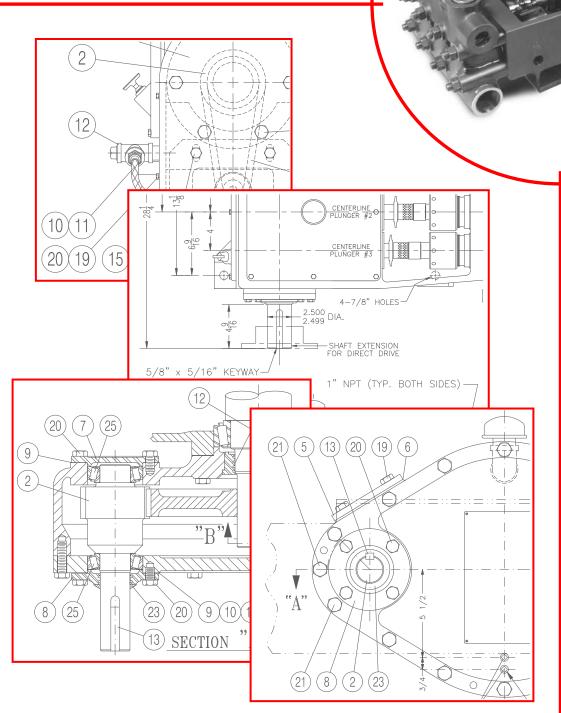


30T-2 Triplex Plunger Pump Parts List



Types: 30T-2L 30T-2H

30T-2

Sales / Technical Information

USA Tollfree: 1 (800) 324-4706 **Phone:** 1 (918) 447-4600 **Fax:** 1 (918) 447-4677 **Internet:** http://www.nov.com

REVISED: JULY 15, 2008 REVISED: AUGUST 21, 2007 REVISED: FEBRUARY 3, 2005 ISSUE: MARCH 1, 2000



Parts List Triplex Plunger Pump 30T-2



Rated input horsepower

"T" Triplex

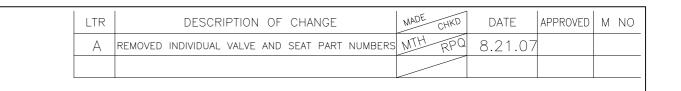
Stroke Length (in.)

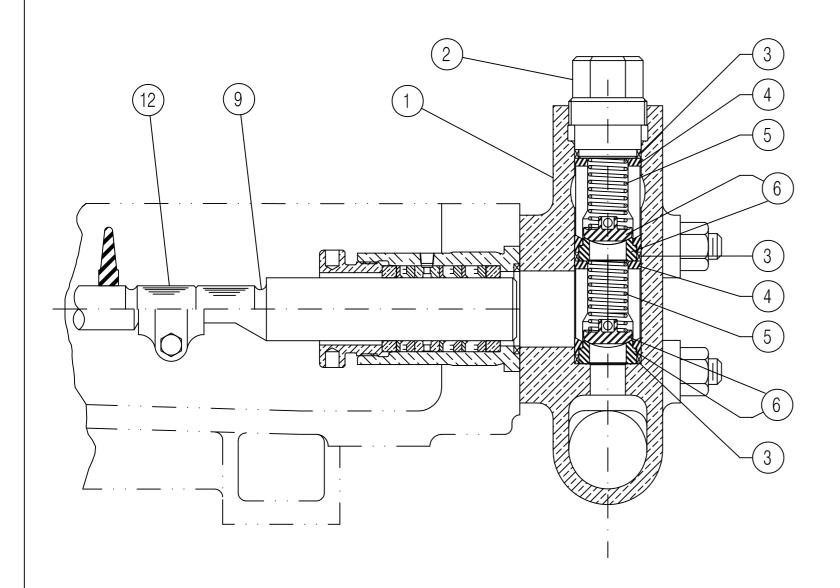
Fluid end pressure ranges "L" Low, "H" High

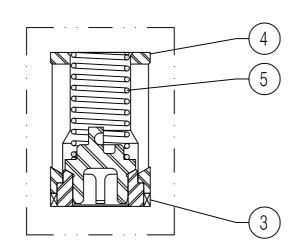
Index and Check List:

PAGE	DWG. NUMBER	DESCRIPTION	SERIES OF ISSUE	DATE OF ISSUE
1	1709520	ASSEMBLY, FLUID END, 30T-2L (THREADED) – ALUM. BRZ.	SECOND	8-21-07
2	1709521	ASSEMBLY, FLUID END, 30T-2L (FLANGED) – ALUM. BRZ.	SECOND	8-21-07
3	1709522	ASSEMBLY, FLUID END, 30T-2L STAINLESS STEEL	SECOND	8-21-07
4	1709523	ASSEMBLY, FLUID END, 30T-2H ALUMINUM BRONZE	SECOND	8-21-07
5	1709524	POWER END ASSEMBLY	SECOND	10-25-00
6	1709525	CRANKSHAFT ASSEMBLY	FIRST	7-1-99
7	1709526	CAGE VALVE SERVICE - DISC, BM. GUIDED, BALL AND SEAT	FIRST	7-1-99
8	1709527	VALVE SERVICE KITS – SPHERICAL, BM. GUIDED, DISC OR BALL	SECOND	2-22-08
9	1709541	SEVERE DUTY VALVE SERVICE ASSEMBLY	FIRST	8-21-07
10	1709528	GEAR REDUCER ASSEMBLY (ALL RATIOS)	FIRST	7-1-99
11	1709529	PLUNGER KIT ASSEMBLY 30T-2L AND 30T-2H	FIRST	7-1-99
12	1709530	PLUNGER KIT ASSEMBLY (HIGH PRESSURE) 30T-2H	FIRST	7-1-99
13	1709531	SS PLUNGER KITS W/KEVLAR PACKING 30T-2L AND 30T-2H	SECOND	2-13-01
14	1709532	PLUNGER W/INTERM. ROD ASSY. – DOUBLE TAPERED CLAMP	SECOND	6-9-07
15	1709533	PLUNGER W/INTERM. ROD ASSEMBLY – THREADED PLUNGER	SECOND	6-9-07
16	1709534	LUBRICATOR PIPING ASSEMBLY	SECOND	6-9-07
17	1709535	OPTIONAL ACCESSORIES	FIRST	7-1-99
18	1709536	PUMP CONVERSION PARTS FOR HIGH SUCTION PRESSURE	FIRST	7-1-99
19	1709537	LOW PRESSURE IN-LINE SUCTION DAMPENER (WELD - ON)	FIRST	7-1-99
20	1709538	30T AUXILIARY LUBE SYSTEM – SLOW SPEED	SECOND	6-9-07
21	1709539	30T OUTLINE DRAWING WITHOUT GEAR REDUCER	FIRST	7-1-99
22	1709540	30T OUTLINE DRAWING WITH GEAR REDUCER	FIRST	7-1-99

Revisions effective July 15, 2008 – revised drawing 1709527.







BG CAGE VALVE CPT. SUCTION & DISCHARGE

		170906614 (IN ALUM. BRZ.) ASSY. WITH BG CAGE VALVES	ASSY. WITH	* ITEM NOT SHOWN FOR CLARITY	
	QTY REQ'D	PART NU	JMBERS	MATERIAL/SPECIFICATION	ITEM NO.
	1	170906814	170906814	CYLINDER ONLY, FLUID	1
	3	1709073	1709073	COVER, CYLINDER TOP	2
	9	1711112	1711112	SEAL, VALVE CAGE	3
	6	17094276	17094276	CAGE, VALVE	4
	6	1709033	1709033	SPRING, BALL VALVE	5
	6		1711450-25	VALVE CPT., SPHERICAL	6
	6	171150025		VALVE CPT., BG CAGE	7
*	1	1710269	1710269	BAR, STUFFING BOX ADJUSTMENT NUT	8
	3	SEE PAGES 1	1 & 13	STANDARD PLUNGER KIT SELECTIONS	9
\otimes	2	#20-S	#20-S	CAPLUG - (SUCTION)	10
\otimes	2	#44	#44	CAPLUG - (DISCHARGE)	11
	3	SEE PAGES 1	4 & 15	30T INT. ROD SCREW OR CLAMP TYPE	12

LIST OF MATERIAL

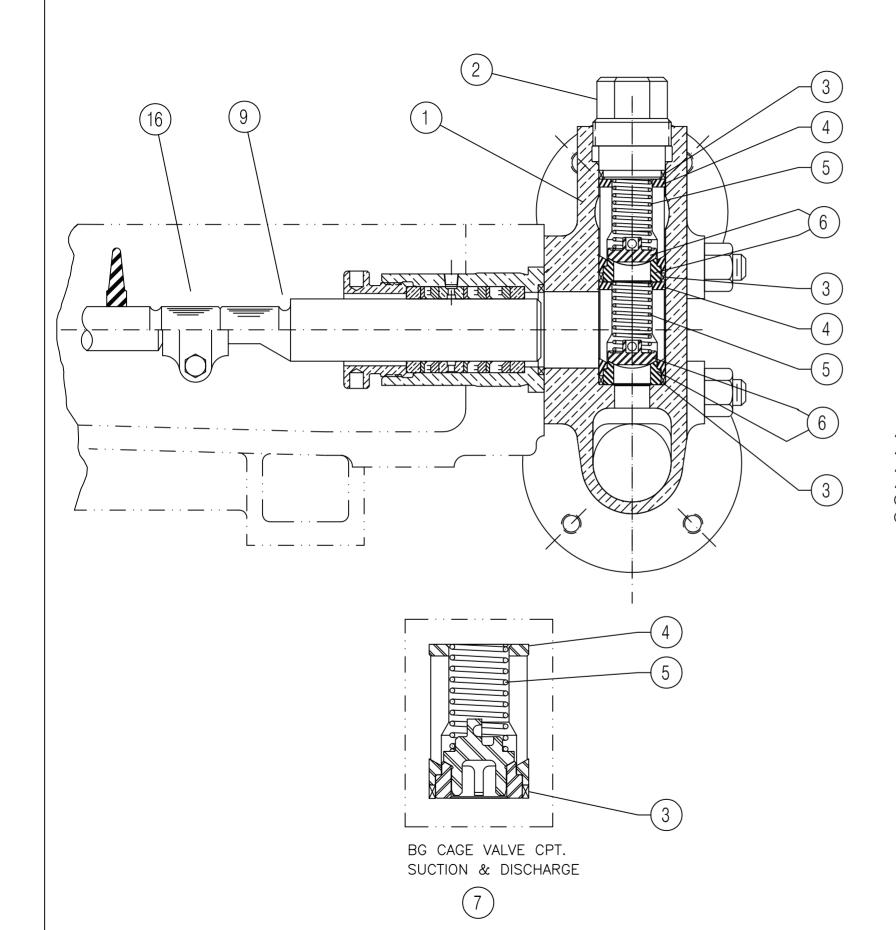
SEE PAGE 9 FOR SEVERE DUTY VALVE ASSEMBLY

i e este ma ivmal vilveli m	ill varco
RATIONAL OILWELL W	

HOUSTON, TEXAS U.S.A. ENGINEERING, McALESTER, OKLAHOMA FLUID END ASSEMBLY (THREADED) 30T-2L TRIPLEX PLUNGER PUMP SIZE REFERENCE No. DRAWING No. .709520

