



# *E SERIES*

## *HYDRAULIC MOTOR*

### *HIGH TORQUE - LOW SPEED*



TYPE		AEMP										
MOTOR SIZE		32	50	63	75	100	125	150	200	250	300	400
DISPLACEMENT	cm <sup>3</sup>	33.0	49.7	65.9	81.8	101.2	126.1	160.8	200.9	250.8	315.5	399.9
	in <sup>3</sup>	2.02	3.04	4.04	5.01	6.20	7.72	9.85	12.30	15.36	19.32	25.27
MAX. SPEED	rpm cont.	1400	775	750	750	600	475	375	300	240	190	160
	rpm int.	1600	1000	1000	940	750	600	450	375	300	240	200
MAX. TORQUE	Nm cont.	44	100	140	195	240	300	360	360	360	360	360
	lbf.in cont.	390	885	1240	1730	2120	2660	3190	3190	3190	3190	3190
	Nm int.	62	130	170	220	280	340	430	440	470	470	460
	lbf.in int.	550	1150	1505	1950	2480	3010	3810	3890	4160	4160	4070
MAX. PRESSURE DROP	bar cont.	100	140	140	175	175	175	165	130	100	85	70
	psi int.	1450	2030	2030	2540	2540	2540	2390	1890	1450	1230	1020
	bar int.	140	175	175	200	200	200	200	175	140	115	90
	psi int.	2030	2540	2540	2900	2900	2900	2900	2540	2030	2030	1310
MAX. OIL FLOW	lpm cont.	50	40	50	60	60	60	60	60	60	60	60
	gpm cont.	11	8.8	11	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2
	lpm int.	55	50	62	75	75	75	75	75	75	75	75
	gpm int.	12.2	11	13.6	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
WEIGHT kg	AEMP & - 4	6.2	6.4	6.7	6.8	7.1	7.3	7.5	8.0	8.5	8.9	9.9
	AEMP-RP	7.3	7.5	7.8	7.9	8.2	8.4	8.6	9.1	9.6	10.0	11.0

Maximum inlet pressure 3250 psi - 224 bar  
High pressure shaft seal drain line not required for most applications.

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 mm<sup>2</sup>/s at a temperature of 50 C.

Minimum recommended oil viscosity 13 mm<sup>2</sup>/s at operating temperature.

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

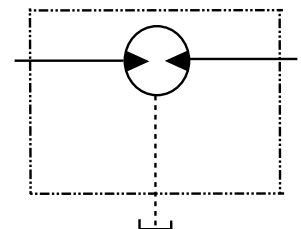
Where non-flammable fluids are to be used it is advisable to consult our Technical Department.

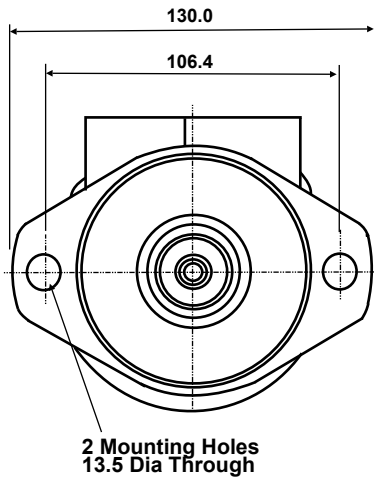
Ambient temperature should be between -30°C and +90°C.

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

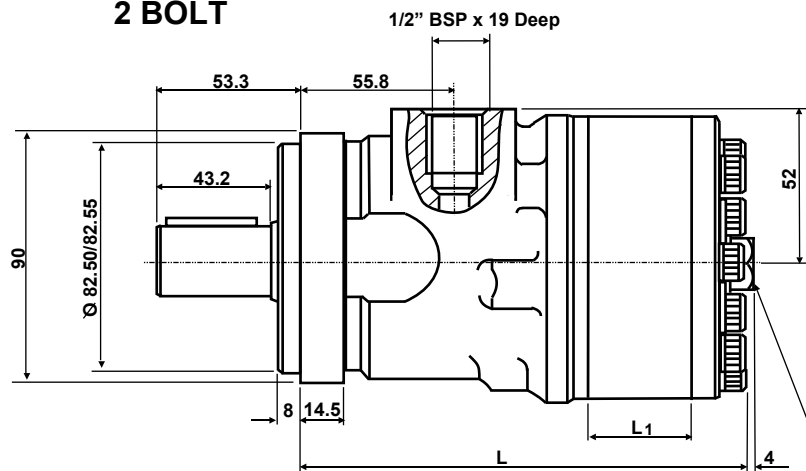
Maximum operating temperature +85°C.

