

**CENTRIFUGAL PUMP**

**UNIT: PUM032**

**PERFORMANCE**

Maximum Operating Pressure	11 psi (80 kPa)
Maximum Head	26.3' (8 m)
NPSH	TBC
Maximum H2S	4.5%

**DRIVE**

Make	Nema
Model	EM-1HP1800EXP
Horsepower	1 HP
RPM	1800 RPM
Volts	230/460 VAC
Amps	3.16-2.86/1.43



**PUMP**

Make	FloTech 1FL6
Model	1FL6 CDY AAA
Flow Rate	13.2 GPM (3 m3/hr)
Inlet	125# 3" (88.9 mm)
Outlet	NPT 2 1/2" (73.0 mm)

**SHIPPING DIMENSIONS**

Width	3' - 0" (0.91 m)
Length	4' - 0" (1.21 m)
Height	5' - 9" (1.75 m)
Weight Estimate	TBD

**CERTIFICATION**

Drive	Class I, Div 1, Group C & D
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Power must be adjusted for abrasive characteristics, viscosity and temperature using factors on the following page.

RPM	Min. Starting Power		NPSHR	
	HP	Kw	FT	M
300	1.00	0.75	1.70	0.52
450	1.50	1.10	2.50	0.76
600	2.00	1.50	3.40	1.04
750	2.00	1.50	4.60	1.40
900	3.00	2.20	6.70	2.04

Max. Recommended RPM: 925

Max. HP/100 RPM:

