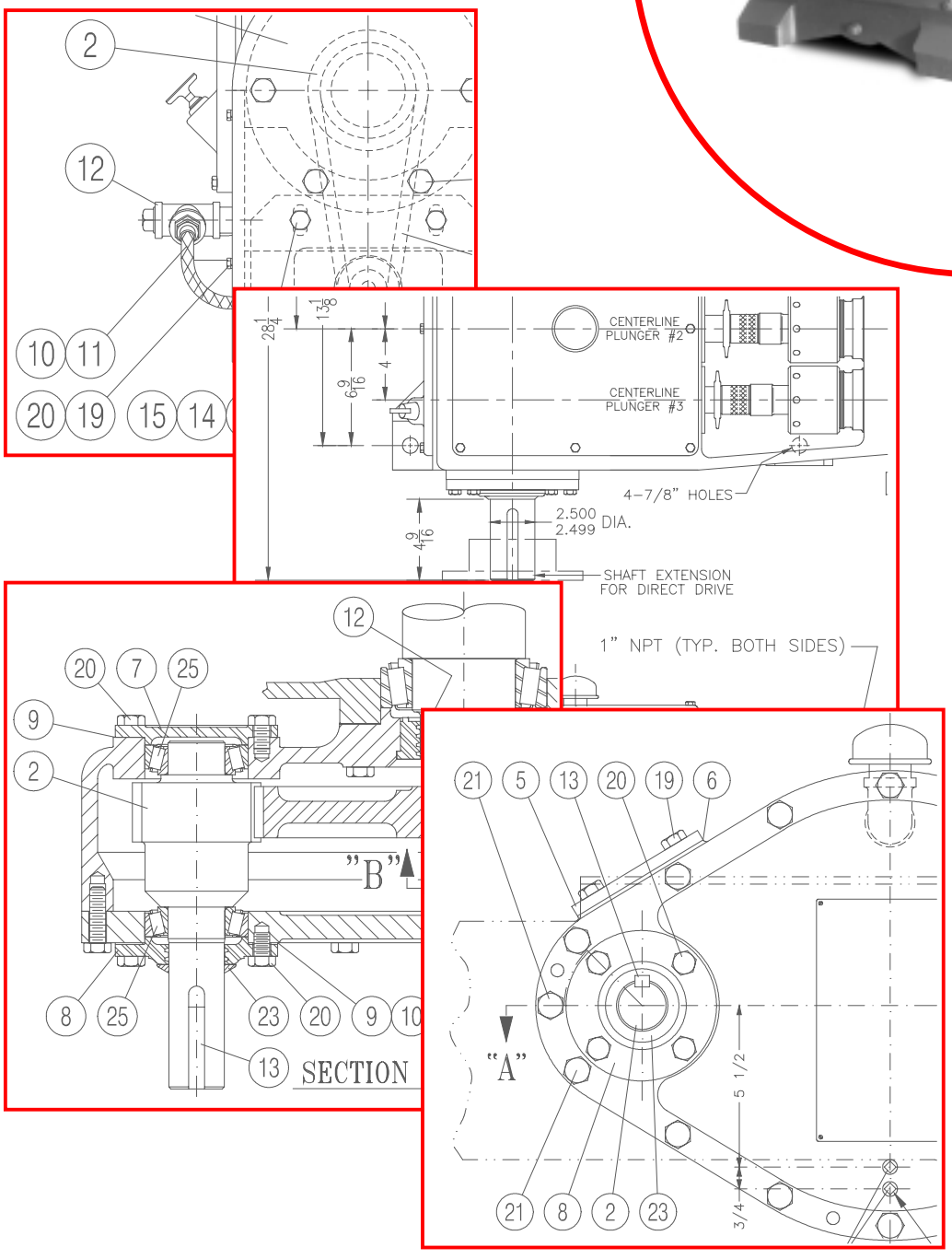
NATIONAL OILWELL

JWS-340 Triplex Plunger Pump

Parts List



JWS-340



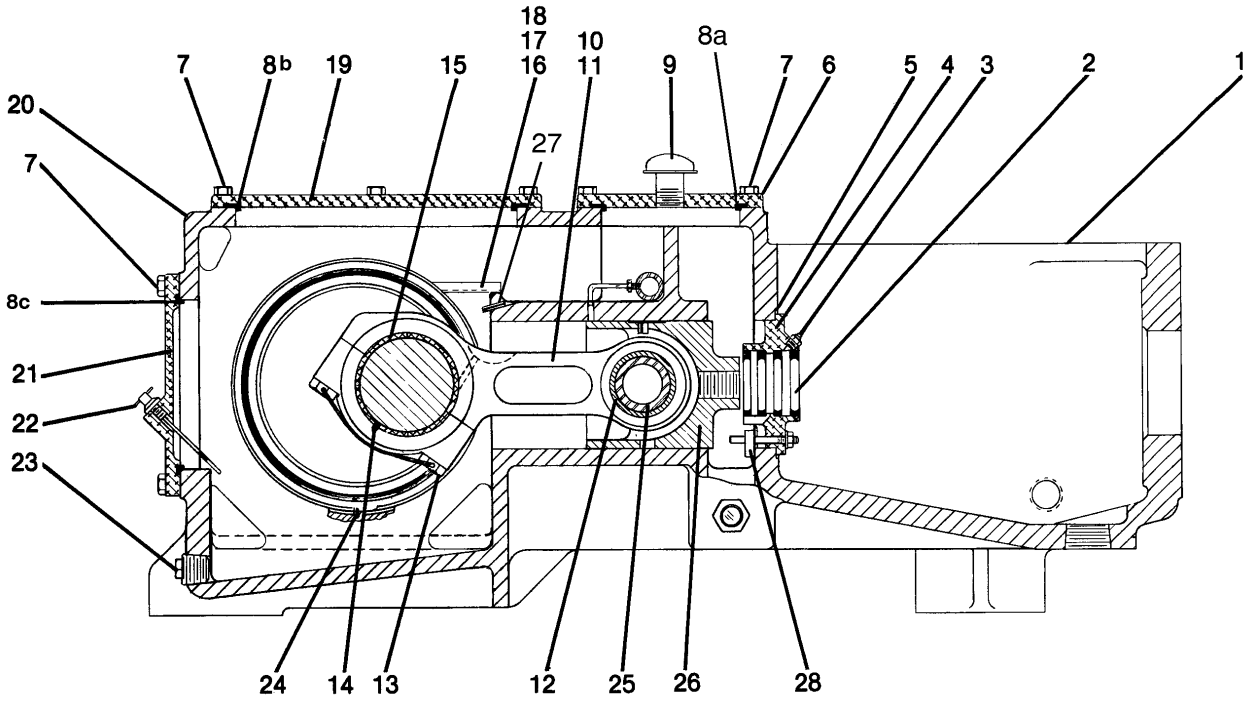
Types:
JWS-340

Sales / Technical Information