#### SYMBOL

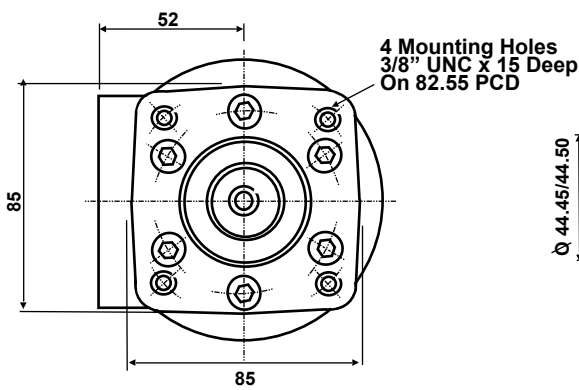




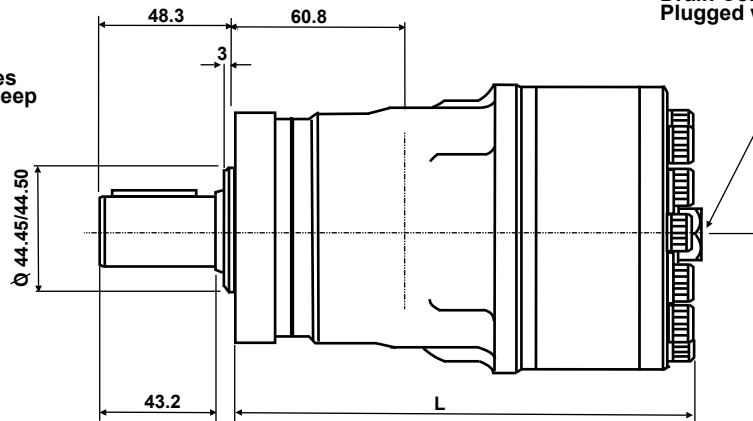
## 2 BOLT



## 4 BOLT

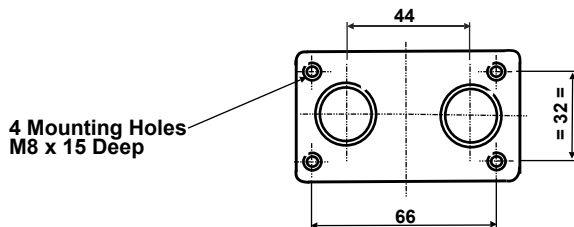
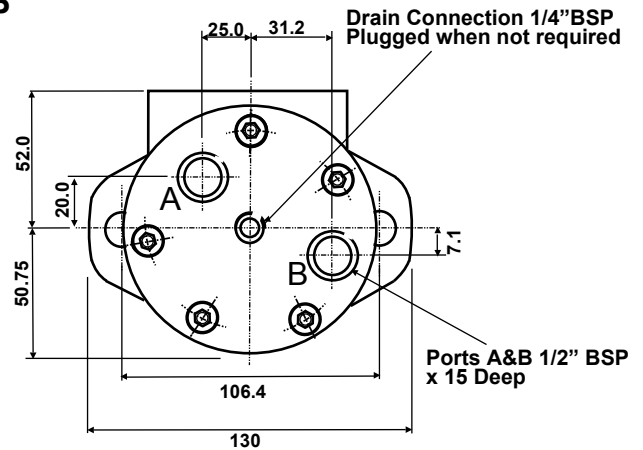
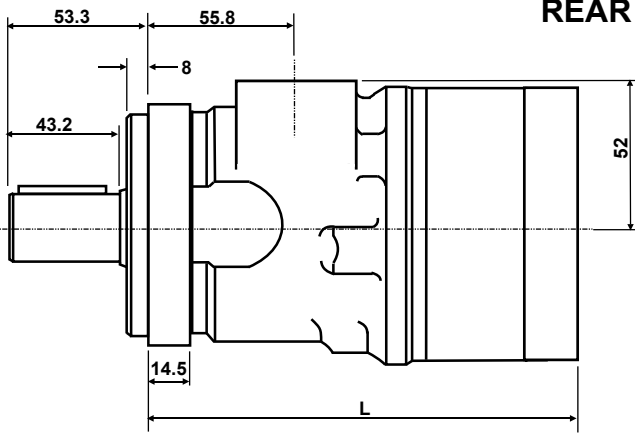


## 4 BOLT



Drain Connection 1/4" BSP  
Plugged when not required

## REAR PORT -RP

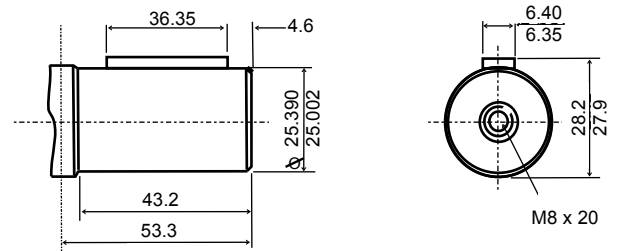
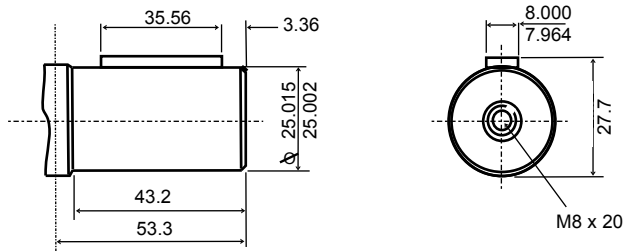


## PORT FACE DETAIL

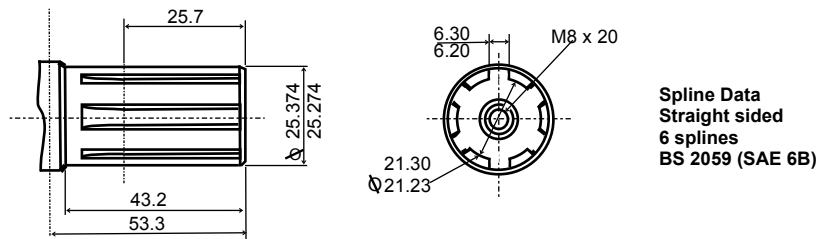
Motor size	Dimn.	32	50	63	75	100	125	150	200	250	300	400
ALL TYPES	L <sub>1</sub>	5.8	8.7	11.5	14.3	17.7	22.0	28.1	35.0	43.8	55.0	69.8
AEMP	L	131.6	134.5	137.3	140.1	143.5	147.8	153.9	160.8	169.6	180.8	195.6
AEMP-RP	L	140.1	143.0	145.8	148.6	152.0	156.3	162.4	169.3	178.1	189.3	204.1
AEMP-4	L	136.6	139.5	142.3	145.1	148.5	152.8	158.9	165.8	174.6	185.8	200.6
AEMP-4-RP	L	145.1	148.0	150.8	153.6	157.0	161.3	167.4	174.3	183.1	194.3	209.1

Metric Shaft - M

Imperial Shaft - E



Splined Shaft - S

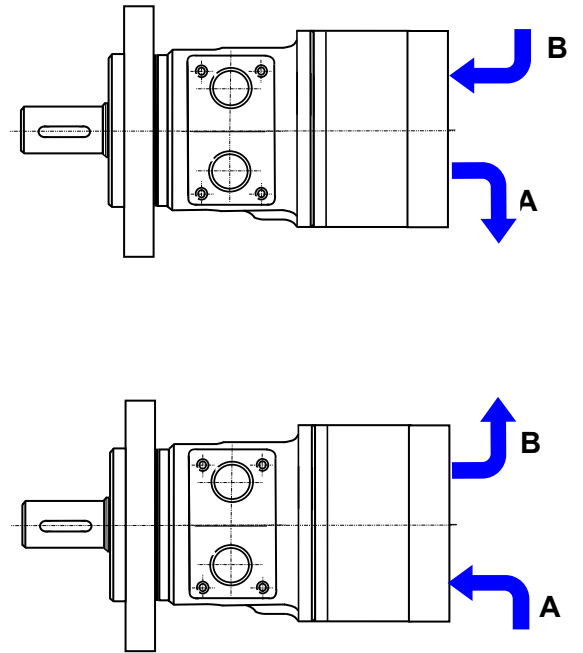
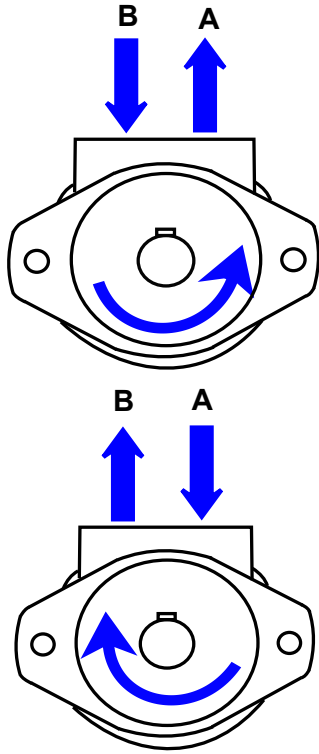


