



AMM

HYDRAULIC MOTOR HIGH TORQUE - LOW SPEED



TYPE		AMM					
MOTOR SIZE		08	12.5	20	32	40	50
DISPLACEMENT	cm ³	8.2	12.9	19.9	31.5	40.0	50.3
	in ³	0.50	0.79	1.24	1.93	2.43	3.08
MAX. SPEED	rpm cont.	1950	1550	1000	630	500	400
	rpm int.	2450	1940	1250	800	625	500
MAX. TORQUE	Nm cont.	11	16	25	40	45	46
	lbf.in cont.	95	140	220	350	400	410
	Nm int.	15	23	35	57	70	88
	lbf.in int.	135	200	310	500	620	780
MAX. PRESSURE DROP	bar cont.	100	100	100	100	90	70
	psi cont.	1450	1450	1450	1450	1310	1020
	bar int.	140	140	140	140	140	140
	psi int.	2030	2030	2030	2030	2030	2030
MAX. OIL FLOW	lpm cont.	16	20	20	20	20	20
	gpm cont.	4.2	5.3	5.3	5.3	5.3	5.3
	lpm int.	20	25	25	25	25	25
	gpm int.	5.3	6.6	6.6	6.6	6.6	6.6
WEIGHT kg	AMM	1.9	2.0	2.1	2.2	2.3	2.5
	AMM-P	2.1	2.2	2.3	2.4	2.5	2.7

For motors fitted with front flange add 0.2kg to the above weights.

Maximum continuous inlet pressure 2030 psi -140 bar
Maximum intermittent inlet pressure 2540 psi -175 bar

Maximum pressure drop and speed must not be reached simultaneously.
Intermittent operation may occur for 10% max. of every minute.

At speeds lower than 10 rpm please consult our Technical Department.

Mineral based hydraulic fluids with anti-wear additives are recommended with a viscosity of 35 mm²/s at a temperature of 50 C.

Minimum recommended oil viscosity 13 mm²/s at operating temperature.

Recommended oil cleanliness ISO 19/14 with a nominal filtration of 25 micron or better.

Where non-flammable fluids are to be used it is advisable to consult our Technical Department.

Ambient temperature should be between -30°C and +90°C.

Normal operating temperature should be between +30°C and +60°C.

Maximum operating temperature +85°C.

