

POWER SECTION

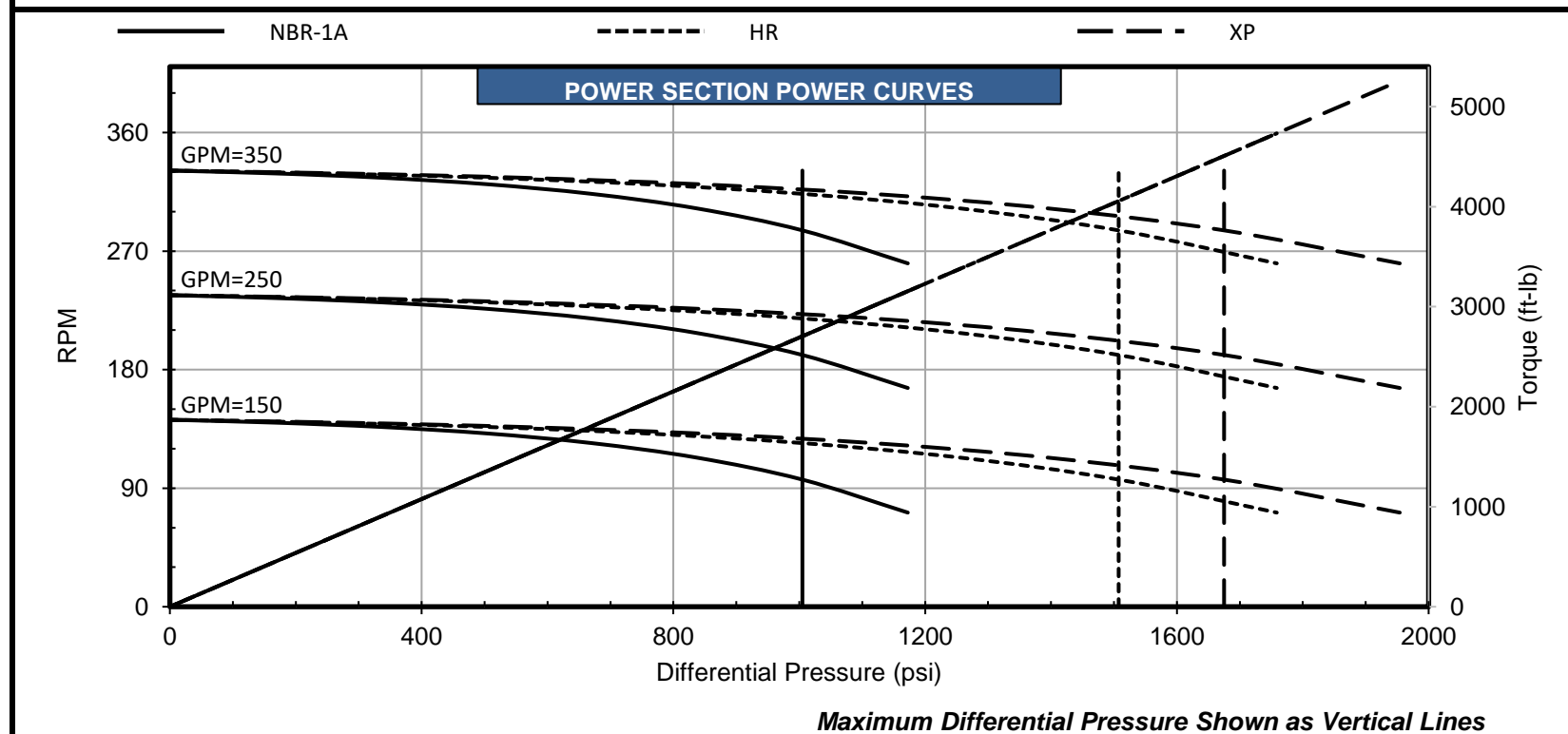
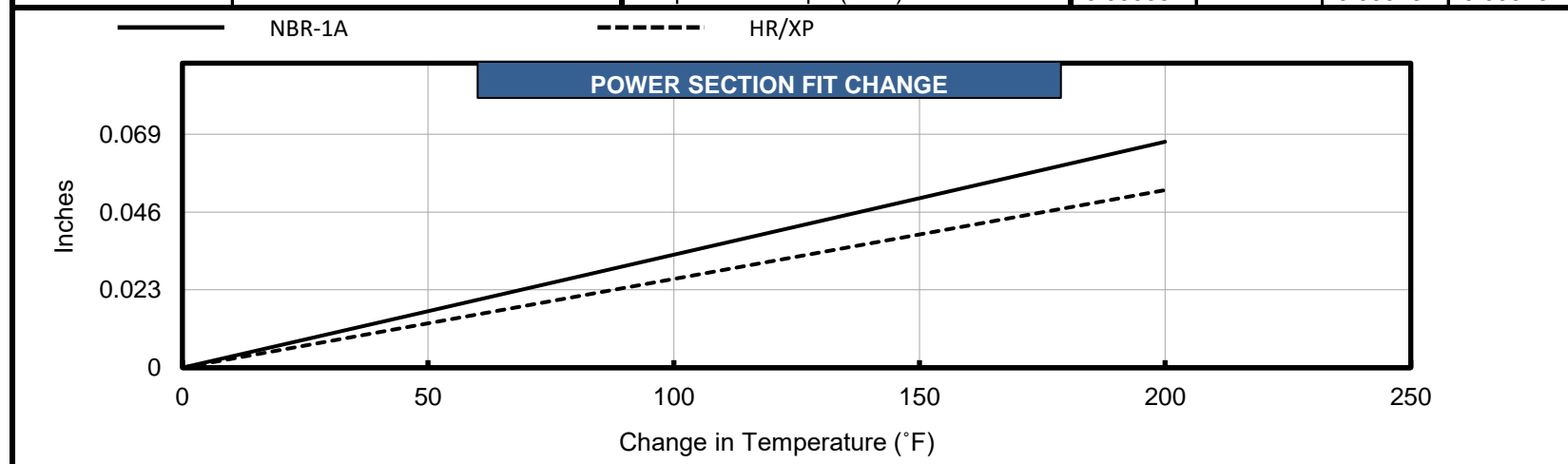
FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	2.530			
1 Oversize			2.544	2.544*
2 Oversize	2.557			
Nominal Fit at 75°F				
1 Undersize				
Standard	0.002			
1 Oversize			-0.012	-0.012*
2 Oversize	-0.025			