**Note Torque limitations**

**Shafts M & E cont. 300 Nm (2660lbf.in) int. 420 Nm (3720lbf.in)**

**Shaft S cont. 360Nm (3190 lbf.in) int. 470 Nm (4160lbf.in)**

SHAFT ROTATION



SHAFT LOADING

2 Bolt Flange

$$P = \frac{800}{n} \times \frac{250000}{95 + L} N$$

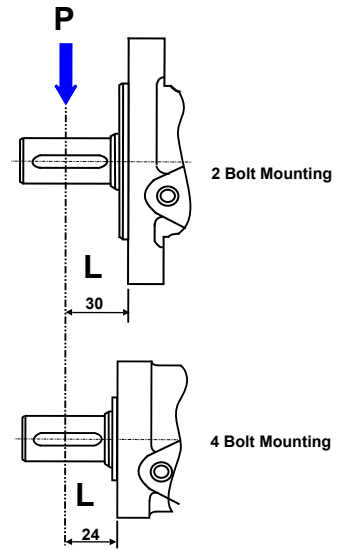
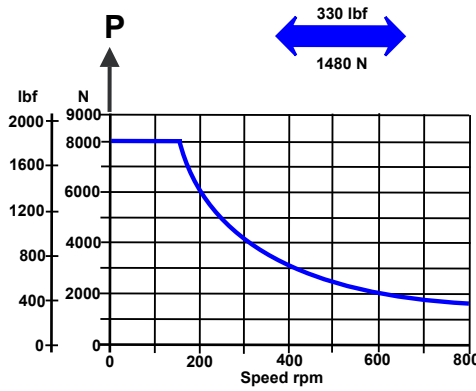
$$P = \frac{800}{n} \times \frac{2215}{3.74 + L} \text{ lbf}$$

4 Bolt Flange

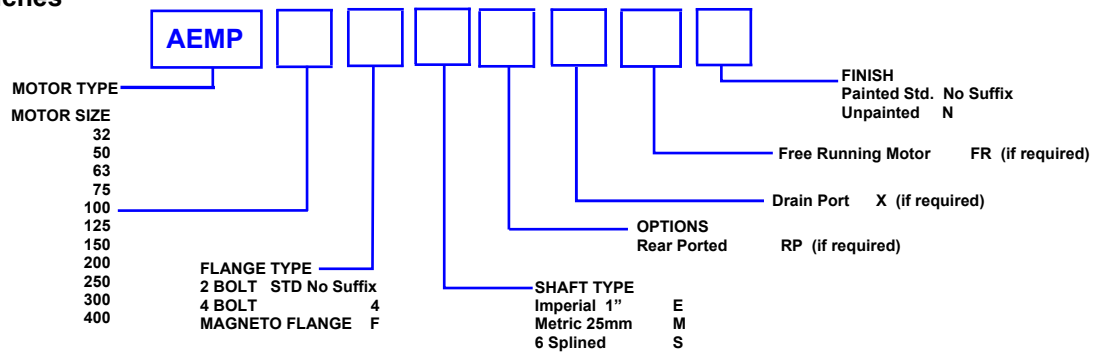
$$P = \frac{800}{n} \times \frac{250000}{101 + L} N$$

