

POWER SECTION

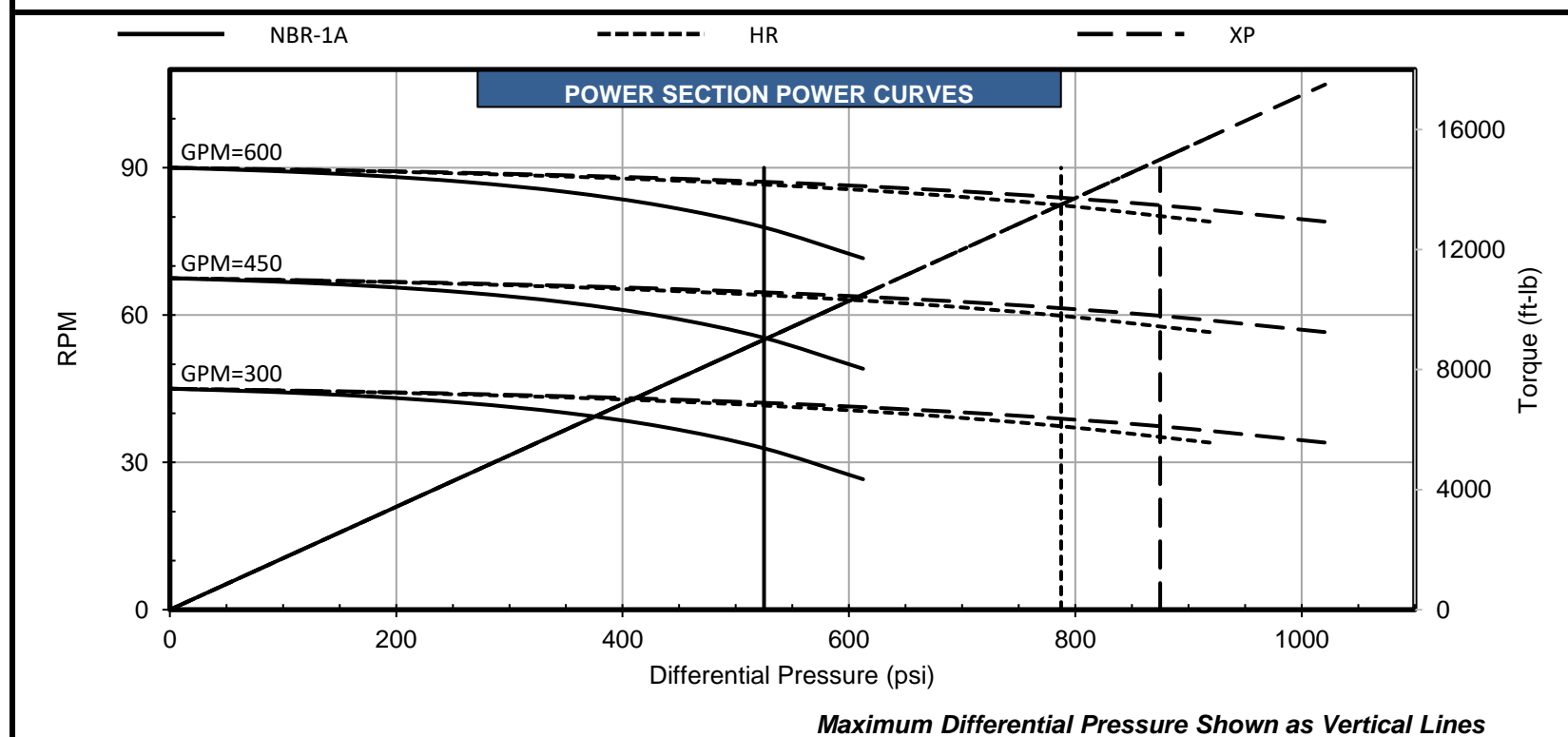
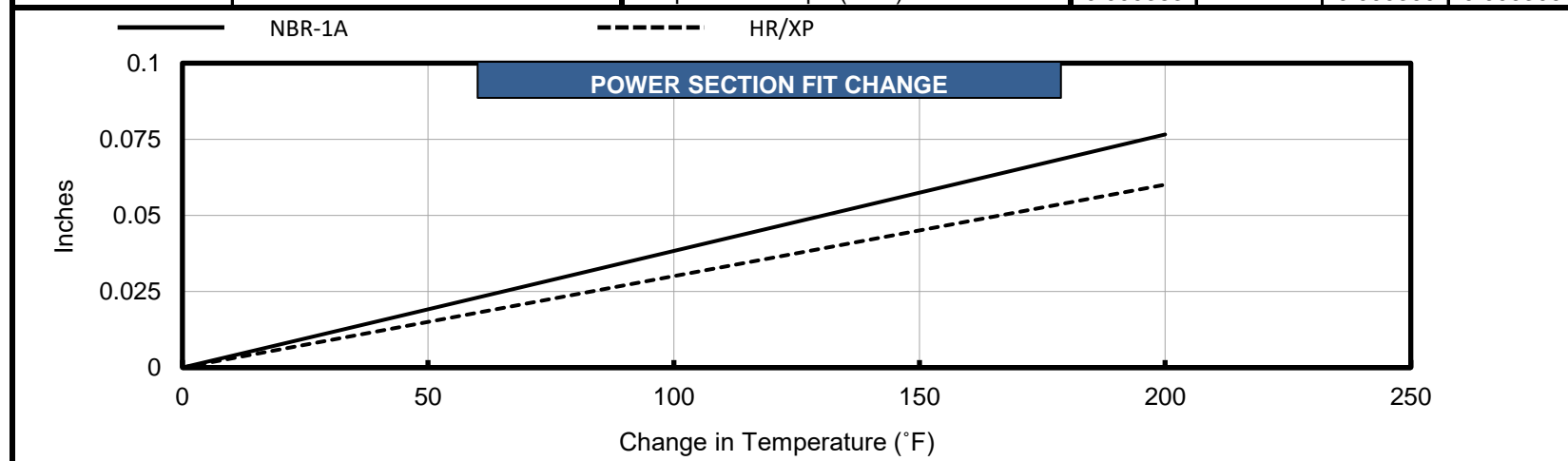
FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	4.135		4.150	4.150*
1 Oversize	4.163		4.163	4.163*
2 Oversize			4.172	4.172*
Nominal Fit at 75°F				
1 Undersize				
Standard	0.011		-0.004	-0.004*
1 Oversize	-0.017		-0.017	-0.017*
2 Oversize			-0.026	-0.026*

