

AM 216 PUMP DRIVE

**MAXIMUM INPUT POWER 220 KW (295 HP)
1:1 RATIO @ 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	MAX. INPUT TORQUE N-m (lbf-ft)	MAX. OUTPUT TORQUE PER PUMP PAD N-m (lbf-ft)	MAX. INPUT SPEED RPM	MAX. OUTPUT SPEED RPM	OIL QUANTITY L (gal)
0.50	800 (590)	251 (185)	2400	4800	1.9 (0.50)
0.68	766 (565)	323 (238)	2650	3897	2.0 (0.53)
0.79	735 (542)	364 (268)	2850	3608	2.0 (0.53)
1.00	658 (485)	427 (315)	3200	3200	1.7 (0.45)
1.27	564 (416)	475 (350)	3600	2835	1.5 (0.40)
1.47	500 (369)	488 (360)	3950	2687	1.3 (0.34)

LOAD CLASSIFICATIONS BASED UPON AGMA LOAD CHARACTERISTICS

PRIME MOVER	DURATION OF SERVICE	DRIVEN MACHINE LOAD CLASSIFICATIONS		
		UNIFORM	MODERATE SHOCK	HEAVY SHOCK
Electric motor	Up to 3 hours per day	1.00	1.25	1.50
	3-10 hours per day	1.00	1.25	1.75
	Over 10 hours per day	1.25	1.50	2.00
Multi-cylinder internal combustion engine	Up to 3 hours per day	1.00	1.25	1.75
	3-10 hours per day	1.25	1.50	2.00
	Over 10 hours per day	1.50	1.75	2.25
Multi-cylinder internal combustion engine with high torque rise	Up to 3 hours per day	1.50	1.75	2.25
	3-10 hours per day	1.75	2.00	2.50
	Over 10 hours per day	2.00	2.25	2.75
Single cylinder internal combustion engine	Up to 3 hours per day	1.25	1.50	2.00
	3-10 hours per day	1.50	1.75	2.25
	Over 10 hours per day	1.75	2.00	2.50

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.

TO CALCULATE APPLICATION TORQUE:

$$\frac{5252 \times \text{HP}}{\text{Engine RPM}} = \text{Torque}$$

$$\text{Torque} \times \text{Load Factor} = \text{Application Torque}$$

Use load factor from chart at left

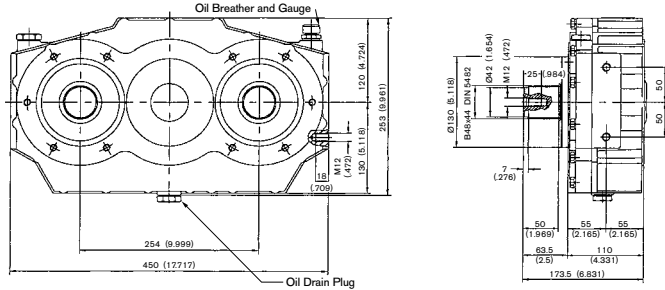
Maximum torque and maximum speed may be limited by clutch option.

Specifications subject to change without prior notice in the interest of continual product improvement.

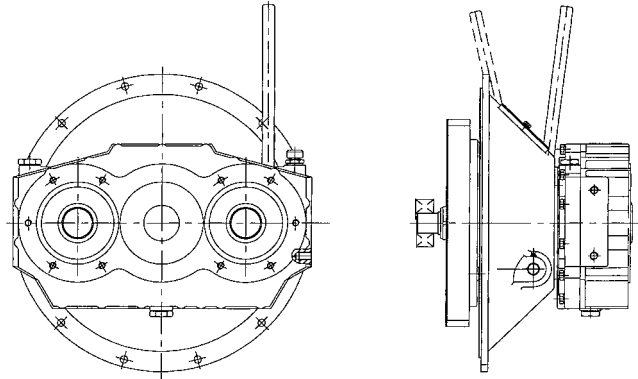
Contact your local Twin Disc representative for engineering specifications.



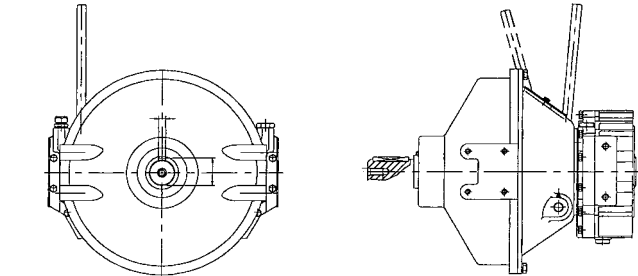
Basic Pump Drive
AM 216 B



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

AM 216 MOMENT OF INERTIA DATA

RATIO	B	BD 130	BD 145	BDS 130	BDS 145
:1	kg·m ² (lb·ft ²)	kg·m ² (lb·ft ²)	kg·m ² (lb·ft ²)	kg·m ² (lb·ft ²)	kg·m ² (lb·ft ²)
0.50					
0.68	0.0278 (0.66)	0.1653 (3.92)	0.2903 (6.89)	0.2778 (6.59)	0.4653 (11.04)
0.79	0.0248 (0.59)	0.1622 (3.85)	0.2873 (6.82)	0.2748 (6.52)	0.4623 (10.97)
1.00	0.0205 (0.49)	0.1580 (3.75)	0.2830 (6.72)	0.2705 (6.42)	0.4580 (10.87)
1.27	0.0167 (0.40)	0.1542 (3.66)	0.2792 (6.63)	0.2667 (6.33)	0.4542 (10.78)
1.47	0.0151 (0.36)	0.1526 (3.62)	0.2776 (6.59)	0.2651 (6.29)	0.4526 (10.74)

MODEL	WEIGHT kg (lb)
AM 216 B	36 (79)
AM 216 BD 130	76 (168)
AM 216 BD 145	80 (176)
AM 216 BDS 130	107 (236)
AM 216 BDS 145	111 (245)

Twin Disc, Incorporated reminds users of these products that their safe operation depends on use in compliance with engineering information provided. Users are also reminded that safe operation depends on proper installation, operation and routine maintenance and inspection under prevailing conditions. It is the responsibility of users (and not Twin Disc, Incorporated) to provide and install guards or safety devices which may be required by recognized safety standards or by the Occupational Safety and Health Act of 1970 and its subsequent provisions.

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Twin Disc, Incorporated
 Racine, Wisconsin 53403 USA
 Phone +1-262-638-4000
 Fax +1-262-638-4482
 www.twindisc.com

TD-Bulletin-AM216 Pump Drive
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 Printed in the USA