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(in)		(in)
Overall Length	178.0	Overall Length	198.0
Contour Length	172.3	Rubber Cutback #1**	8.0
Eccentricity	0.211	Rubber Cutback #2**	8.0
Major Diameter	2.954	Tube O.D.	4.75
Head Diameter	2.750	Tube I.D.	3.88
Weight (lb)	219	Weight (lb)	371
Material	17-4SS	Number of Stages	6.7
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	2.691 ft-lb/psi	Max. Diff. Press. (psi)	1010		1510	1680
Flow Range	150 to 350 GPM	Max. Torque (ft-lb)	2700		4060	4510
RPG	0.946 rev/gal	Stall Diff. Press. (psi)	1510		2260	2510
Speed Range	142 to 331 RPM	Stall Torque (ft-lb)	4060		6090	6760
Off Bottom Press.	122 psi	Max. Recommended (HP)	147		221	245
		PSI Per Stage	150		225	250
		PSI Per Cavity	29		43	48
		Temperature Slope (in/°F)	0.000334		0.000262	0.000262



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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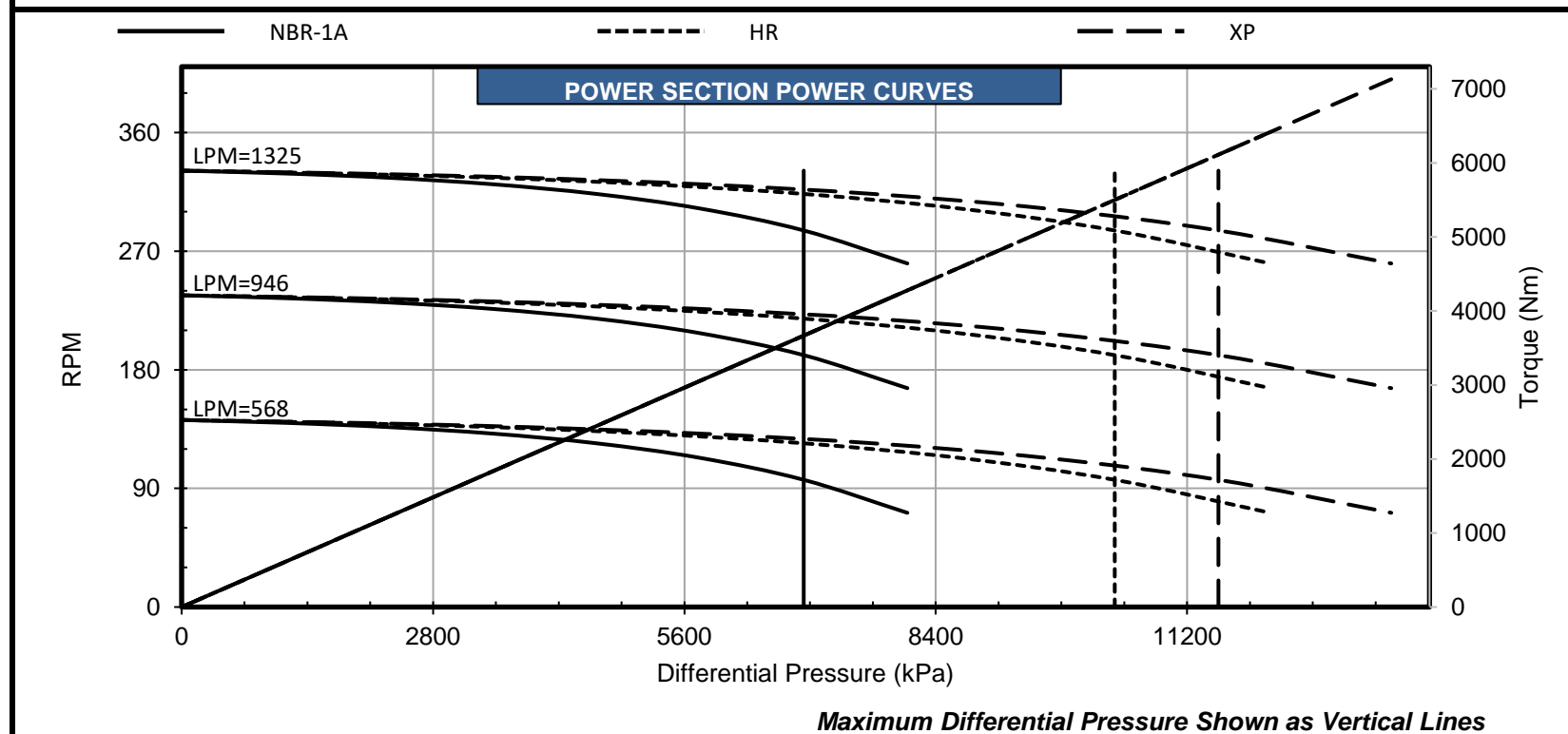
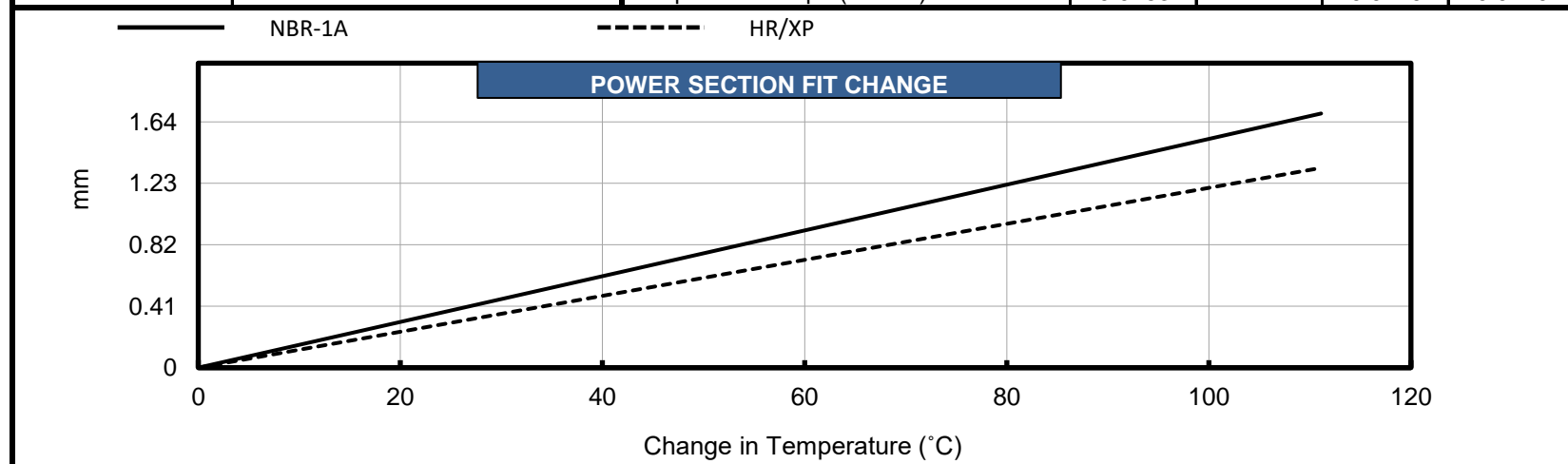
FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	64.26			
