



POWER SECTION

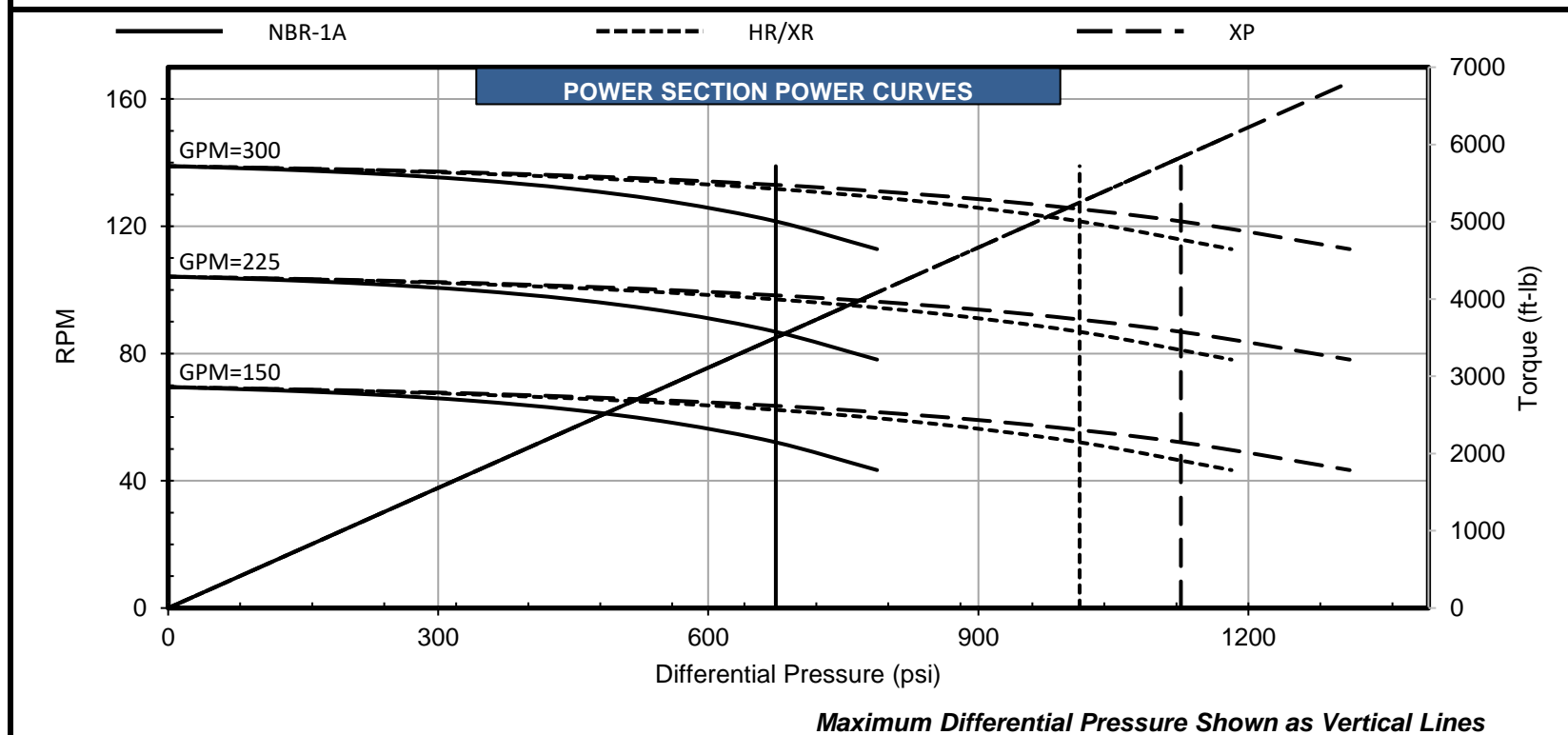
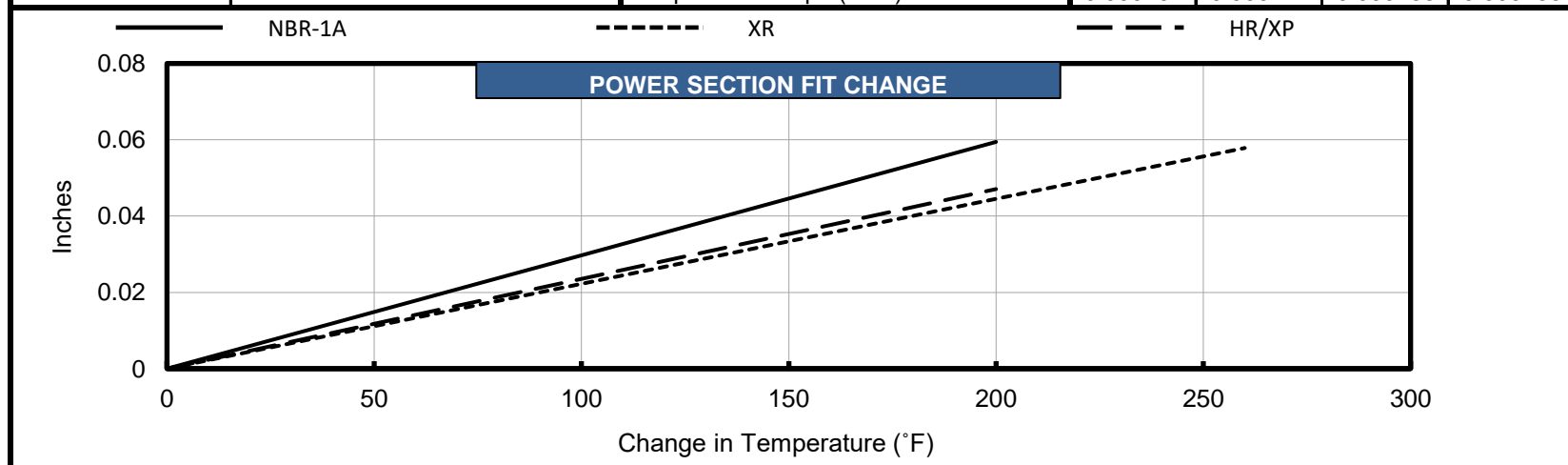
FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize			2.737*	2.737
Standard	2.744	2.759	2.746	2.746*
1 Oversize	2.762	2.773	2.763	2.763*
2 Oversize				
Nominal Fit at 75°F				
1 Undersize			0.011*	0.011
Standard	0.004	-0.011	0.002	0.002*
1 Oversize	-0.014	-0.025	-0.015	-0.015*
2 Oversize				

