AM 480 PUMP DRIVE

MAXIMUM INPUT POWER 700 KW (939 HP) FOR RATIO 1.00:1 @ 1800 RPM

QUALITY IS STANDARD:

- CAST IRON HOUSING
- CASE HARDENED AND GROUND SPUR GEARS
- BALL BEARINGS
- CASE HARDENED SHAFTS
- VITON SEALS ON INPUT SHAFT
- OUTPUT ROTATION OPPOSITE THE DIRECTION OF INPUT ROTATION
- GEAR RATIOS IDENTICAL ON ALL OUTPUTS
- MODULAR DESIGN

AM 480 TECHNICAL DATA

RATIO :1	MAXIMUM INPUT TORQUE N-m (lbf-ft)	MAX. OUTPUT TORQUE PER PUMP PAD N-m (lbf-ft)	MAXIMUM INPUT SPEED RPM	MAXIMUM OUTPUT SPEED RPM	OIL QUANTITY L (gal)
0.72	4400 (3245)	1600 (1180)	1700	2361	7.3 (1.93)
0.87	4000 (2950)	1750 (1291)	1800	2069	7.0 (1.85)
1.00	3800 (2803)	1900 (1401)	1800	1800	6.9 (1.82)
1.15	3490 (2574)	2000 (1475)	2000	1739	6.7 (1.77)

See reverse for selection procedures.

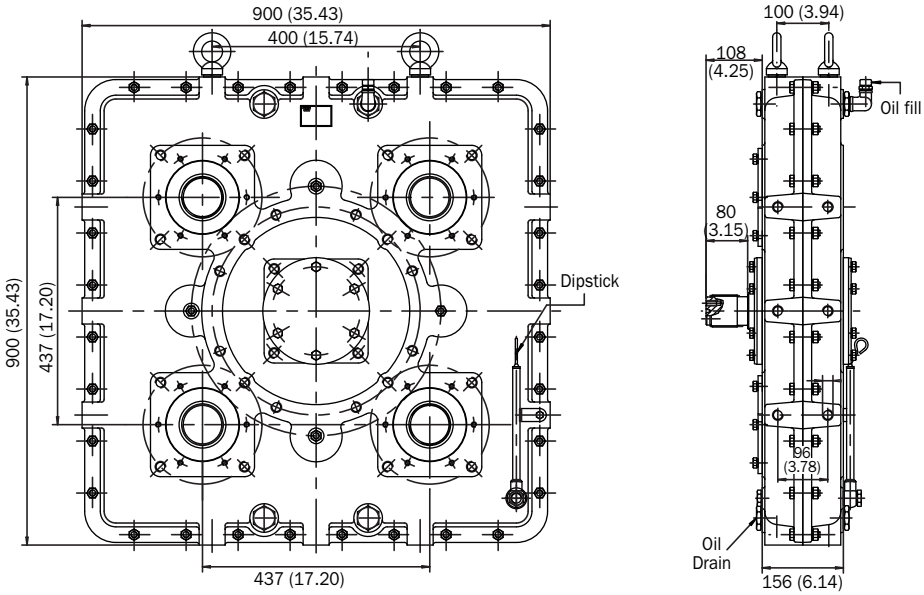
AM 480 DIMENSIONS

Basic Pump Drive
Weight: 350 kg (772 lb)
With SAE 1 Housing:
395 kg (871 lb)

Four additional pump pads available on input side of drive.

INPUT OPTIONS

SAE 1 Housing
65 mm cylindrical keyed shaft
Splined shaft



Maximum torque and maximum speed may be limited by clutch option.
Specifications subject to change without prior notice in the interest of continual product improvement.
Contact your local Twin Disc representative for engineering specifications.

PUMP DRIVE SELECTION PROCEDURE

1. Identify the number and type of hydraulic pumps to be applied.
2. Check the maximum torque absorbed by the pump or pumps on each output of the pump drive.
3. Check the maximum power/torque entering the pump drive from the prime mover.
4. Compare the size of the hydraulic pumps to the selected pump drive installation dimensions to determine if the proper clearance exists to mount the pumps on the pump drive.
5. Select the desired input configuration:
   B – Basic mount, either with drive plate or rubber block drive
   BD – Engine mounted clutch input
   BDS – Independently mounted clutch input

   If a BD or BDS option is selected, verify that the input speed does not exceed the maximum allowable speed for the clutch and that the applied torque does not exceed 80% of the maximum torque rating of the clutch.
6. Verify that the torque value of each output is below the maximum value shown for the chosen pump drive.
7. Verify that the input speed does not exceed the maximum input speed shown for the pump drive.
8. Select the proper output option for pump adaptation. SAE adapters are available for all pump drives. Other adaptations may be available, contact Twin Disc for non SAE adaptations.
9. Identify cooling requirements:
   – Oil operating temperature must not exceed 105°C (221°F) with synthetic oil or 80°C (176°F) with mineral oil.
   – Depending on the input power, application and duty, a cooling system may be necessary.
   – It is advisable to check the oil temperature during the first few hours of work to make sure it does not exceed the maximum temperatures listed.
   – All pump drives (except AM 216 and AM 320) can be equipped with a cooling system consisting of an oil circulating pump mounted on the input shaft on the pump side, and oil/water cooler and required piping and fittings.

For nearly a century, we've been putting horsepower to work by designing, engineering and manufacturing rugged-duty industrial products. Our products and our reputation are bolted to the most renowned engine manufacturers and equipment OEMs in the world. Our mission is to make your machines and vehicles more productive, more durable, more operator-friendly, more cost-effective. From design and installation consultation through after-sale support, Twin Disc and its distributors are committed to your business. No one knows more about managing horsepower in more ways than Twin Disc.

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Bulletin-AM480

Printed in the USA - 3/2012