SHEET 1 OF 1

	LTR	DESCRIPTION OF CHANGE	MADE CHKD	DATE	APPROVED	M NO
	Α	REMOVED INDIVIDUAL VALVE AND SEAT PART NUMBERS	MTH RPQ	8.21.07		
Ī						



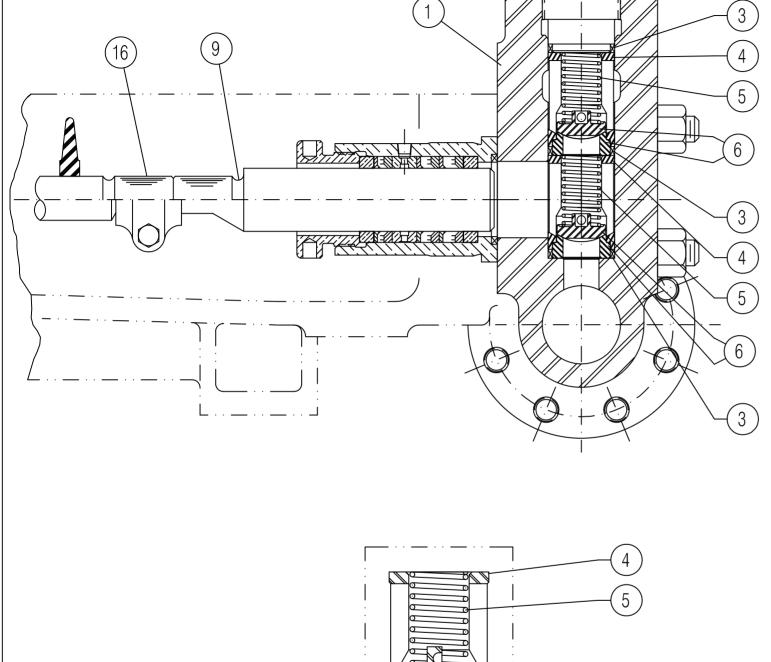
-		BG CAGE VALVES	SPHERICAL VALVES	<u> </u>	
			170931314-S (NI. ALUM. BRZ.) ASSY. WITH	* ITEM NOT SHOWN FOR CLARITY ⊗ FOR SHIPPING PURPOSES ONLY	
	QTY REQ'D	PART NU	JMBERS	MATERIAL/SPECIFICATION	ITEM NO
F	1	170931414	170931414	CYLINDER ONLY, FLUID	1
F	3	1709073	1709073	COVER, CYLINDER TOP	2
卜	9	1711112	1711112	SEAL, VALVE CAGE	3
F	6	17094276	17094276	CAGE, VALVE	4
F	6	1709033	1709033	SPRING, BALL VALVE	5
F	6		1711450-25	VALVE CPT., SPHERICAL	6
`	6	171150025	1710203	VALVE CPT., BG CAGE	7
*	1	1710269	1710269	BAR, STUFFING BOX ADJUSTMENT NUT	8
~	3	SEE PAGES 1	"	STANDARD PLUNGER KIT SELECTIONS	9
⊗ [2	#19	# 1 9	CAPLUG	10
\otimes	2	#250	#250	CAPLUG	11
	2	6010016	6010016	GASKET, 2 1/2 FLAT RING	12
	2	6908004	6908004	RING. OVAL JOINT R-20	13
<u> </u>	8	700039811	700039811	SCREW, 5/8 "-11 x 2 1/4" HEX HD. CAP (SUCT. CONN.)	14
<u>a</u> [8	700044211	700044211	SCREW, 3/4 "-10 x 2 1/2" HEX HD. CAP (DISCH. CONN.)	15
	3	SEE PAGES 1	4 & 15	30T INT. ROD SCREW OR CLAMP TYPE	

SEE PAGE 9 FOR SEVERE DUTY VALVE ASSEMBLY

ROY NAT	TONAL OILWELL VARCO
HOUSTON, TEXAS U.S.A.	ENGINEERING, McALESTER, OKLAHOMA
	D ASSEMBLY (FLANGED) FRIPLEX PLUNGER PUMP
SIZE REFERENCE No.	DRAWING No. 1709521 REV
SCALE 1/2 EST W	SHEET 1 OF 1

(2

LTR		DESCR	IPTION	OF	CHAN	NGE		MADE CHKD	DATE	APPROVED	М	NO
Α	REMOVED	INDIVIDUAL	VALVE	AND	SEAT	PART	NUMBERS	MTH RPQ	8.21.07			



5)
3)
DC CACE VALVE ORT	

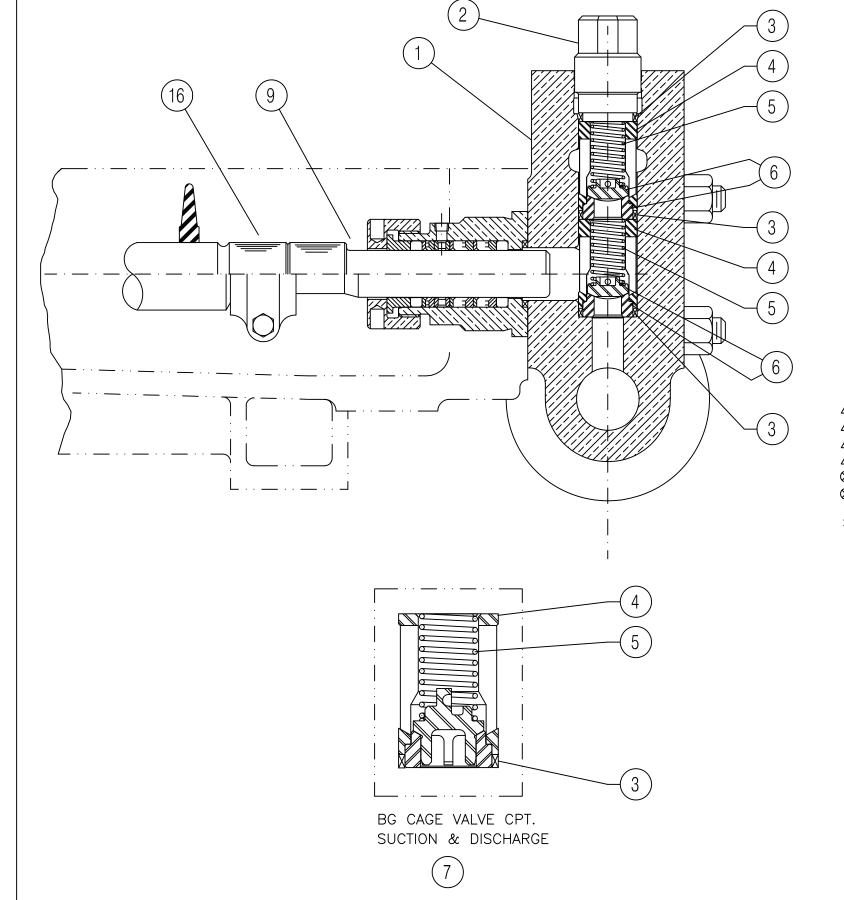
BG CAGE VALVE CPT. SUCTION & DISCHARGE

	BG CAGE VALVES	SPHERICAL VALVES		
	17099276 (316 S.S.) ASSY. WITH	ASSY. WITH	st item not shown for clarity \otimes for shipping purposes only	
QTY REQ'D	PART NI	JMBERS	MATERIAL/SPECIFICATION	ITEM NO
1	17099076	17099076	CYLINDER ONLY, FLUID	1
3	17090724	17090724	COVER, CYLINDER TOP	2
9	1711112	1711112	SEAL, VALVE CAGE	3
6	17094276	17094276	CAGE, VALVE	4
6	1709033	1709033	SPRING, BALL VALVE	5
6		1711450-25	VALVE CPT., SPHERICAL	6
6	171150025		VALVE CPT., BG CAGE	7
k 1	1710269	1710269	BAR, STUFFING BOX ADJUSTMENT NUT	8
3	SEE PAGES 11	"	STANDARD PLUNGER KIT SELECTIONS	9
2	#19	#19	CAPLUG	10
2	#250	#250	CAPLUG	11
2	6010015	6010015	GASKET, 2 1/2 FLAT RING	12
2	6908004	6908004	RING, OVAL JOINT R-20	13
8	700044011	700044011	SCREW, 3/4"-10 x 2" HEX HD. CAP (SUCT. CONN.)	14
8	700044211	700044211	SCREW, 3/4"-10 x 2 1/2" HEX HD. CAP (DISCH. CONN.)	15
3	SEE PAGES 14	& 15	30T INT. ROD SCREW OR CLAMP TYPE	16