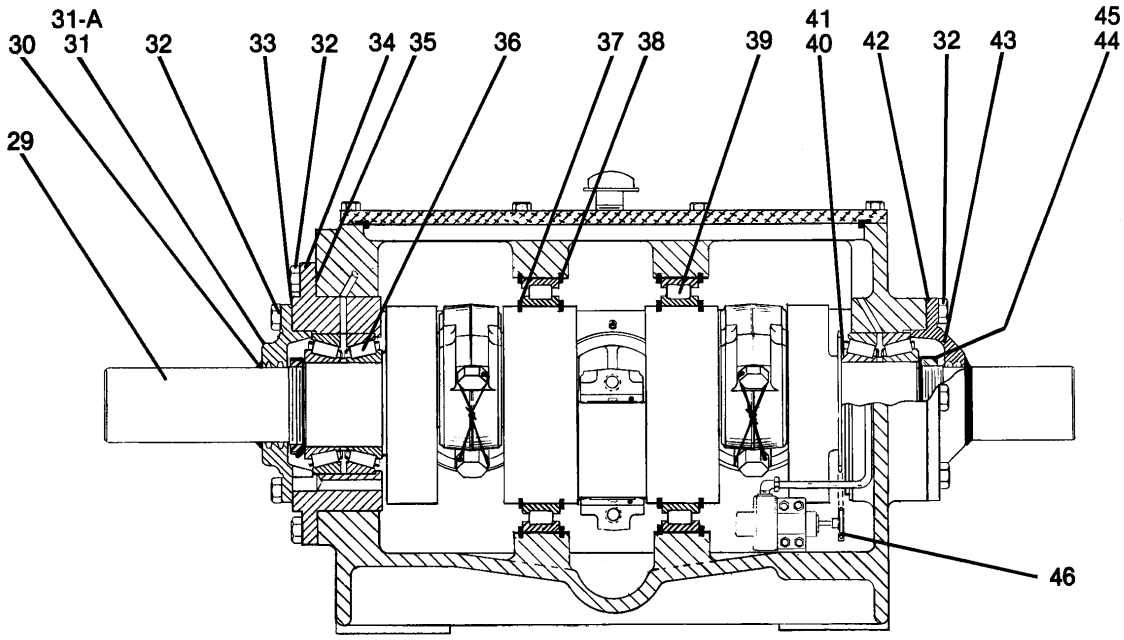
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Phone: 1 (713) 462-4110
Fax: 1 (713) 462-3152
Internet: http://www.natoil.com