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(in)		(in)
Overall Length	220.0	Overall Length	229.3
Contour Length	214.3	Rubber Cutback #1**	8.0
Eccentricity	0.172	Rubber Cutback #2**	8.0
Major Diameter	3.091	Tube O.D.	4.75
Head Diameter	2.750	Tube I.D.	3.75
Weight (lb)	323	Weight (lb)	425
Material	17-4SS	Number of Stages	4.5
Thread Form**	2 3/8 Hughes External Flush Mod Flat		

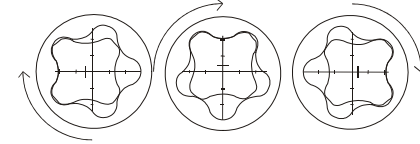
*Pending production measurements

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

PERFORMANCE SPECIFICATIONS							
			NBR-1A	XR	HR	XP	
Torque Slope	5.185 ft-lb/psi	Max. Diff. Press. (psi)	680	1010	1010	1130	
Flow Range	150 to 300 GPM	Max. Torque (ft-lb)	3500	5250	5250	5830	
RPG	0.463 rev/gal	Stall Diff. Press. (psi)	1010	1520	1520	1690	
Speed Range	69 to 139 RPM	Stall Torque (ft-lb)	5250	7870	7870	8750	
Off Bottom Press.	70 psi	Max. Recommended (HP)	81	122	122	135	
		PSI Per Stage	150	225	225	250	
		PSI Per Cavity	23	35	35	39	
		Temperature Slope (in/°F)	0.000297	0.000222	0.000235	0.000235	



