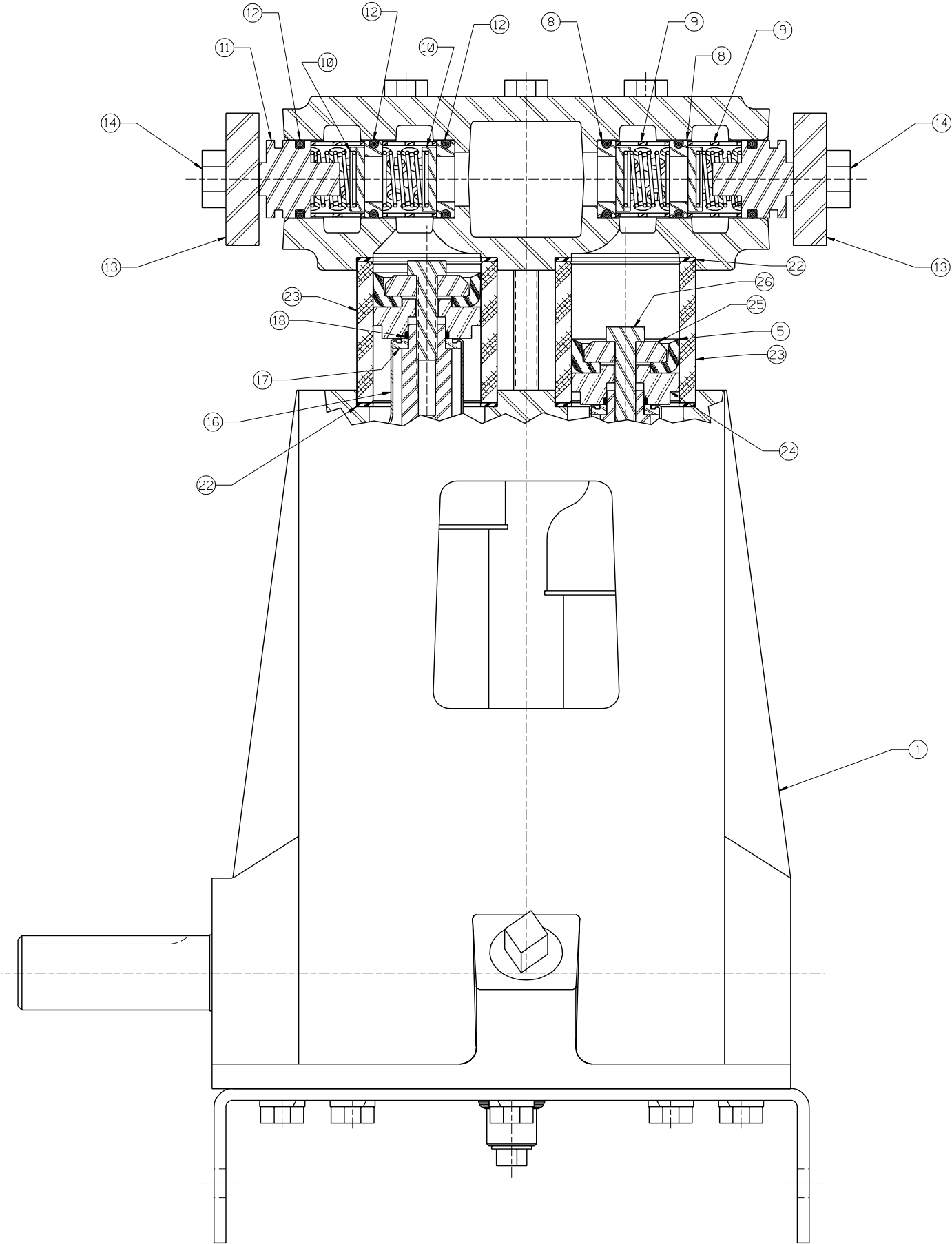