1.40 HP ( 1.00 Kw) Carbon Steel

0.79 HP (0.60 Kw) Stainless Steel

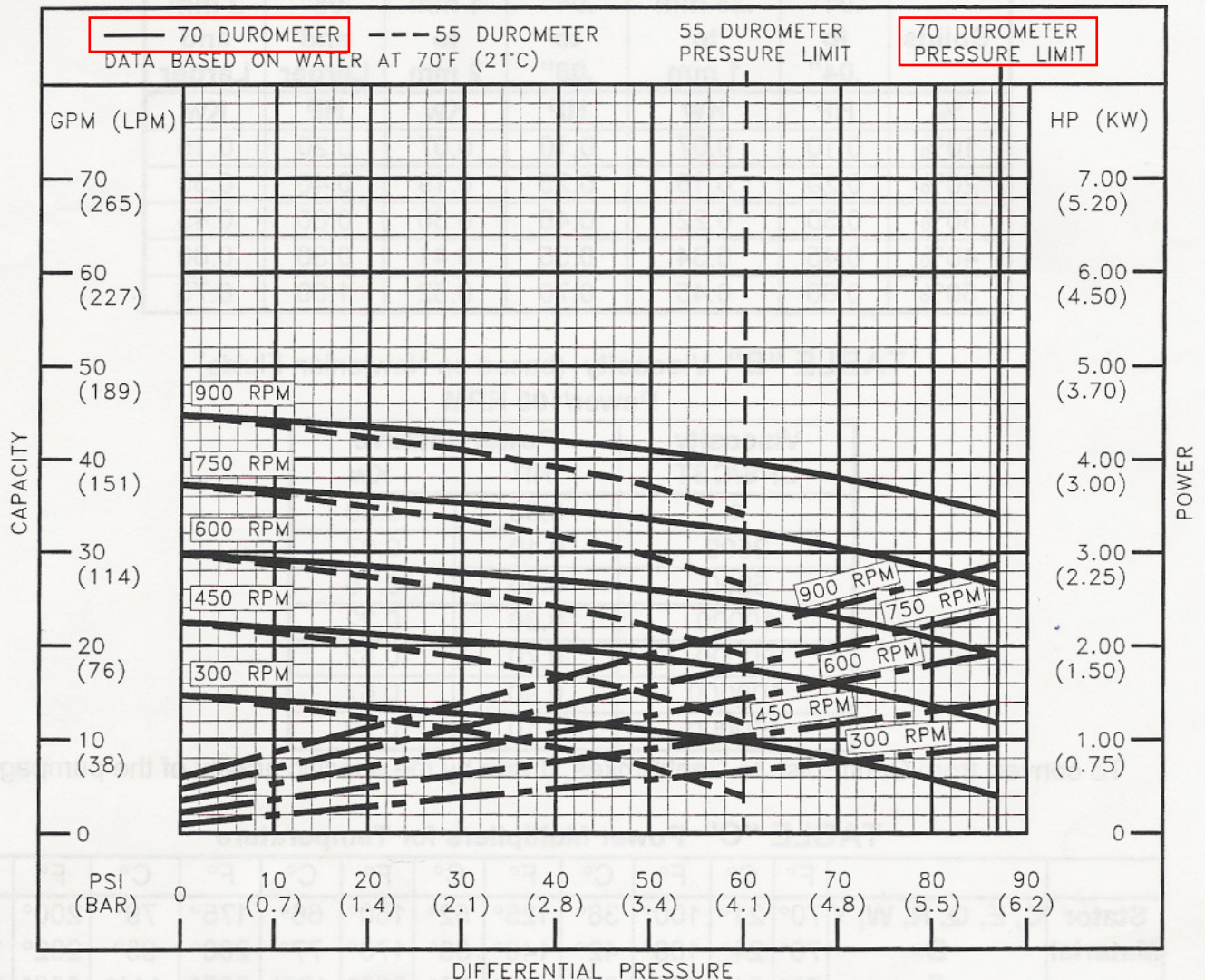
1 Graduation =

CAPACITY: 2.00GPM (7.57 LPM)

POWER: 0.20HP ( 0.15 Kw)

PRESSURE: 2.00PSI ( 0.14 Bar)

R.P.M: 40.00(For flow)



Pressure limits may deviate from those shown due to abrasive characteristics of pumpage.



**POWER ADDITIVES:**

Shown below are power additives for both water based slurries and viscous materials. Determine the appropriate power additive and multiply the value by the speed of the pump divided by 100, and add the resultant figure to the running power from the performance curve and the starting power. If your fluid is a combination of both slurry and viscous materials, use the larger of the solids or viscosity adder. Multiply the corrected starting power by the multiplier from table "C" based on rotor size, temperature, and stator material. Interpolate between values shown, but do not extend tables beyond the limits shown.

**TABLE "A" Water Base Slurries, Power/100 RPM**

Solids	FINE		MEDIUM		COARSE	
	.01" to .04"	.25 mm to 1 mm	.04" to .08"	1 mm to 2 mm	.08" and Larger	2 mm and Larger
%	HP	Kw	HP	Kw	HP	Kw
10%	0.10	0.07	0.10	0.07	0.20	0.15
20%	0.20	0.15	0.25	0.19	0.40	0.30
30%	0.30	0.22	0.40	0.30	0.60	0.45
40%	0.45	0.34	0.55	0.41	0.80	0.60
50%	0.60	0.45	0.70	0.52	1.00	0.75

**TABLE "B" Viscosity (based on Newtonian Fluids) Power/100 RPM**

Viscosity CPS/CST	Power additive	
	HP	Kw
1	0.00	0.00
2500	0.10	0.07
5000	0.20	0.15
10000	0.30	0.22
50000	0.70	0.52
100000	0.90	0.67
150000	1.10	0.82

To convert from CentiPoise to CentiStokes, divide by the specific gravity of the pumpage.

**TABLE "C" Power Multipliers for Temperature**

Stator Material	C, E, Q, R, W, Y B F	F°	C°	F°	C°	F°	C°	F°	C°	F°	C°	F°	C°
		70°	21°	100°	38°	125°	52°	150°	66°	175°	79°	200°	93°
70°	21°	108°	42°	140°	60°	170°	77°	200°	93°	232°	111°	330°	166°
70°	21°	130°	54°	180°	82°	259°	126°	285°	141°	330°	166°		
<b>Standard size rotor</b>		1.00		1.10		1.30		1.60		2.00		2.50	
<b>Undersized rotor</b>		0.75		0.80		0.85		0.95		1.10		1.60	