SEE PAGE 9 FOR SEVERE DUTY VALVE ASSEMBLY

		TA		AL	OIL	WEL		VAF	
HOUSTO	N, TEXAS U.S.	۹.			ENG	SINEERING, N	AcALEST	ER, OKLAH	OMA
TITLE -	FLU 30T-2					BLY JNGE	`	,	—— ЛР
SIZE	REFERENC	CE No.	DRAWIN	G No <u>.</u>	709	52	2	RE	×
SCALE	1/2	EST W	Т			SHEET	1	OF	1

LTR	DESCRIPTION OF CHANGE	MADE CHKD	DATE	APPROVED	M N	Ю
Α	REMOVED INDIVIDUAL VALVE AND SEAT PART NUMBERS	MTH RPQ	8.21.07			

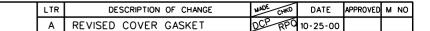


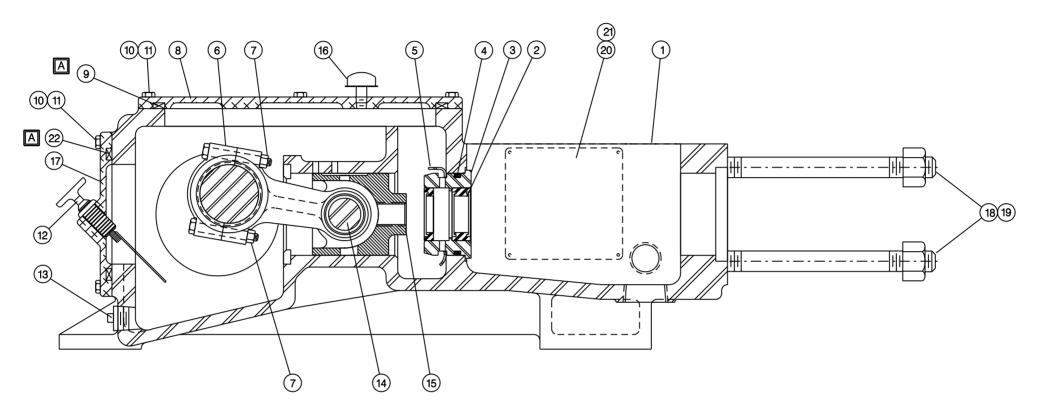
	3	SEE PAGES 14	& 15	30T INT. ROD SCREW OR CLAMP TYPE	16
▲[8	700048510	700048510	SCREW, 7/8"-9 x 3" HEX HD. CAP (DISCH. CONN.)	15
▲[16	700039711	700039711	SCREW, 5/8"-11 x 2" HEX HD. CAP (SUCT. CONN.)	14
&	2	6908002	6908002	RING, OVAL JOINT R-18	13
&	2	6010024	6010024	GASKET, 2" FLAT RING	12
⋑	2	#250	#250	CAPLUG	11
] و	2	#16	#16	CAPLUG	10
. [3	SEE PAGES 11	& 13	STANDARD PLUNGER KIT SELECTIONS	9
*	1	1710269	1710269	BAR, STUFFING BOX ADJUSTMENT NUT	8
	6	171050025		VALVE CPT., BG CAGE (INCL. #10 & #11)	7
	6		1710510-25	VALVE CPT., SPHERICAL (INCL. #8 & #9)	6
	6	1709326	1709326	SPRING, BALL VALVE	5
	6	17093356	17093356	CAGE, VALVE	4
	9	1710112	1710112	SEAL, VALVE CAGE	3
	3	1710144	1710144	COVER, CYLINDER TOP	2
	1	170935414	170935414	CYLINDER ONLY, FLUID	1
	QTY REQ'D	PART NU	JMBERS	MATERIAL/SPECIFICATION	ITEM NO.
		170935314	170935314-S (NI ALUM. BRZ.)	st item not shown for clarity	
		ASSY. WITH	ASSY. WITH	⊗ FOR SHIPPING PURPOSES ONLY	
			SPHERICAL VALVES	& SHIPPED SEPERATELY	

LIST OF MATERIAL

SEE PAGE 9 FOR SEVERE DUTY VALVE ASSEMBLY

		MAT	TONAL	OILY	VELL	V	AR	
HOUSTO	N, TEXAS U.S.	A.		ENG	INEERING, M	CALEST	ER, OKLAH	IOMA
TITLE			ID END FRIPLEX				PUI	—— ИР
SIZE	REFERENC	CE No.	DRAWING No.	709	52.	3	RE	.v A
SCALE	1/2	EST W	Ť		SHEET	1	OF	1





POWER END ASSEMBLY

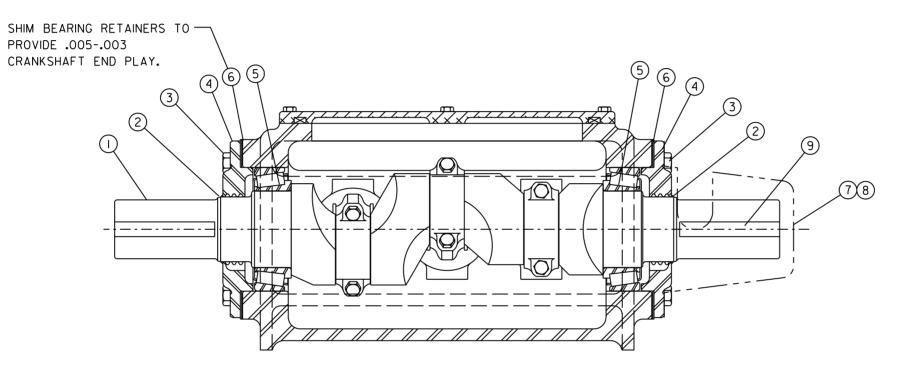
A	1	1709113	GASKET, REAR COVER	22
_	1	G-2407274	PLATE, WARNING	21
	4	7178025	SCREW, *2-1/4DRIVE	20
	8	75-510-314	NUT, $\frac{1}{8}$ "-9 HEX	19
	8	49-005-944	STUD, 7/8"-9 x 8" LG	18
	1	1709015	PLATE, P.E. REAR COVER	17
	1	7802020	BREATHER	16
	3	1709005	CROSSHEAD	15
	3	1709008	PIN, CROSSHEAD	14
	1	6873006	PLUG, ¾" SQ. HD. PIPE	13
	1	2400055	DIPSTICK	12
	14	7621020	WASHER	11
	14	7000158-11	SCREW, H.H. CAP 5/16 " x 1-1/4" LG.	10
A	1	1709114	GASKET, TOP COVER	9
_	1	1709014	PLATE P.E. TOP COVER	8
	6	6310050	NUT, FLEX LOC	7
	3	1709400	ROD, COMPLETE CONNECTING	6
	3	G-1709519	CLIP, INT. ROD RETAINER	5
	3	2410031-338	SEAL, INT ROD RETAINER	4
	3	G-1709518	RETAINER, INT. ROD	3
	9	7822030	WIPER, INT. ROD OIL	2
	1	1709001	FRAME, MAIN	1
	QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO.
			LIST OF MATERIAL	



POWER END ASSEMBLY 30T-2 TRIPLEX PUMP

SIZE REFERENCE No. DRAWING No. 1709524 A





CRANKSHAFT ASSEMBLY

- * OPTIONAL EQUIPMENT
- ** FURNISHED ONLY WHEN NO ACCESSORY DRIVES ARE REQUIRED.

	12	2401180	SCREW, DRLD. HD. 1/2" x 11/4" LG.	3
	2	ZT-3254 1709011	BEARING, MAIN ROLLER RETAINER, BEARING	5 4
	6	1712625	SHIM, .005" BEARING RETAINER	<u> </u>
	6	1712627	SHIM, .007" BEARING RETAINER	6
	2	1712620	SHIM, .020" BEARING RETAINER	
* *	1	1709128	COVER, CRANKSHAFT EXTENSION	7
*	1	1709129	COVER, CRANKSHAFT (FOR LUBRICATOR)	8
- 1	1	1709015	KEY, CRANKSHAFT (% x % x 4)	9

NATIONAL OILWELL VARCO

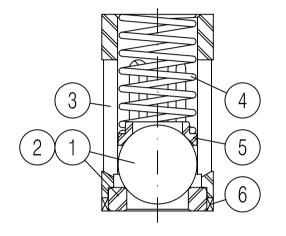
TITLE
CRANKSHAFT ASSEMBLY
30T-2 TRIPLEX PUMP

SIZE REFERENCE NO. DRAWING NO.
D 1709525

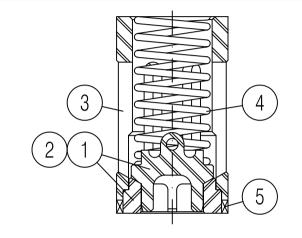
SCALE 1/2 EST WT SHEET 1 OF 1

1	1711112	1710112	SEAL	6
1	1709025	1709105	RETAINER, SPRING	5
1	1709010	1709103	SPRING	4
1	1709007-6	1709101-6	CAGE	3
1	1711106	1709106	VALVE & SEAT (DISCHARGE)	2
1	1711106	1709106	VALVE & SEAT (SUCTION)	1
QTY. REQ'D.	PART NO. 30T-2L	PART NO. 30T-2H	DESCRIPTION	ITEM NO.
		LIST 0	F MATERIAL	

1	1711110	1710110	CEAL	_
	1711112	1710112	SEAL	5
1	1709033	1709326	SPRING	4
1	1709427-6	1709335-6	CAGE	3
1	1711500-25	1710500-25	VALVE & SEAT (DISCHARGE)	2
1	1711500-25	1710500-25	VALVE & SEAT (SUCTION)	1
QTY REQ'		PART NO. 30T-2H	DESCRIPTION	ITEM NO.
		LIST OF	MATERIAL	