P.O. Box 4638 **Houston, Texas 77210-4638**

ISSUE: September 26, 2000

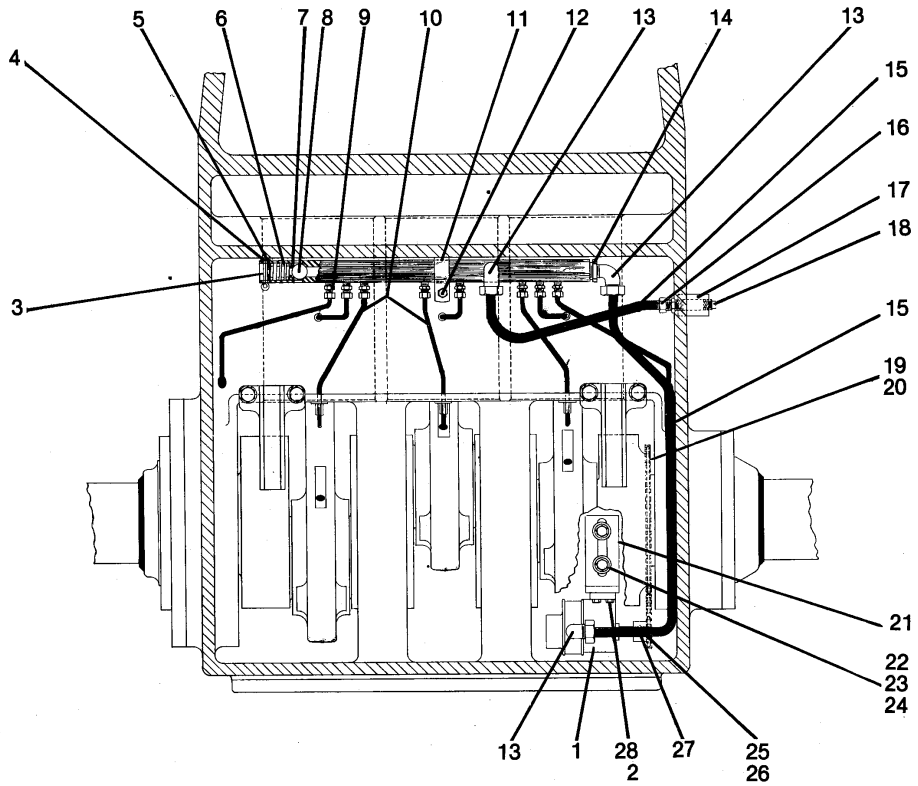


SECTION THRU POWER END



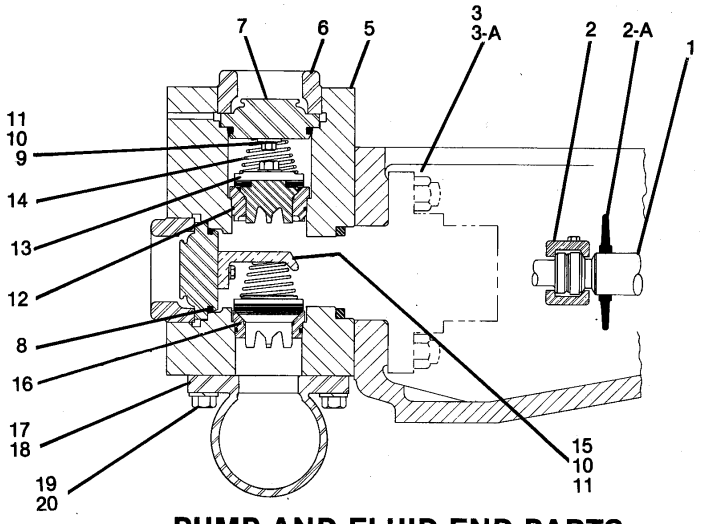
SECTION THRU CRANKSHAFT

ITEM	PART NO.	DESCRIPTION	QTY.
1	1717923	POWER END COMPLETE, Less Intermediate Rods composed of:	1
2	1713297	WIPER, Intermediate Rod (JM-16203-H)	12
3	7805052	FITITNG, Alemite 1/8" No. 1610-B	3
4	1716009	RETAINER, Intermediate Rod Wiper	3
5	1716017	GASKET, Intermediate Rod Wiper Retainer	3
6	1712014	PLATE, Crosshead Oil Reservoir Cover	1
7	7000305-11	SCREW, 1/2" x 1½" Hex Head Cap: For Crosshead Oil Reservoir Cover Plate For Power End Top Cover For Power End Rear Cover	 6 10 6
8a	1717112	Gasket, for Crosshead Oil Reservoir Cover	1
8b	1717111	Gasket, for Power End Top Cover	1
8c	1717110	Gasket, for Power End Rear Cover	1
9	7802020	CAP, Breather – Donaldson No. S-183	1
10	G1716004	ROD, Complete Connecting, LESS Crank End Bushing Composed of:	3
11	1716003	ROD, Only, Includes:	1
12	1716010	BUSHING, Bronze – Crosshead End (Service)	1
13	21032044	BOLT, Drilled Head Connecting Rod	2
14	6510604	PIN, 3/8" x 1/2" Dowel (For Crank End Bushing)	1
15	1716012	BUSHING, Aluminum – Crank End Connecting Rod	2
16	1713016	TROUGH, Oil	2
17	700030311	SCREW, 1/2" x 1" Hex Head Cap – Oil Trough	4
18	7619050	WASHER, 1/2" Regular Spring – Oil Trough	4
19	G-1717614	PLATE, Power End Top Cover	1
20	X17-3445	FRAME ONLY	1
