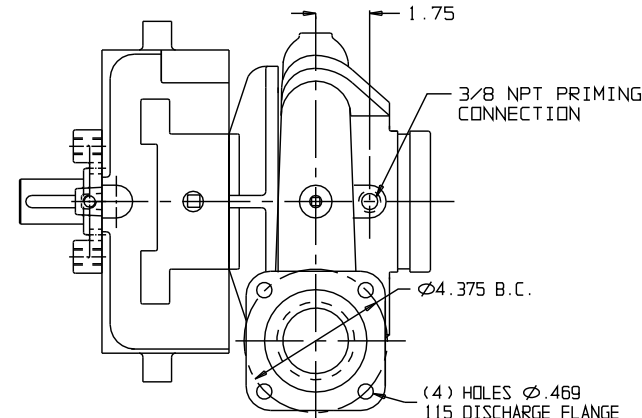


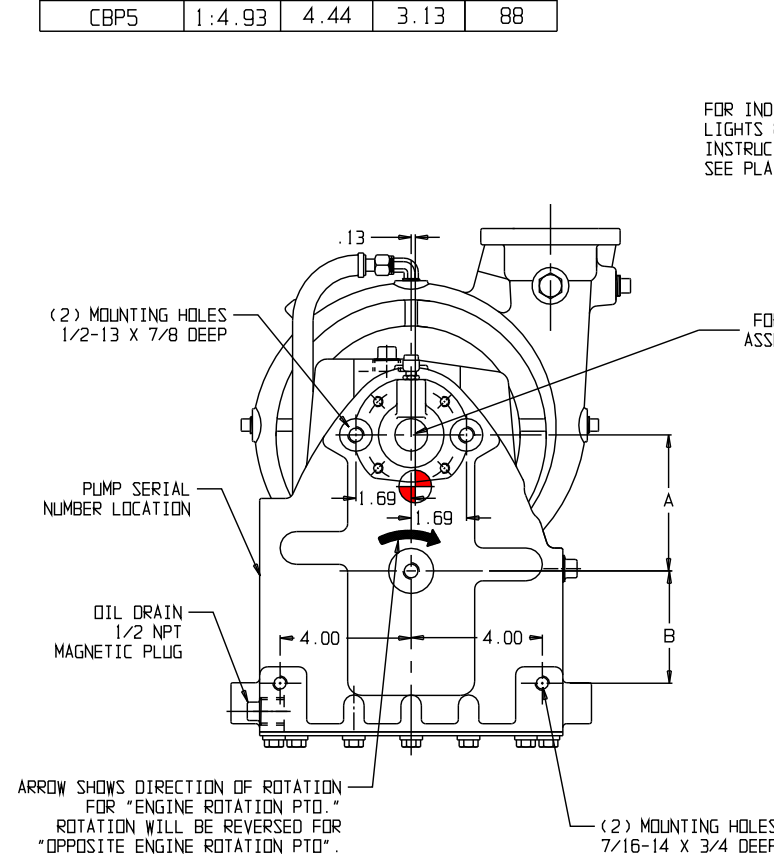
TOP VIEW SHOWING LOCATION OF DISCHARGE OPENING WITH PUMP ASSEMBLED FOR OPPOSITE ENGINE ROTATION POWER TAKE-OFF



TOP VIEW SHOWING LOCATION OF DISCHARGE OPENING WITH PUMP ASSEMBLED FOR ENGINE ROTATION POWER TAKE-OFF

PUMP TYPE	RATIO	DIMENSIONS		WT LBS
		A	B	
CBP2	1:2.00	3.44	4.13	82
CBP3	1:2.83	3.44	4.13	83
CBP4	1:3.94	4.44	3.13	86
CBP5	1:4.93	4.44	3.13	88

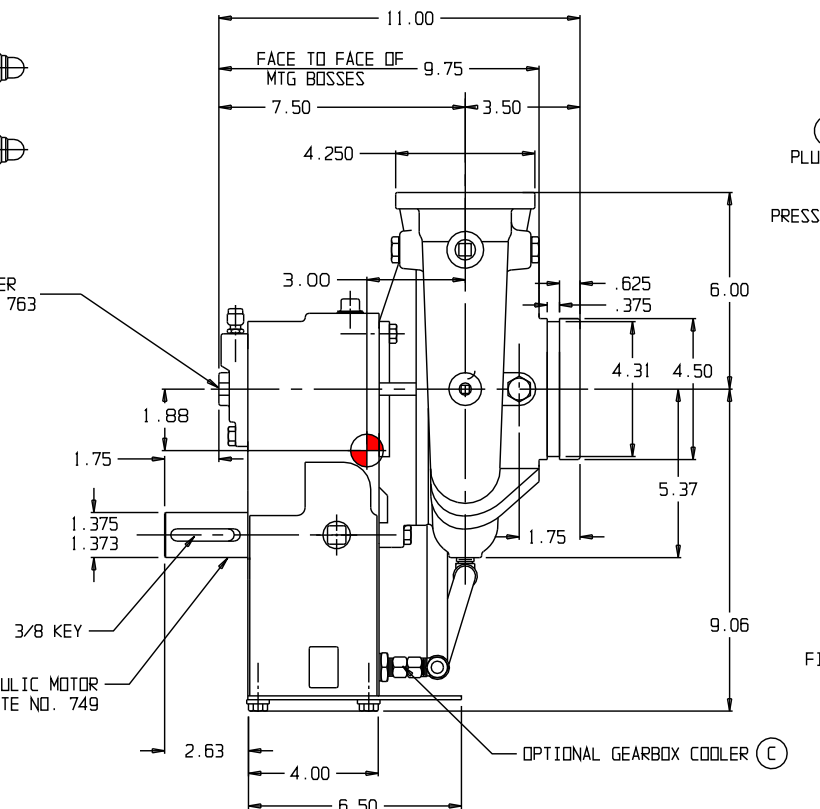
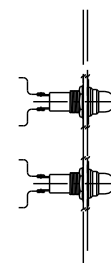
TO CONFORM TO NFPA 1901, APPARATUS MANUFACTURER MUST FURNISH A VISUAL INDICATOR AT THE DRIVERS POSITION WHEN THE PUMP POWER TAKE-OFF IS ENGAGED FOR PUMP AND ROLL OPERATION.