$$P = \frac{800}{n} \times \frac{2215}{3.98 + L} \text{ lbf}$$

n = speed rpm  
 For metric L in mm  
 For imperial L in inches



ORDERING CODE

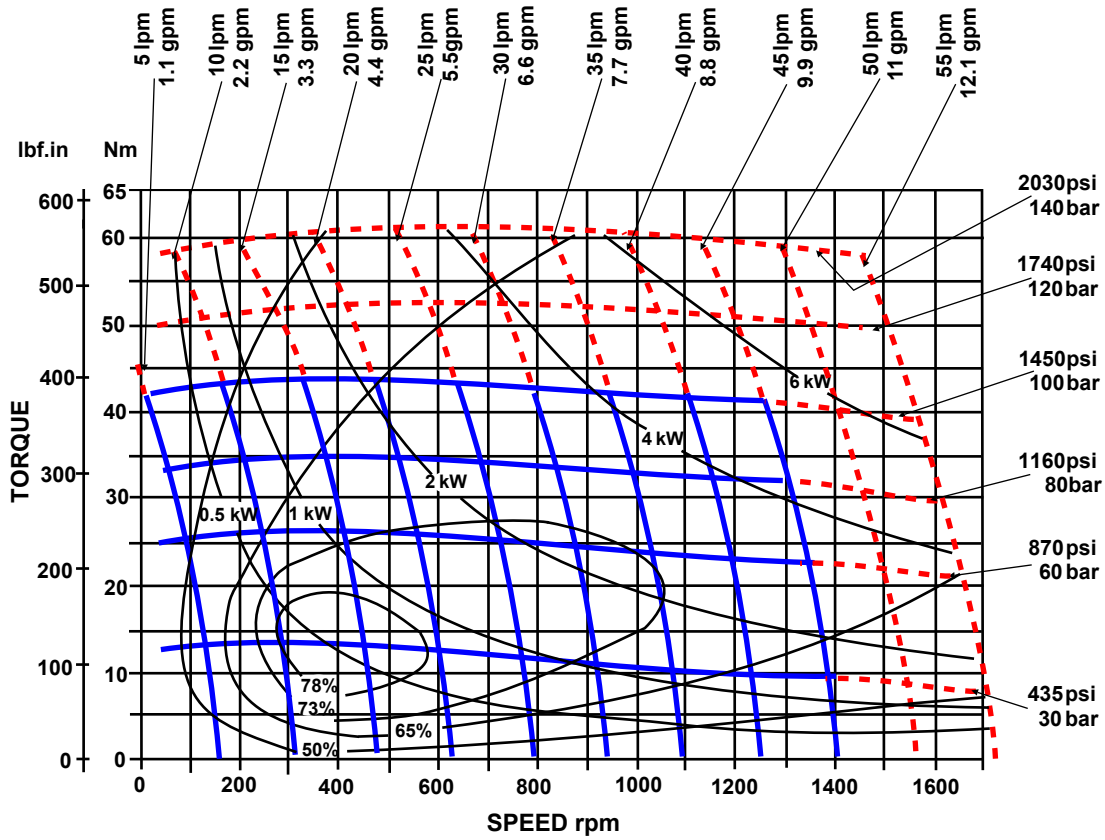


POWERING YOUR WORLD

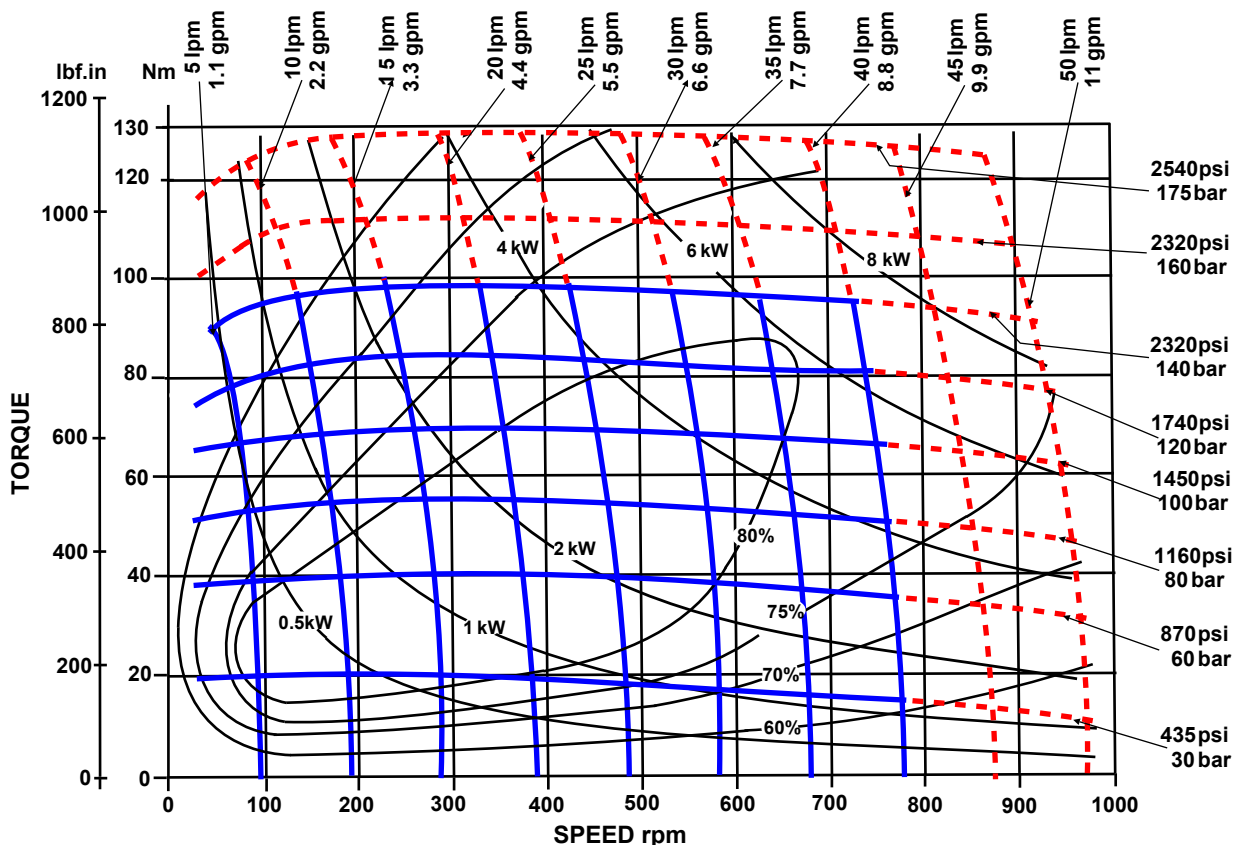
Solid lines represent continuous operation. Dotted lines represent intermittent operation. Intermittent operation = 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

