

POWER SECTION

FIT INFORMATION - MINOR DIAMETER (in)				
Stator Size	NBR-1A	DynaPower		
		XR	HR	XP
1 Undersize				
Standard	4.135		4.150	4.150
1 Oversize	4.163		4.163	4.163*
2 Oversize			4.172	4.172*
Nominal Fit at 75°F				
1 Undersize				
Standard	0.011		-0.004	-0.004
1 Oversize	-0.017		-0.017	-0.017*
2 Oversize			-0.026	-0.026*

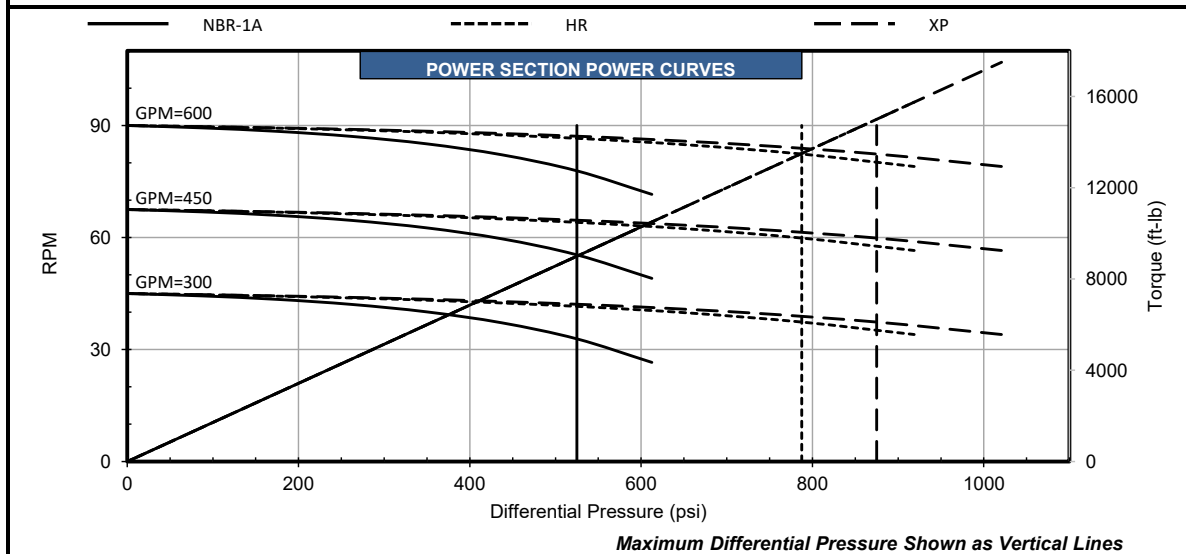
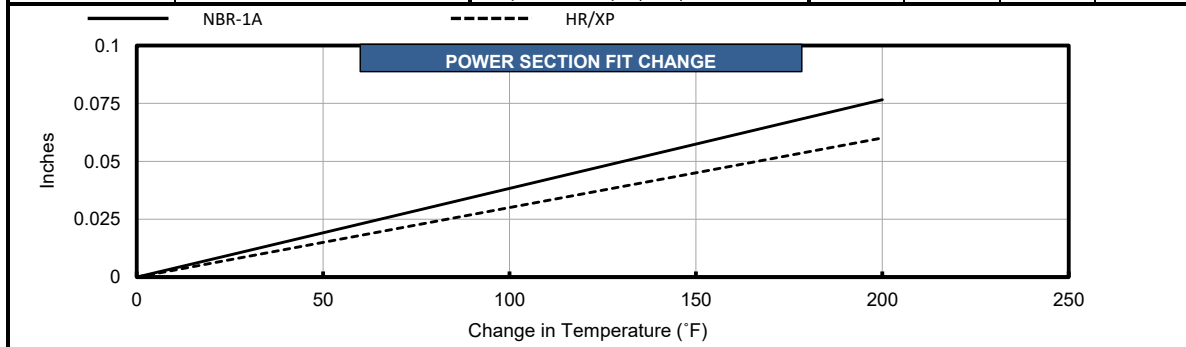
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (in)	252.0	Overall Length (in)	260.0
Contour Length** (in)	245.0	Cutback #1** (in)	8.0
Eccentricity (in)	0.247	Cutback #2** (in)	8.0
Major Diameter (in)	4.639	Tube O.D. (in)	6.75
Weight (lb)	876	Tube I.D. (in)	5.50
Head Diameter*** (in)	4.50	Weight (lb)	827
Material**	17-4SS		
Thread Form***	2 7/8 API REG		

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

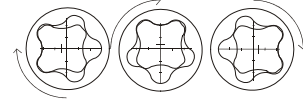
***Customer specified

*Pending production measurements

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	17.143 ft-lb/psi	Max. Diff. Press. (psi)	530		790	880
Flow Range	300 to 600 GPM	Max. Torque (ft-lb)	9000		13500	15000
RPG	0.150 rev/gal	Stall Diff. Press. (psi)	790		1180	1310
Speed Range	45 to 90 RPM	Stall Torque (ft-lb)	13500		20250	22500
Off Bottom Press.	150 psi	Max. Recommended (HP)	133		212	235
		PSI Per Stage	150		225	250
		PSI Per Cavity	25		38	42
		Temperature Slope (in/°F)	0.000383		0.000300	0.000300