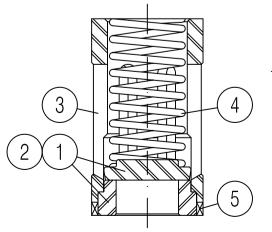


30T - 2L & (2H & 2PO) CAGE TYPE BALL VALVE

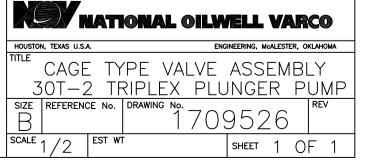


30T - 2LCA & 2HCA BOTTOM GUIDED CAGE TYPE VALVE

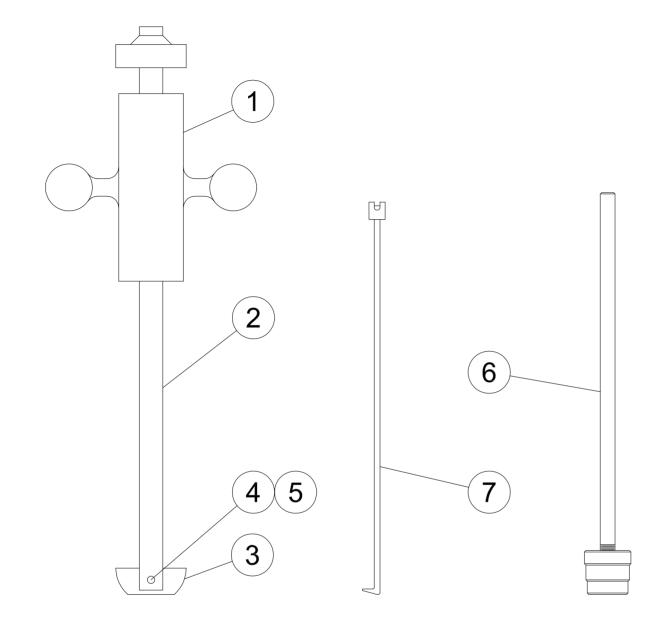
1	1711112	1710112	SEAL	5
1	1709033	1709326	SPRING	4
1	1709027-6	1709335-6	CAGE	3
1	1711332	1710332	VALVE & SEAT (DISCHARGE)	2
1	1711330	1710330	VALVE & SEAT (SUCTION)	1
QTY. REQ'D.	PART NO. 30T-2L	PART NO. 30T-2H	DESCRIPTION	ITEM NO.
		LIST OF	MATERIAL	



30T - 2LCA & 2HCA CAGE TYPE DISC VALVE



LTR	DESCRIPTION OF CHANGE	MADE CHKD	DATE	APPROVED	M No
Α	REVISED	DCP RPQ	2.22.08	RPQ	



30T - 2LCA						
ITEM No.	PART No.	DESCRIPTION	QTY. REQD.			
	1711251	VALVE KIT COMPLETE	1			
	1711249	BAR CPT. (INCL. 2-5)	1			
1	1790080	BUMPER	1			
2	1710250	BAR	1			
3	1711252	PLATE	1			
4	6572016	PIN	1			
5	6571216	PIN	1			
6	1790041	DRIVER	1			
7	1790034	RETRIEVER	1			

30T - 2HCA / 2PO						
ITEM No.	PART No.	DESCRIPTION	QTY. REQD.			
	1710292	VALVE KIT COMPLETE	1			
	1710249	BAR CPT. (INCL. 2-5)	1			
1	1790080	BUMPER	1			
2	1710250	BAR	1			
3	1710252	PLATE	1			
4	6572016	PIN	1			
5	6571216	PIN	1			
6	1790040	DRIVER	1			
7	1790034	RETRIEVER	1			

CAGE TYPE VALVE KIT

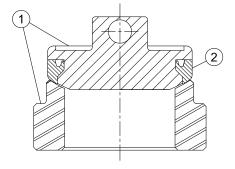
(SPHERICAL, BOTTOM GUIDED, DISC, OR BALL)

NOT NATIONAL OILWELL VARCO						
HOUSTO	I, TEXAS U.S.A.			ENGIN	EERING, McALESTER, OKL	AHOMA
TITLE	VALVE SERVICE KITS 30T-2 PLUNGER PUMP					
SIZE	REFERENC	E No.	DRAWING No.			REV
В			1709527		Α	
SCALE	1/4	EST WT	LBS.		SHEET 1 OF 1	

LTR DESCRIPTION OF CHANGE

CHKD DATE AP

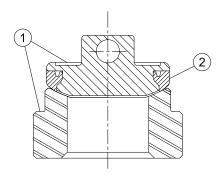
APPROVED M NO



SUCTION & DISCHARGE

1	9707090	SEAL / INSERT	2
1	1711450-25SD	VALVE CPT., SUCTION & DISCHARGE- SEVERE DUTY	1
QTY REQ'D	PART No.	DESCRIPTION	ITEM No.

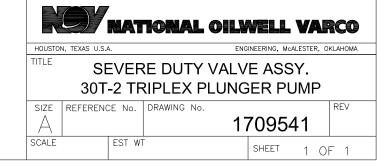
30T-2L CAGE TYPE SPHERICAL SD TYPE



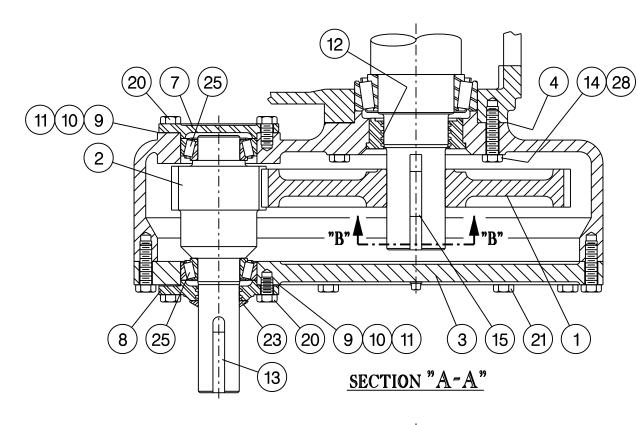
SUCTION & DISCHARGE

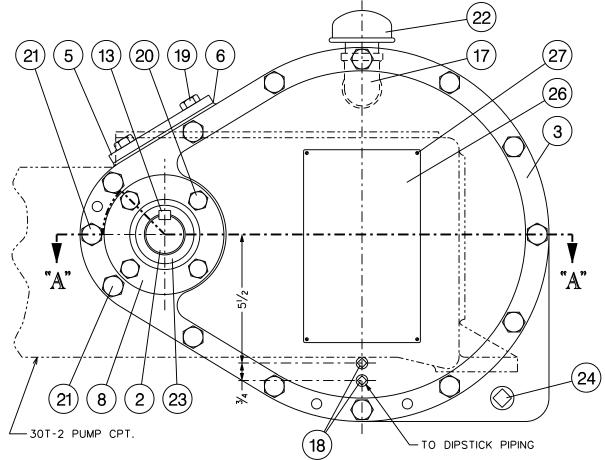
1	9707092	SEAL / INSERT	2
1	1710510-25SD	VALVE CPT., SUCTION & DISCHARGE- SEVERE DUTY	1
QTY REQ'D	PART No.	DESCRIPTION	ITEM No.

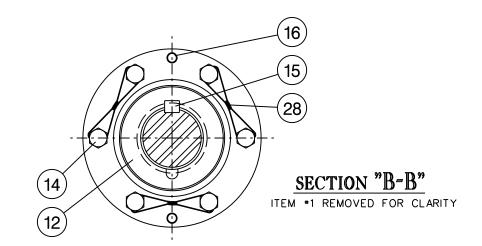
30T-2H CAGE TYPE SPHERICAL SD TYPE











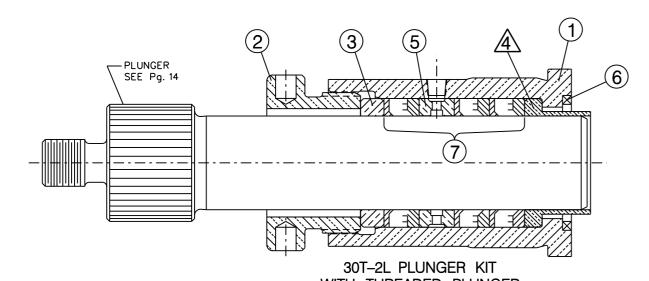
1 1 QTY REQ'D	1709602 1709614 1709609 PART NO. G1709632 3.50:1 RATIO	7817200-68 1709602 1709613 1709610 PART NO. 1709630 3.83:1 RATIO	1709602 1709612 1709611 PART NO. 1709634 4.2:1 RATIO	GASKET, LOCTITE PLASTIC HOUSING CPT, GEAR REDUCER PINION GEAR DESCRIPTION	4 3 2 1 ITEM NO
1	1709614 1709609	1709602 1709613 1709610	1709612 1709611 PART NO.	HOUSING CPT, GEAR REDUCER PINION GEAR	3 2 1
	1709614	1709602 1709613	1709612	HOUSING CPT, GEAR REDUCER PINION	3
1	+	1709602		HOUSING CPT, GEAR REDUCER	3
	1709602		1709602	•	
1		7817200-68		GASKET, LOCTITE PLASTIC	4
1					
1		2206529		COVER, INSPECTION	5
1		1710619		GASKET, INSPECTION COVER	6
1		1709604		CAP, H.S. PINION BRG BLIND	7
		1709605		CAP, H.S. PINION BRG OPEN	8
2		1709620		SHIM, BEARING RETAINER .020	9
6		1709625		SHIM, BEARING RETAINER .005	10
6		1709627		SHIM, BEARING RETAINER .007	11
1		1709028		SEAL, LABYRINTH	12
1		2401830		KEY, PINION 1/2" x 1/2" x 3"	13
6		2402010		SCREW, HEX HD DRLD 1/2" x 2"	14
1		2404050		KEY, GEAR 5/8" × 5/8" × 3"	15
2		6580828		PIN, TAPER #8 x 13/4"	16
<u></u>		6829003		ELBOW, STD $\frac{3}{8}$ " x 90° STREET	17
2		6874002		PLUG, STD PIPE 1/4"	18
4		7000301-11 7000303-11		SCREW, HEX HD CAP 1/2" x 74"	19
10 8		7000306-11		SCREW, HEX HD CAP 1/2" x 13/4" SCREW, HEX HD CAP 1/2" x 3/4"	21
1		7801120		CAP, BREATHER	22
1		7804042		EXCLUDER, BRG	23
1		7815056		PLUG, MAGNETIC DRAIN 1"	24
2		ZT-1796		BEARING, PINION SHAFT	25
1		1711606		PLATE, NAME & INSTRUCTION	26
4		7178025		SCREW, RD HD DRIVE #2 x 1/4"	27
3 FT.		59800016		LOCKWIRE, #16 GA. ANNEALED	28