Maximum values are dependant on shaft type see note on page 3

AEMP 32



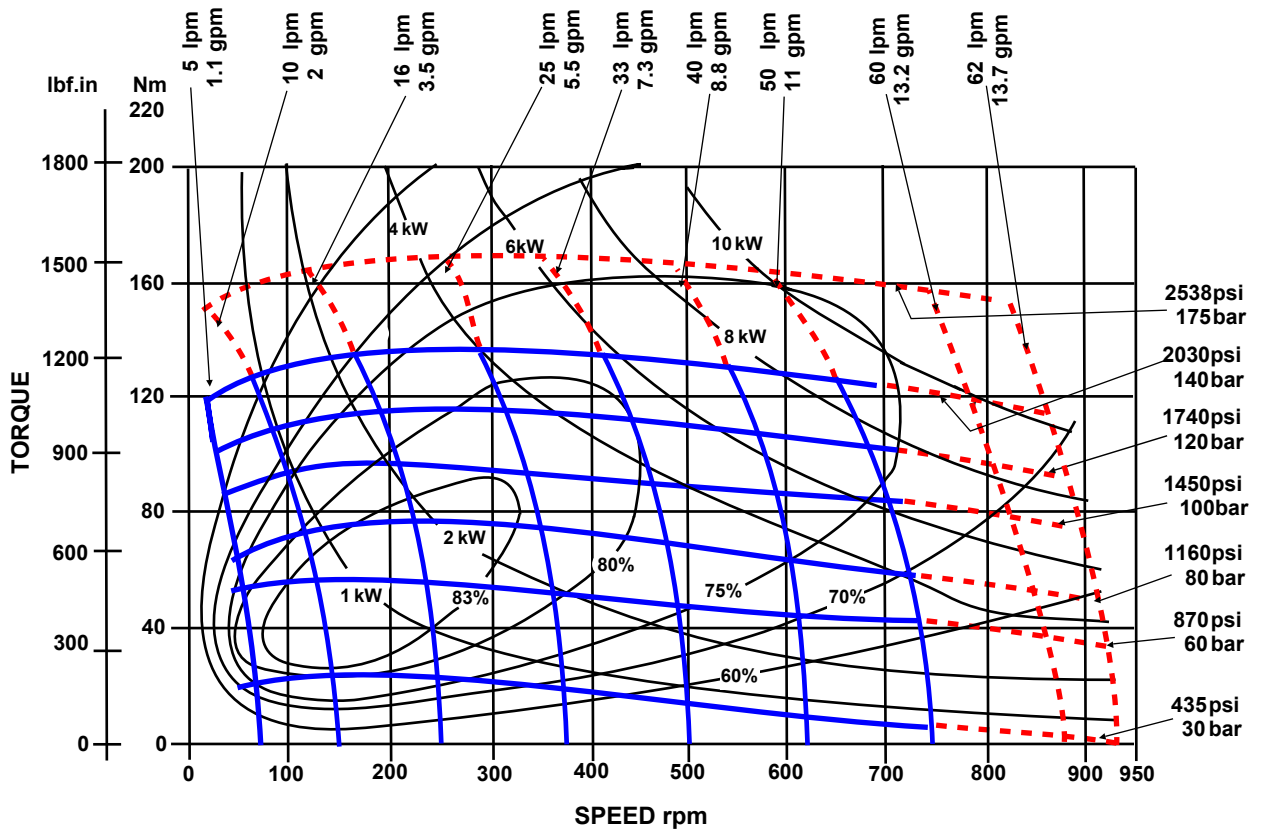
AEMP 50



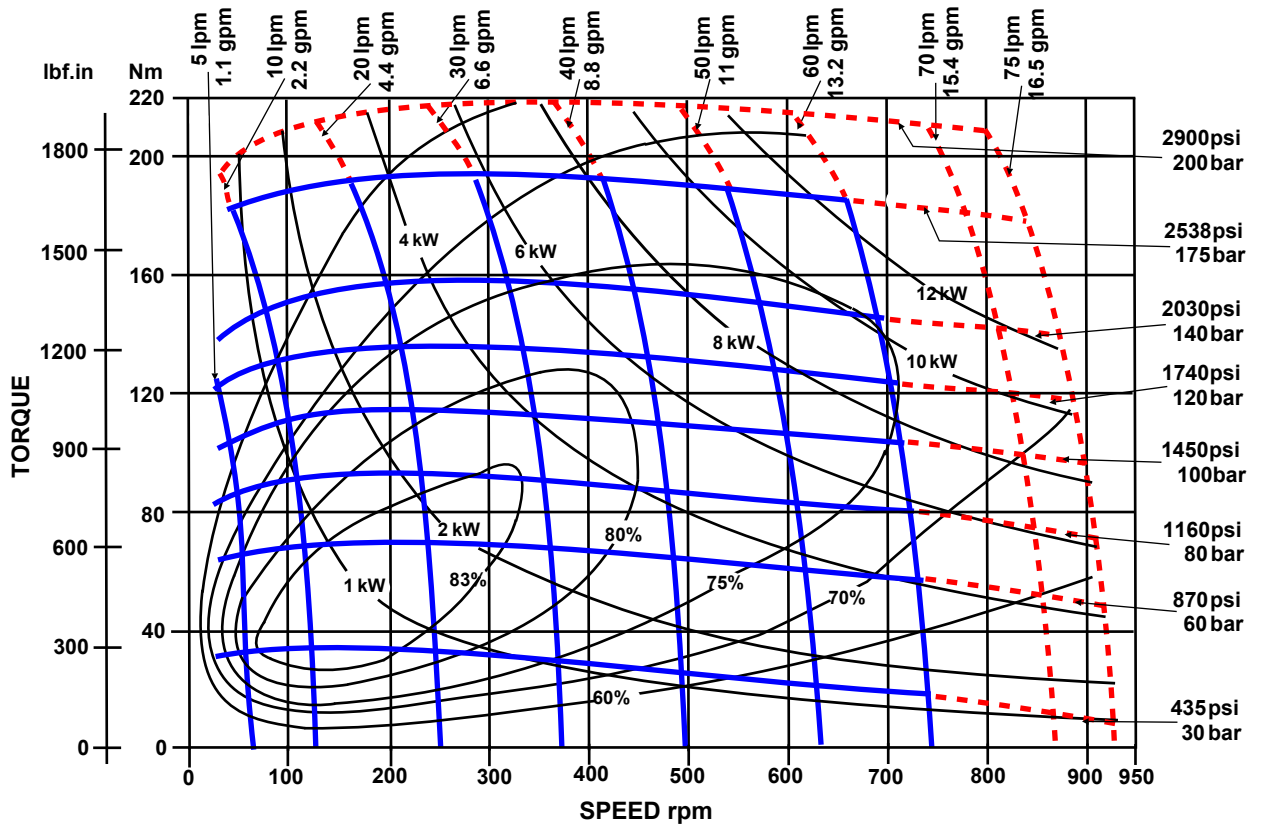
Solid lines represent continuous operation. Dotted lines represent intermittent operation. Intermittent operation = 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

