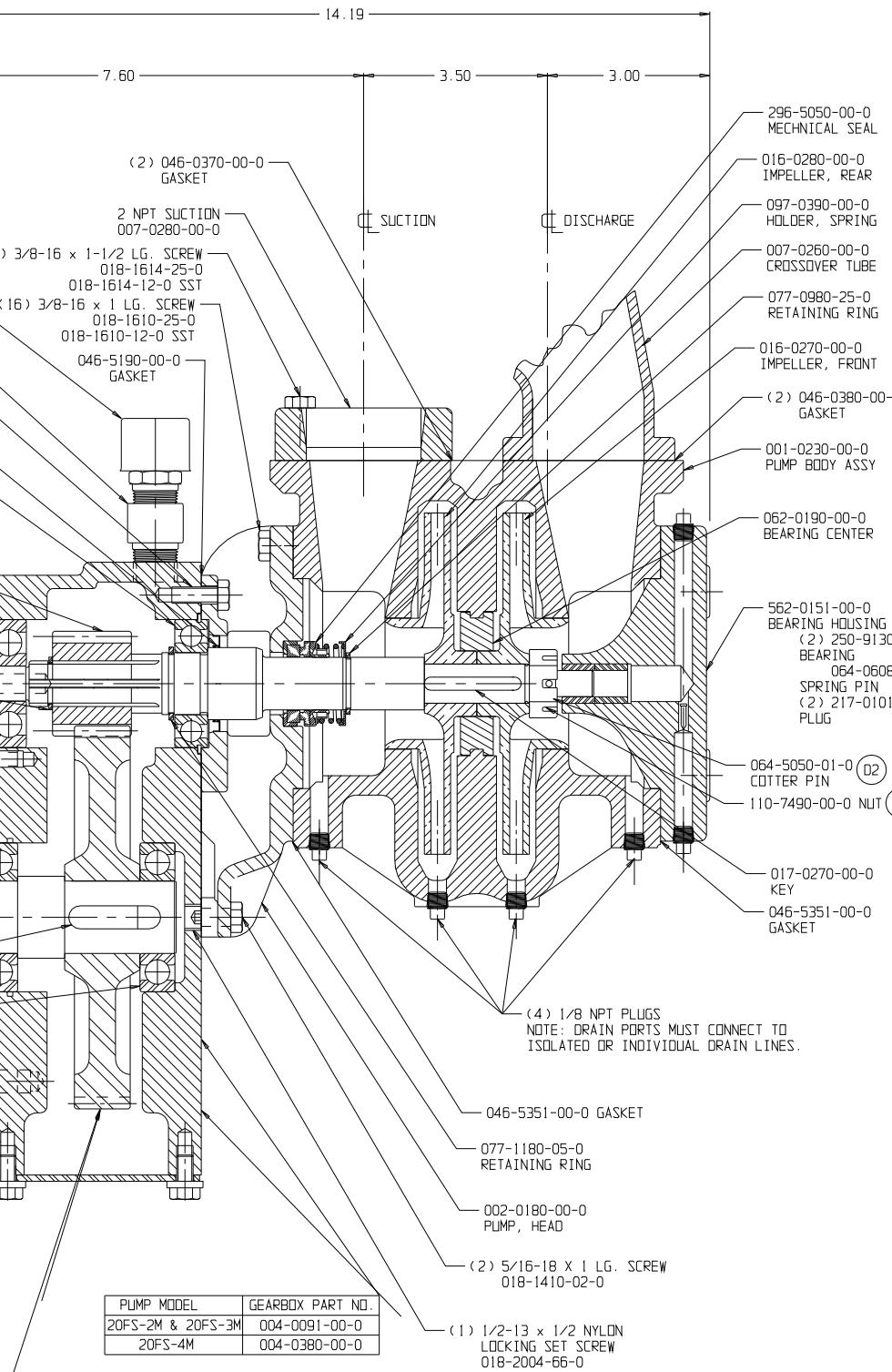


PUMP MODEL NUMBER	GEAR RATIO	DIMENSIONS		
		A	B	C
20FS-2M	2.00	20.13	3.44	8.50
20FS-3M	2.83	20.13	3.44	8.50
20FS-4M	3.94	21.13	4.44	9.50

PUMP MODEL	GEAR PART NO.	NO. OF TEETH
20FS-2M	031-0840-00-0	23
20FS-3M & 20FS-4M	031-0400-00-0	18

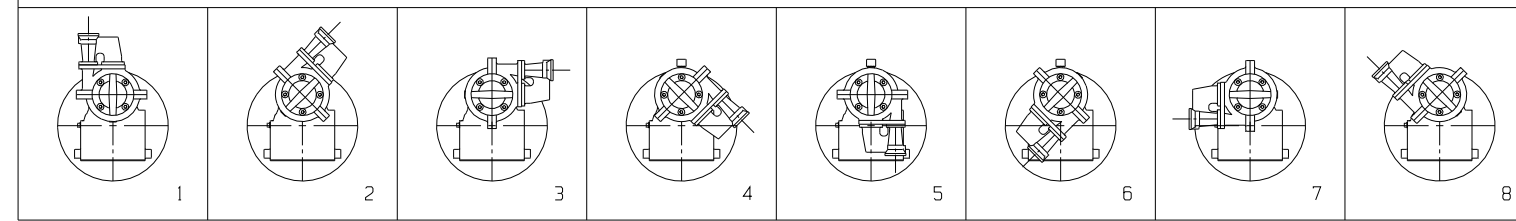
PUMP MODEL	ADAPTER PART NO.
20FS-2M & 20FS-3M	007-0341-00-0
20FS-4M	007-0351-00-0



