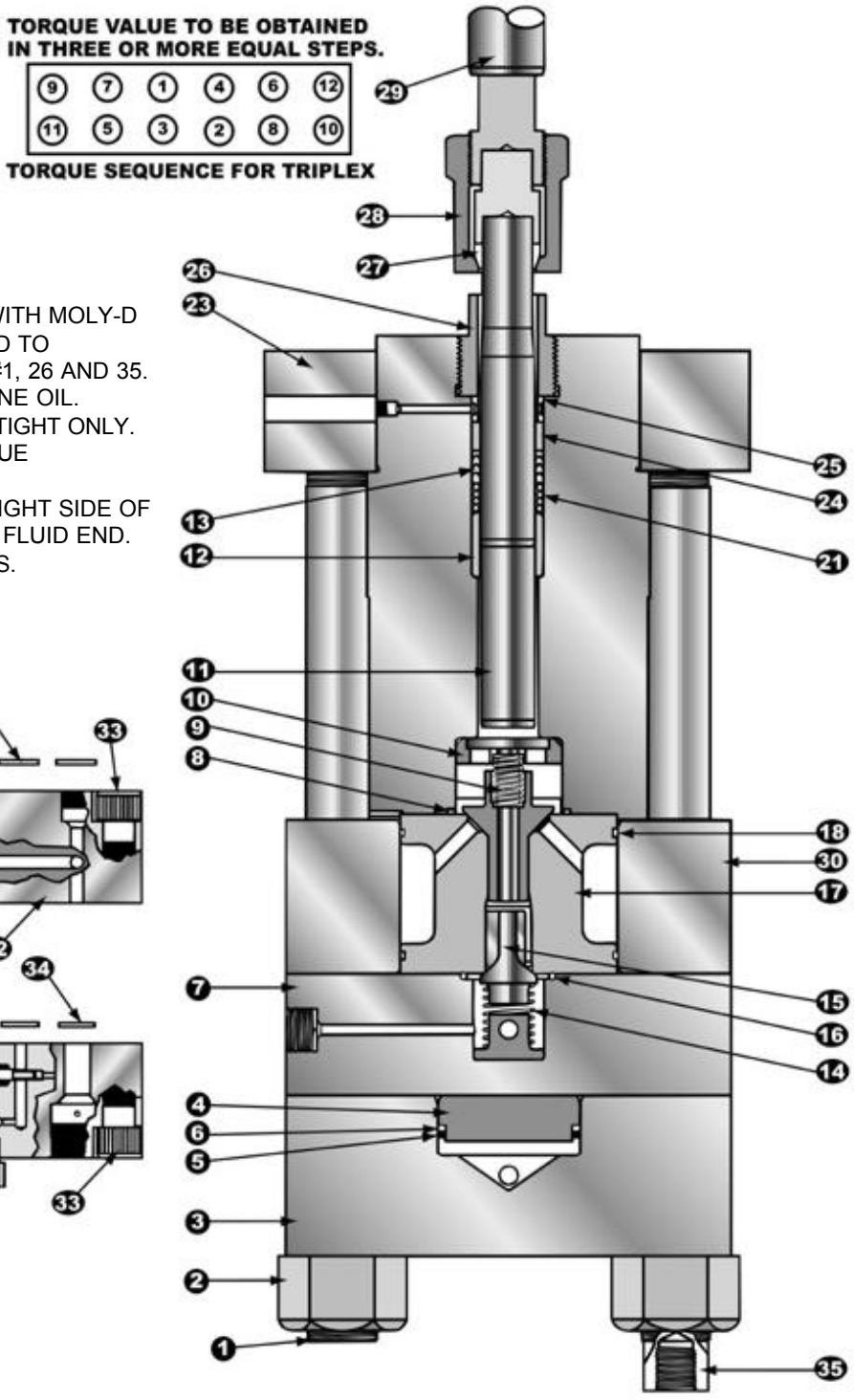
TF-450HB

70-78650 Fluid End Replacement Parts

"Sampson", 25 KPSI MAWP



SPECIAL NOTES:

1. 327-C SUPER C ARMOR PLATE WITH MOLY-D (PART #13-33044) SHALL BE USED TO LUBRICATE THREADS ON ITEM #1, 26 AND 35.
2. DIP ITEM #13 INTO LIGHT MACHINE OIL.
3. INSTALL ITEM #1 AND #35 HAND TIGHT ONLY.
4. TORQUE ITEM #2 TO EQUAL VALUE (50 - 100 FT./LBS.).
5. ITEM #31 TO BE MOUNTED ON RIGHT SIDE OF DISCHARGE MANIFOLD, FACING FLUID END.
6. TORQUE ITEM #33 TO 280 FT./LBS. LUBRICATED.