*Pending production measurements

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(in)		(in)
Overall Length	252.0	Overall Length	260.0
Contour Length	245.0	Rubber Cutback #1**	8.0
Eccentricity	0.247	Rubber Cutback #2**	8.0
Major Diameter	4.639	Tube O.D.	6.75
Head Diameter	4.500	Tube I.D.	5.50
Weight (lb)	876	Weight (lb)	827
Material	17-4SS	Number of Stages	3.5
Thread Form**	2 7/8 API REG		

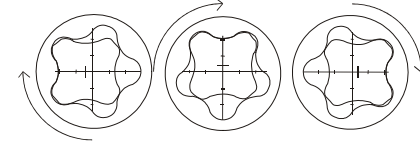
** Alternate or custom thread forms and cutbacks are available upon request

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	17.143 ft-lb/psi	Max. Diff. Press. (psi)	530		790	880
Flow Range	300 to 600 GPM	Max. Torque (ft-lb)	9000		13500	15000
RPG	0.150 rev/gal	Stall Diff. Press. (psi)	790		1180	1310
Speed Range	45 to 90 RPM	Stall Torque (ft-lb)	13500		20250	22500
Off Bottom Press.	150 psi	Max. Recommended (HP)	133		212	235
		PSI Per Stage	150		225	250
		PSI Per Cavity	25		38	42
		Temperature Slope (in/°F)	0.000383		0.000300	0.000300



Maximum Differential Pressure Shown as Vertical Lines

Operating a power section above the maximum recommended differential pressure will reduce stator life. Performance curves are for reference only. Actual power section performance may vary depending on the down hole temperature and rotor/stator fit. Performance data are subject to change without notice. Power calculation is based on maximum RPM and full torque. Stator sizes subject to change without notice.



