

POWER SECTION

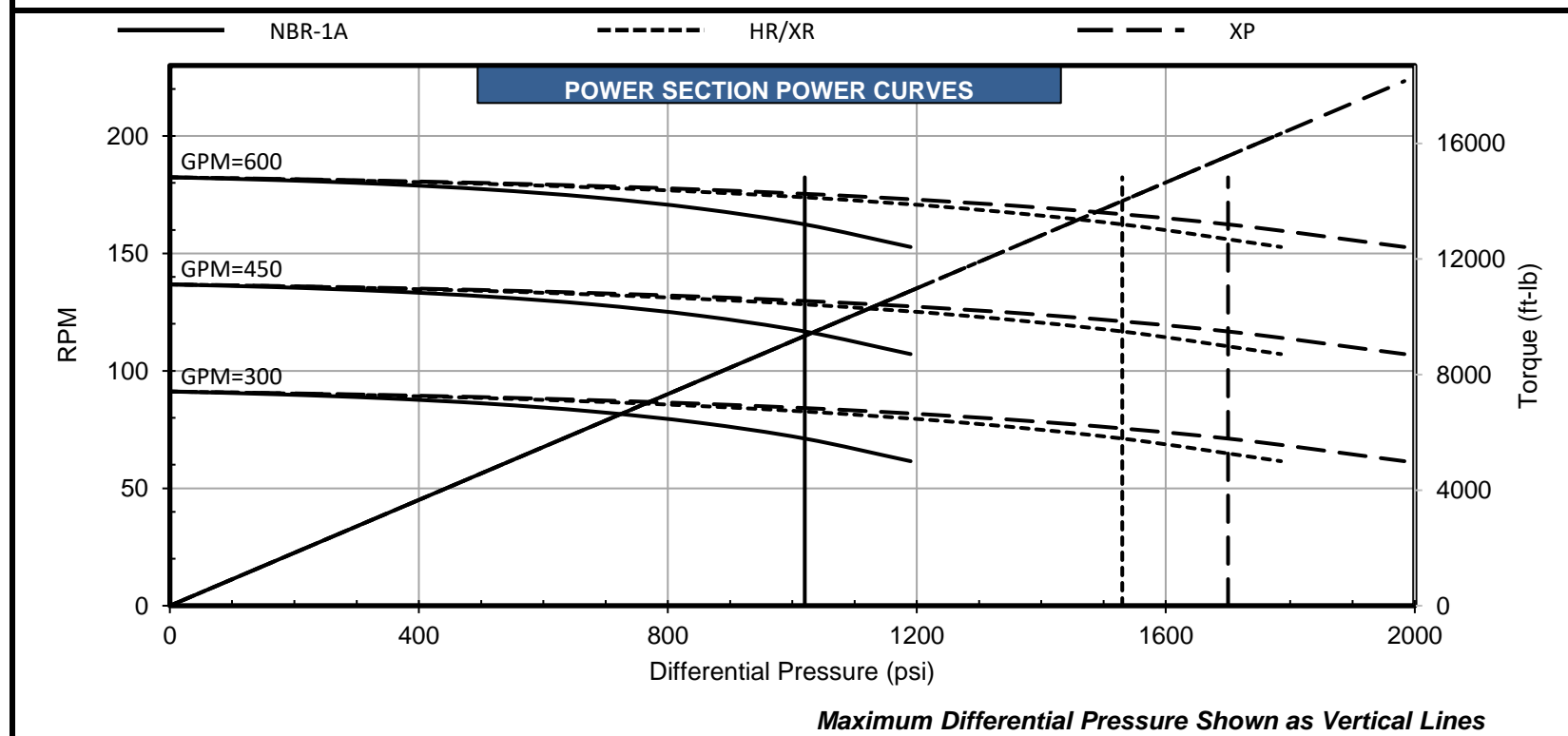
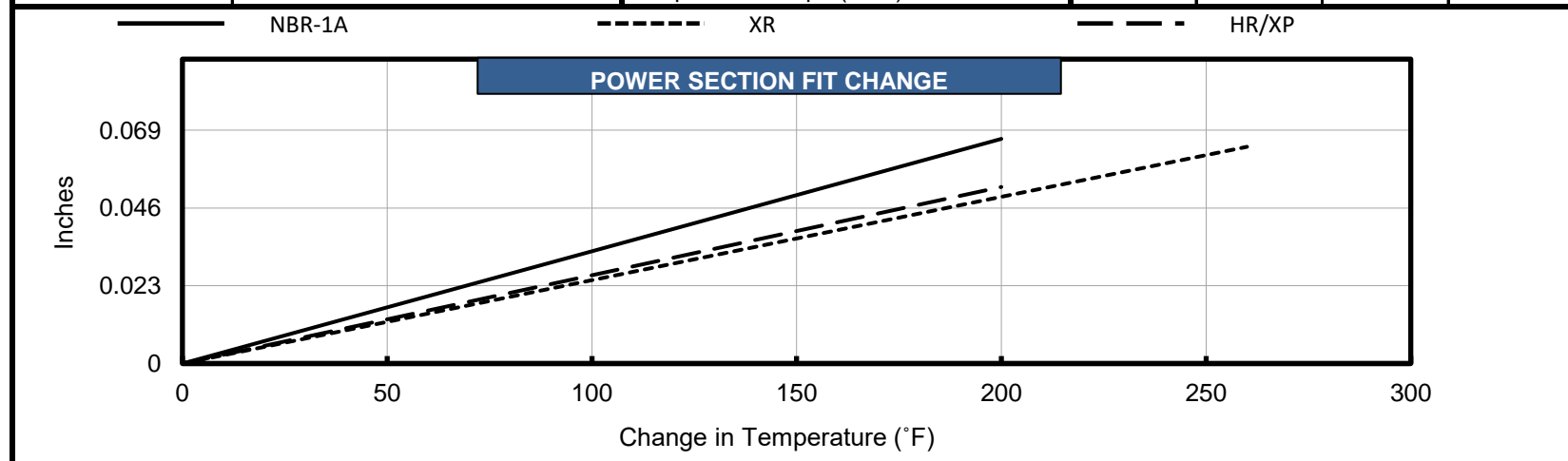
FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize		4.011*	4.011*	4.011*
Standard	4.017	4.022*	4.022	4.022*
1 Oversize	4.048	4.062	4.052	4.052*
2 Oversize	4.078			
3 Oversize		4.079		
Nominal Fit at 75°F				
1 Undersize		0.026*	0.026*	0.026*
Standard	0.020	0.015*	0.015	0.015*
1 Oversize	-0.011	-0.025	-0.015	-0.015*
2 Oversize	-0.041			
3 Oversize		-0.042		