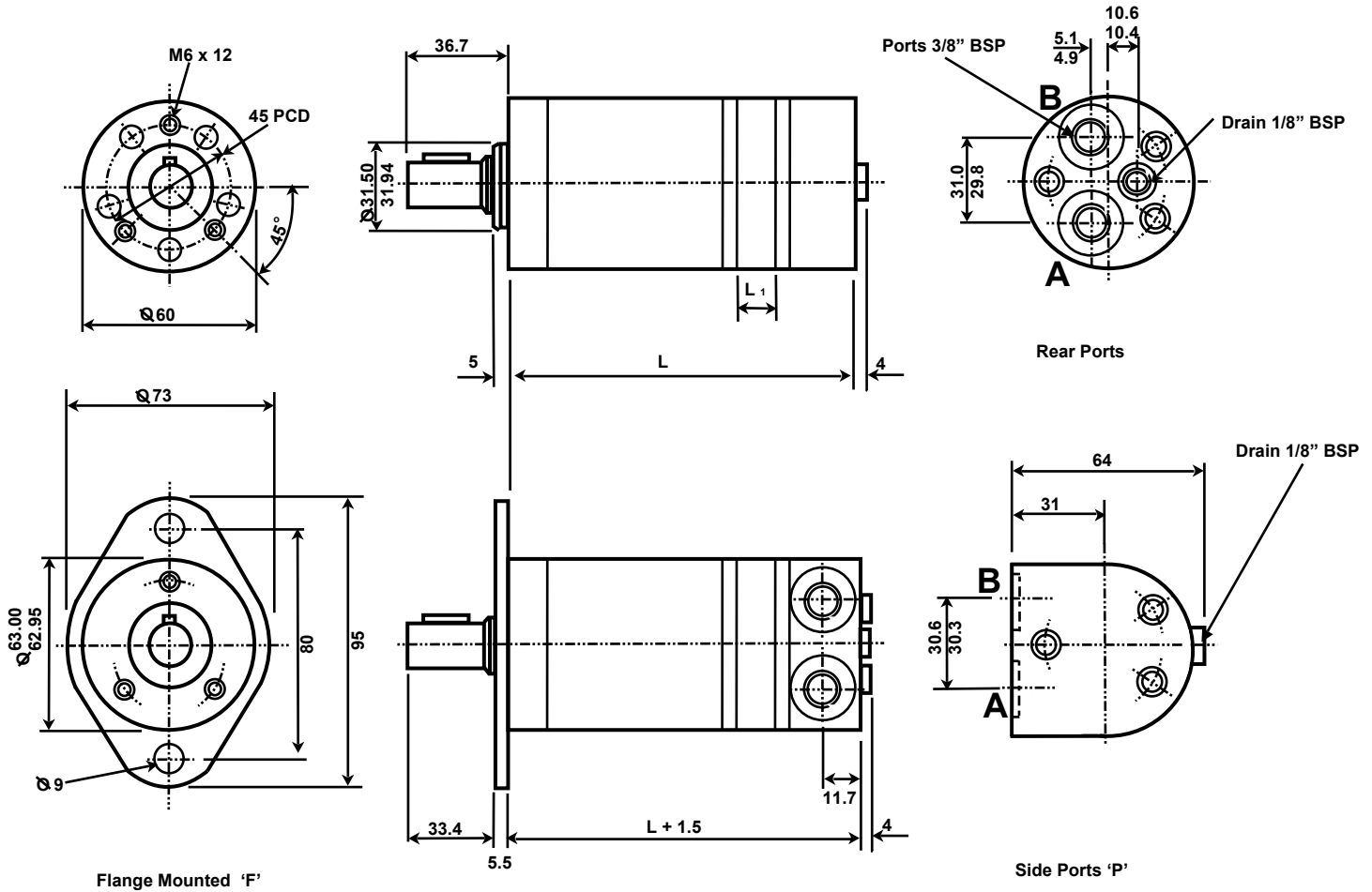
The policy of Adan Limited is one of continual development and the right is reserved to alter specifications without notice.



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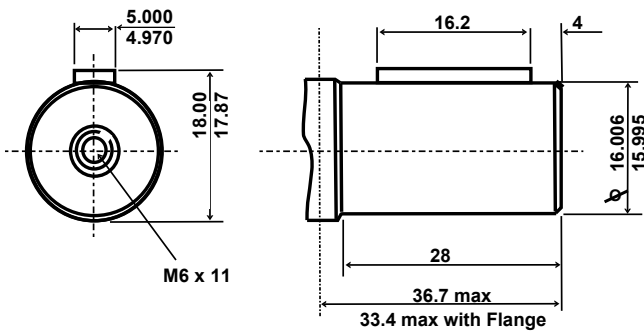
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Parallel Shaft

Splined Shaft 'S'

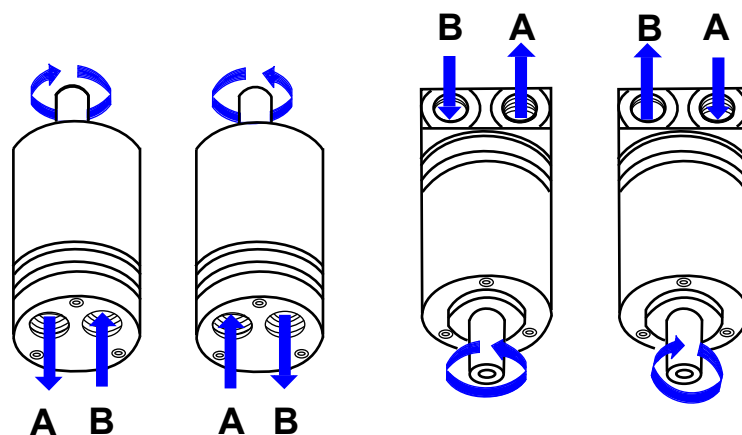
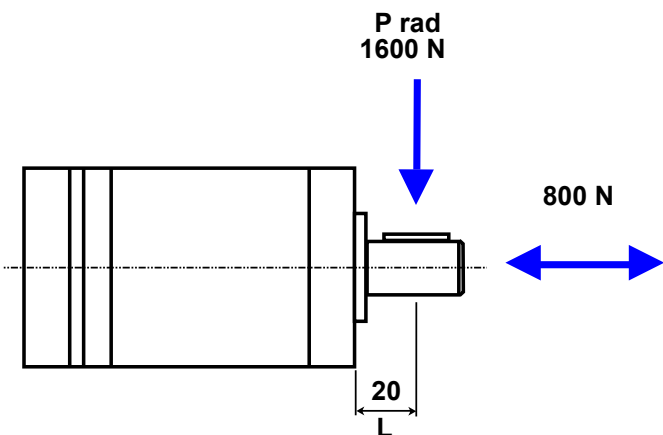