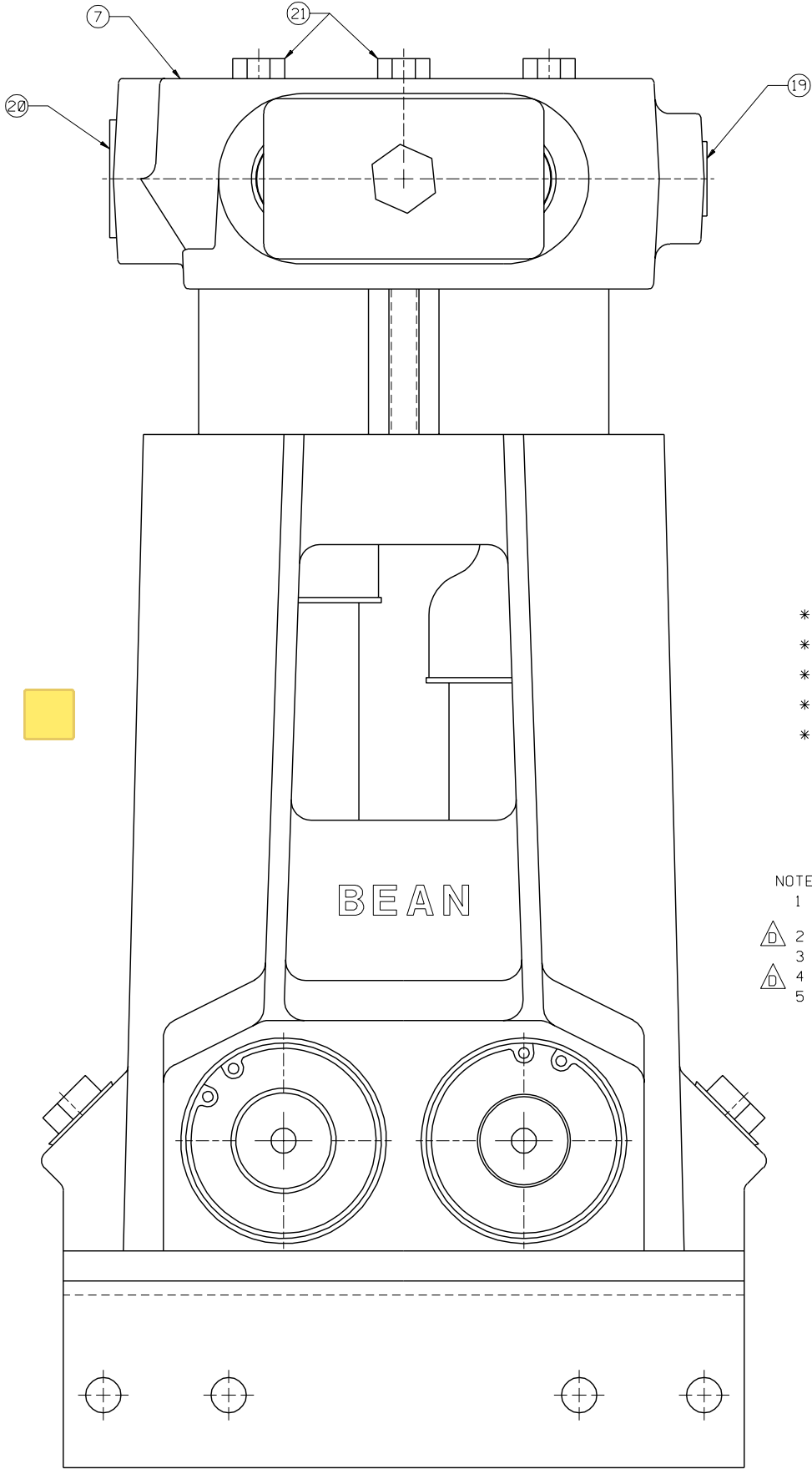




