	SWTM3-6	3 J HOOK
3 WEB (High Temp)	SWR0520586	SWR0520585	SWR0513744	SWR0514790	SWR0504818	SWTM3-6	
3 WEB STANDARD PLATE	SWR0505012	SWR0504888	SWR0513937	SWR0514423	SWR0504818	SWTM3-6	
4 WEB	SWU5B-EH	SWUDD-6AB	SW5710-115	N/A	SW6ADD-B6	SWTM4-6	4 J HOOK
4 WEB (High Temp)	SWU5B-EHHT	SWUDD-6ABHT	SW5710-115	N/A	SW6ADD-B6	SWTM4-6	

PANCAKE



SPLIT JAW



3 J HOOK



4 J HOOK



**TORQUE SPECIFICATIONS FOR SOUTHWEST 8412A FLUID END ASSEMBLY  
 IDECO T-800 5000 P.S.I.**

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>TORQUE TYPE (EXPRESSED IN FOOT-POUNDS)</u>		
		<u>COPPERCOTE</u>	<u>MOLY GREASE</u>	<u>DRY (NOT RECOMMENDED)</u>
API-4 ESN	PISTON NUT	NO MORE FORCE THAN ONE MAN ON 3' WRENCH/CHEATER COMBINATION		
4018-93	BOLT	150 MAXIMUM		
4015-2	VALVE COVER STUD	669	970	1338
4017-50	POWER END & LINER RETAINER STUD	781	1133	1563
4016-97	SUCTION MODULE STUD	1397	2025	2794
4017-59	SUCTION MANIFOLD CAP SCREW	188	282	376
4017-50	DISCHARGE MANIFOLD STUD	781	1133	1563