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(in)		(in)
Overall Length	233.0	Overall Length	246.0
Contour Length	226.0	Rubber Cutback #1**	7.0
Eccentricity	0.250	Rubber Cutback #2**	15.0
Major Diameter	4.538	Tube O.D.	7.00
Head Diameter	4.500	Tube I.D.	5.50
Weight (lb)	770	Weight (lb)	1093
Material	17-4SS	Number of Stages	6.8
Thread Form**	2 7/8 HUGHES SLIMLINE H-90		

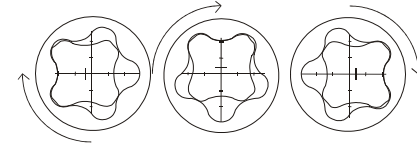
*Pending production measurements

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

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	9.157 ft-lb/psi	Max. Diff. Press. (psi)	1020	1530	1530	1700
Flow Range	300 to 600 GPM	Max. Torque (ft-lb)	9340	14010	14010	15570
RPG	0.304 rev/gal	Stall Diff. Press. (psi)	1530	2300	2300	2550
Speed Range	91 to 182 RPM	Stall Torque (ft-lb)	14010	21020	21020	23350
Off Bottom Press.	155 psi	Max. Recommended (HP)	289	433	433	481
		PSI Per Stage	150	225	225	250
		PSI Per Cavity	22	32	32	36
		Temperature Slope (in/°F)	0.000332	0.000246	0.000261	0.000261



