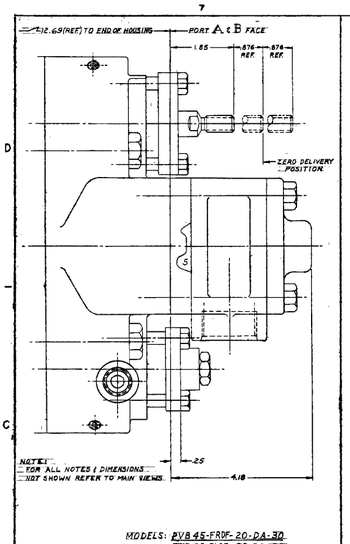
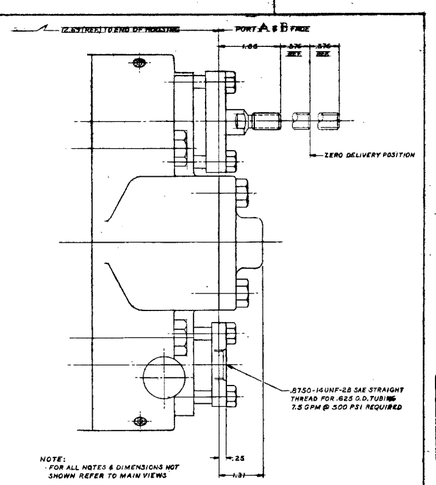


NOTE:
FOR ALL NOTES & DIMENSIONS NOT SHOWN REFER TO MAIN VIEWS.

MODELS: PVB45-FRDF-20-DA-30
PVB45-FLDF-20-DA-30

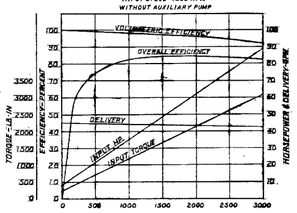


NOTE:
FOR ALL NOTES & DIMENSIONS NOT SHOWN REFER TO MAIN VIEWS

MODELS: PVB45-FRDF-20-D-30
PVB45-FLDF-20-D-30

PERFORMANCE CHARACTERISTICS

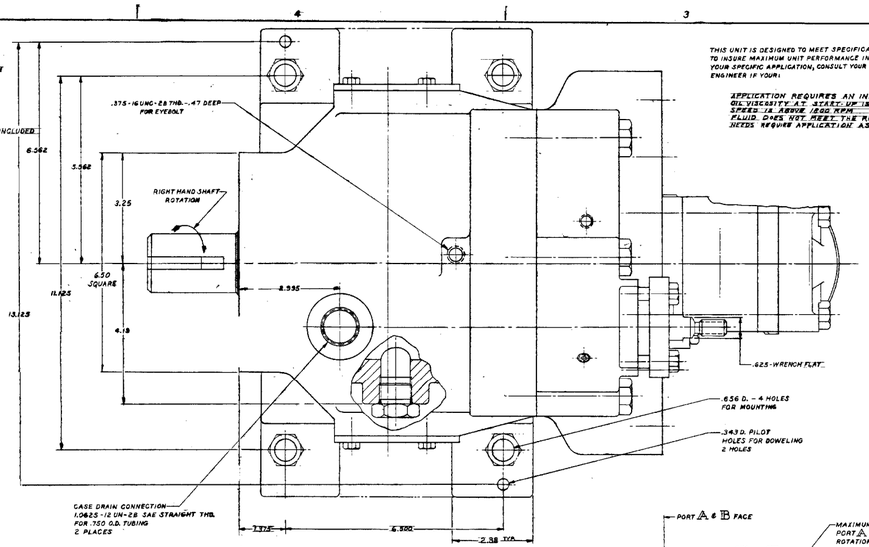
INPUT SPEED-1800 RPM
WITHOUT AUXILIARY PUMP