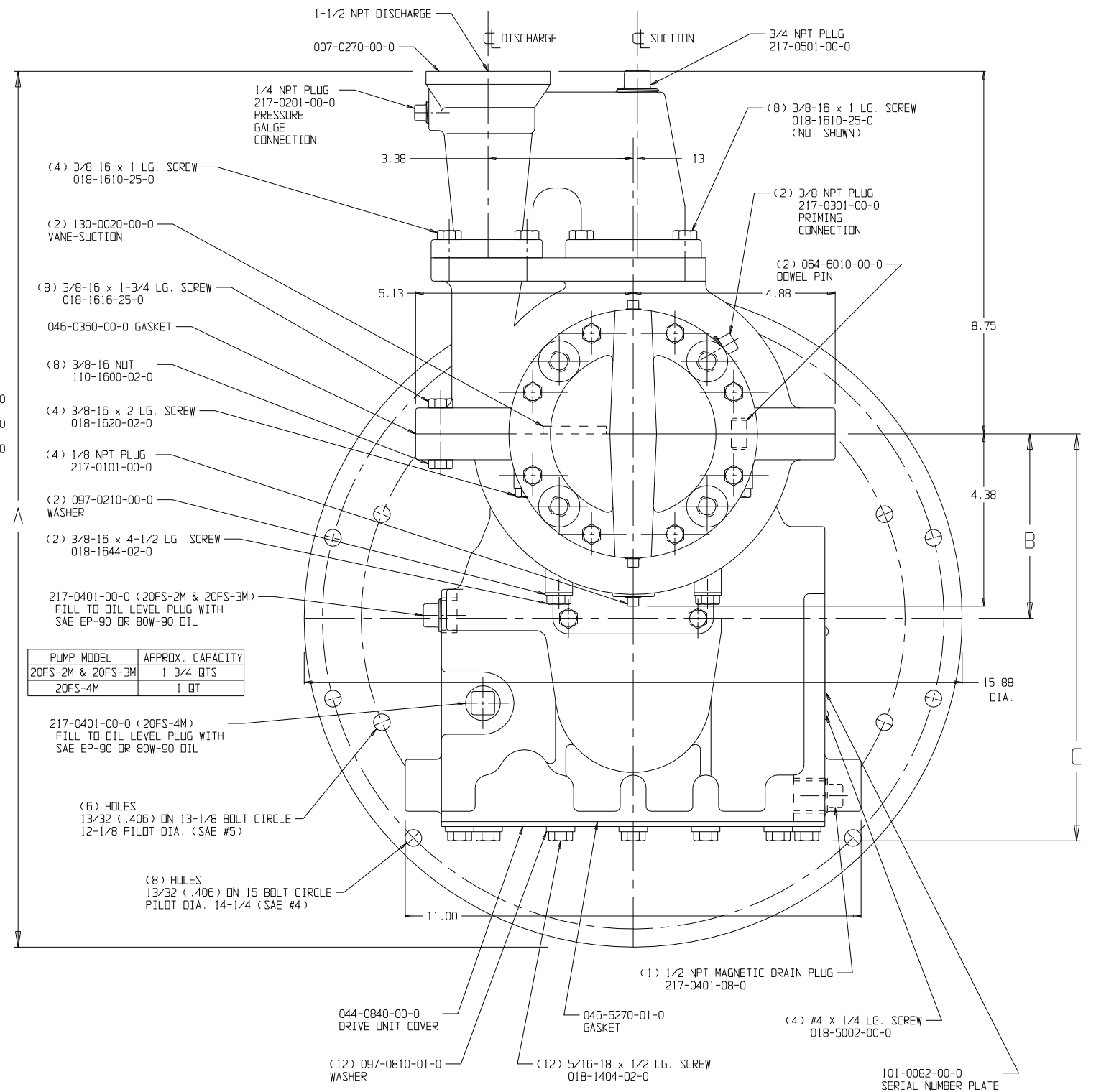
PUMP MODEL	GEARBOX PART NO.	NO. OF TEETH
20FS-2M	031-0851-00-0	46
20FS-3M	031-0361-00-0	51
20FS-4M	031-0371-00-0	71

20FS-2M
HALE TYPE 20FS-3M PUMP SERIES
20FS-4M

POSSIBLE POSITIONS OF PUMP DISCHARGE



SPECIFY ON ORDER DISCHARGE POSITION REQUIRED. WHEN DISCHARGE POSITION IS NOT SPECIFIED ON ORDER, POSITION No. 3 WILL BE SHIPPED.



PUMP MODEL	APPROX. CAPACITY
20FS-2M & 20FS-3M	1 3/4 QTS
20FS-4M	1 QT

217-0401-00-0 (20FS-4M)
 FILL TO OIL LEVEL PLUG WITH
 SAE EP-90 OR 80W-90 OIL

(6) HOLES
 13/32 (.406) ON 13-1/8 BOLT CIRCLE
 12-1/8 PILOT DIA. (SAE #5)

THIS PRODUCT AND ITS COMPONENTS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS AND THE OTHER PATENTS PENDING.

ECD NO	REV	CHANGED FROM	BY	DATE	APVD
00-713	B	UPDATED DRAWING, ADDED DESCRIPTIONS	TC	12-6-00	MAL
0444	C	UPDATED IMPELLER SHAFT HARDWARE	JRP	06-26-08	MAL
0746	D1	110-7490-00-0 WAS 110-2711-11-0	JRP	04-02-09	MAL
0746	D2	ADDED 064-5050-01-0	JRP	04-02-09	MAL



HALE PRODUCTS, INC.
 A Unit of IDEX Corporation
 Conshohocken, PA 19428 USA

NOT TO BE REPRODUCED OR USED TO MAKE OTHER DRAWINGS OR MACHINERY. DRAWN: CK, CHECKED: MS, DATE: 6-23-98, SIZE: E, SCALE: FULL