* THESE COMPONENTS ARE LOCATED IN THE FLUID CYLINDER GROUP, ITEM ②
** THESE COMPONENTS ARE LOCATED IN THE ATTACHING GROUP, ITEM ③
*** THESE COMPONENTS ARE LOCATED IN THE CYLINDER GROUP, ITEM ④



ITEM	NO. REQD	PART NO.	PART NAME
①	1	P510889	POWER END: HEAVY DUTY
②	1	5260309	FLUID CYLINDER GROUP:
③	1	5273638	ATTACHING GROUP:
④	2	5273629	CYLINDER GROUP:
⑤	4	5257807	CUP: 1⅝" DIA, CARBOXILATED NITRILE FABRIC
⑥	1	5266225	LIT KIT:
* ⑦	1	5256139	FLUID CYLINDER: NITRIDED
* ⑧	8	5260142	VALVE SEAT: 450 SST
* ⑨	8	1219610	CAGE: 302 SST
* ⑩	8	5253499	DISC & SPRING ASSEMBLY: 450 SST
* ⑪	4	1219614	VALVE COVER:
* ⑫	12	1177394	O-RING: 1⅜" OD X ⅛" NOM., BUNA-N
* ⑬	2	1255887	VALVE COVER CLAMP:
* ⑭	2	1100064	HEX HD CAP SCREW: ½-13 X 1½" LG.
* ⑮	1	1109987	PLUG: ¼" PIPE (NOT SHOWN)
** ⑯	4	1279148	UMBRELLA: BLACK
** ⑰	4	1269388	UMBRELLA WASHER:
** ⑱	4	1101339	O-RING: 1½" OD X ⅛" NOM., BUNA-N
** ⑲	1	1177200	CAPLUG: INT. 12
** ⑳	1	1177202	CAPLUG: INT. 17S
** ㉑	4	P522757	HEX HD CAP SCREW: ⅜-16 X 5.5 LG.
*** ㉒	8	A91684	CYLINDER GASKET:
*** ㉓	4	1241364	CERAMIC CYLINDER:
*** ㉔	4	1282557	PACKING HOLDER:
*** ㉕	4	5257986	PACKING WASHER:
*** ㉖	4	1284516	HEX HD CAP SCREW: ⅝-18 X 1½" LG.

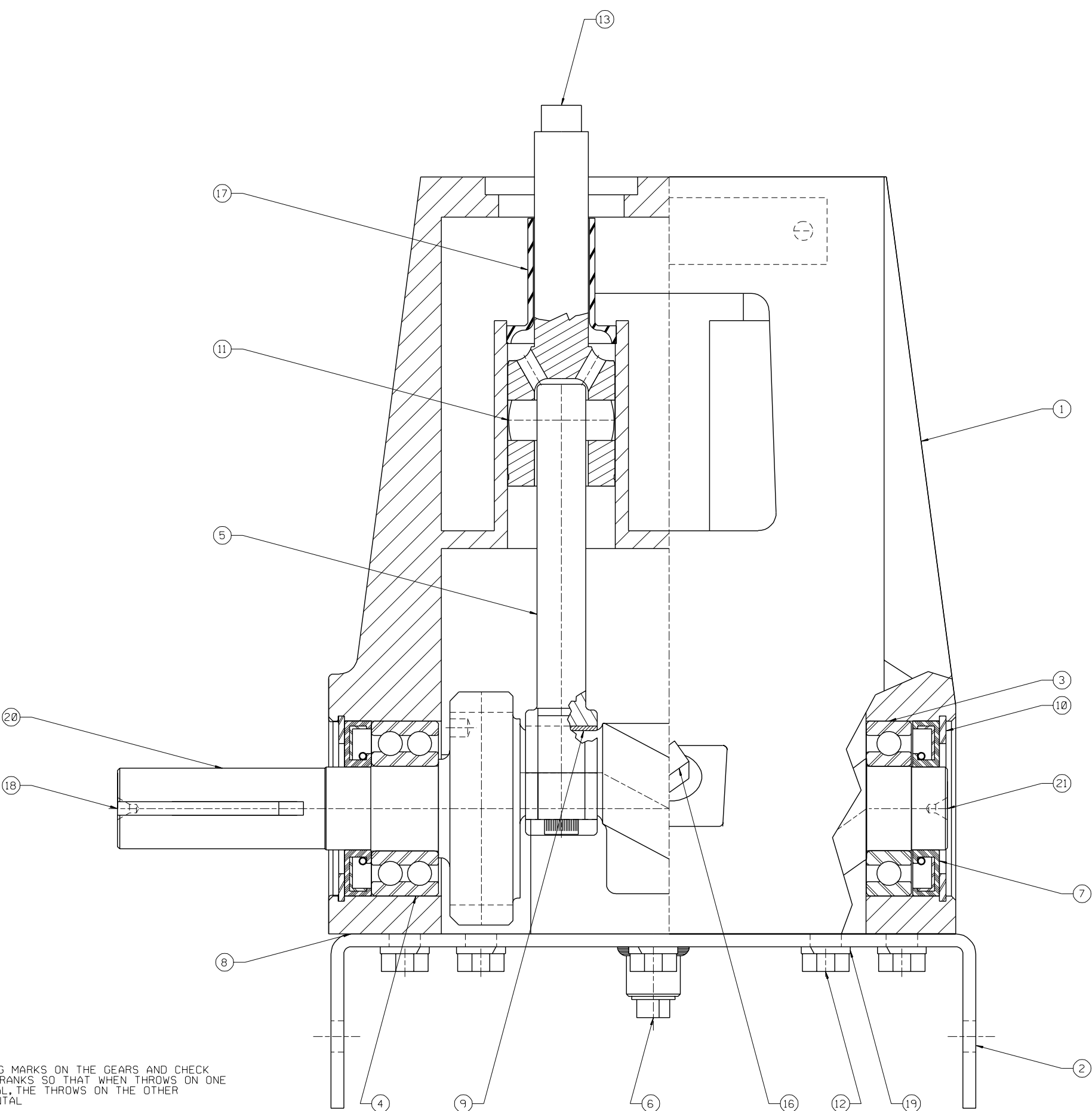
NOTES:
1 TORQUE ITEM 21 TO 35 FT-LBS; ITEM 14 TO 35 FT-LBS
ITEM 26 TO 10 FT-LBS
⚠ 2 TEST PER FMC ENGR SPEC AS-17.
3 RETORQUE ITEM 21 AFTER TEST.
⚠ 4 STAMP NAMEPLATE PER FMC ENGR SPEC AS-21.
5 PAINT PER ENGR SPEC CP-20.

