

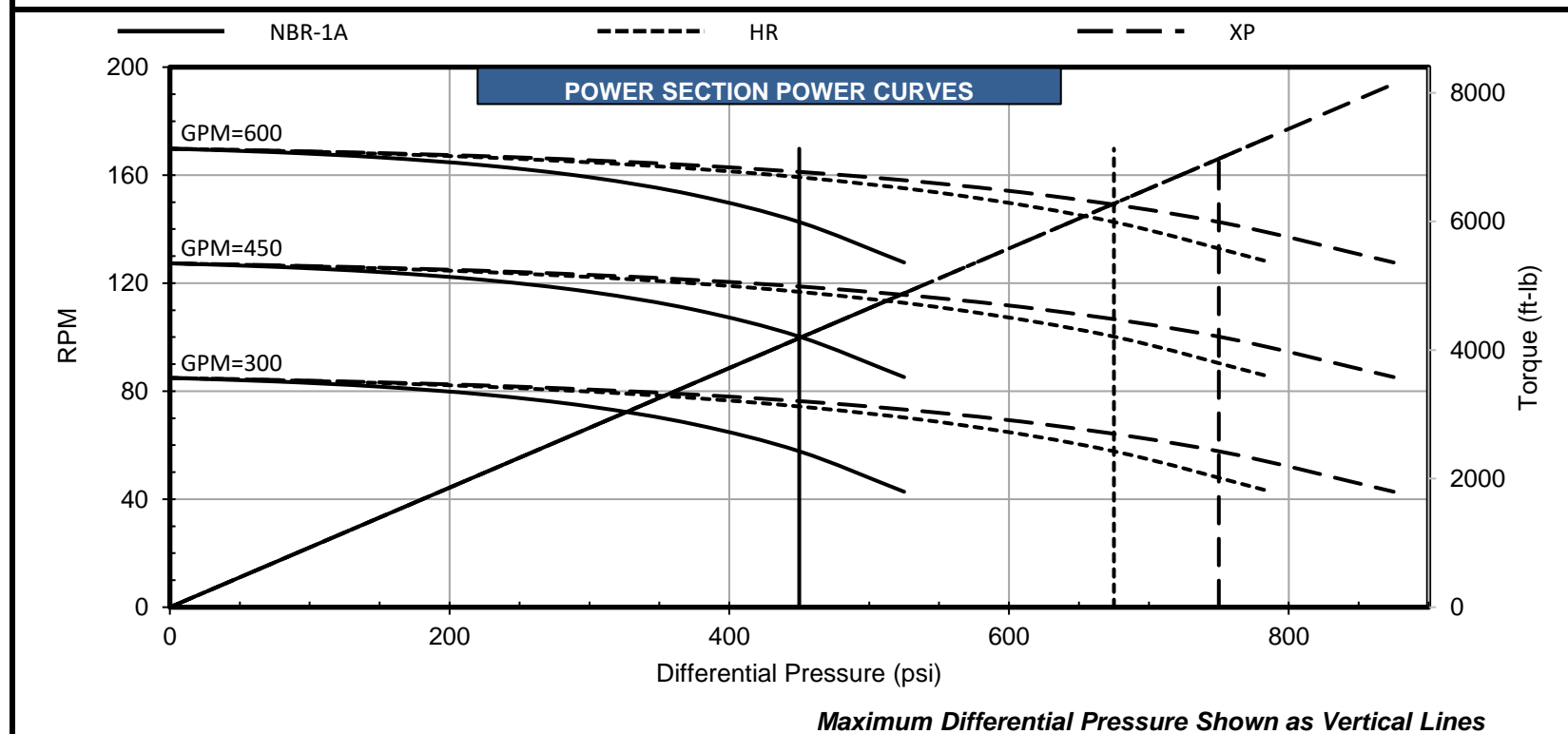
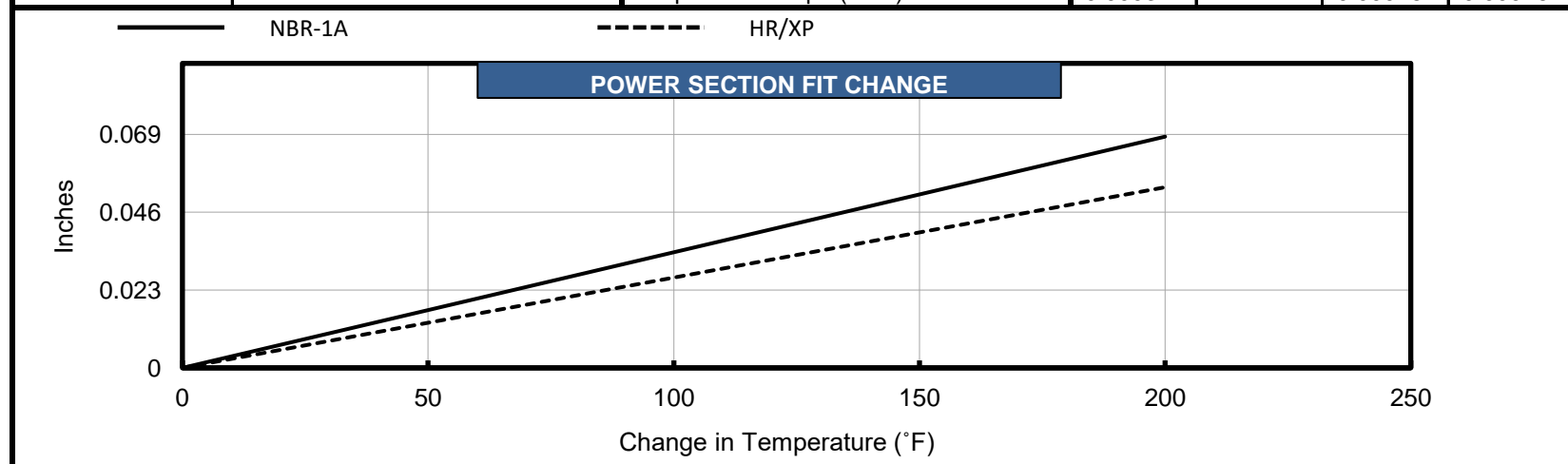
POWER SECTION