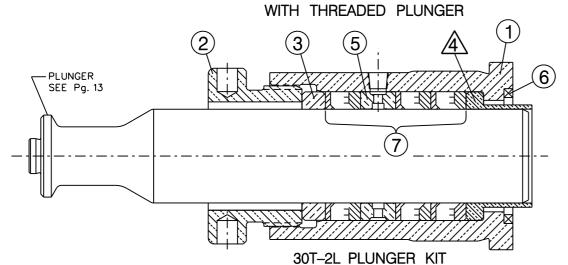
NOT NATIONAL OILWELL VARCO

TITLE

GEAR REDUCER ASSEMBLY 30T-2 TRIPLEX PLUNGER PUMP

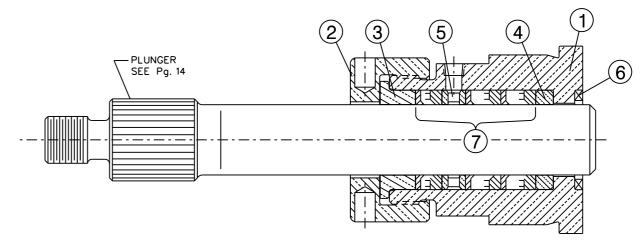
SIZE	REFERENC	CE No.	DRAWING	^{No.} 170	952	28	REV	•
SCALE	1/4	EST W	Т		SHEET	1 0	F	1



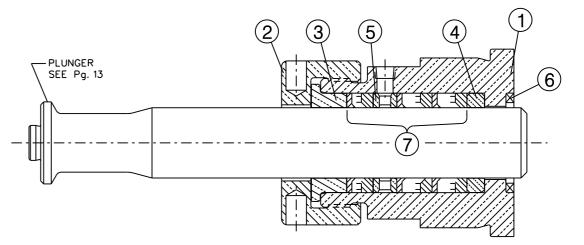


WITH CLAMPED PLUNGER

1	6422328	21/4" - 850-N UNIVERSAL PACKING	
1	6422322	2" - 850-N UNIVERSAL PACKING	
1	6422319	1¾" - 850-N UNIVERSAL PACKING	7
1	6422314	1/2" - 850-N UNIVERSAL PACKING	
1	1709004	SEAL, STUFFING BOX	6
1	1709134	21/4" LUBE RING	
1	1709133	2" LUBE RING	5
1	1709132	1¾" LUBE RING	
1	1709131	1/2" LUBE RING	
1	1709091	21/4" SLEEVE WASHER	
1	1709090	2" SLEEVE WASHER	Λ
1	1709089	1¾" SLEEVE WASHER	<u> </u>
1	1709088	11/2" SLEEVE WASHER	
2	1709098	21/4" WASHER	
2	1709097	2" WASHER	_
2	1709096	1¾" WASHER	3
2	1709095	11/2" WASHER	
1	1709065	NUT, ADJUSTING	2
1	1709074	21/4" PLG'R x 23/4" BORE STUFFING BOX	
1	1709074	2" PLG'R x 23/4" BORE STUFFING BOX	1
1	1709074	13/4" PLG'R x 23/4" BORE STUFFING BOX	'
1	1709074	11/2" PLG'R x 23/4" BORE STUFFING BOX	
QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO
		LIST OF MATERIAL	
30T– 2L PLUNGER KIT			



30T-2H PLUNGER KIT WITH THREADED PLUNGER



30T-2H PLUNGER KIT WITH CLAMPED PLUNGER

1	6422310	11/2" - 850-N UNIVERSAL PACKING	
- †	6422308	13/8" - 850-N UNIVERSAL PACKING	7
		11/4" - 850-N UNIVERSAL PACKING	'
1			
1		SEAL, STUFFING BOX	6
1	1710211	11/2" LUBE RING	
1	1710212	13/8" LUBE RING	5
1	1710276	11/4" LUBE RING	
1	1709211	11/2" WASHER	4
1	1711220	1%" WASHER	–
1	1710057	1/4" WASHER	
1	1709346	1½" GL AND	3
1	1709345	13/8" GLAND	٥
1	1709344	11/4" GLAND	
1	1709350	NUT, ADJUSTING	2
1	1709355	11/2" PLG'R x 21/8" BORE STUFFING BOX	1
1	1709355	13/8" PLG'R x 21/8" BORE STUFFING BOX	'
1	1709356	11/4" PLG'R x 2" BORE STUFFING BOX	
O'DSA YTC	PART NO.	DESCRIPTION	ITEM NO.
LIST OF MATERIAL			

30T- 2H PLUNGER KIT

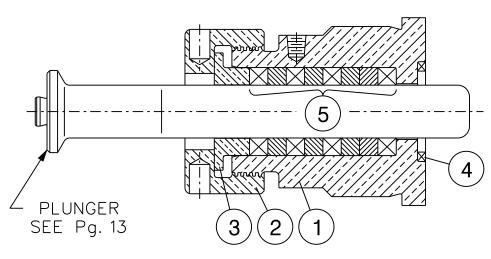
NOV NATIONAL OILWELL VARCO

ASSEMBLY, PLUNGER KIT

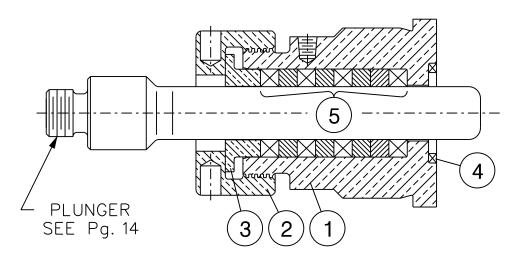
30T-2L & 2H TRIPLEX PUMP

SIZE REFERENCE No. DRAWING No.
1709529

SCALE NONE EST WT SHEET 1 OF 1



30T-2H PLUNGER KIT WITH CLAMPED PLUNGER



30T-2H PLUNGER KIT WITH THREADED PLUNGER

1	6420415	$1\frac{1}{8}$ " - 1045 UNIVERSAL PACKING			
1	6420431	1" - 1045 UNIVERSAL PACKING	5		
1	6420400	15/16" - 1045 UNIVERSAL PACKING			
1	2410031-327	SEAL, STUFFING BOX	4		
1	1709343	11/8" GL AND			
1	1709342	1" GLAND	3		
1	1709341	¹⁵ / ₁₆ " GLAND			
1	1709350	NUT, ADJUSTING	2		
1	1709357	$1\frac{1}{8}$ " PLG'R x $1\frac{7}{8}$ " BORE STUFFING BOX			
1	1709358	1" PLG'R x 13/4" BORE STUFFING BOX	1		
1	1709359	15/16" PLG'R x 111/16" BORE STUFFING BOX			
QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO.		
	LIST OF MATERIAL				
		30T – 2H PLUNGER KIT			

NOY NATIONAL OILWELL VARCO ASSEMBLY, PLUNGER KIT HIGH PRESSURE 30T-2H TRIPLEX PUMP SIZE REFERENCE No. DRAWING No. 1 1709530 SHEET 1 OF

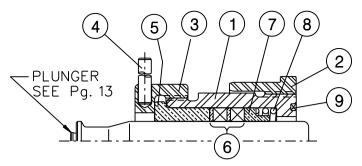
LTR. DESCRIPTION OF CHANGE

MADE HAVE

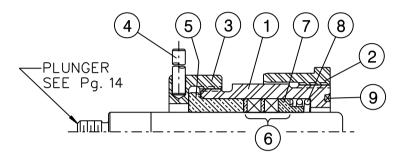
DATE APPROVED M No.

