

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	4.023
0.5 Oversize		4.039*	4.039	4.038
1 Oversize	4.048	4.062	4.052	4.055
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
0.5 Oversize		-0.002*	-0.002	-0.001
1 Oversize	-0.011	-0.025	-0.015	-0.018
3 Oversize		-0.042		

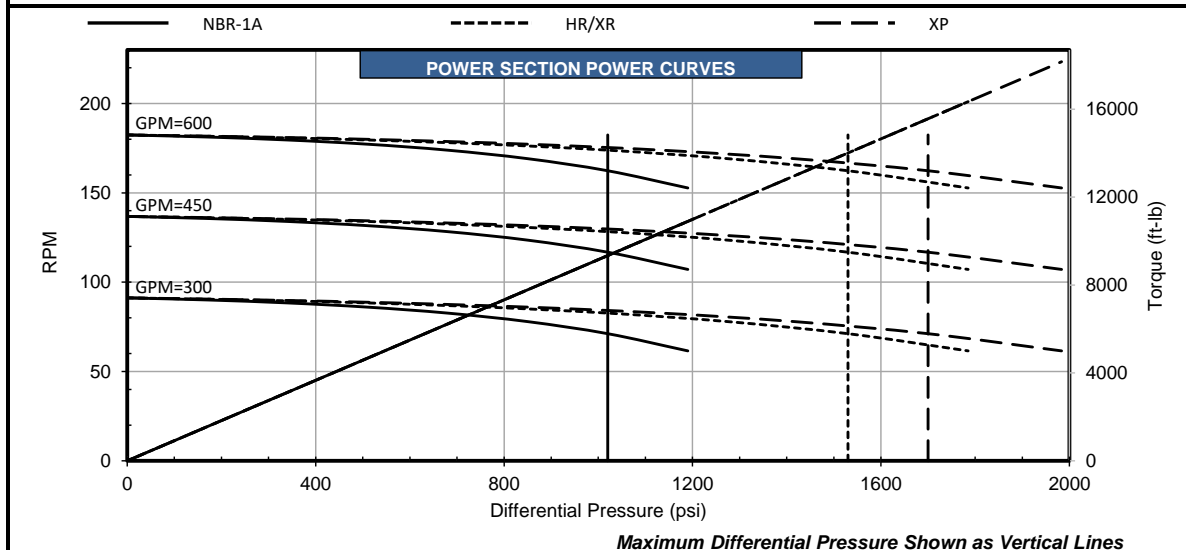
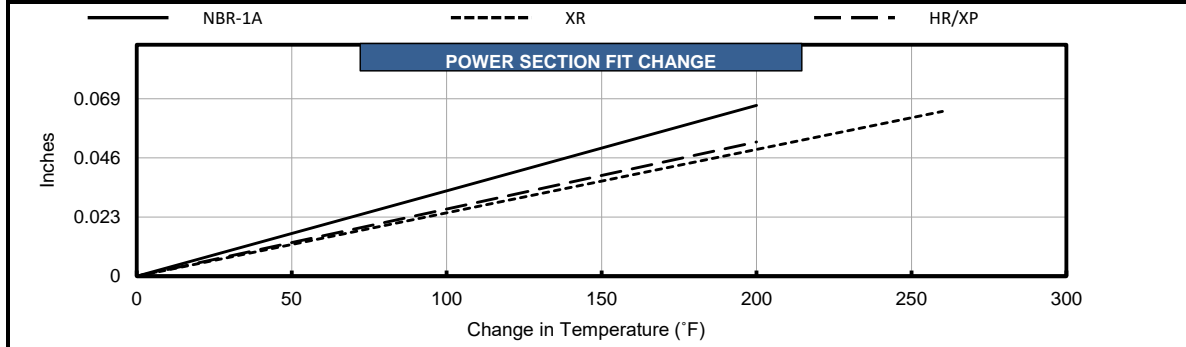
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (in)	233.0	Overall Length (in)	246.0
Contour Length** (in)	226.0	Cutback #1** (in)	7.0
Eccentricity (in)	0.25025	Cutback #2** (in)	15.0
Major Diameter (in)	4.538	Tube O.D. (in)	7.00
Weight (lb)	770	Tube I.D. (in)	5.50
Head Diameter*** (in)	4.50	Weight (lb)	1093
Material**	17-4SS		
Thread	2 7/8 Hughes Slimline		
Form***	H-90		