FIT INFORMATION - MINOR DIAMETER (in)					ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Stator Size	NBR-1A	DynaPower			(in)	(in)	(in)	(in)
		XR	HR	XP				
1 Undersize			3.997	3.973*	Overall Length	118.5	Overall Length	125.0
Standard	3.985		3.995	3.995*	Contour Length	111.8	Rubber Cutback #1**	7.3
1 Oversize	4.003		4.012	4.012*	Eccentricity	0.256	Rubber Cutback #2**	7.3
2 Oversize	4.037				Major Diameter	4.520	Tube O.D.	6.50
Nominal Fit at 75°F					Head Diameter	4.000	Tube I.D.	5.50
1 Undersize			0.011	0.035*	Weight (lb)	357	Weight (lb)	385
Standard	0.023		0.013	0.013*	Material	17-4SS	Number of Stages	3.0
1 Oversize	0.005		-0.004	-0.004*	Thread Form**	2 7/8 API REG		
2 Oversize	-0.029							

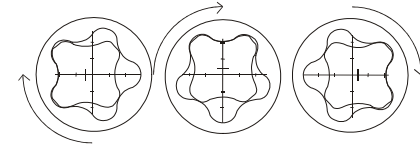
*Pending production measurements

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

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	9.300 ft-lb/psi	Max. Diff. Press. (psi)	450		680	750
Flow Range	300 to 600 GPM	Max. Torque (ft-lb)	4190		6280	6980
RPG	0.283 rev/gal	Stall Diff. Press. (psi)	680		1010	1130
Speed Range	85 to 170 RPM	Stall Torque (ft-lb)	6280		9420	10460
Off Bottom Press.	133 psi	Max. Recommended (HP)	114		171	189
		PSI Per Stage	150		225	250
		PSI Per Cavity	26		40	44
		Temperature Slope (in/°F)	0.000342		0.000267	0.000267



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.