REVISED

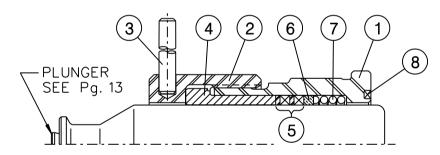
DCP RPQ 02-13-01 RPQ RPQ



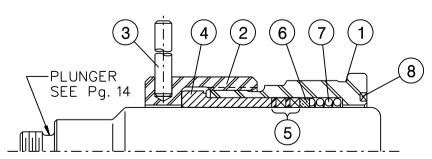
30T-2H (15/16" THRU 13/8" PLG'R) PLUNGER KIT WITH CLAMPED PLUNGER



30T-2H (15/16" THRU 13/8" PLG'R) PLUNGER KIT WITH THREADED PLUNGER



30T-2L & 30T-2H (11/2"THRU 21/4" PLG'R) PLUNGER KIT WITH CLAMPED PLUNGER



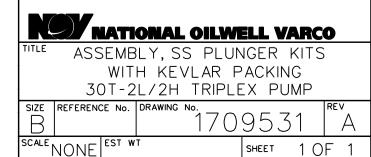
30T-2L & 30T-2H ($1\frac{1}{2}$ " THRU $2\frac{1}{4}$ " PLG'R) PLUNGER KIT WITH THREADED PLUNGER

1	2410031-334	SEAL, STUFFING BOX	8
1	342-271	$2\frac{1}{4}$ " SPRING	
1	L342-260	2" SPRING	7
1	L342-240	$1\frac{1}{2}$ " & $1\frac{3}{4}$ " SPRING	
1	342-366	21/4" FOLLOWER	
1	L342-368	2" FOLLOWER	6
1	L342-346	1¾'' FOLLOWER	
1	L342-344	1½" FOLLOWER	
1	342-764	21/4" KEVLAR PACKING	
1	342-768	2" KEVLAR PACKING	5
1	L342-746	1¾'' KEVLAR PACKING	
1	L342-744	11/2" KEVLAR PACKING	
1	342-134	2 ¹ / ₄ " GL AND	
1	342-024	2" GLAND	4
1	L342-146	5 1¾" GLAND	
1	L342-144	1/ ₂ " GL AND	
1	342-929	PIN, LOCKING	3
1	342-932	ADJUSTING NUT	2
1	342-931	21/4" PLG'R x 23/4" BORE STUFFING BOX	
1	342-931	2" PLG'R x 2¾" BORE STUFFING BOX	1
1	342-917	$1\frac{3}{4}$ " PLG'R x $2\frac{1}{2}$ " BORE STUFFING BOX	
1	342-917	$1\frac{1}{2}$ " PLG'R x $2\frac{1}{2}$ " BORE STUFFING BOX	
QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO.
		LIST OF MATERIAL	
	,	30T-2L PLUNGER KIT	

1	2410031-334	11/2" SEAL, STUFFING BOX	0
1	2410031-329	15/16 THRU 1 3/8 SEAL, STUFFING BOX	9
1	L342-240	11/2" SPRING	
1	L342-210	$1\frac{1}{8}$ ", $1\frac{1}{4}$ " & $1\frac{3}{8}$ " SPRING	8
1	342-265	15/16" & 1" SPRING	
1	L342-344	1/2" FOLLOWER	
1	L342-313	13/8" FOLLOWER	
1	L342-312	1 ¹ / ₄ " FOLLOWER	_
1	342-311	11/8" FOLLOWER	7
1	342-351	1" FOLLOWER	
1	342-350	⁵ ∕ ₁₆ " FOLLOWER	
1	L342-744	11/2" KEVLAR PACKING	
1	L342-713	13/8" KEVLAR PACKING	
1	L342-712	11/4" KEVLAR PACKING	6
1	342-711	11/8" KEVLAR PACKING	
1	342-749	1" KEVLAR PACKING	
1	342-748	15/16" KEVLAR PACKING	
1	L342-144	11/2" GLAND	
1	L342-193	13/8" GLAND	
1	L342-192	1 ¹ / ₄ " GLAND	5
1	L342-191	11/8" GLAND	9
1	342-119	1" GLAND	
1	342-118	¹⁵ / ₁₆ " GL AND	
1	342-929	PIN, LOCKING	4
1	L342-932	11/2" ADJUSTING NUT	3
1	L342-911	15/16" THRU 13/8" ADJUSTING NUT	3
1	1709172	15/16" THRU 13/8" STUFF. BOX BUSHING	2
1	342-917	$1\frac{1}{2}$ " PLG'R x $2\frac{1}{2}$ " BORE STUFFING BOX	
1	L342-909	$1\frac{3}{8}$ " PLG'R x $2\frac{1}{8}$ " BORE STUFFING BOX	
1	L342-909	$1^{1}/_{4}$ " PLG'R x $2^{1}/_{8}$ " BORE STUFFING BOX	1
1	L342-909	$1\frac{1}{8}$ " PLG'R x $2\frac{1}{8}$ " BORE STUFFING BOX	
1	342-944	1" PLG'R x 1¾" BORE STUFFING BOX	
1	342-943	15/16" PLG'R x 1 1 1/16" BORE STUFFING BOX	
QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO.
		LIST OF MATERIAL	
		30T-2H PLUNGER KIT	

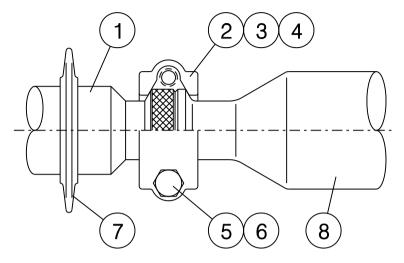
NOTE:

USE 2 SETS OF PACKING FOR 3 PLUNGERS



1	4	

	BILL OF MATERIAL				
ITEM	PART NO.	DESCRIPTION			
1	L340-002	INTERMEDIATE ROD, S.S.			
2	L340-001	CLAMP COMPLETE			
3	L340-001-1	CLAMP, BOLT HALF			
4	L340-001-2	CLAMP, THREAD HALF			
5	L195-063	CAPSCREW, HEX HEAD			
6	L195-064	WASHER, SPRING LOCK			
7	1709018	BAFFLE, INTERMEDIATE ROD			



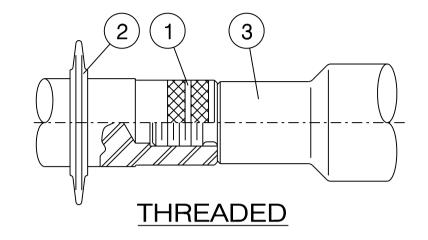
DOUBLE TAPER CLAMP

* LISTED PART No.'s WERE PREVIOUSLY HARD COAT PLUNGERS

	PLUNGERS FOR DOUBLE TAPER CLAMPS				
	30T – 2L				
ITEM	* PART NO.*	PART NO.	DESCRIPTION		
8	1709386	340-119	21/4" CARBIDE PLUNGER		
	1709385	340-118	2" CARBIDE PLUNGER		
	1709384	340-116	13/4" CARBIDE PLUNGER		
	1709383	340-114	11/2" CARBIDE PLUNGER		
		30T	– 2H		
	1709383	340-114	11/2" CARBIDE PLUNGER		
	1709382	340-113	13/8" CARBIDE PLUNGER		
	1709381	340-112	1 ¹ / ₄ '' Carbide Plunger		
	1709380	340-111	11/8" CARBIDE PLUNGER		
	1709379	340-110	1" CARBIDE PLUNGER		

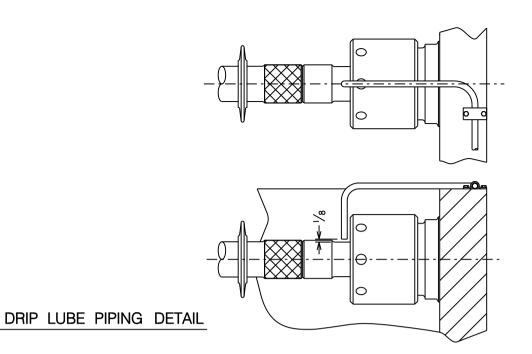
Р	LUNGERS FO	R DOUBLE TAPER CLAMPS	
		30T - 2L	
ITEM	PART NO.	DESCRIPTION	
8	1709376	21/4" CERAMIC PLUNGER	
	1709375	2" CERAMIC PLUNGER	
	1709374	13/4" CERAMIC PLUNGER	
	1709373	11/2" CERAMIC PLUNGER	
		30T - 2H	
	1709373	11/2" CERAMIC PLUNGER	
	1709082	13/8" CERAMIC PLUNGER	NOT NATIONAL OILWELL VARCO
		11/4" CERAMIC PLUNGER	DOUBLE TAPER CLAMP
		11/8" CERAMIC PLUNGER	30T-2 PLUNGER PUMP
		1" CERAMIC PLUNGER	SIZE REFERENCE No. DRAWING No. 1709532
		15/16" CERAMIC PLUNGER	SCALE 1/2 EST WT SHEET 1 OF 1

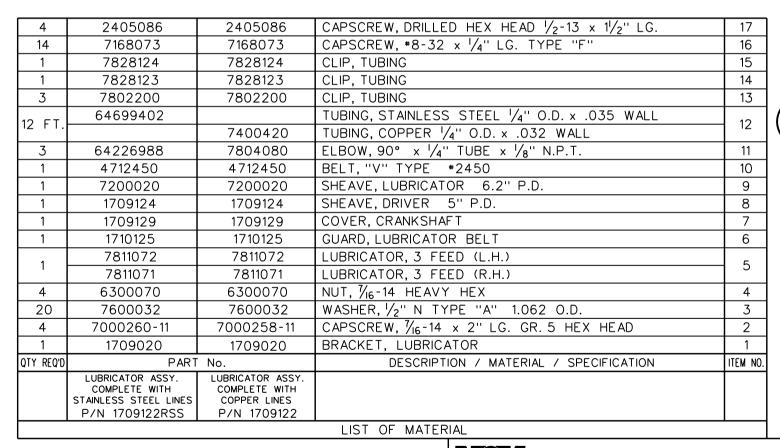
	BILL OF MATERIAL					
ITEM	PART NO.	DESCRIPTION				
1	340-020	INTERMEDIATE ROD, S.S.				
2	1709018	BAFFLE, INTERMEDIATE ROD				