Spline Data
B17 x 14 to DIN 5482

MOTOR SIZE		AMM 08	AMM 12.5	AMM 20	AMM 32	AMM 40	AMM 50
DIM L	mm	104	106	109	114	117.5	121.5
DIM L1	mm	3.5	5.5	8.5	13.5	17.0	21.0

PERMISSIBLE SHAFT LOADING

SHAFT ROTATION

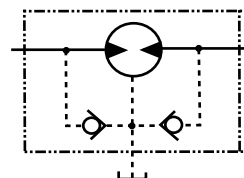


The permissible shaft load (Prad) is calculated from the distance (L) between the the point of load and the mounting face.

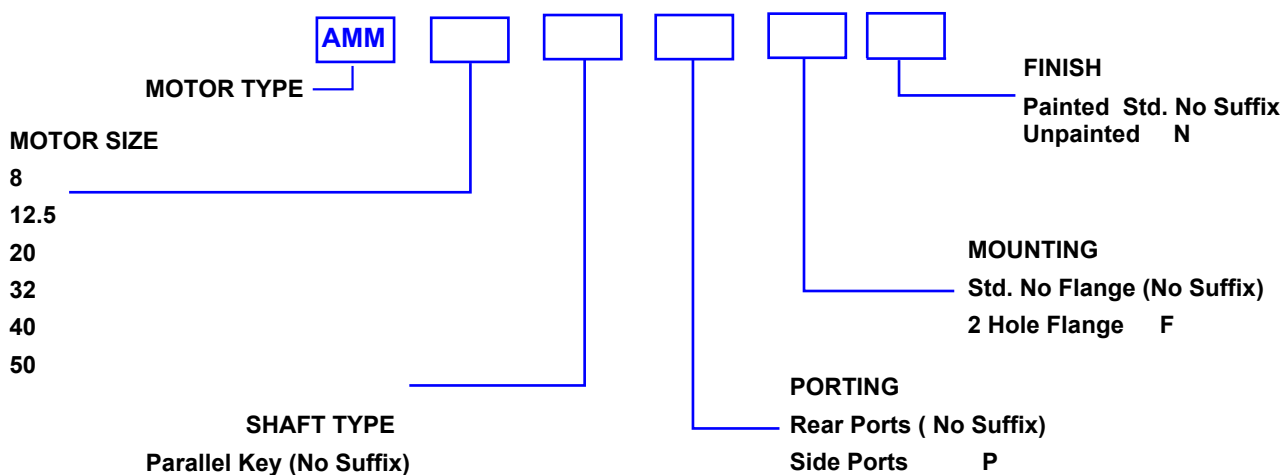
$$Prad = \frac{130400}{61.5+L} \text{ N (L in mm; } L \leq 80\text{mm)}$$

If the calculated shaft load exceeds the permissible, a flexible coupling must be used.