21	1712430	PLATE, Power End Rear Cover (JWS)	1
22	2400054	GAUGE, Dipstick Oil	1
23	6874008	PLUG, 1" Std. Pipe	1
24	6570816	PIN, 1/8" x 1" Spring Roll (Snap Rings)	4
25	1716008	PIN, Crosshead – Includes:	3
	H7028104	SCREW, 1/4" x 1/2" Socket Head Cone Pt. Set	1
26	1716005	CROSSHEAD	3
27	6572420	PIN, Spring Slot	3
28	1716031	BOLT, Intermediate Rod Hook – Includes:	6
	6308080	NUT, 1/2" ESNA	1
	7618018	WASHER, 1/2" Stat-O-Seal	1
29	G-1717602	CRANKSHAFT ONLY	1
30	7818106	EXCLUDER, Dirt	2
31	1713022	RETAINER, Crankshaft Bearing (Cage Side) Belt or Direct Drive	1
31-A	1713621	RETAINER, Crankshaft Bearing (Cage Side) Gear Reducer Drive	1
32	2400930	SCREW, 5/8: x 1¾" Drilled Head Cap: For Main Bearing Cage For Crankshaft Bearing Retainers	 8 12
33	1713010	GASKET, Crankshaft Bearing Retainer (Cage Side)	1
34	1713007	CAGE, Main Bearing	1
35	1713008	GASKET, Main Bearing Cage	1
36	ZT-5506	BEARING, Crankshaft Main Roller	2
37	1716019	RING, Center Bearing Crankshaft Snap	4
38	1716018	RING, Center Bearing Frame Snap	4
39	ZB-10500	BEARING, Crankshaft Center Roller	2
40	6571208	PIN, 3/16" x 1/2" Spring Roll	1
41	G-1717621	SPROCKET, 60T – 1/2" Pitch Single	1
42	1713009	GASKET, Crankshaft Brg. Retainer (Opp. Cage Side)	1
43	1713017	RETAINER, Crankshaft Brg. (Opp. Cage Side)	1
44	7610050	WASHER, Timken No. TW-126 Lock	2
45	6304048	NUT, Timken No. Tan-26 Lock	2
46	G-1717620	PIPING, Low Speed Lubrication (See Page 4)	1
47	6874012	PLUG, 1½" Std. Pipe	1