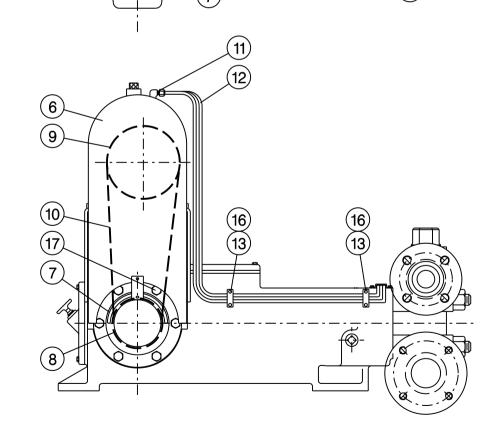


	THREADED PLUNGERS						
	30T - 2L						
ITEM	* PART NO.*	★ PART NO. ★ PART NO. DESCRIPTION					
3	1709046	340-159	21/4" CARBIDE PLUNGER				
	1709045	340-158	2" CARBIDE PLUNGER				
	1709044	340-156	1¾" CARBIDE PLUNGER				
	1709043	340-154	11/2" CARBIDE PLUNGER				
	30T - 2H						
	1709043	340-154	11/2" CARBIDE PLUNGER				
	1709042	340-153	13/8" CARBIDE PLUNGER				
	1709041	340-152	11/4" CARBIDE PLUNGER				
	1709040 L	L340-151	11/8" CARBIDE PLUNGER				
	1709039	340-157	1" CARBIDE PLUNGER				
	1709038	340-155	¹⁵ / ₁₆ " CARBIDE PLUNGER				

	THRE	EADED PLUNGERS	
		30T – 2L	
ITEM	PART NO.	DESCRIPTION	
3	1709081 21/4" CERAMIC PLUNGER		
	1709080	2" CERAMIC PLUNGER	
	1709079	1¾'' CERAMIC PLUNGER	
	1709078	11/2" CERAMIC PLUNGER	
	30T – 2H		* LISTED PART NO.'S WERE PREVIOUSLY HARD COAT PLUNGERS
	1709078	11/2" CERAMIC PLUNGER	
		13/8" CERAMIC PLUNGER	NO NATIONAL OILWELL VARCO
		1 ¹ / ₄ '' CERAMIC PLUNGER	TITLE PLUNGER/INTERMEDIATE ROD ASSY. THREADED PLUNGER
		11/8" CERAMIC PLUNGER	30T-2 PLUNGER PUMP
		1" CERAMIC PLUNGER	SIZE REFERENCE No. DRAWING No. 1709533
		¹⁵ / ₁₆ " CERAMIC PLUNGER	SCALE 1 / 2 EST WT SHEET 1 OF 1







(11) (12)

(12)

(14)(16)

(15)(16)

432

432

(6)

NOTE:

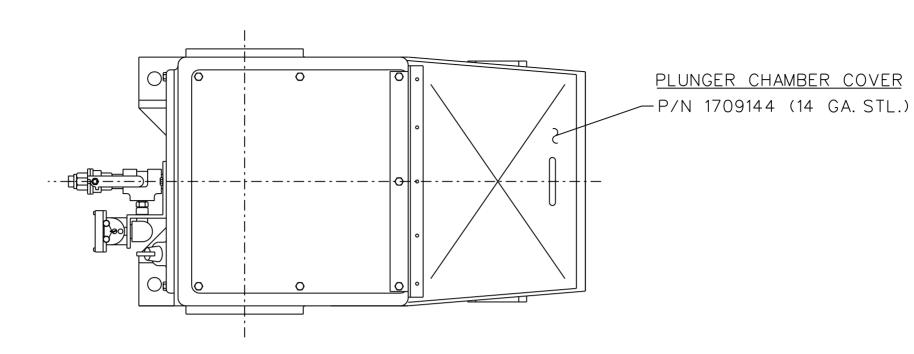
R.H. LUBRICATOR SHOWN L.H. OPPOSITE

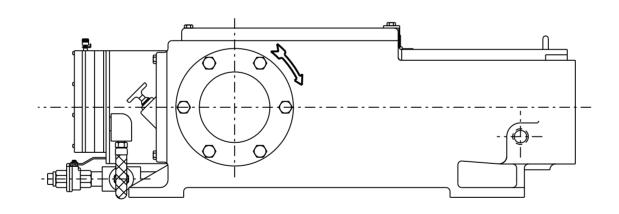
NATIONAL OILWELL VARCO

LUBRICATOR ASSEMBLY PIPING
3-FEED LUBRICATOR (R.H. OR L.H.)
30T-2 TRIPLEX PLUNGER PUMP

SIZE REFERENCE NO. DRAWING NO. REV

SIZE REFERENCE No. DRAWING No. 1709534 REV
SCALE 1/8 EST WT SHEET 1 OF 1





OIL LEVEL SWITCH ASSY.
(TYPICAL ARRANGEMENT)
MURPHY L-129 SHOWN

SWITCH MODEL, LOCATION & PIPING ARRANGEMENT WILL VARY DEPENDING ON APPLICATION



OPTIONAL ACCESSORIES
30T-2 TRIPLEX PLUNGER PUMP

SIZE REFERENCE No. DRAWING No. 1709535

SCALE NONE EST WT

SHEET 1 OF 1

18

X173706 - ROD, CONN. CPT w/NEEDLE BRG. STRAIGHT TYPE (ALUM.)

X173707 - PIN, CROSSHEAD - NEEDLE BRG.

49011847 - ROD, CONN. CPT w/NEEDLE BRG. SLANT TYPE (ALUM.)

49011846 - PIN, CROSSHEAD - NEEDLE BRG.

49011848 - CROSSHEAD, NEEDLE BRG.

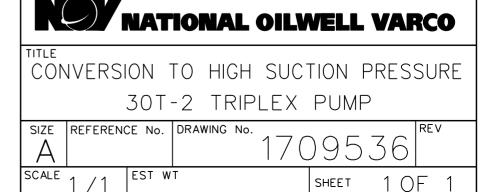
49011803 - ROD, CONN. CPT w/NEEDLE BRG. DUCTILE IRON

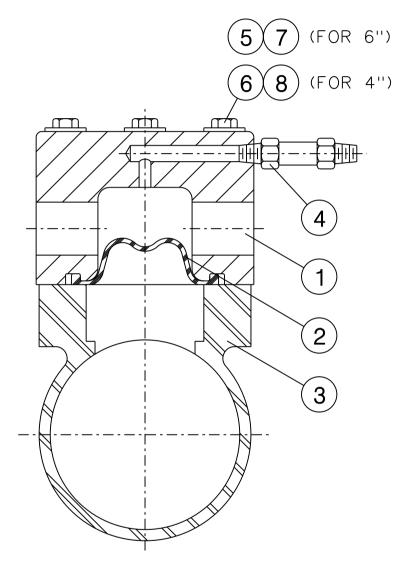
MISC. (NOT FOR HIGH SUCTION PRESSURE)

49011801 - RIFLE DRILLED CRANKSHAFT

G1709514 - SLANT CUT D.I. ROD

G1709517 - CRANK END BEARING





(14	7600020	WASHER, $\frac{5}{16}$ " (FOR 4")	14
	18	7600032	WASHER, $\frac{1}{2}$ " (FOR 6")	13
	14	7000157-11	CAPSCREW, 5/6-18 x 1" LG. (FOR 4")	12
.	18	7000304-11	CAPSCREW, $\frac{1}{2}$ -13 x 1 $\frac{1}{4}$ " LG. (FOR 6")	11
*	1	1712218	GASKET, BLANKING PLATE (FOR 6")	10
	1	6000004	GASKET, BLANKING PLATE (FOR 4")	10
	1	1712217	PLATE, BLANKING (FOR 6")	
	_ 1	X17-1569	PLATE, BLANKING (FOR 4")	9
	14	7600020	WASHER, 5/16" (FOR 4")	8
	18	7600032	WASHER, $\frac{1}{2}$ " (FOR 6")	7
	14	7000168-11	CAPSCREW, $\frac{5}{16}$ -18 x $3\frac{3}{4}$ " LG. (FOR 4")	6
	18	7000316-11	CAPSCREW, $\frac{1}{2}$ -13 x 4" LG. (FOR 6")	5
			CHECK VALVE, $\frac{1}{8}$ " (FOR 4" & 6")	4
	1	1712251	6" PIPE BODY	_ 3
	1	1712250	4" PIPE BODY	٦ ٥
	1	1712327	6" DIAPHRAGM	_ 2
	1	1712262	4" DIAPHRAGM	
	1	1712328	6" DAMPENER	
	1	1712243	4" DAMPENER	I
		1712253	DAMPENER COMPLETE - 6" (28" LG.)	
		1712252	DAMPENER COMPLETE - 4" $(25\frac{1}{2}$ " LG.)	
	QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO
			LIST OF MATERIAL	