SYMBOL



ORDERING CODE



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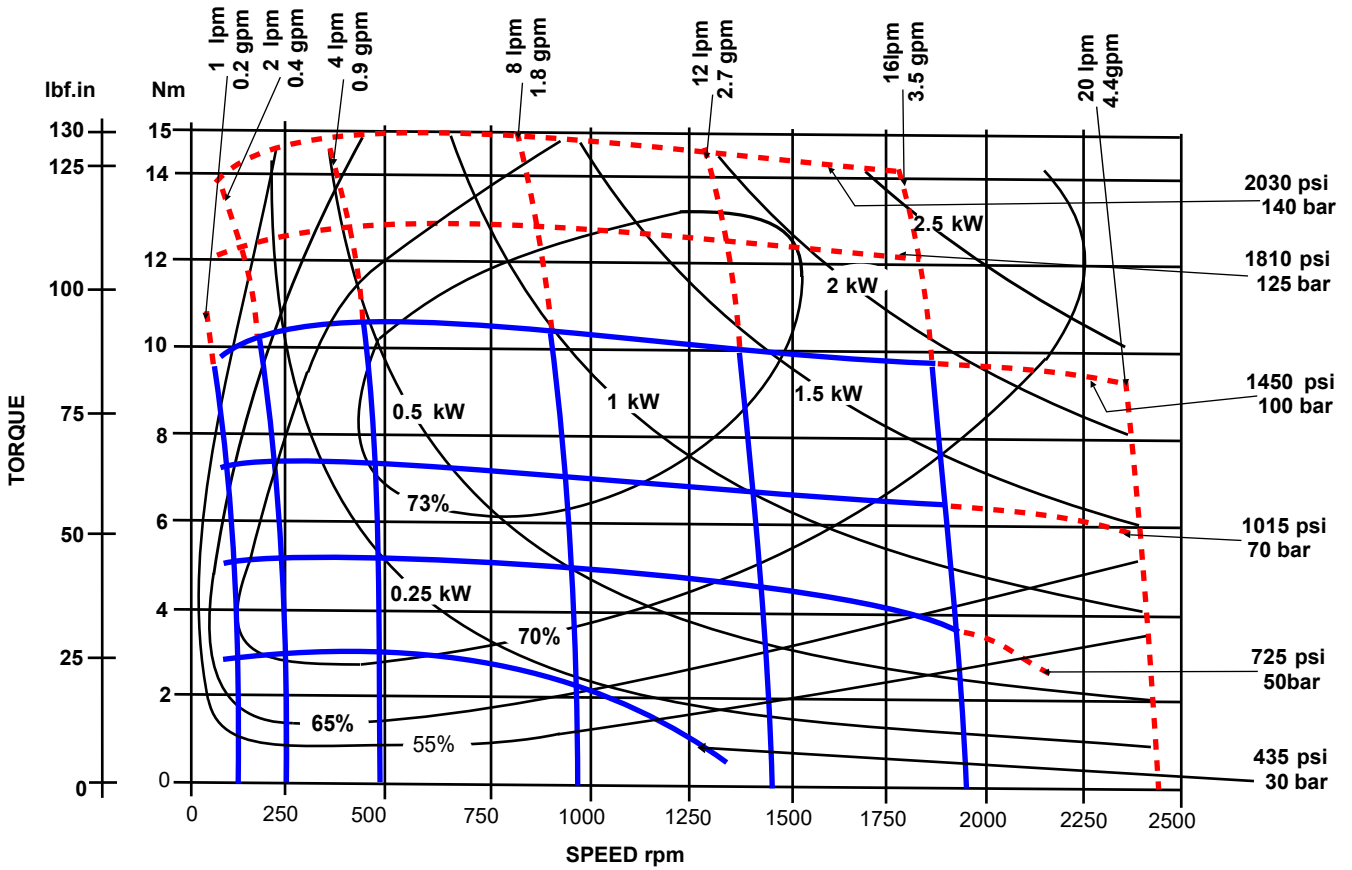