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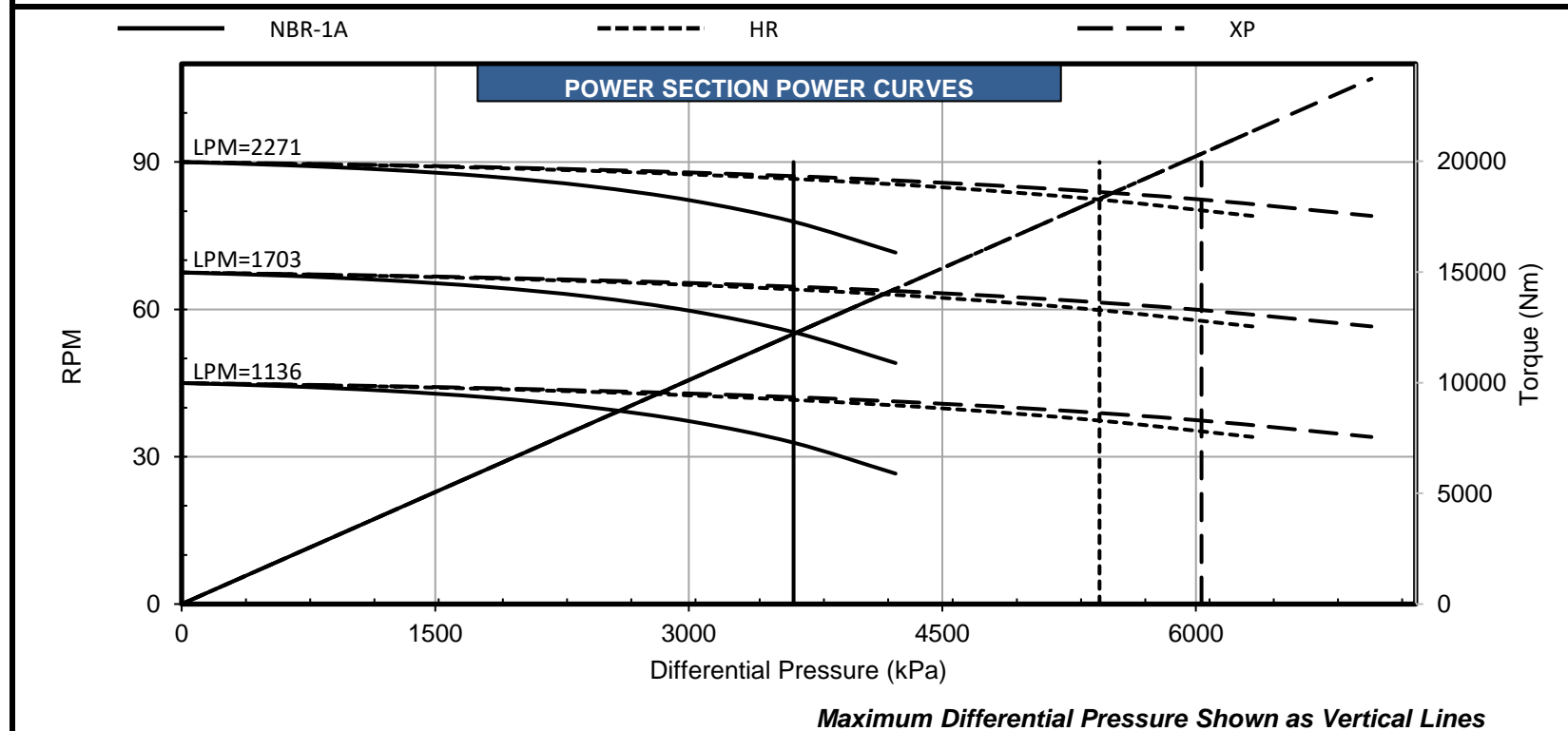
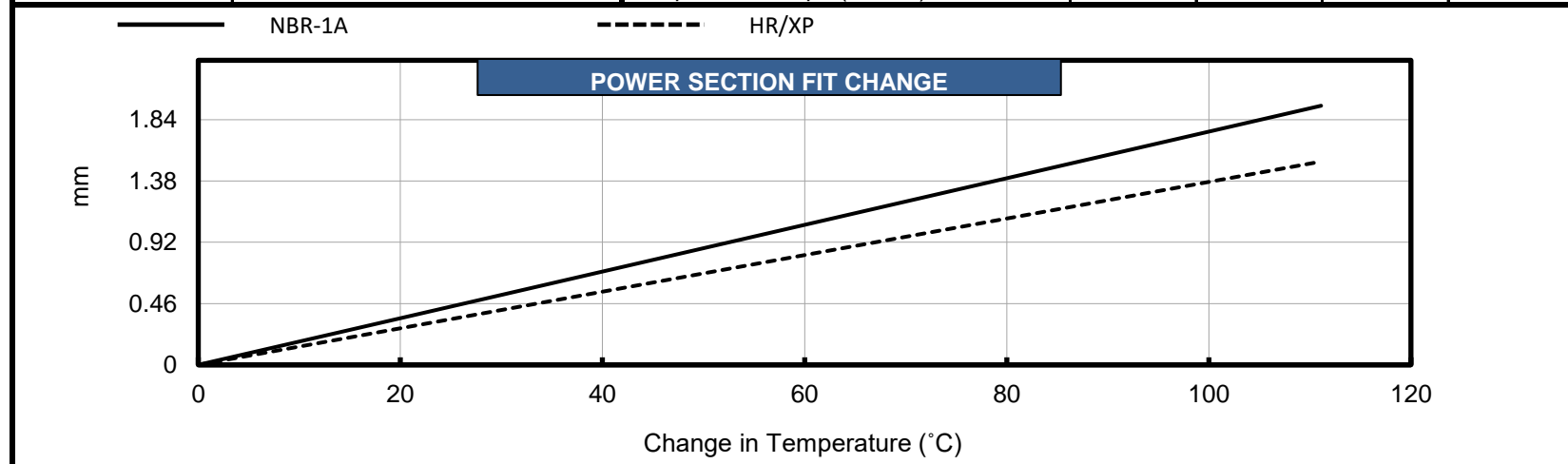
FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	105.03		105.41	105.41*
1 Oversize	105.74		105.74	105.74*
2 Oversize			105.97	105.97*
Nominal Fit at 75°F				
1 Undersize				
Standard	0.28		-0.10	-0.10*
1 Oversize	-0.43		-0.43	-0.43*
2 Oversize			-0.66	-0.66*

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(mm)		(mm)
Overall Length	6400.8	Overall Length	6604.0
Contour Length	6223.0	Rubber Cutback #1**	203.2
Eccentricity	6.26	Rubber Cutback #2**	203.2
Major Diameter	117.83	Tube O.D.	171.5
Head Diameter	114.30	Tube I.D.	139.7
Weight (kg)	397	Weight (kg)	375
Material	17-4SS	Number of Stages	3.5
Thread Form**	2 7/8 API REG		

*Pending production measurements

** Alternate or custom thread forms and cutbacks are available upon request

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	3.371 Nm/kPa	Max. Diff. Press. (kPa)	3654		5447	6067
Flow Range	1136 to 2271 Litre/min	Max. Torque (Nm)	12202		18304	20337
RPG	0.040 rev/litre	Stall Diff. Press. (kPa)	5447		8136	9032
Speed Range	45 to 90 RPM	Stall Torque (Nm)	18304		27455	30506
Off Bottom Press.	1034 kPa	Max. Recommended (kW)	100		158	175
		kPa Per Stage	1034		1551	1724
		kPa Per Cavity	172		262	290
		Temperature Slope (mm/°C)	0.0175		0.0137	0.0137



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