

POWER SECTION

FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	3.682	3.694	3.690	3.688
1 Oversize	3.703	3.706*	3.706	3.706*
2 Oversize	3.721	3.723*	3.723	3.720
Nominal Fit at 75°F				
1 Undersize				
Standard	0.020	0.008	0.012	0.014
1 Oversize	-0.001	-0.004*	-0.004	-0.004*
2 Oversize	-0.019	-0.021*	-0.021	-0.019

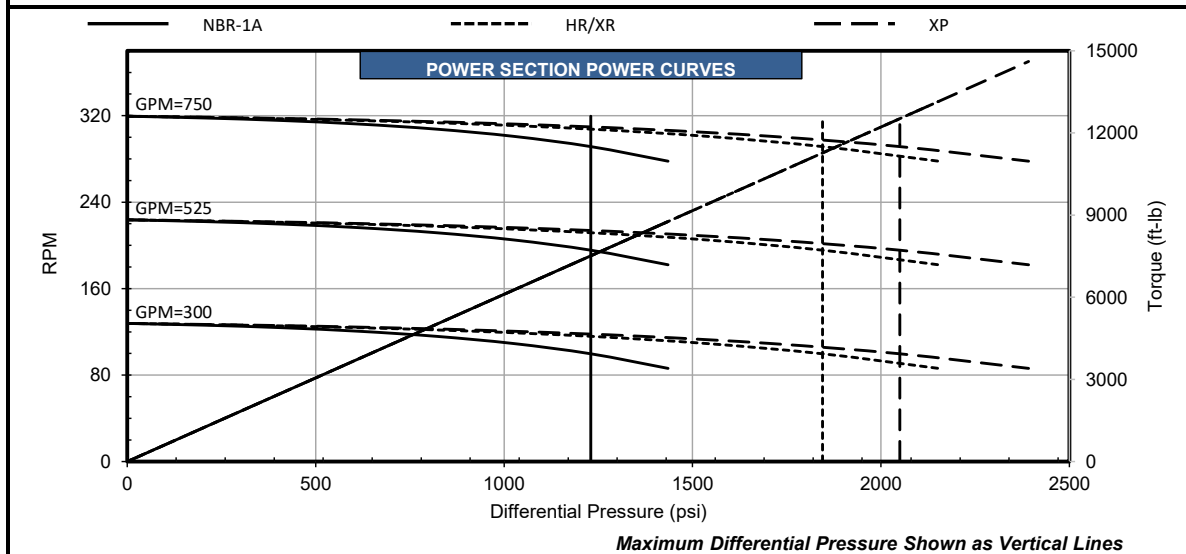
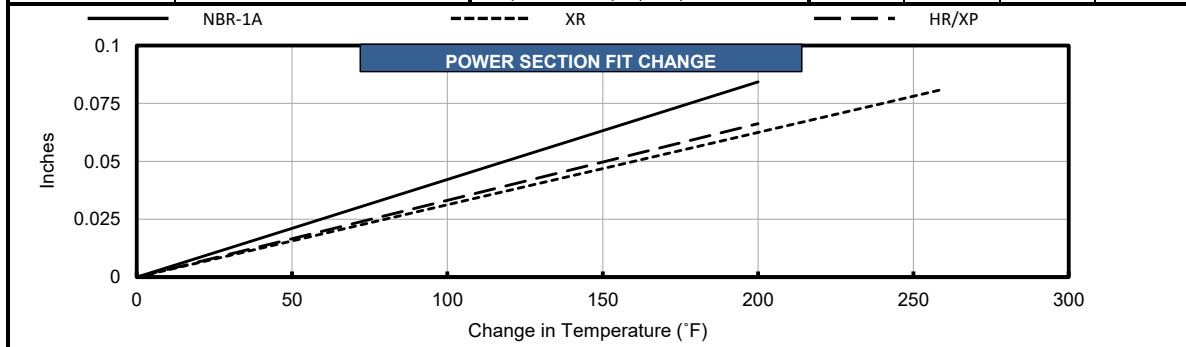
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (in)	233.0	Overall Length (in)	246.0
Contour Length** (in)	226.0	Cutback #1** (in)	7.0
Eccentricity (in)	0.335	Cutback #2** (in)	15.0
Major Diameter (in)	4.371	Tube O.D. (in)	7.00
Weight (lb)	633	Tube I.D. (in)	5.50
Head Diameter*** (in)	4.50	Weight (lb)	1107
Material**	17-4SS		
Thread	2 7/8 Hughes Slimline		
Form***	H-90		

**Representative options given. Verify specific requirements before placing order.

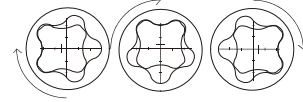
***Customer specified

*Pending production measurements

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	6.109 ft-lb/psi	Max. Diff. Press. (psi)	1230	1850	1850	2050
Flow Range	300 to 750 GPM	Max. Torque (ft-lb)	7510	11270	11270	12520
RPG	0.426 rev/gal	Stall Diff. Press. (psi)	1850	2770	2770	3080
Speed Range	128 to 320 RPM	Stall Torque (ft-lb)	11270	16910	16910	18790
Off Bottom Press.	213 psi	Max. Recommended (HP)	417	625	625	695
		PSI Per Stage	150	225	225	250
		PSI Per Cavity	28	42	42	46
		Temperature Slope (in/°F)	0.000421	0.000312	0.000331	0.000331



Performance characteristics are estimates based on nominal conditions and are for reference only. Actual performance may be affected by rotor/stator fit, temperature, and other operating conditions. The torque may exceed the capacity of connected components and threads. Operating above the recommended limits of either the power section or connected components may reduce product life and result in damage to the power section and connected components. Data is subject to change without notice.