LOW SPEED LUBRICATION

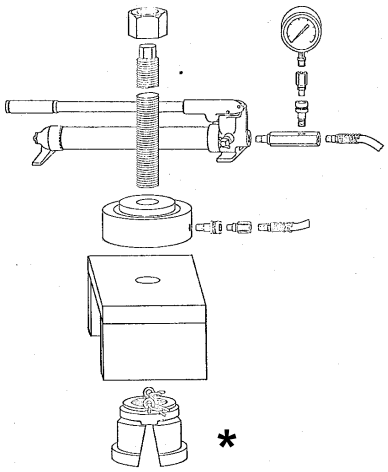
ITEM	PART NO.	DESCRIPTION	QTY.
	G-1717620	PIPING, LOW SPEED LUBRICATION, Composed of:	1
1	7815073	PUMP, #1S-B&S #713-10-2	1
2	7619041	WASHER, 3/8" Spring Lock	4
3	G-1717031	PIPE, Power End Lubrication	1
4	6501612	PIN, 1/4" x 1½" Cotter	1
5	7600026	WASHER, 3/8" W Type A-1.000" O.D.	1
6	1709103	SPRING, Ball Valve	1
7	1709105	RETAINER, Spring	1
8	1012093	BALL, Valve	1
9	G-7802484	CONNECTOR, #68 x 3 (1/8" Pipe x 3/16" Tube)	8
10	G-7400320	TUBING, 3/16" Copper (6'-0")	1
11	7802065	CLAMP, 1" Std. Pipe	1
12	7000104-11	SCREW, 1/4" x 1/2" Hex Head Cap	1
13	G-7804234	ELBOW, #1469 x 8K (3/8" Pipe x 1/2" Tube)	3
14	6800042	BUSHING, 1/2" x 3/8" Std. Pipe	1
15	G-7819150	TUBING, 1/2" Synflex (4'-0")	1
16	G-7802483	CONNECTOR, #1468 x 8K (3/8" Pipe x 1/2" Tube)	1
17	G-1717032	ADAPTER, Gauge Connection	1
18	6874003	PLUG, 3/8" Sq. Hd. Solid Pipe	1
19	G5700021-076	CHAIN, 1/2" Single – 76 Pitches – RC-40	1
20	5802101	LINK, Connecting 1/2" Single RC-40	1
21	1717021	SUPPORT, Pump Mounting	1
22	7000304-11	SCREW, 1/2" x 1¼" Hex Hd. Cap	2
23	7619050	WASHER, 1/2" Spring Lock	2
24	7600034	WASHER, 1/2" W Type A-1.375" O.D.	2
25	G-7818143	SPROCKET, 13T – ½" Pitch – Single	1
26	7027088	SCREW, #10-24 x 3/8" Cup Point Set	1
27	2404083	KEY, 1/8" x 1/8" x 5/8" Rd. One End	1
28	7000208-11	SCREW, 3/8" x 1" Hex Hd. Cap	4