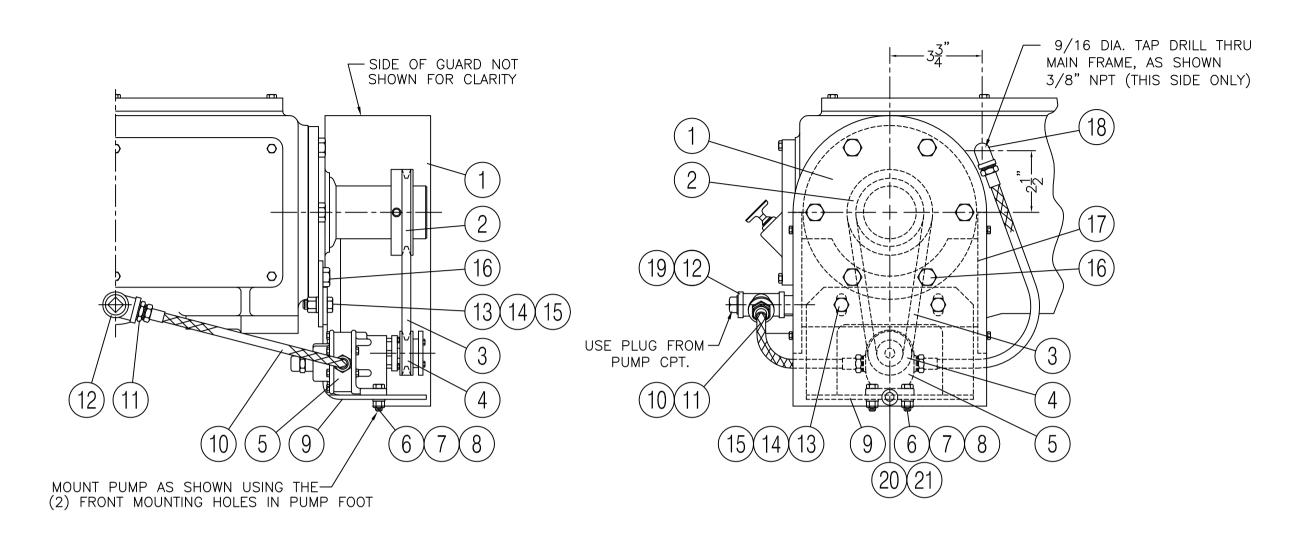
NOY NATIONAL OILWELL VARCO

IN-LINE SUCTION DAMPENER (WELD-ON)
PLUNGER PUMPS

SIZE REFERENCE No. DRAWING No. 1709537 REV

SCALE 1 / 2 EST WT SHEET 1 OF 1

* L/M FOR BLANKING PLATE ASSEMBLY ITEMS #9 THRU #14 ARE NOT SHOWN



	1	7818231	SCREW, TAPIT #10 X 1/2	21				
	1	7600012	WASHER, 1/4" SPRING	20				
	1	6817066	NIPPLE, 3/4" X CLOSE PIPE	19				
	1	6829003	ELBOW, STREET 3/8" x 90° 150#	18				
	1	X171942	PLATE, MOUNTING — AUX. LUBE	17				
	2	2405083	CAPSCREW, $5/8 - 11 \times 1 3/4$ LG. DRILLED HEX HEAD	16				
	2	7602050	WASHER, 1/2" SPRING	15				
	2	6300081	NUT, $1/2 - 13$ HEX	14				
	2	7000304-11		13				
	1	6890006	TEE, 3/4" 150# — SERVICE	12				
	1	6800061	BUSHING, PIPE - 3/4" (M) x 3/8" (F)	11				
	2	6110007	HOSE ASSEMBLY, 3/8" x 19" LG.	10				
	1	1709285	BRACKET, LUBE PUMP	9				
	2	7619041	WASHER, 3/8" SPRING	8				
	2	6300062	NUT, $3/8 - 16$ HEX	7				
	2	7000209-11	, ,	6				
	1	7815070	PUMP, B&S $\#1$ WORV MODEL 713-1-1	5	но			
	1	7200004	SHEAVE, PUMP (3.5" O.D.—1A)	4	TITL			
	1	4701026	BELT, A-26	3				
	1	1709124	SHEAVE, DRIVER (4.0" P.D.)	2	SI			
*	1	1709284	GUARD, LUBE PUMP	1]			
'	QTY REQ'D	PART NO.	DESCRIPTION	ITEM NO.	SCA			
		LIST OF MATERIAL						

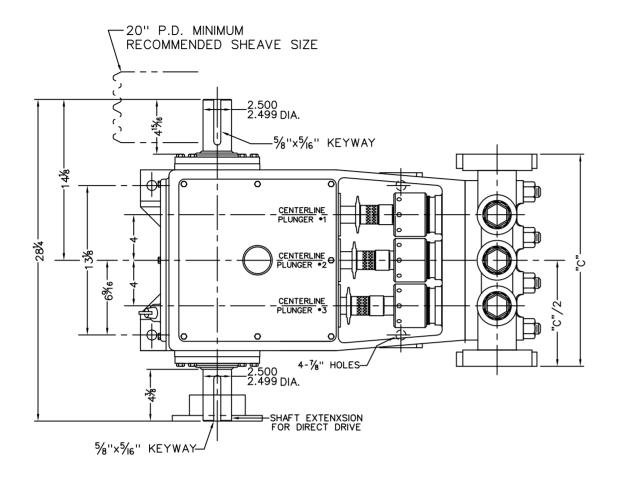
* USE LUBE PUMP GUARD, C/N 1709286 WHEN LUBRICATOR IS ADDED

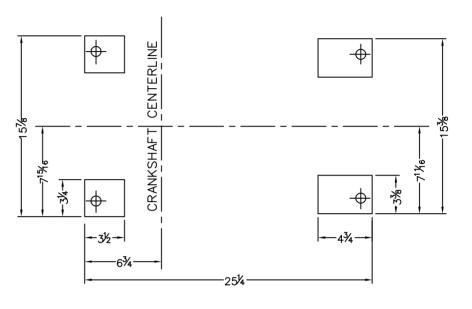
ROY NATIONAL OILWELL VARCO

HOUSTON, TEXAS U.S.A.	ENGINEE	ERING, McALESTER,	OKLAHOMA
	SYSTEM — S RIPLEX PLUN		
SIZE REFERENCE No.	17095	38	REV
SCALE - /4 - EST W	Τ	4 6	\

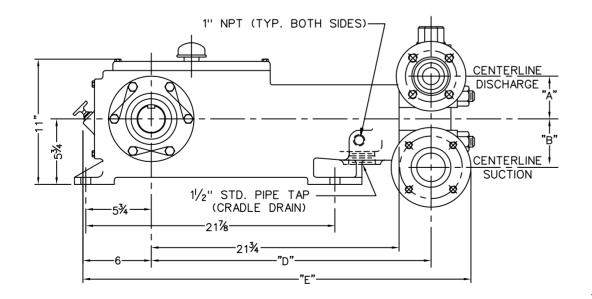
ALE 3/16 EST WT SHEET 1 OF 1







PUMP FOOTPRINT

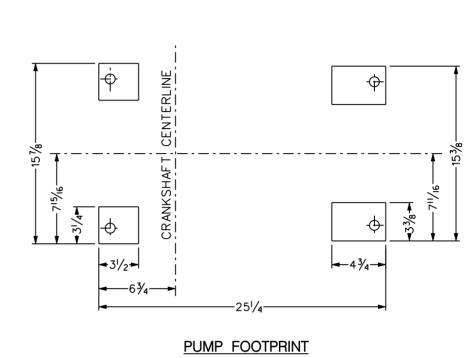


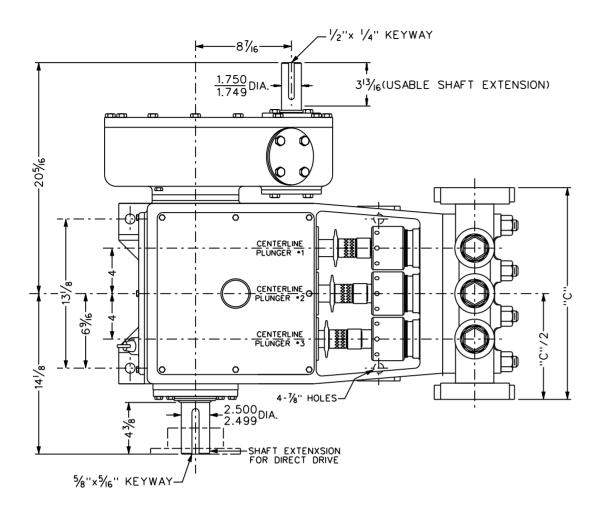
PUMP TYPE	DISCHARGE CONNECTIONS	SUCTION CONNECTIONS	''A''	''B''	''C''	''D''	"E"
30T-2L THREADED	1½" N.P.T.	2½" N.P.T.	3¾	41/4	15¾	24%	32 1/8
30T-2L FLANGED	1½" API- 2,000* R.J.	$2\frac{1}{2}$ " ANSI 150# F.F.	3¾	41/4	18 ¹ / ₄	24%	341/16
30T-2H	1" ANSI 2,500# R.J.	2" ANSI 300# F.F.	35/8	4	171/2	245/16	33%

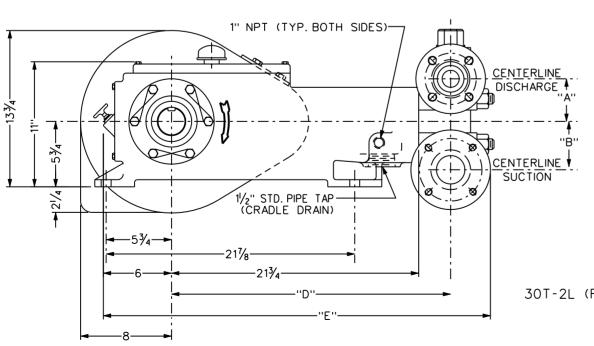
30T-2L (FLANGED) MODEL SHOWN

HATTORIAL GILWELL VARCO								
HOUSTO	N, TEXAS U.S.			DIG	NEETHNO, L	MALESTE	R, G	LAHOMA
TITLE	١	30T	UTLINE D -2L TRIPL OUT GEA	EX P	UMP	R		
SIZE	REFERENC	DE No.	DRAWING No.	17	095	39		REV
SCALE	3/16	EST WI	ı		SHEET	1	01	F 1









PUMP TYPE	DISCHARGE CONNECTIONS	SUCTION CONNECTIONS	''A''	"B"	''C''	''D''	"E"
30T-2L THREADED	1½" N.P.T.	2½" N.P.T.	3¾	41/4	15¾	24%	32 1/8
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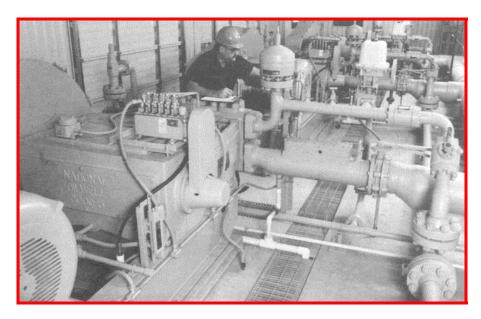
30T-2L (FLANGED) MODEL SHOWN

	NATIONAL	OILWELL VARCO	
I E			_

OUTLINE DRAWING
30T-2 TRIPLEX PUMP
WITH GEAR REDUCER

SIZE REFERENCE No. DRAWING No. 1709540 REV SCALE 3/16 EST WT SHEET 1.0F 1





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