POWER SECTION

FIT INFORMATION - MINOR DIAMETER (mm)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	93.52	93.83	93.73	93.68
1 Oversize	94.06	94.13*	94.13	94.13*
2 Oversize	94.51	94.56*	94.56	94.49
Nominal Fit at 75°F				
1 Undersize				
Standard	0.51	0.20	0.30	0.36
1 Oversize	-0.03	-0.10*	-0.10	-0.10*
2 Oversize	-0.48	-0.53*	-0.53	-0.48

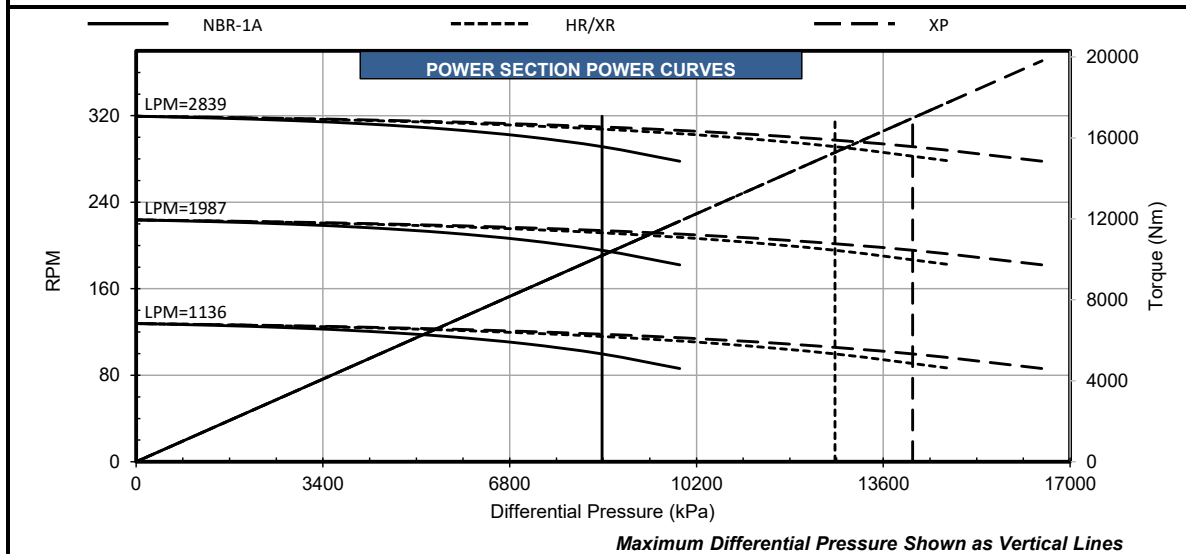
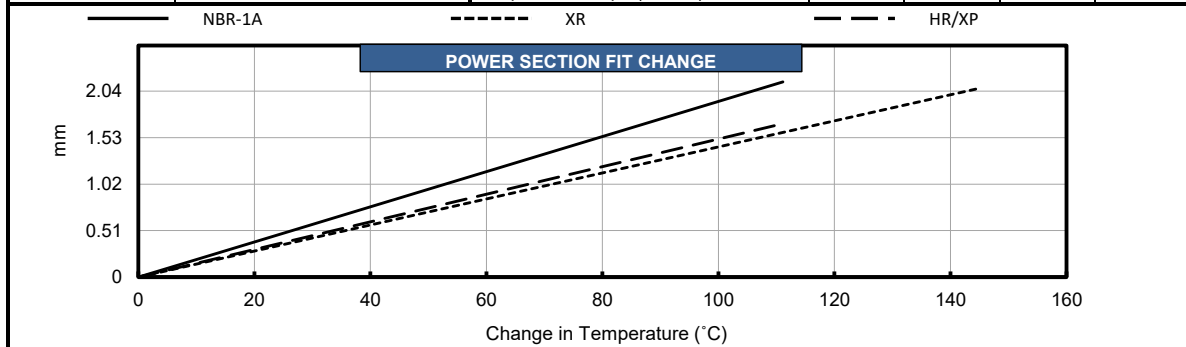
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (mm)	5918.2	Overall Length (mm)	6248.4
Contour Length** (mm)	5740.4	Cutback #1** (mm)	177.8
Eccentricity (mm)	8.50	Cutback #2** (mm)	381.0
Major Diameter (mm)	111.02	Tube O.D. (mm)	177.8
Weight (kg)	287	Tube I.D. (mm)	139.7
Head Diameter*** (mm)	114.30	Weight (kg)	502
Material**	17-4SS		
Thread	2 7/8 Hughes Slimline		
Form***	H-90		

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***Customer specified

*Pending production measurements

PERFORMANCE SPECIFICATIONS						
		NBR-1A	XR	HR	XP	
Torque Slope	1.201 Nm/kPa	8481	12755	12755	14134	Max. Diff. Press. (kPa)
Flow Range	1136 to 2839 Litre/min	10182	15280	15280	16975	Max. Torque (Nm)
RPG	0.113 rev/litre	12755	19098	19098	21236	Stall Diff. Press. (kPa)
Speed Range	128 to 320 RPM	15280	22927	22927	25476	Stall Torque (Nm)
Off Bottom Press.	1469 kPa	311	467	467	518	Max. Recommended (kW)
		1034	1551	1551	1724	kPa Per Stage
		193	290	290	317	kPa Per Cavity
		0.0193	0.0143	0.0151	0.0151	Temperature Slope (mm/°C)



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