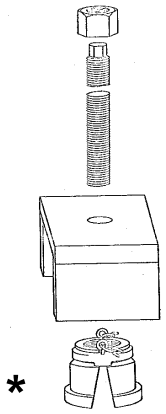
PUMP AND FLUID END PARTS

ITEM	PART No. (ACME THDS.)	PART No. (BUTTRESS THDS.)	DESCRIPTION	QTY.
1	340-019	340-019	Rod, Clamp Type Intermediate	3
	340-023	340-023	Rod, Threaded Intermediate	3
2	1716037	1716037	Clamp Cpt., - Plunger Intermediate Rod (340-019), Composed of:	3
	1716035	1716035	Clamp, Plunger – Bolt Half	1
	1716036	1716036	Clamp, Plunger – Threaded Half	1
	G-7000312-11	G-7000312-11	Screw, 1/2" x 3" Cap	2
	7616050	7616050	Washer, ½" Spring Lock – Type 304 S.S.	2
2-A	1717016	1717016	Plate, Rubber Baffle (Intermediate Rod)	3
3	6300220	6300220	Nut, 1-3/8" Heavy Hex-Fluid Cylinder to Frame	12
3-A	1712024	1712024	Nut, 1-3/8" Special Aluminum Bronze Acorn (Opt.)	12
5	171719312	171719612	Cylinder Only, Fluid – Forged Steel, Composed of:	1
	10032367	10032367	Stud, 1-3/8" x 7½" Fluid Cyl. to Frame	12
6	G-1718263-12	1718253-12	Cover, Threaded – Top and Front	6
7	G-1718266-12	1718256-12	Plate, Top and Front Cover	6
8	G-1718265	G-1718265	Seal, Top and Front Cover Plate	6
9	G-1718268	G-1718268	Retainer, Discharge Spring	3
10	7000304-11	7000304-11	Screw, 1/2" x 1¼" Cap	6
11	7619050	7619050	Washer, 1/2" Reg. Spring Lock	6
12	1561572	1561572	Seat Only, Discharge – Includes:	3
	2410022-244	2410022-244	O-Ring, Discharge Seat	1
13	1561575	1561575	Valve Complete, Suction & Discharge – Includes:	6
	1561570	1561570	Body, Valve	1
	1561577	1561577	Disc, Valve – Polyurethane	1
	1561578	1561578	Disc, Valve – Hycar (Optional)	1
	1560715	1560715	Retainer, Valve Disc	1
	7000438-11	7000438-11	Screw, 3/4" x 1½" Cap	1
	G-7605013	G-7605013	Washer, 3/4" Heavy External Tooth	1
14	G-1560697	G-1560697	Spring, Suction and Discharge Valve	6
15	G-1718267	G-1718267	Bracket, Suction Valve Spring	3
	7000304-11	7000304-11	Screw, 1/2" x 1¼" Cap	6
	7619050	7619050	Washer, 1/2" Reg. Spring Lock	6
16	1561571	1561571	Seat Only, Suction Valve – Includes:	3
	2410022-240	2410022-240	O-Ring, Suction Seat	1
17	G-1718270	G-1718270	Manifold, Suction	1
18	08406001	08406001	Gasket, Suction Manifold	1
19	7000440-11	7000440-11	Screw, 3/4" x 2" Cap	10
20	7619066	7619066	Washer, 3/4"Reg. Spring Lock	10
	6907122-304	6907122-304	Ring, BX-152 – Type S-304	2
	7000444-11	7000444-11	Screw, 3/4" x 3" Cap – Grade 5 – Discharge Flange	16
	1790065	1790065	Wrench, Valve Cover, **OPTIONAL FLANGE:**	1
			Flange, 2-1/16" – API-10,000# Ring Joint – Discharge	2

OPTIONAL EQUIPMENT – NOT ILLUSTRATED		
PART NO.	**DESCRIPTION**	**QTY.**
1790045	LOW OIL LEVEL SHUTDOWN ASSEMBLY – Includes:	1
64661271	L-129 MURPHY SWITCH	1
6800083	BUSHING, 1" x 1/2" Standard Pipe	1
6800062	BUSHING, 3/4" x 1/2" Standard Pipe	1
1717344	PLUNGER CHAMBER COVER	1
2404048	KEY, Crankshaft, 1¼" x 5½" (Direct Drive)	1
2404019	KEY, Crankshaft, 1¼" x 9½" (Belt Drive)	1
	LUBRICATORS AND ACCESSORIES:	
7811071	LUBRICATORS, 3-Feed McCord "55" – Right Hand	1
7811072	LUBRICATORS, 3-Feed McCord "55" – Left Hand	1
1710125	GUARD, Belt – Right or Left Hand	1
1713021	SHEAVE, Crankshaft 6.0" P.D. – Includes:	1
7027208	SCREW, 3/8" x 1" Cup Point Set	1
1713111	COVER, Crankshaft Extension – with Cutout for Belt – L.H.	1
1713112	COVER, Crankshaft Extension – with Cutout for Belt – R.H.	1
G-1717615	BRACKET, Mounting – Right or Left Hand	1
4712530	BELT, #2530 Vee Belt – 4L Section 53" O.D.	1
7200020	SHEAVE, 6.2" P.D. A Section Vee Belt with 5/8" Bore	1
7400420	TUBING, 1/4" O.D. x .032" Wall – 25'0"	1
7804080	ELBOW, 90° - 1/4" Tube x 1/8" IPT – 69F	3
1717498	LINER SPRAY WASH	1