1 Oversize			64.62	64.62*
2 Oversize	64.95			
Nominal Fit at 75°F				
1 Undersize				
Standard	0.05			
1 Oversize			-0.30	-0.30*
2 Oversize	-0.64			

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
	(mm)		(mm)
Overall Length	4521.2	Overall Length	5029.2
Contour Length	4376.4	Rubber Cutback #1**	203.2
Eccentricity	5.36	Rubber Cutback #2**	203.2
Major Diameter	75.03	Tube O.D.	120.7
Head Diameter	69.85	Tube I.D.	98.6
Weight (kg)	99	Weight (kg)	168
Material	17-4SS	Number of Stages	6.7
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	0.529 Nm/kPa	Max. Diff. Press. (kPa)	6964		10411	11583
Flow Range	568 to 1325 Litre/min	Max. Torque (Nm)	3661		5505	6115
RPG	0.250 rev/litre	Stall Diff. Press. (kPa)	10411		15582	17306
Speed Range	142 to 331 RPM	Stall Torque (Nm)	5505		8257	9165
Off Bottom Press.	841 kPa	Max. Recommended (kW)	110		165	183
		kPa Per Stage	1034		1551	1724
		kPa Per Cavity	200		296	331
		Temperature Slope (mm/°C)	0.0153		0.0120	0.0120



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.