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70-78650 Fluid End Replacement Parts

"Sampson", 25 KPSI MAWP

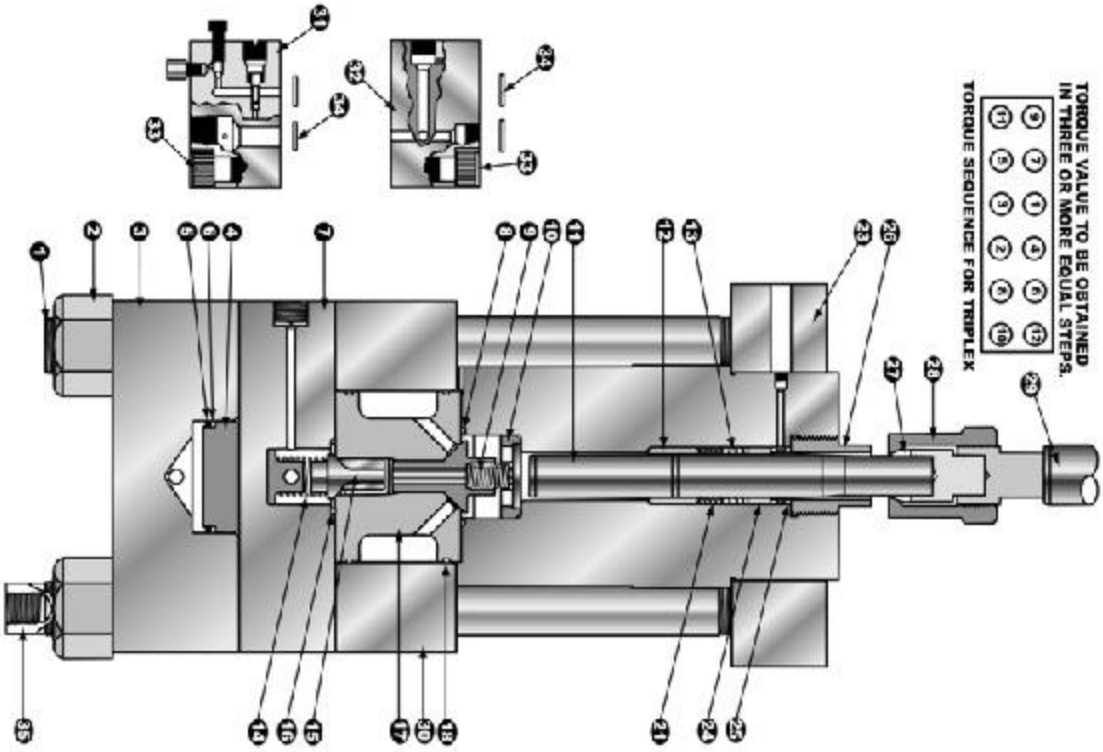
TF-450HB

ITEM	PART NO.	QUAN.	DESCRIPTION:
1	70-78658	8	STUD, 1-3/8" - 12 x 23-3/8"
2	16-78136	12	NUT, HEX, HEAVY, GR8, 1-3/8" - 12
3	70-78651	1	PLATE, 450 TORQUE
4	70-78652	3	PISTON, 450 TORQUE PLATE
5	22-80160-001	3	SPACER, 3.5" x 3.125" x 1/8" POLYSEAL
6	22-80160	3	POLYSEAL, 3.5" x 3.125" x 3/16"
7	70-78653	1	MANIFOLD, 450 DISCHARGE
8	22-20802-001	3	O-RING, 3", DISOGRIN
9	25-20800	3	SPRING, SUCTION VALVE
10	70-20803-001	3	STOP, SUCTION VALVE SPRING
14	25-20006	3	SPRING, DISCHARGE VALVE
15	70-80104-001	3	VALVE, DISCHARGE
16	22-80237	3	O-RING, 2-1/4 ", DISOGRIN
17	70-20804-001	3	SUCTION VALVE & VALVE SEAT
18	22-20801	6	O-RING, 5-3/8 ", 2-251-70
19	70-20810	3	RING, O-RING RETAINING
20	70-20807	3	CYLINDER, INLINE VALVE PUMP
23	70-78655	1	PLATE, 450 ADAPTING
26	70-20814	3	NUT, GLAND
30	70-78654	1	MANIFOLD, 450 SUCTION
31	70-78659	1	FLANGE ASSY., RIGHT HAND CHECK VALVE
32	70-78657	1	FLANGE, LEFT HAND TORQUE PLATE
33	16-78137	4	SCREW SHC, 3/4" - 16 x 3"
34	22-80247	4	O-RING, 1", DISOGRIN
35	70-78664	4	STUD, 1-3/8" - 12 x 24-1/8"
36	12-78024	4	STUD, PACKING REMOVAL (NOT SHOWN)
37	12-78028	4	SLEEVE, FILLER (NOT SHOWN)