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	105.03		105.41	105.41
1 Oversize	105.74		105.74	105.74*
2 Oversize			105.97	105.97*
Nominal Fit at 75°F				
1 Undersize				
Standard	0.28		-0.10	-0.10
1 Oversize	-0.43		-0.43	-0.43*
2 Oversize			-0.66	-0.66*

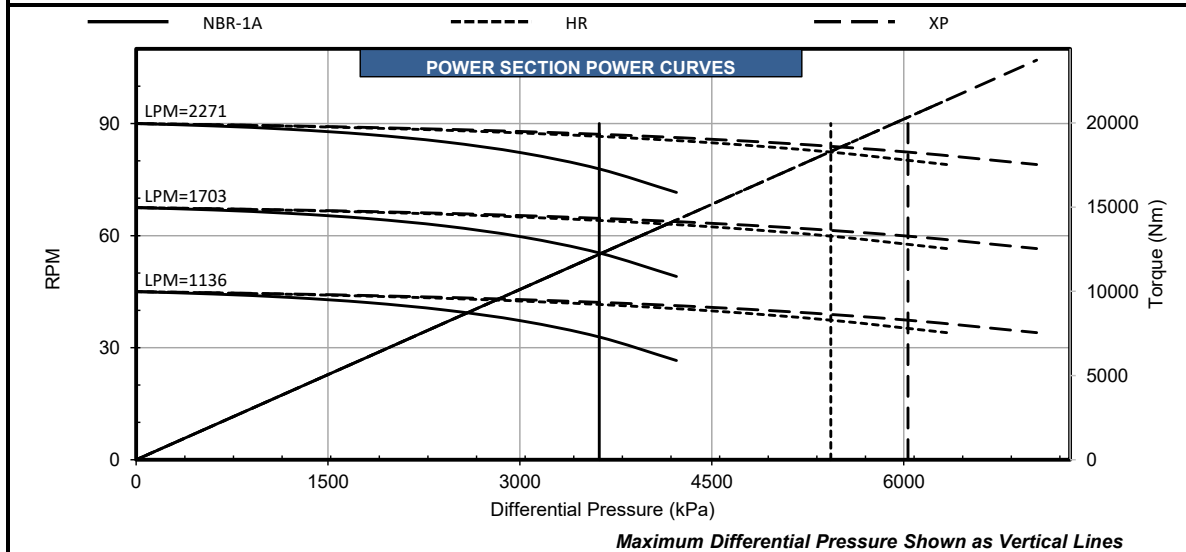
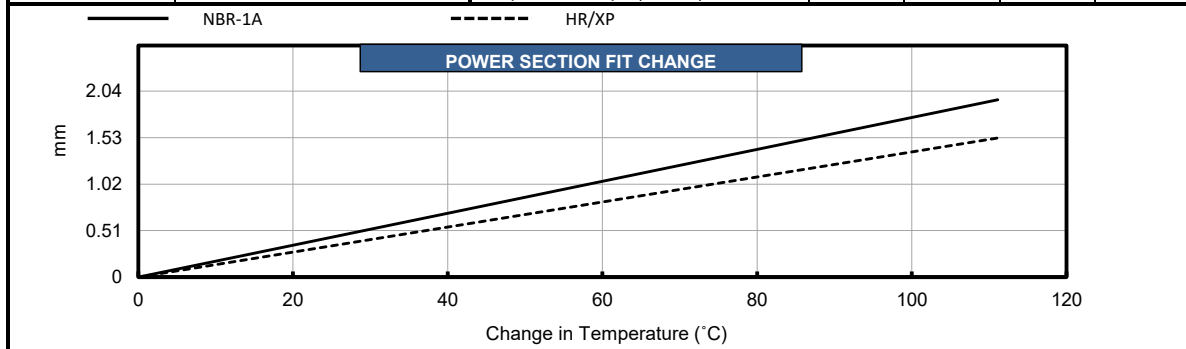
ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (mm)	6400.8	Overall Length (mm)	6604.0
Contour Length** (mm)	6223.0	Cutback #1** (mm)	203.2
Eccentricity (mm)	6.26	Cutback #2** (mm)	203.2
Major Diameter (mm)	117.83	Tube O.D. (mm)	171.5
Weight (kg)	397	Tube I.D. (mm)	139.7
Head Diameter*** (mm)	114.30	Weight (kg)	375
Material**	17-4SS		
Thread Form***	2 7/8 API REG		

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***Customer specified

*Pending production measurements

PERFORMANCE SPECIFICATIONS						
			NBR-1A	XR	HR	XP
Torque Slope	3.371 Nm/kPa	Max. Diff. Press. (kPa)	3654		5447	6067
Flow Range	1136 to 2271 Litre/min	Max. Torque (Nm)	12202		18304	20337
RPG	0.040 rev/litre	Stall Diff. Press. (kPa)	5447		8136	9032
Speed Range	45 to 90 RPM	Stall Torque (Nm)	18304		27455	30506
Off Bottom Press.	1034 kPa	Max. Recommended (kW)	100		158	175
		kPa Per Stage	1034		1551	1724
		kPa Per Cavity	172		262	290
		Temperature Slope (mm/°C)	0.0175		0.0137	0.0137



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