POWER SECTION

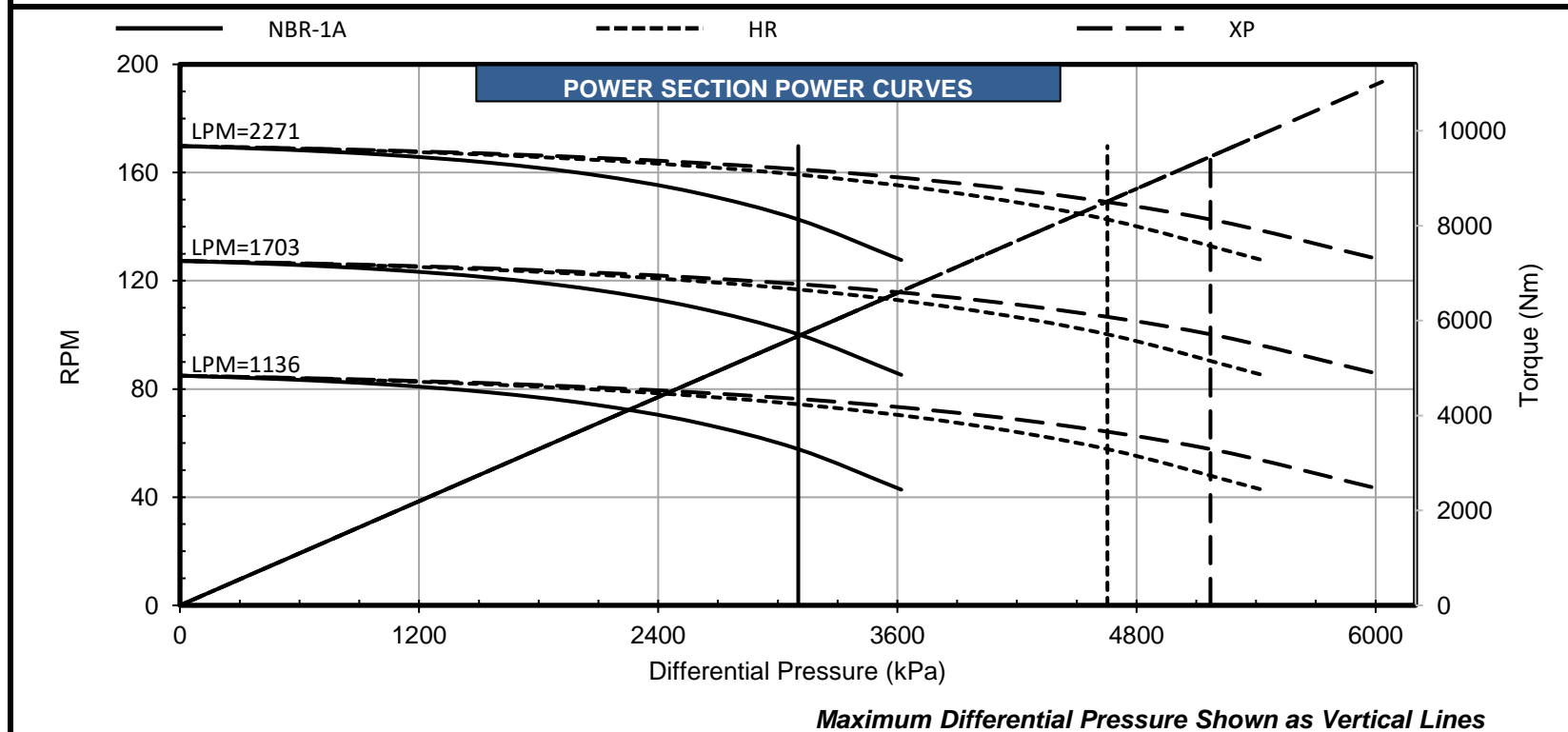
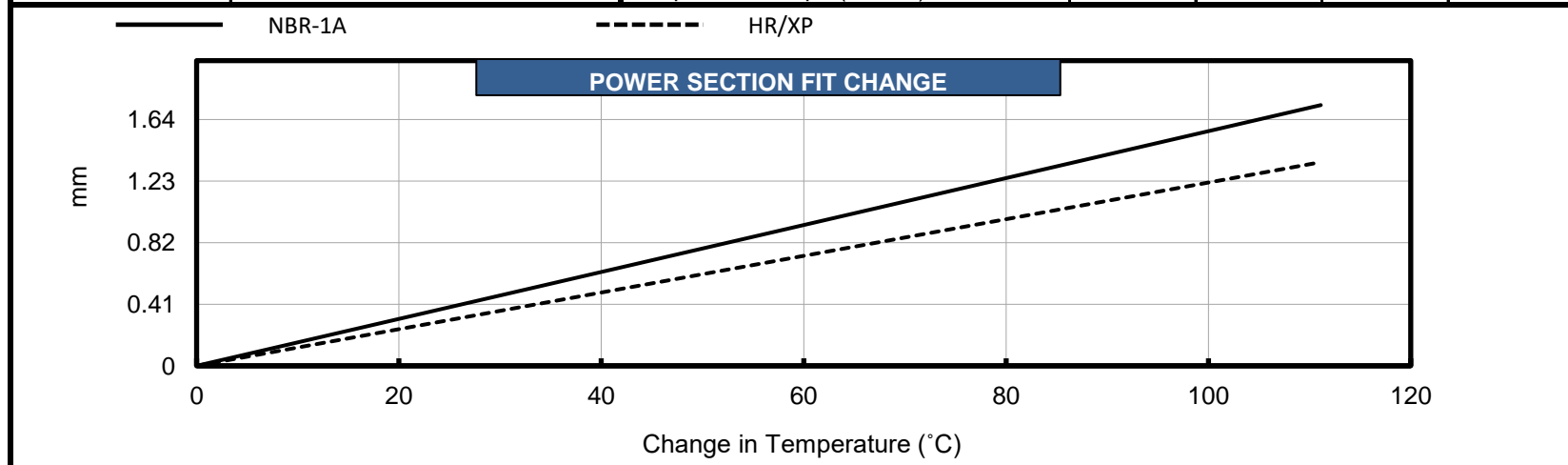
FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize			101.52	100.91*
Standard	101.22		101.47	101.47*
1 Oversize	101.68		101.90	101.90*
2 Oversize	102.54			
Nominal Fit at 75°F				
1 Undersize			0.28	0.89*
Standard	0.58		0.33	0.33*
1 Oversize	0.13		-0.10	-0.10*
2 Oversize	-0.74			

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(mm)		(mm)
Overall Length	3009.9	Overall Length	3175.0
Contour Length	2839.7	Rubber Cutback #1**	185.4
Eccentricity	6.50	Rubber Cutback #2**	185.4
Major Diameter	114.81	Tube O.D.	165.1
Head Diameter	101.60	Tube I.D.	139.7
Weight (kg)	162	Weight (kg)	175
Material	17-4SS	Number of Stages	3.0
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	1.829 Nm/kPa	3103		4688	5171	
Flow Range	1136 to 2271 Litre/min	5681		8515	9464	
RPG	0.075 rev/litre	4688		6964	7791	
Speed Range	85 to 170 RPM	8515		12772	14182	
Off Bottom Press.	917 kPa	85		127	141	
		kPa Per Stage		1034	1551	1724
		kPa Per Cavity		179	276	303
		Temperature Slope (mm/°C)	0.0156	0.0122	0.0122	



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