Maximum values are dependant on shaft type see note on page 3

AEMP 63



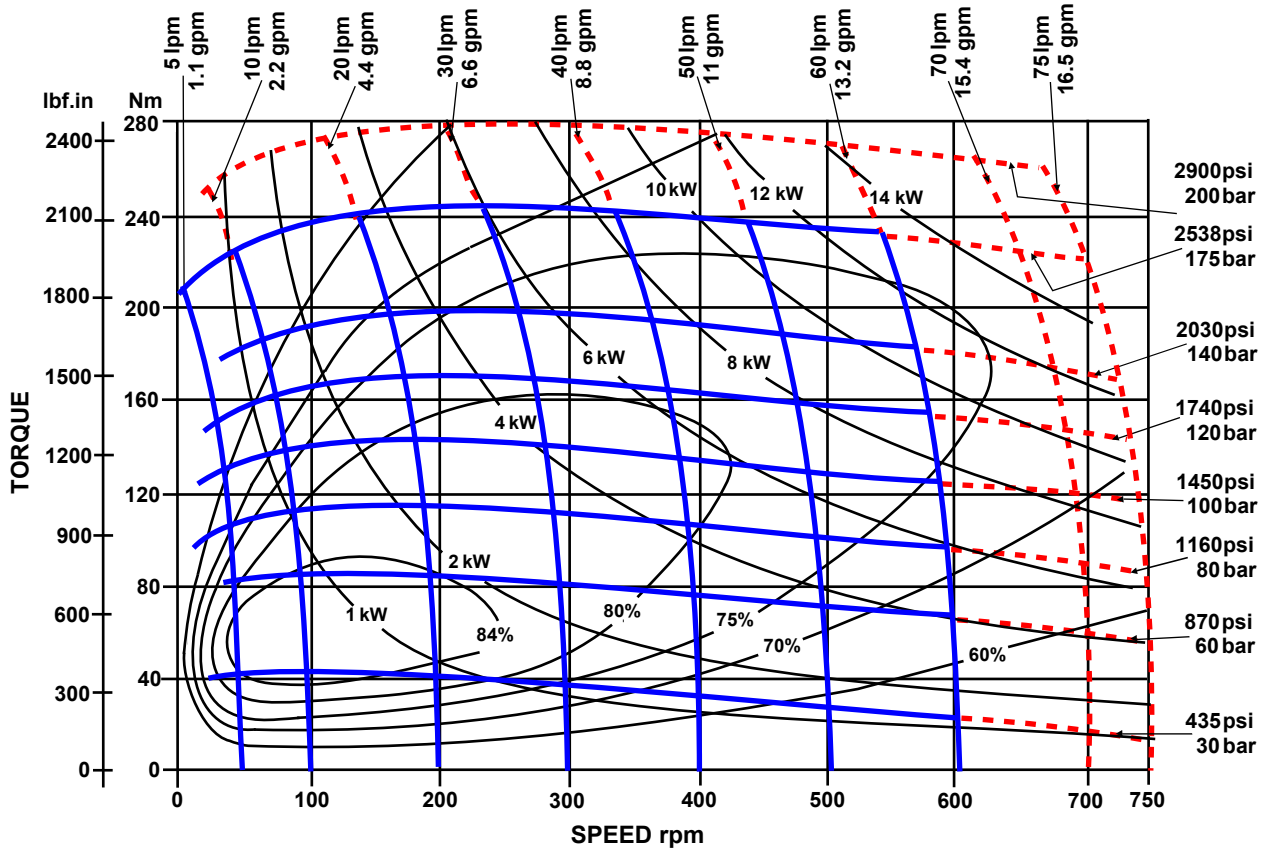
AEMP 75



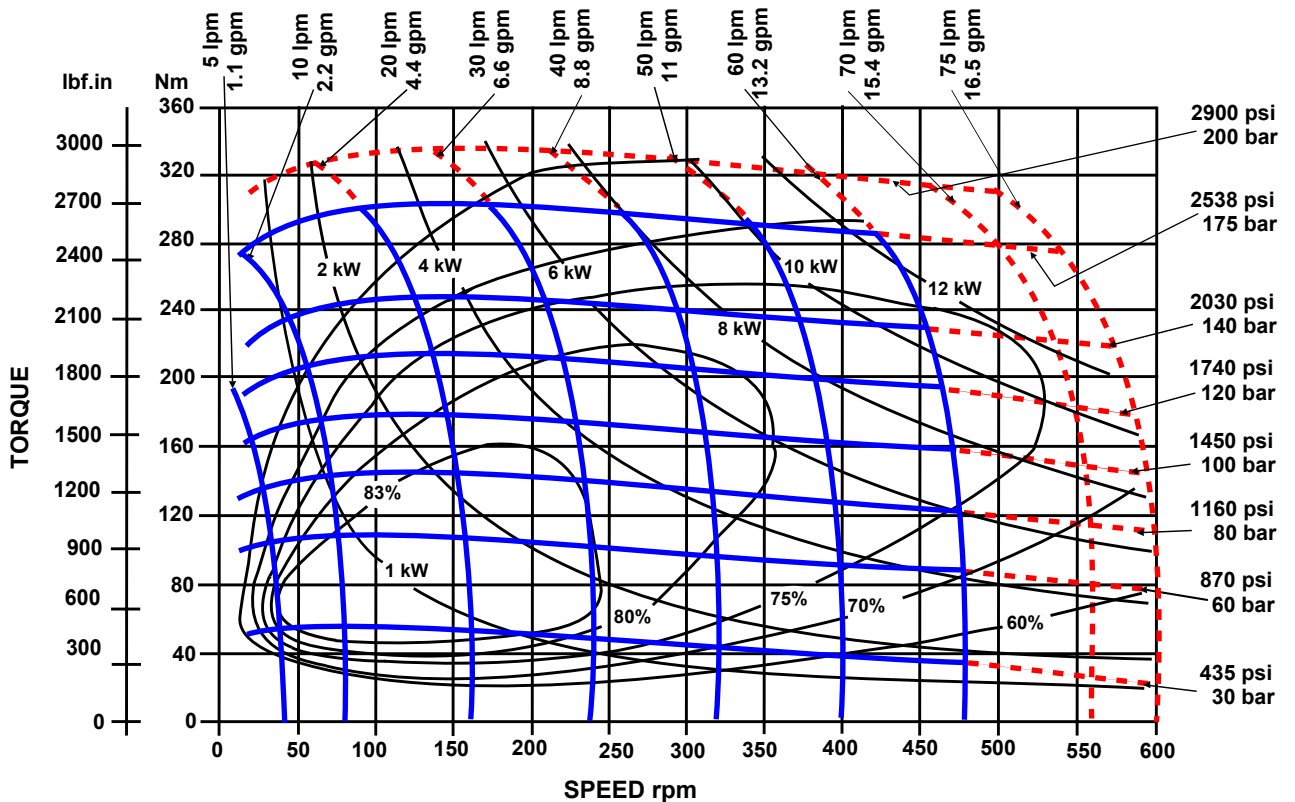
Solid lines represent continuous operation. Dotted lines represent intermittent operation. Intermittent operation = 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