TYPICAL MODEL CODE

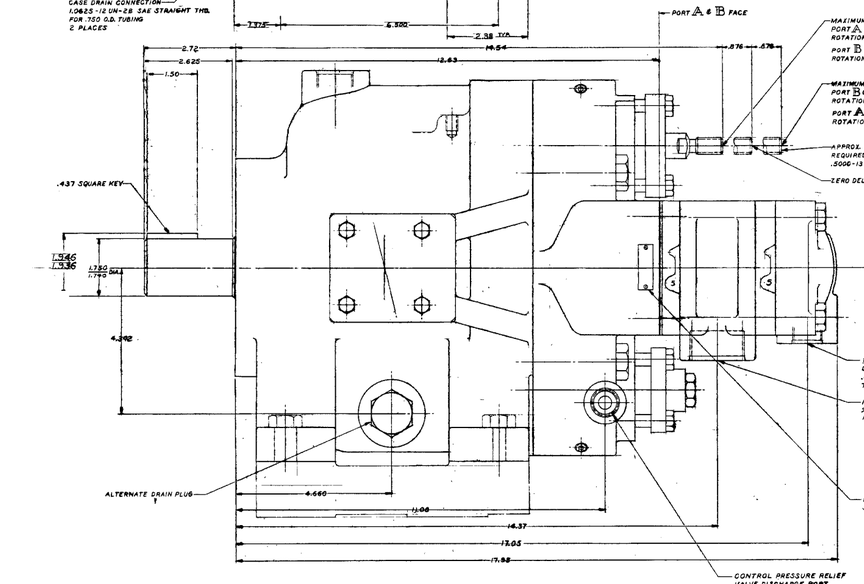
PVB 45 - FRDF - 20 - DA(A) - 30

- PUMP
- VARIABLE DISPLACEMENT
- INLINE PISTON UNIT SERIES
- GPM RATING AT 1800 RPM
- MOUNTING TYPE: F-INTERNAL FEET (OMIT FOR FLANGE MOUNTING)
- SHAFT ROTATION: R-RIGHT HAND-CW; L-LEFT HAND-CCW
- SWASH PLATE MOVEMENT: D-BOTH SIDES OF CENTER
- PORT CONNECTION: SAE 4-BOLT FLANGED PORTS
- DESIGN NUMBER-PUMP: SUBJECT TO CHANGE-INSTALLATION DIMENSIONS REMAIN AS SHOWN FOR DESIGN NUMBERS 20 THRU 23
- CONTROL: D-HYDROMECHANICAL CONTROL
- OPTIONS: A-CONTROL PUMP ONLY-OMIT WHEN NOT INCLUDED
- A-SUPERCHARGE PUMP: OMIT WHEN NOT INCLUDED
- DESIGN NUMBER-CONTROL: SUBJECT TO CHANGE-INSTALLATION DIMENSIONS REMAIN AS SHOWN FOR DESIGN NUMBERS 30 THRU 33

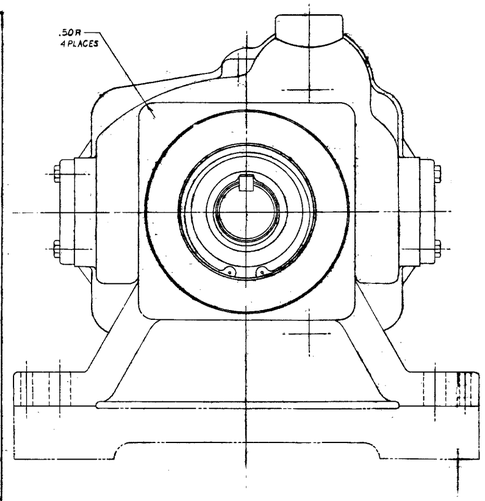


THIS UNIT IS DESIGNED TO MEET SPECIFICATIONS AS OUTLINED. TO INSURE MAXIMUM UNIT PERFORMANCE IN CONJUNCTION WITH YOUR SPECIFIC APPLICATION, CONSULT YOUR DANFOSS APPLICATION ENGINEER IF YOUR:

APPLICATION REQUIRES AN INDIRECT DRIVE
OIL VISCOSITY AT START-UP IS IN EXCESS OF 6,00 SSU
SPEED IS ABOVE 1800 RPM
FLUID DOES NOT MEET THE REQUIREMENTS OF 1286-S
NEEDS REQUIRE APPLICATION ASSISTANCE