TF-450HB

70-78650 Fluid End Plunger Groups

"Sampson", 25 KPSI MAWP



TF-450HB "SAMPSON" FLUID END

24 mm

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20016-132	3	PLUNGER, 24MM, TC
12	70-20813-400	3	THROAT BUSHING, 24MM THROAT
13	22-20800-400	3	PACKING. 1-3/4" x 24MM
21	25-20801-400	3	SPRING, PACKING
22	70-20843 400	3	FRONT PACKING RING, 24MM
24	70-20826-400	3	BACK PACKING RING. 24MM
25	70-20827-400	3	LANTERN RING, 1"
27	70-20612	3	PLUNGER BUSHING
28	70-13032	3	COLLET NUT
29	70-20611	3	PLUNGER ADAPTER

TF-450HB "SAMPSON" FLUID END

1-1/16" (27 mm)

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20016-212	3	PLUNGER, 1-1/16", TC
12	70-20813-100	3	THROAT BUSHING, 1-1/16"
13	22-20800-100	3	PACKING, 1-1/16"
21	25-20801	3	SPRING, PACKING
22	70-20843-100	3	FRONT PACKING RING, 1-1/16"
24	70-20826-100	3	BACK PACKING RING, 1-1/16"
25	70-20827-100	3	LANTERN RING, 1-1/16"
27	70-20612	3	PLUNGER BUSHING
28	70-13032	3	COLLET NUT
29	70-20611	3	PLUNGER ADAPTER

70-78650 Fluid End Plunger Groups

"Sampson", 25 KPSI MAWP

TF-450HB

TF-450HB "SAMPSON" FLUID END

1-1/8" (28.58 mm)

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20016-812	3	PLUNGER, 1-1/8", TC
12	70-20813-300	3	THROAT BUSHING, 1-1/8"
13	22-20800-300	3	PACKING, 1-1/8"
21	25-20801	3	SPRING, PACKING
22	70-20843-300	3	FRONT PACKING RING, 1-1/8"
24	70-20826-300	3	BACK PACKING RING, 1-1/8"
25	70-20827-300	3	LANTERN RING, 1-1/8"
27	70-20612	3	PLUNGER BUSHING
28	70-13032	3	COLLET NUT
29	70-20611	3	PLUNGER ADAPTER

TF-450HB "SAMPSON" FLUID END

1-3/16" (30.16 mm)

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20020-206	3	PLUNGER, 1-3/16", COLMONOY
12	70-20813-200	3	THROAT BUSHING, 1-3/16"
13	22-20800 200	3	PACKING, 1-3/16"
21	25-20801	3	SPRING, PACKING
22	70-20843-200	3	FRONT PACKING RING, 1-3/16"
24	70-20826-200	3	BACK PACKING RING, 1-3/16"
25	70-20827-200	3	LANTERN RING, 1-3/16"
27	70-20612	3	PLUNGER BUSHING
28	70-13032	3	COLLET NUT
29	70-20611	3	PLUNGER ADAPTER

TF-450HB "SAMPSON" FLUID END

1-1/4" (31.75 mm)

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20016-712	3	PLUNGER, 1-1/4", TC
12	70-20813-020	3	THROAT BUSHING, 1-1/4"
13	22-20800-020	3	PACKING, 1-1/4"
21	25-20801	3	SPRING, PACKING
22	70-20843-020	3	FRONT PACKING RING, 1-1/4"
24	70-20826-020	3	BACK PACKING RING, 1-1/4"
25	70-20827-020	3	LANTERN RING, 1-1/4"
27	70-20812	3	PLUNGER BUSHING
28	70-20815	3	COLLET NUT
29	70-20811	3	PLUNGER ADAPTER

TF-450HB "SAMPSON" FLUID END

1-3/8" (34.93 mm)

ITEM	PART NO.	QTY.	DESCRIPTION:
11	70-20020-406	3	PLUNGER, 1-3/8" COLMONOY
12	70-20813	3	THROAT BUSHING, 1-3/8"
13	22-20800	3	PACKING, 1-3/8"
21	25-20801	3	SPRING, PACKING
22	70-20843	3	FRONT PACKING RING, 1-3/8"
24	70-20826	3	BACK PACKING RING, 1-3/8"
25	70-20827	3	LANTERN RING, 1-3/8"
27	70-20812	3	PLUNGER BUSHING
28	70-20815	3	COLLET NUT
29	70-20811	3	PLUNGER ADAPTER