Maximum values are dependant on shaft type see note on page 3

AEMP 100



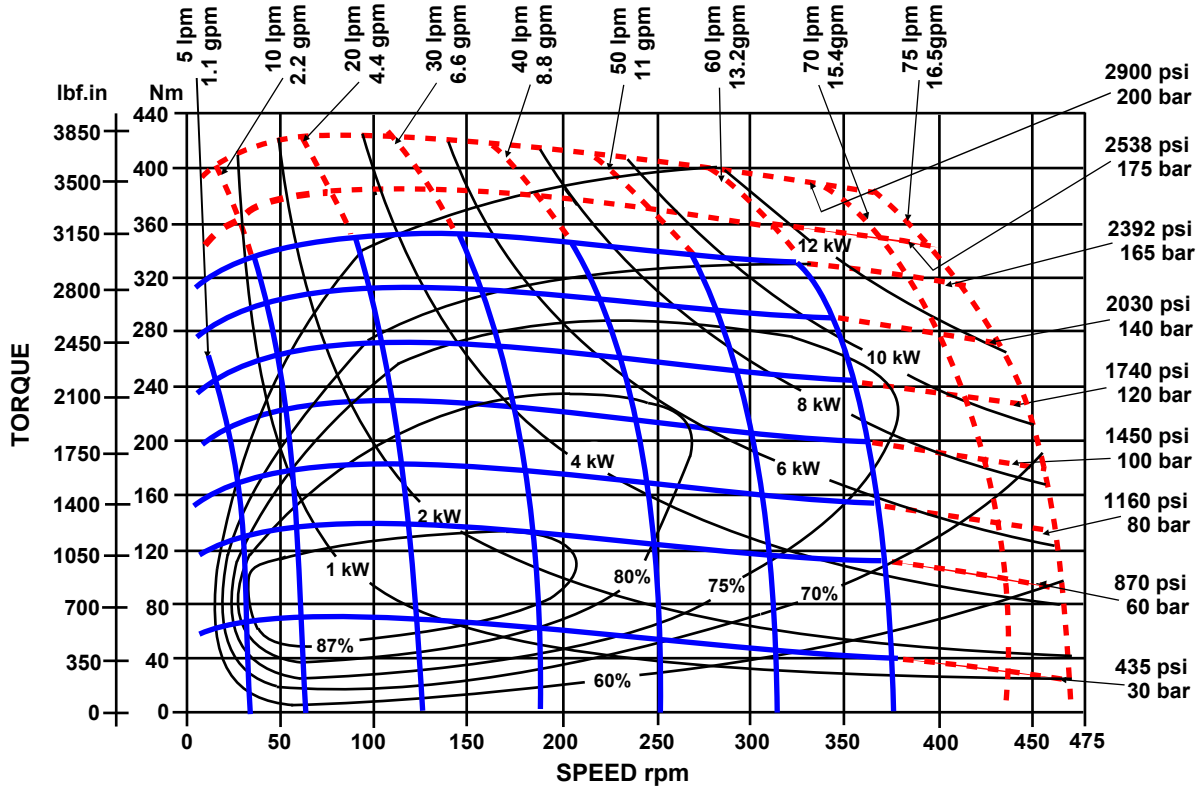
AEMP 125



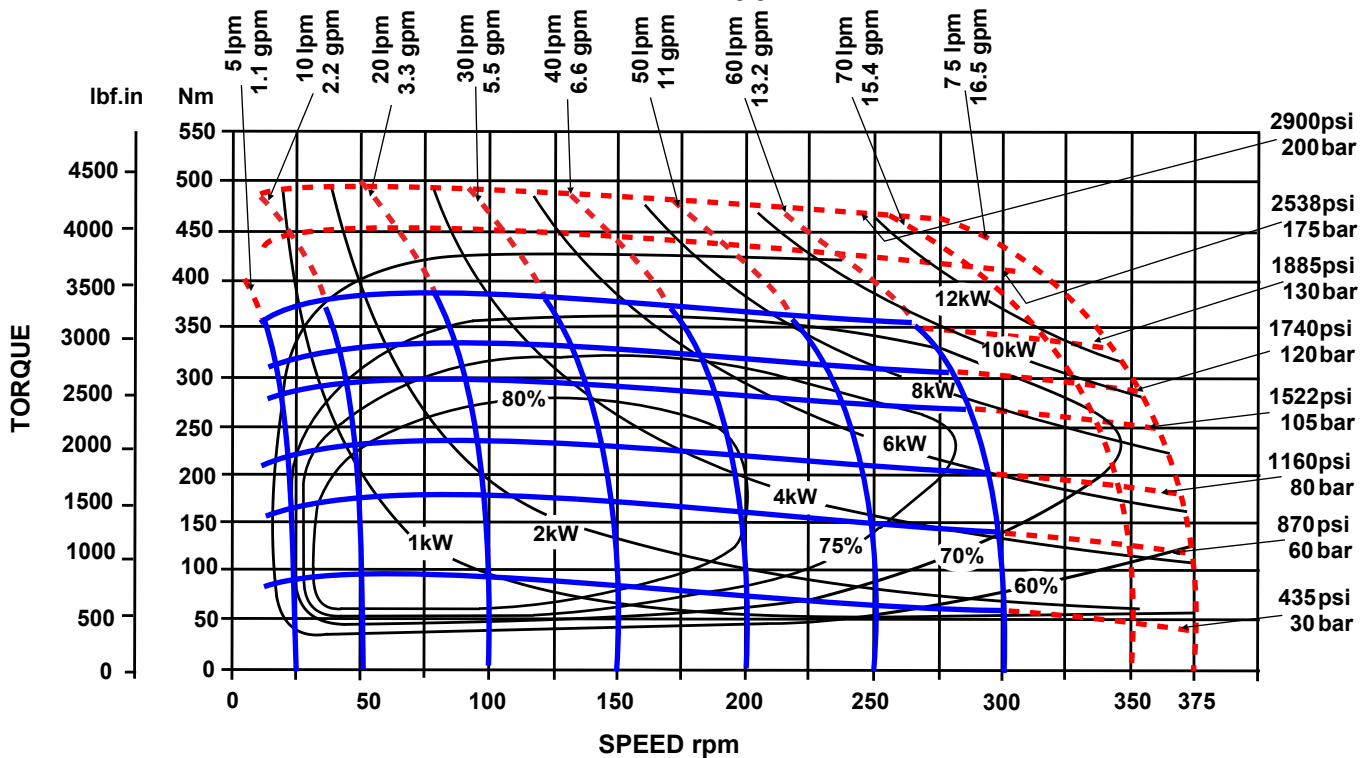
Solid lines represent continuous operation. Doted lines represent intermittent operation. Intermittent operation = 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