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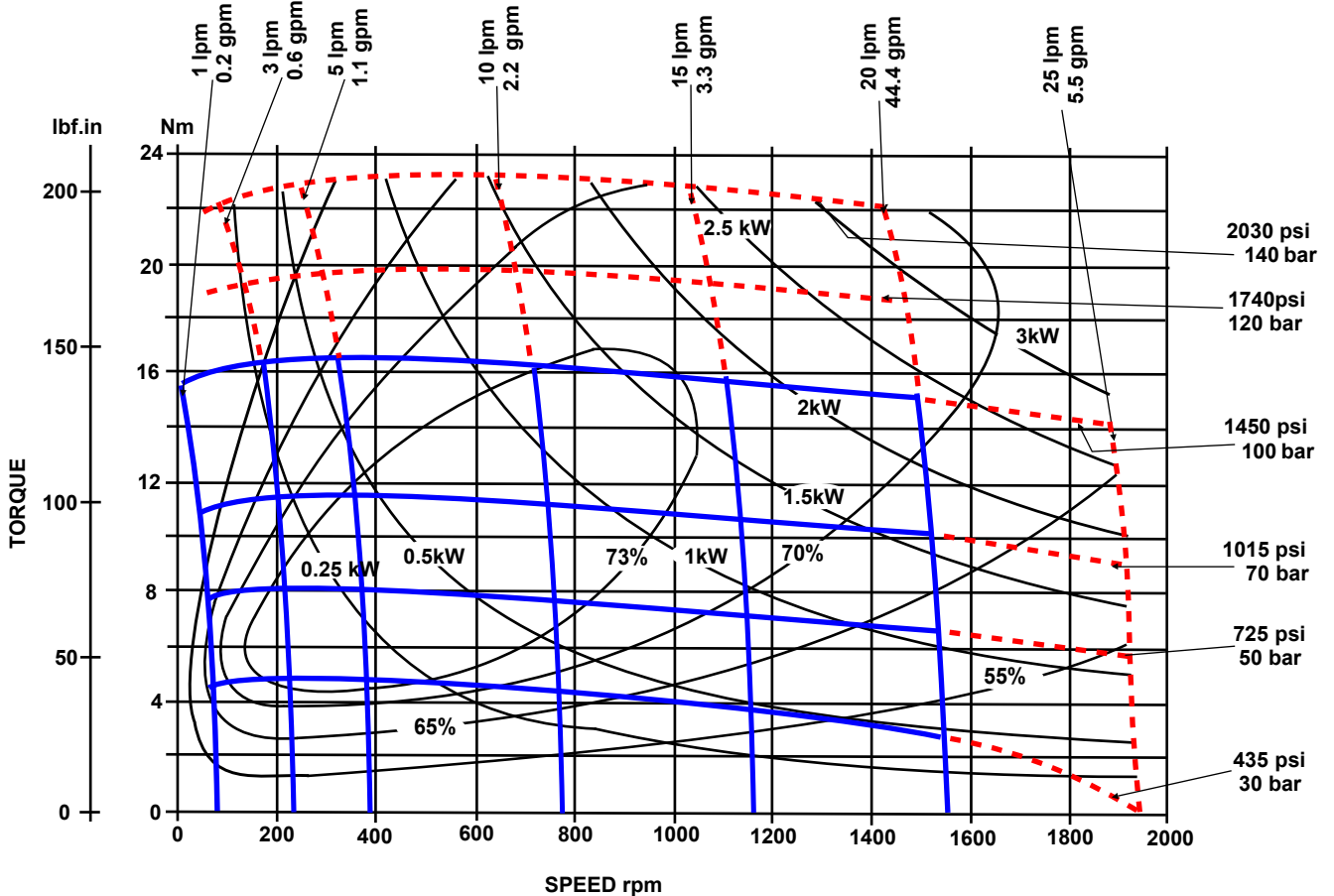