*Pending production measurements

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

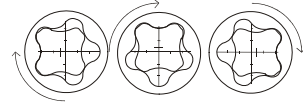
***Customer specified

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



Maximum Differential Pressure Shown as Vertical Lines

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		101.88*	101.88*	101.88*
Standard	102.03	102.16*	102.16	102.18
0.5 Oversize		102.59*	102.59	102.57
1 Oversize	102.82	103.17	102.92	103.00
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
0.5 Oversize		-0.05*	-0.05	-0.03
1 Oversize	-0.28	-0.64	-0.38	-0.46
3 Oversize		-1.07		

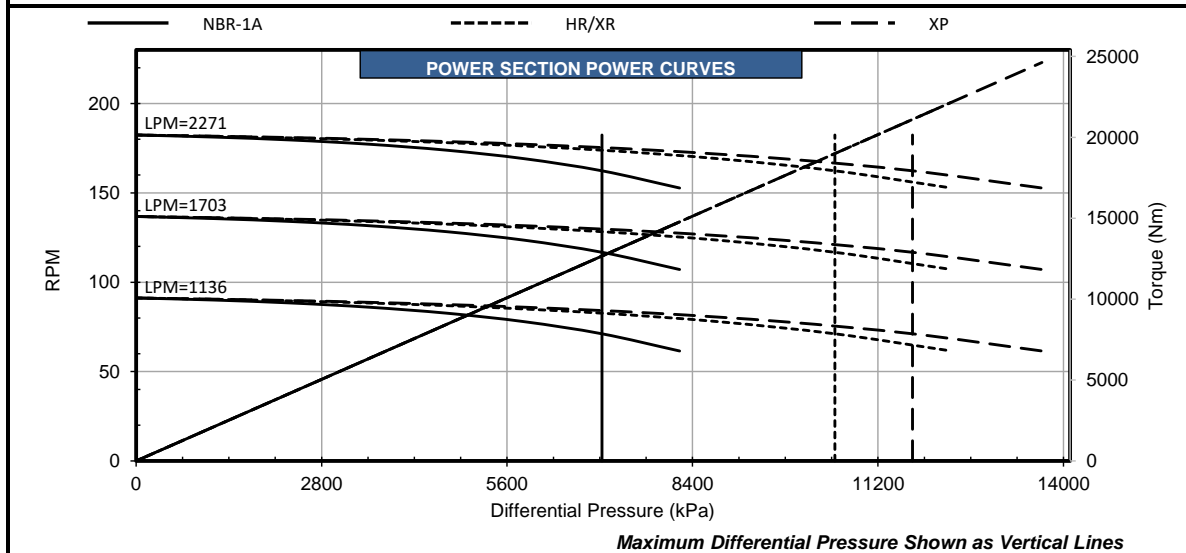
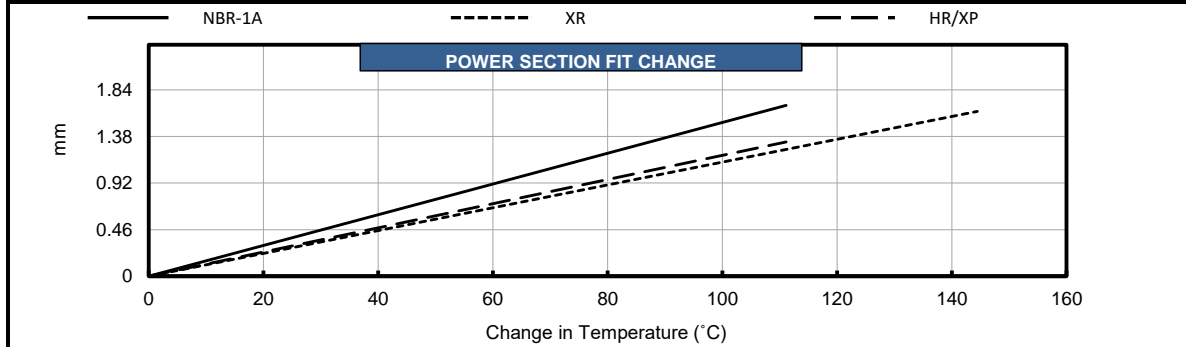
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (mm)	5918.2	Overall Length (mm)	6248.4
Contour Length** (mm)	5740.4	Cutback #1** (mm)	177.8
Eccentricity (mm)	6.36	Cutback #2** (mm)	381.0
Major Diameter (mm)	115.27	Tube O.D. (mm)	177.8
Weight (kg)	349	Tube I.D. (mm)	139.7
Head Diameter***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

*Pending production measurements

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

***Customer specified

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



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.