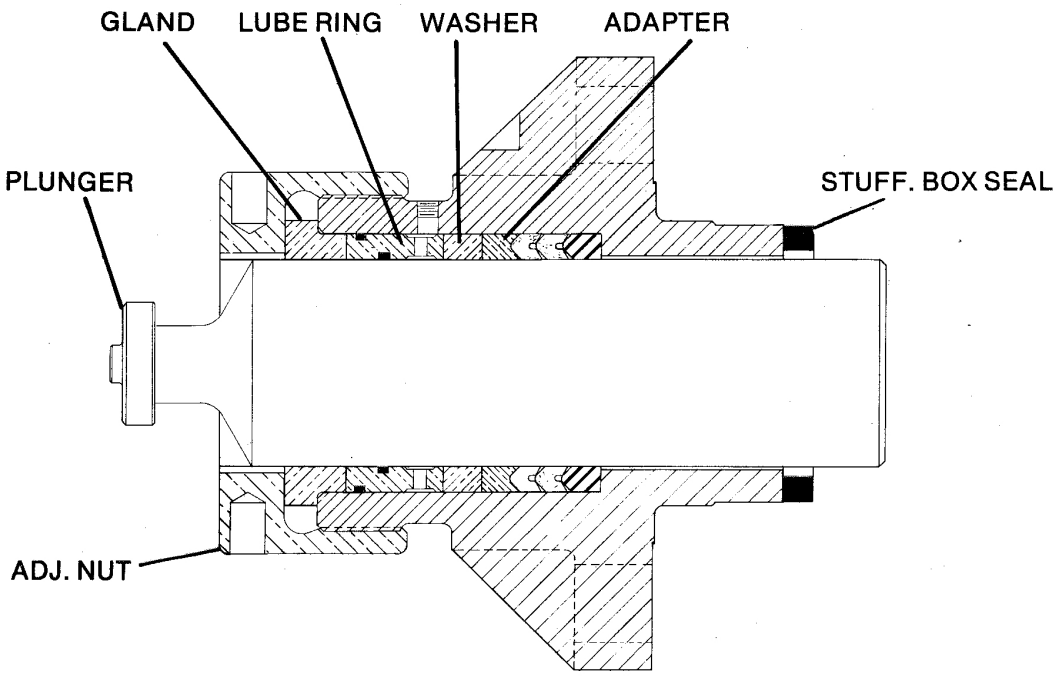
HYDRAULIC SEAT PULLER
(M-1100)
***M-1097 PULLER HEAD**
NOT INCLUDED



MANUAL SEAT PULLER
(M-1115)
***M-1097 PULLER HEAD**
INCLUDED

VALVE SERVICING TOOLS

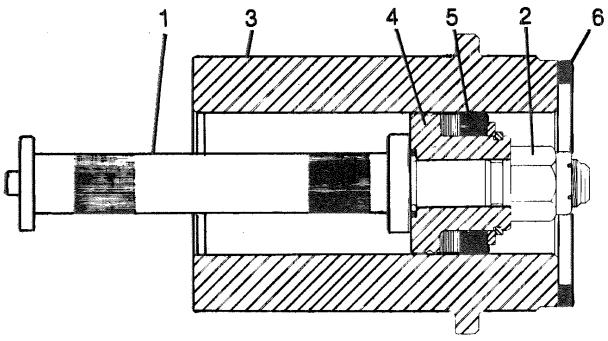
VALVE SERVICING TOOLS		
PUMP	**DISCHARGE VALVE SEAT**	**SUCTION VALVE SEAT**
JWS-340	Use Puller for 4" Valve	Use Puller for 4" Valve

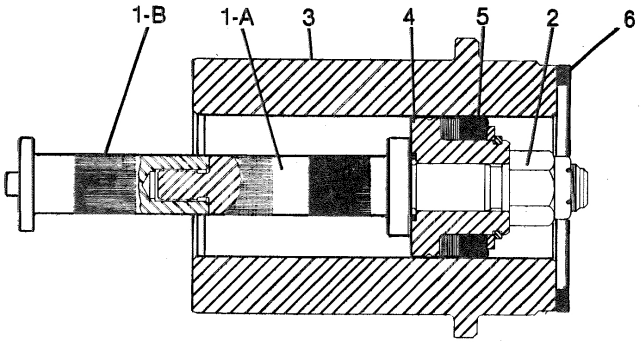


CONVERSION AND PLUNGER KITS ‡

Pump	Plunger Size	Plunger Hard Coated	*Stuffing Box Ductile Iron	Adj. Nut	Gland	Adapter	Lube Ring	Washer	Seal	Plunger Packing No.	Plunger Packing I.D. x O.D.
JWS-340	4	340-204	G-1717837-1	G-1717743-2	G-1717767-2	G-1717787-2	G-1717777-2	G-1717797-2	1712064	G-6400040	4" x 5"
	3½	340-010	G-1717835-1	G-1717741-2	G-1717765-2	G-1717785-2	G-1717775-2	G-1717795-2	1712064	G-6400038	3½" x 4½"
	3	340-012	17179011	1717902	1712090	--	G-1717331-2	G-1717321-2	1712064	G-6423002	3" x 3¾"
	2¾	340-011	G-1717829-1	G-1717740-2	G-1717762-2	G-1717782-2	G-1717772-2	G-1717792-2	1712064	G-6400035	2¾" x 3¾"