Shijiazhuang Dongli
Petroleum Machinery
Co.,Ltd

C	REV BOM	501299	SJK	02-13-04
B	REV NOTES	5004866	SJK	07-18-00
D	REVISE NOTES	5014421	BKM	07-27-05
REV	WAS	ECN	BY	DATE
A	NEW ISSUE	✓	SJK	03-17-00
	WAS	ECN	BY	DATE

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Unless Otherwise Specified: Remove all burrs & sharp corners .005 R. All diameters concentric within .008 T.I.D. Angles ±1/2° .XX ±.015 .XXX ±.005 Finish 125 RMS All dimensions are in inches		PUMP ASSEMBLY E0413 NITRIDED W/1-¼ NPT X ¾ NPT FLUID END, CARBOX. NITRILE PISTON, DISC VALVE ASSEMBLIES	
RELEASED FOR PRODUCTION	ECN	DATE	SCALE: NONE
DRAWN	SJK	03-17-00	SIZE
CKD.	BKM	03-20-00	DRAWING NO.
APPD.	RMc	03-28-00	① P510904
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P510904



NOTES:
1 LINE UP THE TIMING MARKS ON THE GEARS AND CHECK THE POSITION OF CRANKS SO THAT WHEN THROWS ON ONE CRANK ARE VERTICAL, THE THROWS ON THE OTHER CRANK ARE HORIZONTAL
2 APPLY LIGHT OIL TO CONNECTING ROD BEARINGS, WRIST PINS AND CROSSHEADS

ITEM	NO. REQD	PART NO.	PART NAME
①	1	1273545	POWER FRAME:
②	1	1280633	MOUNTING BASE:
③	3	1104444	BALL BEARING: SINGLE
④	1	1104508	BALL BEARING: DOUBLE
⑤	4	P509546	CONNECTING ROD:
⑥	1	1101305	PLUG: 1/4" PIPE
⑦	4	1101095	OIL SEAL:
⑧	1	1273559	GASKET:
△B⑨	8	P510431	ROD BEARING:
⑩	4	1118553	RETAINER RING:
⑪	4	1219650	WRIST PIN:
⑫	12	1100068	HEX HD CAP SCREW: 3/8-16 X 3/4" LG
⑬	4	1216823	CROSSHEAD:
⑭	1	5277981	NAMEPLATE: (NS)
⑮	2	1187413	SELF-TAPPING SCREW: #4 X 3/8" LG (NS)
⑯	2	1105060	PLUG: 3/4" PIPE
⑰	4	1218743	SLEEVE:
⑱	1	1187577	KEY: 1/4" SQUARE, 1 3/4" LG
⑲	12	1177455	SPRING WASHER: 3/8
⑳	1	P510882	CRANKSHAFT: HD, DRIVE
㉑	1	P509560	CRANKSHAFT: HD, DRIVEN

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Unless Otherwise Specified: Remove all burrs & sharp corners .005 R. All diameters concentric unless .000 T.U.S. Angles ±1/2° .X ±.1 .XX ±.015 .XXX ±.005 Finish 125 RMS All dimensions are in inches		POWER END ASSEMBLY F/E04 HD	
B	REV BOM	5005482	DRG 11-27-00
A	NEW ISSUE	✓	SJK 03-15-00
REV	WAS	ECN	BY DATE
RELEASED FOR PRODUCTION		DRAWN	SJK 03-14-00
ECN		DATE	SCALE: NONE
		CKD.	BKM 03-28-00
		APPD.	RMc 03-28-00
		SIZE	DRAWING NO.
			P510889