Solid lines represent continuous operation. Dotted lines represent intermittent operation permissible for 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

AMM 08

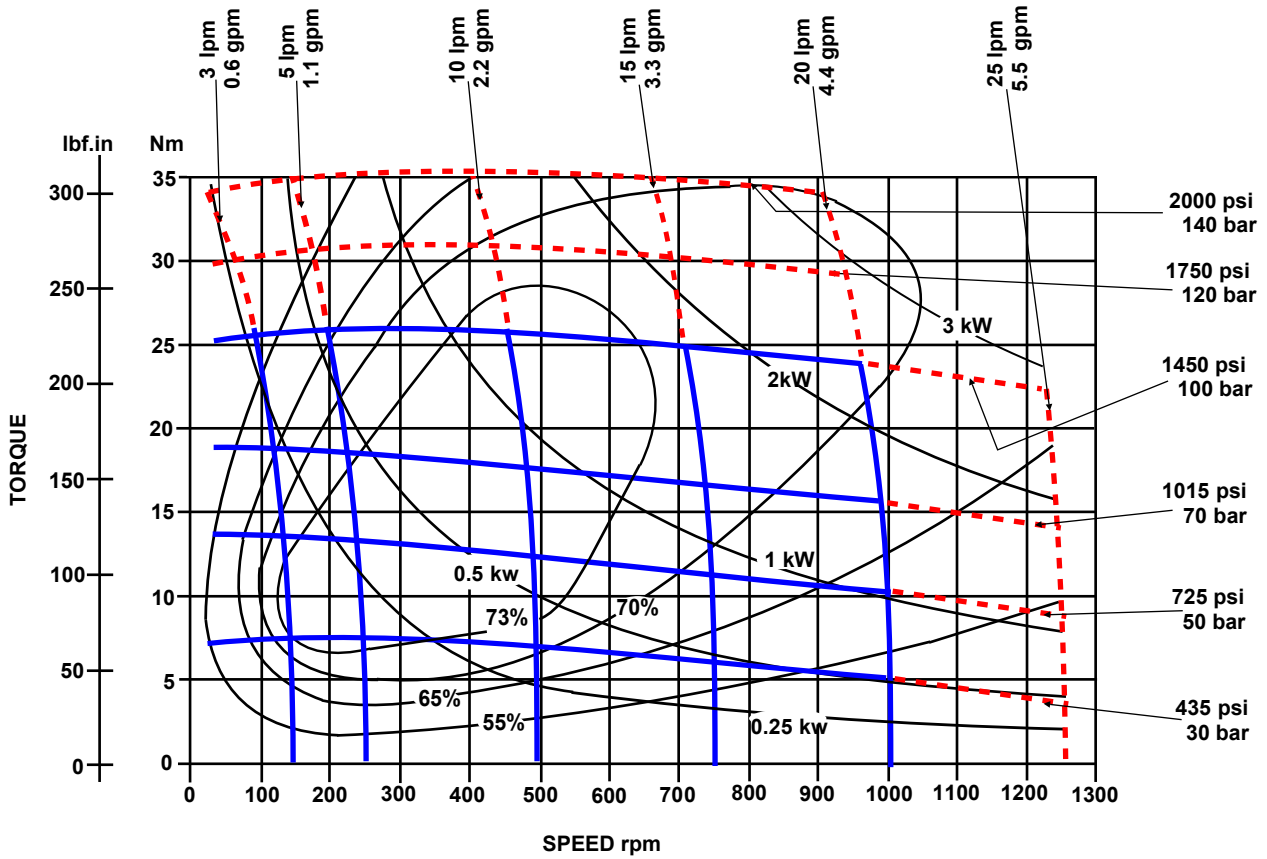


AMM 12.5

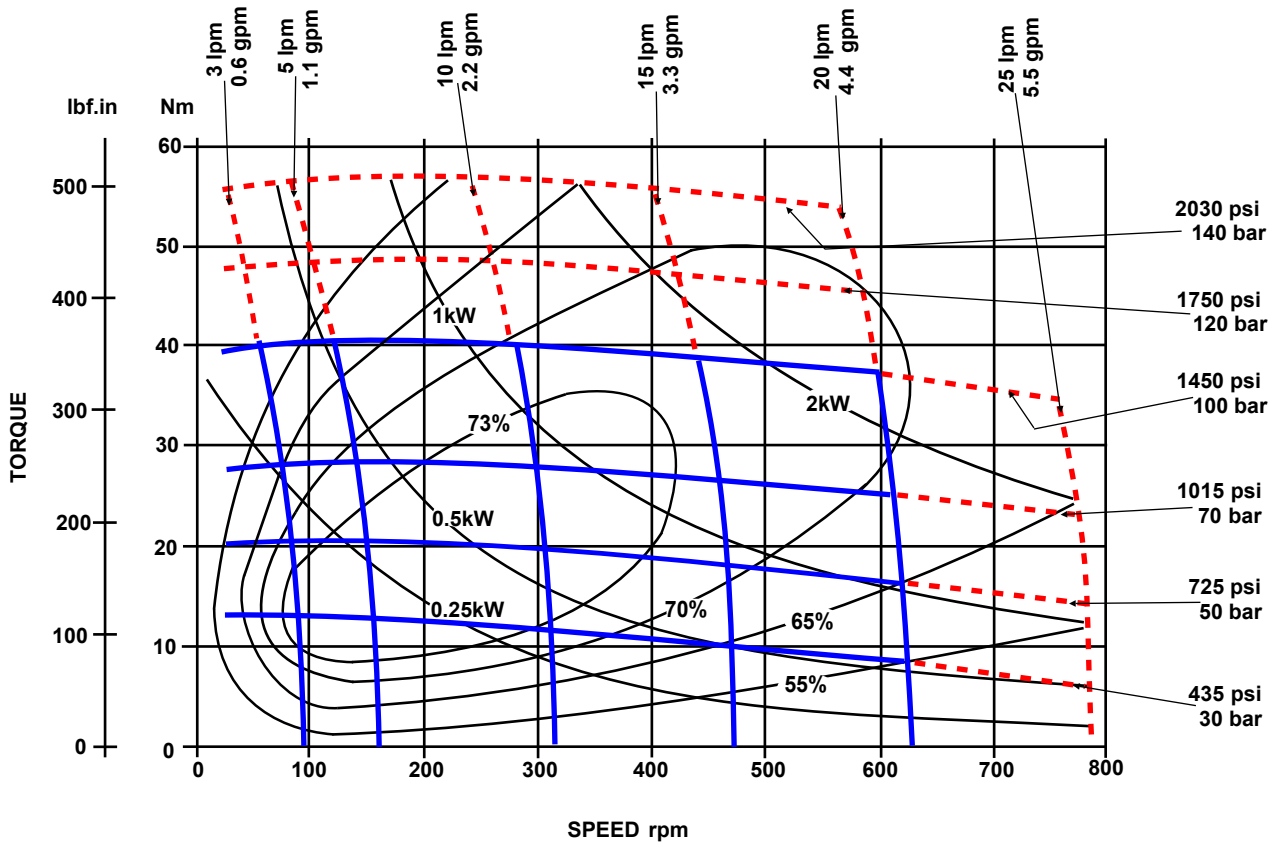


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AMM 20

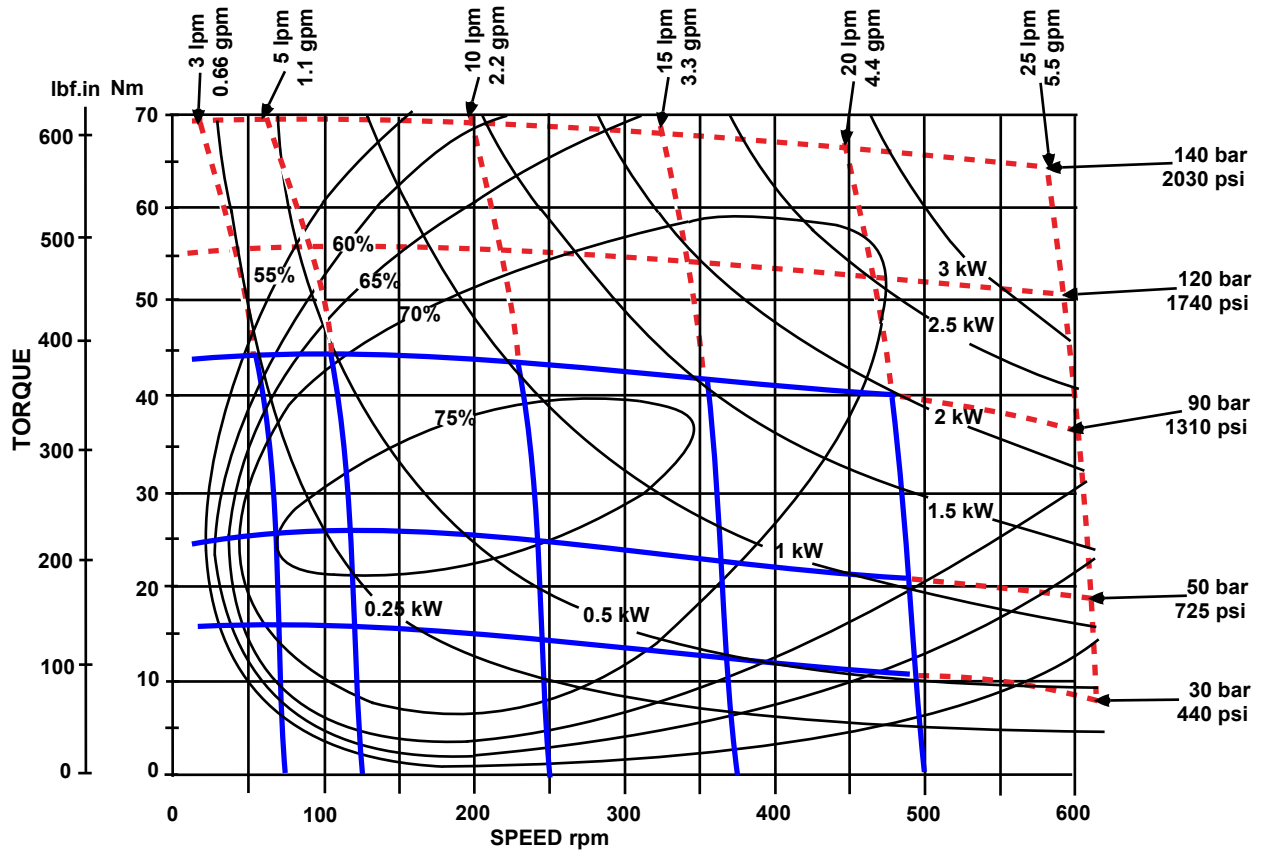