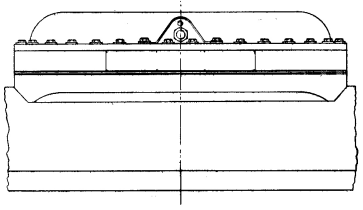
*One Piece Flange Type box – No Retainer Required
‡Composed of One of Each Item

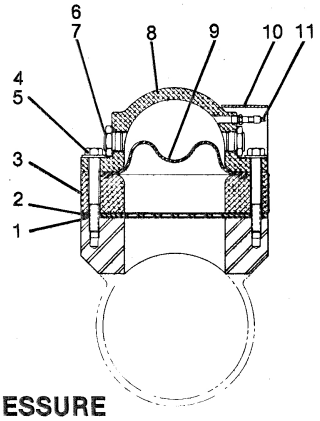




LINER AND PISTON KITS							
ITEM	**DESCRIPTION**	**4½"**	**4"**	**3½"**	**3"**	**3"**	**QTY.**
1	**ROD**, 1-pc. Piston – Includes Item 2	1713877	1713877	1713877	1713877	1713877	3
1-A	**ROD**, 2-pc. Piston – Includes Item 2	G-1717294	G-1717294	G-1717294	G-1717294	G-1717294	3
1-B	**SUB-ROD**, 2-pc. Piston	G-1717295	G-1717295	G-1717295	G-1717295	G-1717295	3
2	**NUT,** ESNA 1" – 8 UNC – 3B	6308160	6308160	6308160	6308160	6308160	3
3	**LINER**, Piston – Premium	05531450	05531400	05531350			3
4	**PISTON ASSEMBLY**	012180154	012180113	012180022			3
5	**CUP ASSEMBLY**	015180144	015180102	015180029			3
6	**SEAL**, S.B. to Cylinder	1712064	1712064	1712064	1712064	1712064	3

IN-LINE SUCTION DAMPENERS

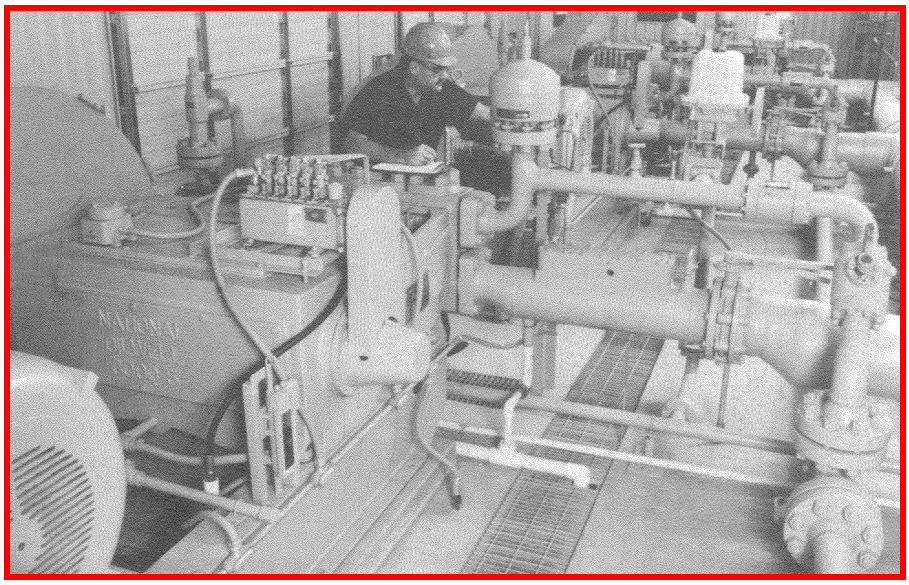




METAL — HIGH PRESSURE

ITEM	PART No.	DESCRIPTION	QTY.
1	1290198	RETAINER, Dampener	1
2	1290199	GASKET, Spacer	2
3	1290196	SPACER, Dampener	1
4	7000361-11	SCREW, 9-16" x 4" Hex Head Cap	32
5	7600036	WASHER, 9-16" N Type A 1.159" O.D.	32
6	7815106	PLUG, Tedeco-Sight No. W-54	2
7	2410031-024	SEAL, Sight Plug	2
8	1290197	COVER, Dampener	1
9	1290195	DIAPHRAGM	1
10	1290228	GUARD, Check Valve	1
11	7500021	VALVE, Check-Dill No. 02500-100AA-643VC	1

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