AM 216 PUMP DRIVE

MAXIMUM INPUT POWER 205 KW (275 HP)
FOR RATIO 1.00:1 @ 3200 RPM

QUALITY IS STANDARD:

- CAST IRON HOUSINGS
- SHAVED 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

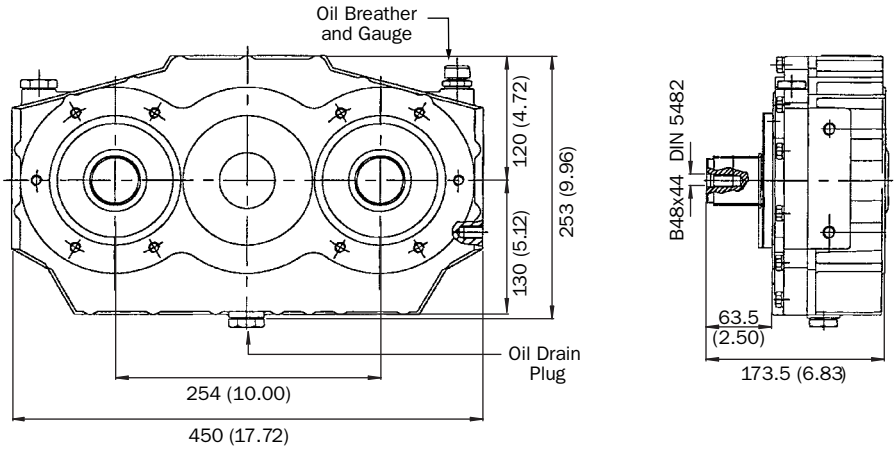
AM 216 TECHNICAL DATA

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)
0.50	800 (590)	200 (148)	2400	4800	1.9 (0.50)
0.68	735 (542)	250 (184)	2650	3897	2.0 (0.53)
0.79	700 (516)	275 (203)	2850	3608	2.0 (0.53)
0.89	670 (494)	300 (221)	3200	3596	1.7 (0.45)
1.00	630 (465)	315 (232)	3200	3200	1.7 (0.45)
1.13	560 (413)	320 (236)	3300	2920	1.7 (0.45)
1.27	550 (406)	350 (258)	3600	2835	1.5 (0.40)
1.47	500 (369)	365 (269)	3950	2687	1.3 (0.34)

See reverse for selection procedures.

AM 216 DIMENSIONS

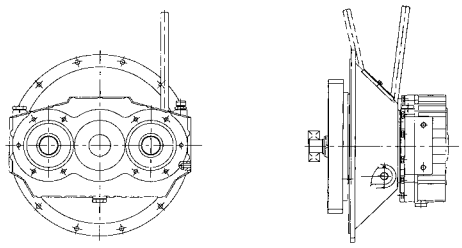
Basic Pump Drive
Weight: 36 kg (79 lb)



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.

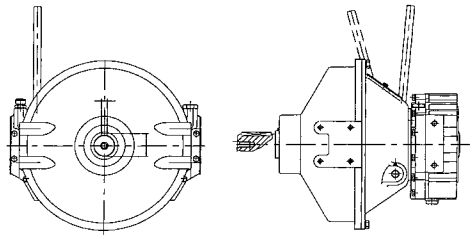
With one plate 10″ clutch
AM 216 BD 130

With one plate 11″ clutch
AM 216 BD 145



Independent Mount
with one plate 10″ clutch
AM 216 BDS 130

Independent Mount
with one plate 11″ clutch
AM 216 BDS 145



TECHNICAL DATA FOR AVAILABLE CLUTCHES *See below for selection procedures*

CLUTCH TYPE	SAE SIZE	MAXIMUM INPUT TORQUE* N-m (lbf-ft)	MAXIMUM SPEED RPM	POWER kW (hp)
BD 130	3 or 4	330 (243)	3100	70 (94)
BD 145	3 or 4	450 (332)	3100	80 (107)
BDS 130	–	330 (243)	3100	70 (94)
BDS 145	–	450 (332)	3100	80 (107)

MODEL	WEIGHT kg (lb)
AM 216 BD 130	76 (168)
AM 216 BD 145	80 (176)
AM 216 BDS 130	107 (236)
AM 216 BDS 145	111 (245)

All clutch engagements to be with prime mover below 1000 RPM. high inertia loads may require use of larger clutch. Contact Twin Disc application engineering department for assistance.

** Applied torque equals 80% or less of maximum input torque.*

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.

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Bulletin-AM 216

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