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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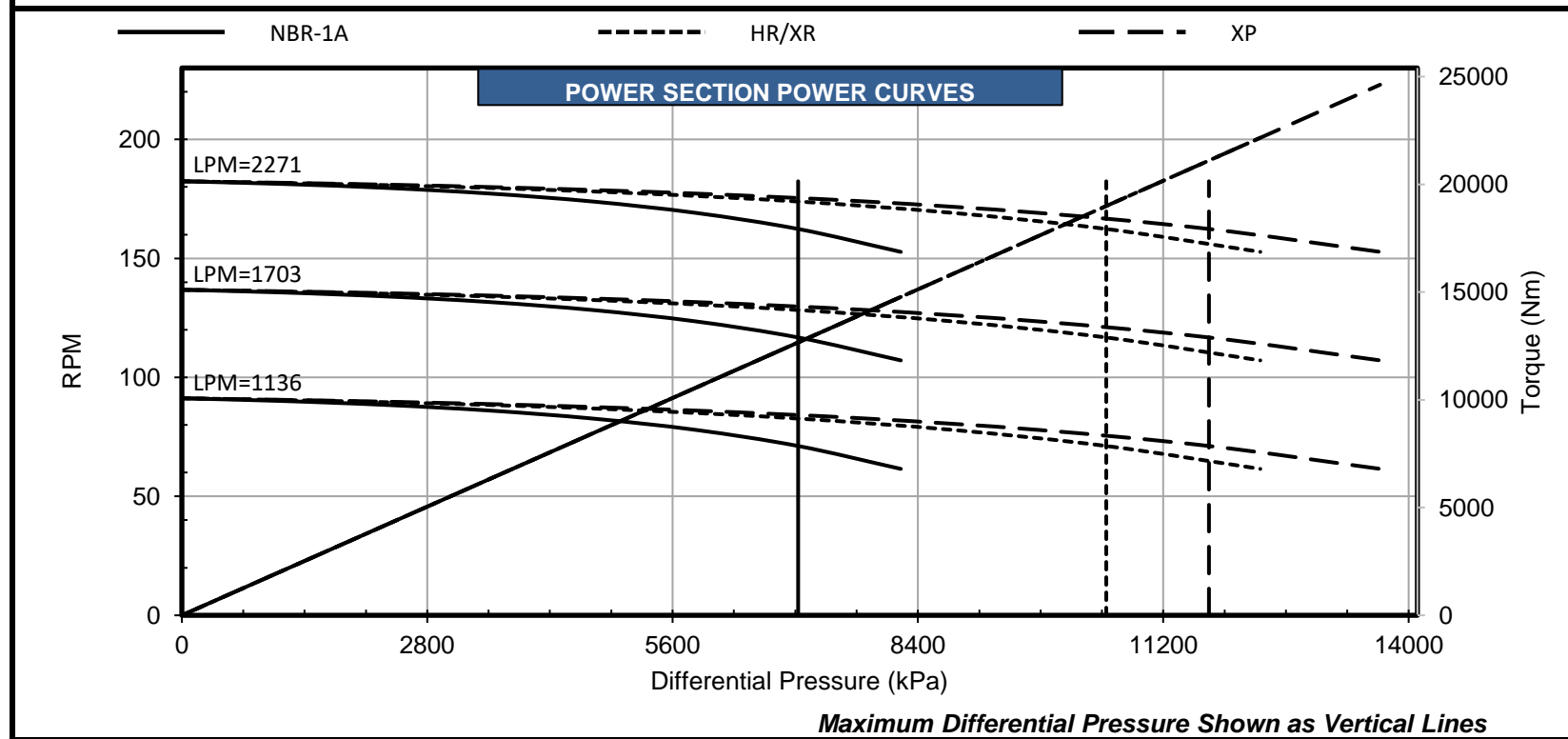
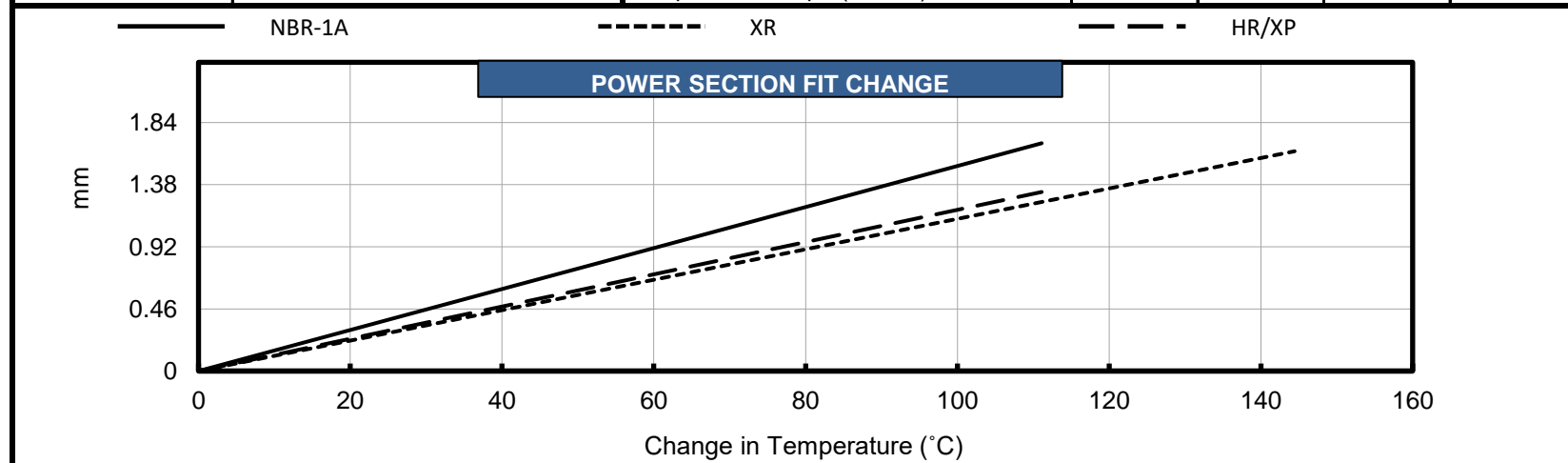
FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize		101.88*	101.88*	101.88*
Standard	102.03	102.16*	102.16	102.16*
1 Oversize	102.82	103.17	102.92	102.92*
2 Oversize	103.58			
3 Oversize		103.61		
Nominal Fit at 75°F				
1 Undersize		0.66*	0.66*	0.66*
Standard	0.51	0.38*	0.38	0.38*
1 Oversize	-0.28	-0.64	-0.38	-0.38*
2 Oversize	-1.04			
3 Oversize		-1.07		

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(mm)		(mm)
Overall Length	5918.2	Overall Length	6248.4
Contour Length	5740.4	Rubber Cutback #1**	177.8
Eccentricity	6.36	Rubber Cutback #2**	381.0
Major Diameter	115.27	Tube O.D.	177.8
Head Diameter	114.30	Tube I.D.	139.7
Weight (kg)	349	Weight (kg)	496
Material	17-4SS	Number of Stages	6.8
Thread Form**	2 7/8 HUGHES SLIMLINE H-90		

*Pending production measurements

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

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	1.801 Nm/kPa	Max. Diff. Press. (kPa)	7033	10549	10549	11721
Flow Range	1136 to 2271 Litre/min	Max. Torque (Nm)	12663	18995	18995	21110
RPG	0.080 rev/litre	Stall Diff. Press. (kPa)	10549	15858	15858	17582
Speed Range	91 to 182 RPM	Stall Torque (Nm)	18995	28499	28499	31658
Off Bottom Press.	1069 kPa	Max. Recommended (kW)	215	323	323	359
		kPa Per Stage	1034	1551	1551	1724
		kPa Per Cavity	152	221	221	248
		Temperature Slope (mm/°C)	0.0152	0.0113	0.0119	0.0119



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