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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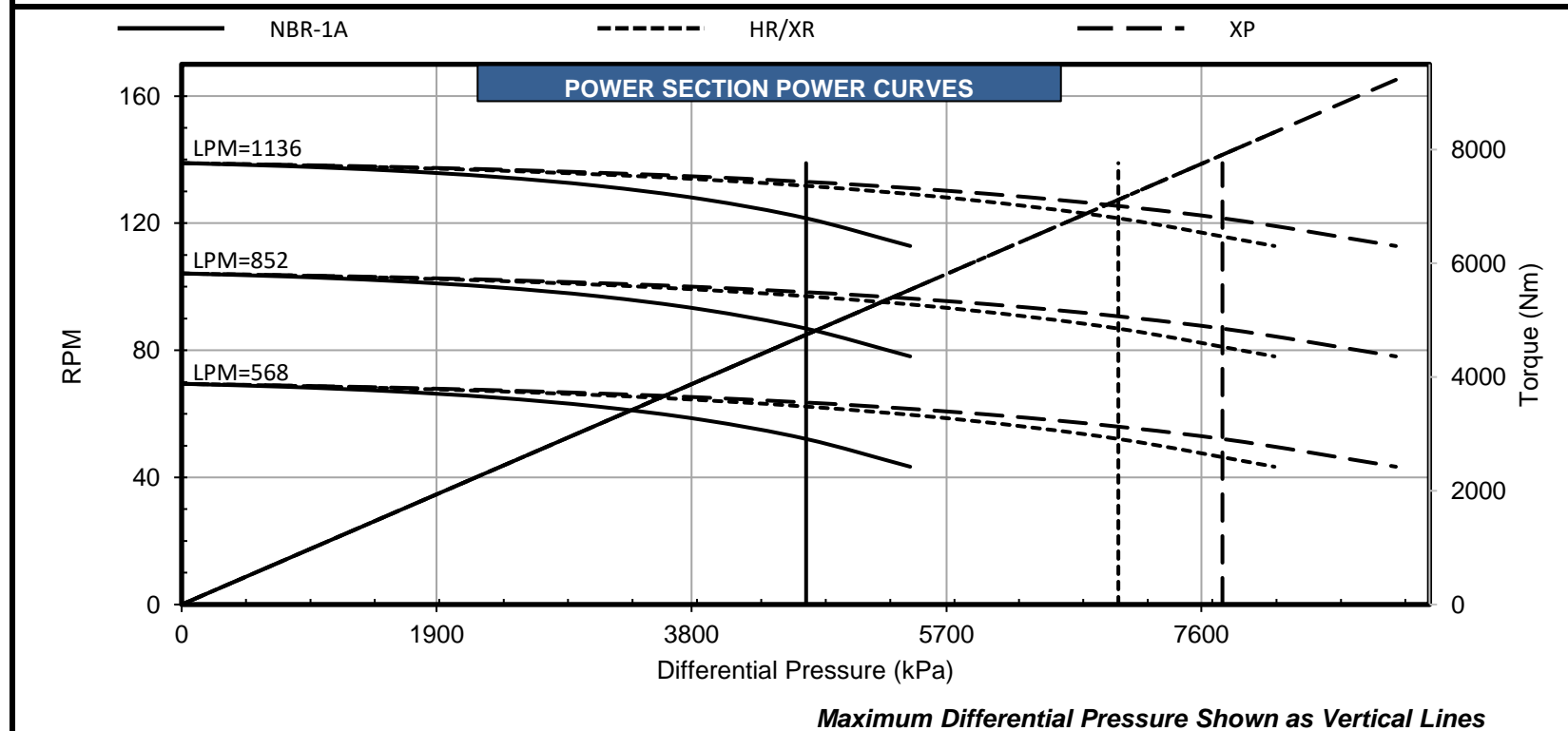
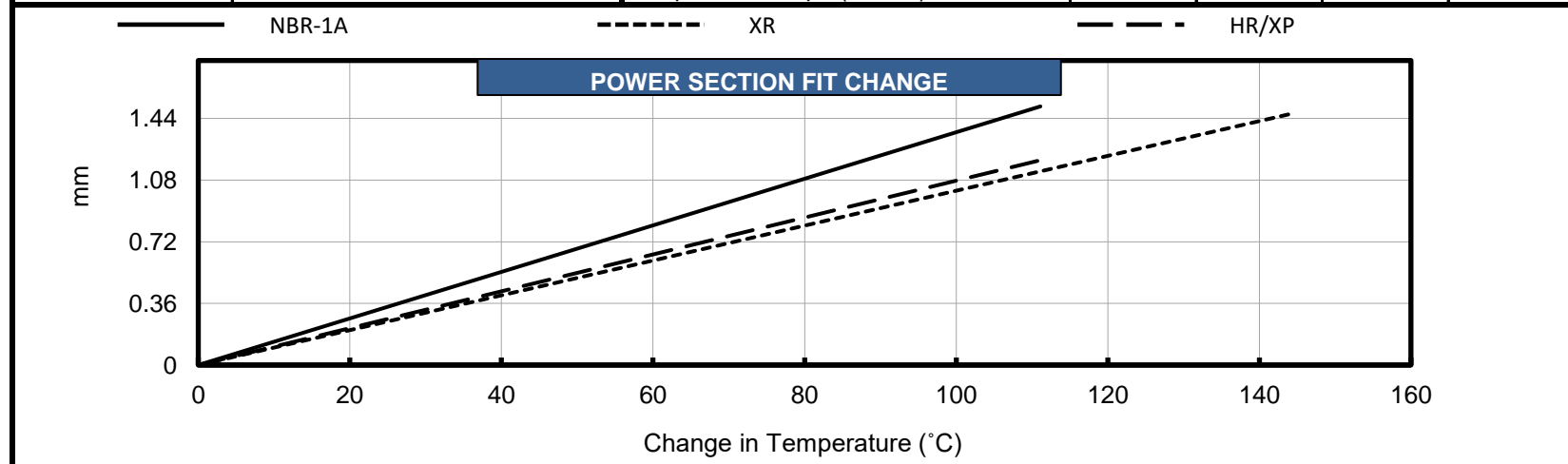
FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize			69.52*	69.52
Standard	69.70	70.08	69.75	69.75*
1 Oversize	70.15	70.43	70.18	70.18*
2 Oversize				
Nominal Fit at 75°F				
1 Undersize			0.28*	0.28
Standard	0.10	-0.28	0.05	0.05*
1 Oversize	-0.36	-0.64	-0.38	-0.38*
2 Oversize				

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(mm)		(mm)
Overall Length	5588.0	Overall Length	5824.2
Contour Length	5443.2	Rubber Cutback #1**	203.2
Eccentricity	4.36	Rubber Cutback #2**	203.2
Major Diameter	78.51	Tube O.D.	120.7
Head Diameter	69.85	Tube I.D.	95.3
Weight (kg)	147	Weight (kg)	193
Material	17-4SS	Number of Stages	4.5
Thread Form**	2 3/8 Hughes External Flush Mod Flat		

*Pending production measurements

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PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	1.020 Nm/kPa	Max. Diff. Press. (kPa)	4688	6964	6964	7791
Flow Range	568 to 1136 Litre/min	Max. Torque (Nm)	4745	7118	7118	7904
RPG	0.122 rev/litre	Stall Diff. Press. (kPa)	6964	10480	10480	11652
Speed Range	69 to 139 RPM	Stall Torque (Nm)	7118	10670	10670	11863
Off Bottom Press.	483 kPa	Max. Recommended (kW)	60	91	91	101
		kPa Per Stage	1034	1551	1551	1724
		kPa Per Cavity	159	241	241	269
		Temperature Slope (mm/°C)	0.0136	0.0102	0.0108	0.0108



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