FOR INDICATOR LIGHTS & WIRING INSTRUCTIONS SEE PLATE NO. 746

FOR OPTIONAL TACHOMETER ASSEMBLY SEE PLATE NO. 763

FOR OPTIONAL HYDRAULIC MOTOR DRIVE SEE PLATE NO. 749



(C) REPRESENTS CENTER OF GRAVITY

HALE TYPE CBP SERIES PUMP

WARNING

EXCEEDING THESE LIMITS OR FAILURE TO FOLLOW THE RECOMMENDATIONS OUTLINED ON THIS DRAWING COULD DAMAGE THE PUMP AND RESULT IN PERSONAL INJURY.
MAX PUMP PRESSURE:
HYDRODYNAMIC = 400PSI
HYDROSTATIC = 500PSI
MAX POWER INPUT FOR PUMPING = 100HP
MAX PUMP INPUT RPM =
PUMP RATIO 2.00 2.83 3.94 4.93
RPM 4060 2870 2060 1650
READ LIMIT CHART F-72 AND I-91 FOR ADDITIONAL DATA

VOLUTE CAN BE MOUNTED IN ANY POSITION SHOWN, POSITION 1 OR 9 SUPPLIED BY HALE.
PRIMING AND DRAIN TAPS NECESSARY FOR MOUNTINGS IN ANY POSITION ARE STANDARD.

(1) VOLUTE POSITIONS 5,6,12 & 13 NOT AVAILABLE IF GEARBOX COOLER IS INSTALLED.

POSSIBLE POSITIONS OF PUMP DISCHARGE								
ENGINE ROTATION								
OPP. ENG. ROTATION								

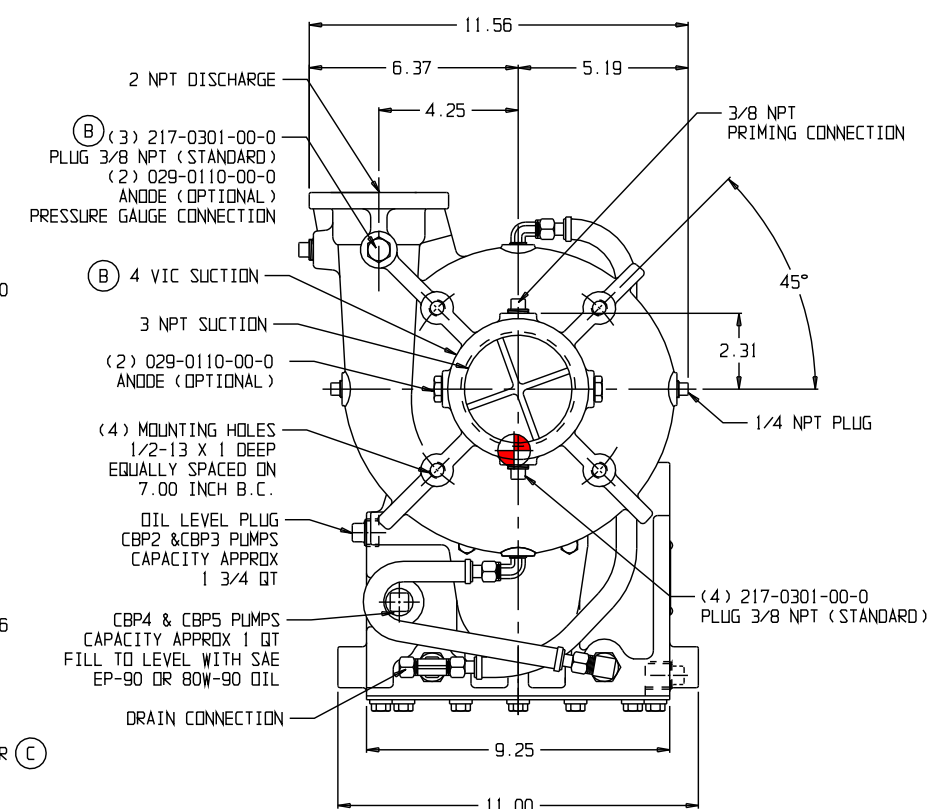


PLATE NO. 410DD

ECO NO	REV	CHANGED FROM	BY	DATE	APVD	ECO NO	REV	CHANGED FROM	BY	DATE	APVD
1108	D	VOLUTE POSITIONING UPDATE	CTG	01-12-12	JRP	97-168	A	REDRAWN ON CAD - UPDATED	JH	08-12-97	MD
						0444	B	ADDED 1 1/2 INCH FLANGE AND VIC, ADDED BOSSES FOR 3/8 NPT TAPS, REMOVED 1/4 NPT TAP	JRP	06-26-08	MAL
						0960	C1	ADDED CENTER OF GRAVITY	MM	03-09-10	PRW
						0960	C2	ADDED GEARBOX COOLER	JRP	03-09-10	PRW

HALE		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 CHECKED	RET RET	DATE 3-19-95 SCALE: HALF