AMM 32

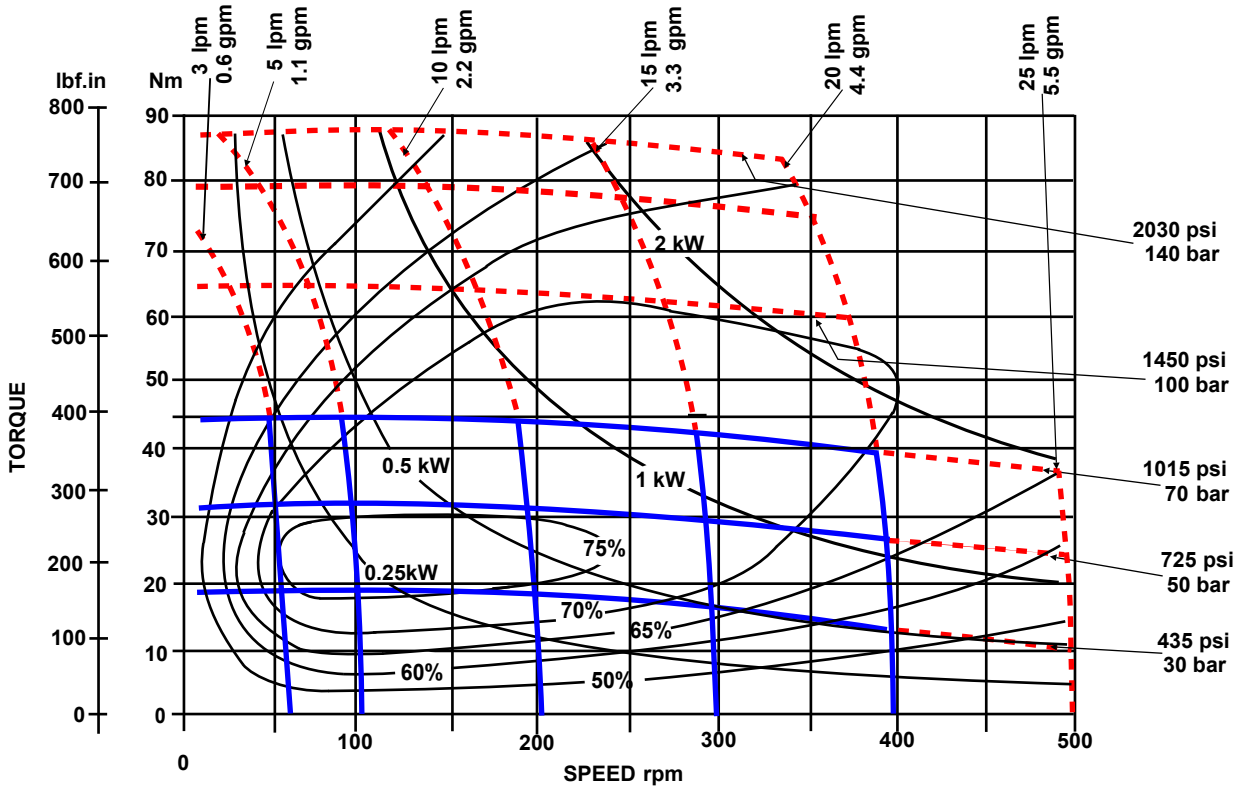


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AMM 40



AMM 50



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