MODELS: PVB45-FRDF-20-DAA-30
PVB45-FLDF-20-DAA-30



GENERAL DATA

THIS UNIT IS OF THE AXIAL PISTON, VARIABLE DISPLACEMENT, INLINE DESIGN. DISPLACEMENT IS CONTROLLED BY A STEM SERVO WHICH OPERATES BOTH SIDES OF CENTER PERMITTING BI-DIRECTIONAL FLOW CHARACTERISTICS. SHAFT ROTATION IS AS TABULATED AND IS NOT REVERSIBLE.

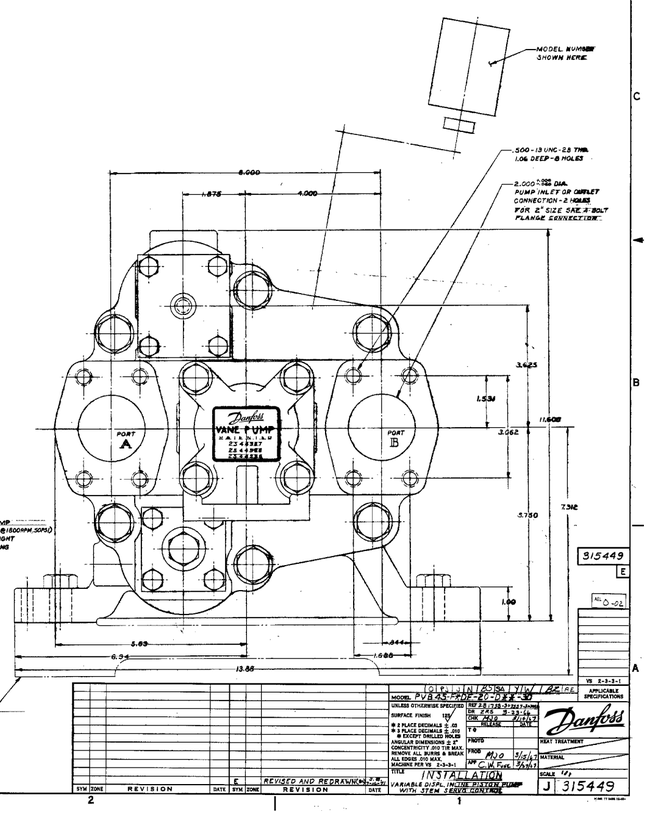
INSTALLATION

A FULL SIZE UNRESTRICTED CASE DRAIN LINE MUST BE CONNECTED FROM THE UPPERMOST DRAIN PORT DIRECTLY TO RESERVOIR IN SUCH A MANNER THAT THE HOUSING REMAINS FILLED WITH FLUID. PIPING OF DRAIN LINE MUST PREVENT SIPHONING. DRAIN LINE MUST TERMINATE BELOW RESERVOIR FLUID LEVEL.

OPERATING SPECIFICATIONS

THEORETICAL MAXIMUM DISPLACEMENT		3.76 CU.IN./REV.
OPERATING PRESSURE: (MAXIMUM)		3000 PSI.
OPERATING SPEED: (MAXIMUM)		2200 RPM.
CASE PRESSURE	NOT TO EXCEED	5 PSI.
MINIMUM INLET PRESSURE		50 PSI.
WEIGHT		230 LBS.
FILTRATION (PRESSURE OR RETURN LINE RECOMMENDED)		25 MICRONS
FILTRATION (INLET LINE)		149 MICRONS

FLUID MEDIUM

FLUID MUST MEET THE SPECIFICATIONS SHOWN ON DATA SHEET 1-256-S EXCEPT VISCOSITY AT START-UP SHOULD NOT EXCEED 6,00 SSU.

NOTE: ▽ THIS ADAPTER PLATE AND SCREWS ARE USED ON SAE 4 HOLE MODELS ONLY, TO PROVIDE MOUNTING INTERCHANGEABILITY WITH -10 AND -11 DESIGN MODELS