Maximum values are dependant on shaft type see note on page 3

AEMP 150



AEMP 200

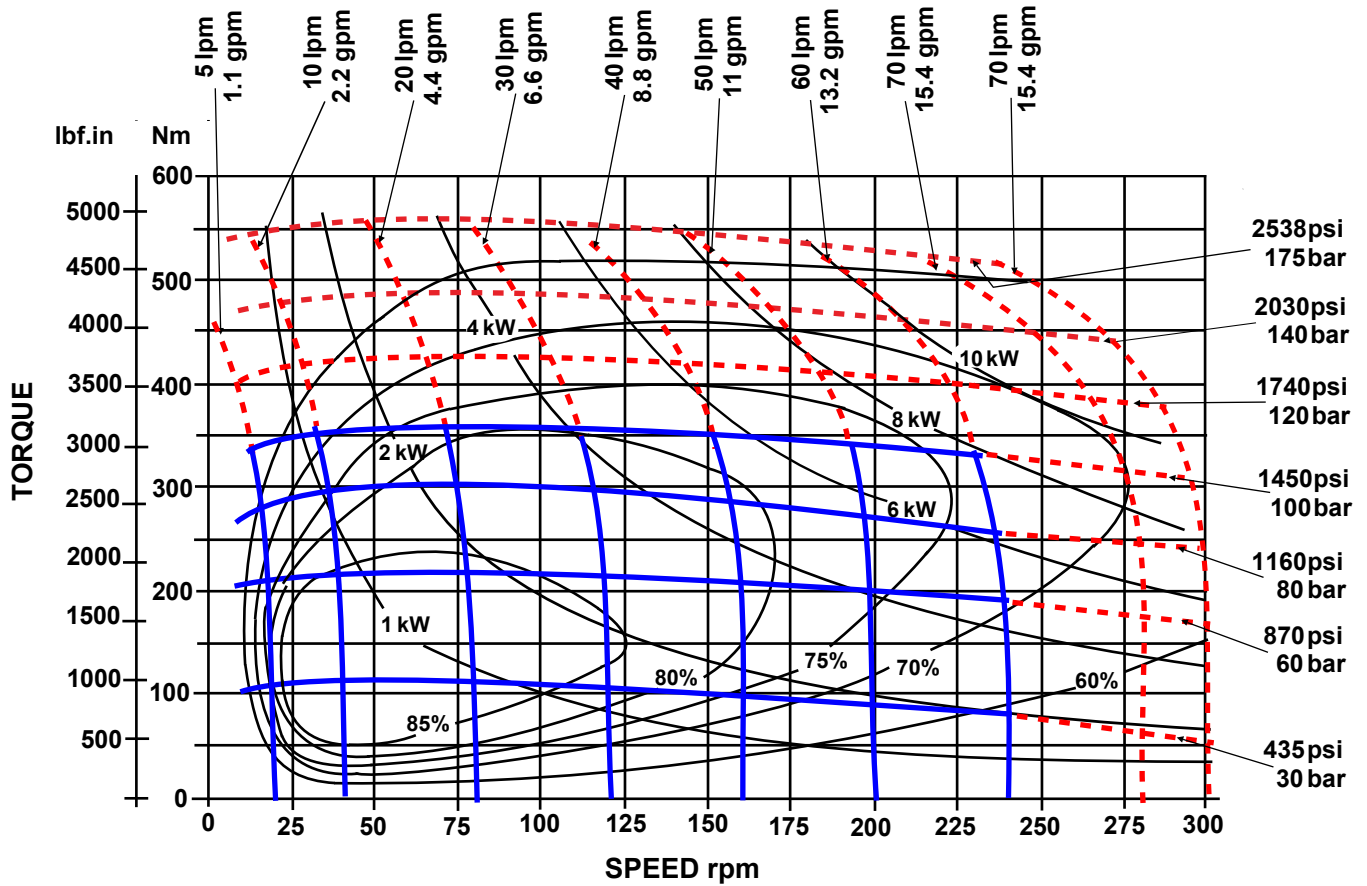




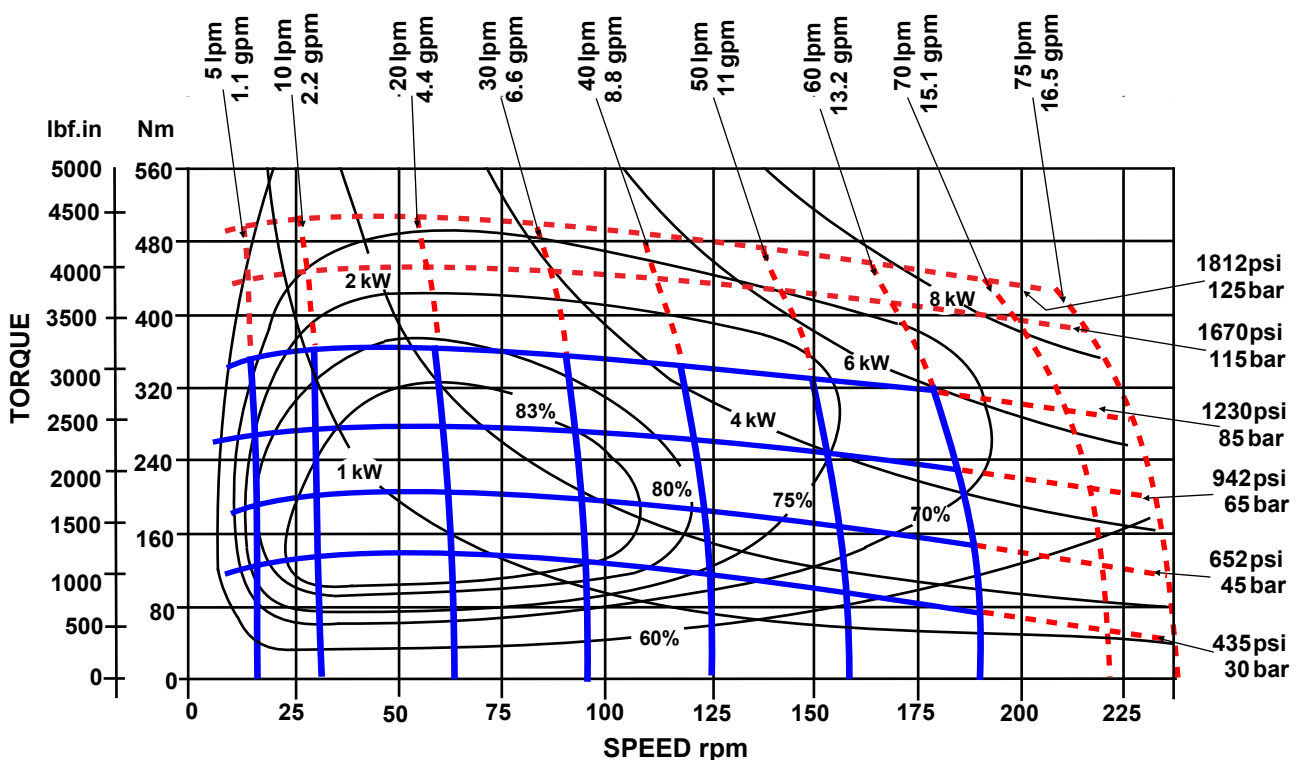
Solid lines represent continuous operation. Dotted lines represent intermittent operation. Intermittent operation = 10% of every minute. Maximum pressure drop and maximum speed must not occur simultaneously.

Maximum values are dependant on shaft type see note on page 3

AEMP 250



AEMP 300



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

Maximum values are dependant on shaft type see note on page 3

AEMP 400

