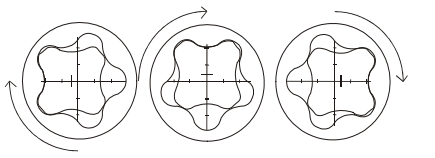
www.dyna-drill.com
USA: 23400 Colonial Parkway, Katy, TX 77493
Canada: Bay E.; 2802- 5th Street, Nisku, Alberta T9E-0H1 Tel: (780) 955-7711, Fax: (780) 955-7833
Dubai: Oilfields Supply Center, Bldg B-30, P.O. Box 261039, Dubai, UAE, Tel: 011-971-4-8100310

Model No.: DD475456.0

4.75" 4/5 Lobes 6.0 Stages



POWER SECTION

FIT INFORMATION - MINOR DIAMETER (in)				
	DynaPower			
Stator Size	HR	XR	XP	XE
1 Undersize				
Standard	2.408		2.408*	2.408*
1 Oversize	2.428		2.428*	2.428*
2 Oversize				
Nominal Fit at 75˚F				
1 Undersize				
Standard	0.012		0.012*	0.012*
1 Oversize	-0.008		-0.008*	-0.008*
2 Oversize				

*Pending production measurements

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (in)	179.0	Overall Length (in)	187.0
Contour Length** (in)	173.0	Cutback #1** (in)	8.0
Eccentricity (in)	0.246	Cutback #2** (in)	8.0
Major Diameter (in)	2.912	Tube O.D. (in)	4.75
Weight (lb)	238	Tube I.D. (in)	3.75
Head Diameter*** (in)	2.75	Weight (lb)	385
Material**	17-4SS		
Thread Form***	2 3/8 HEF Mod Flat		

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

PERFORMANCE SPECIFICATIONS						
			HR	XR	XP	XE
Torque Slope	2.730 ft-lb/psi	Max. Diff. Press. (psi)	1350		1500	1650
Flow Range	200 to 350 GPM	Max. Torque (ft-lb)	3690		4100	4500
RPG	1.020 rev/gal	Stall Diff. Press. (psi)	2030		2250	2480
Speed Range	204 to 357 RPM	Stall Torque (ft-lb)	5530		6140	6760
Off Bottom Press.	139 psi	Max. Recommended (HP)	216		185	201
		PSI Per Stage	225		250	275
		PSI Per Cavity	52		58	63
		Temperature Slope (in/˚F)	0.000254		0.000254	0.000265

TEMPERATURE RECOMMENDATIONS BASED ON FIT

Most Optimal — Least Optimal

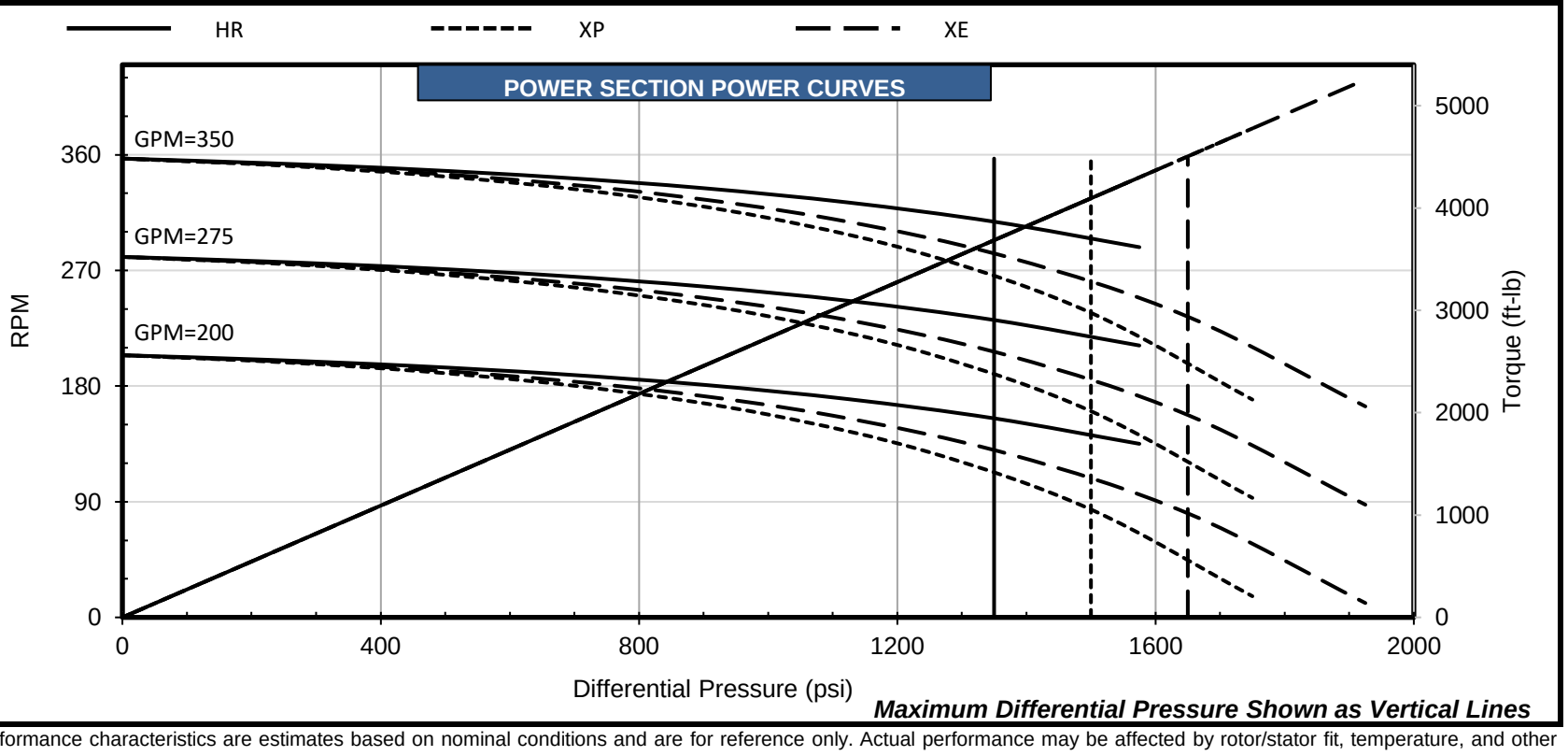
HR	Temperature [°F]									
Fit	150	175	200	225	250	275	300	325	350	375
0.016										
0.000										
-0.008										
-0.016										
-0.032										
-0.048										

XR	Temperature [°F]									
Fit	150	175	200	225	250	275	300	325	350	375
0.016										
0.000										
-0.008										
-0.016										
-0.032										
-0.048										

XP	Temperature [°F]									
Fit	150	175	200	225	250	275	300	325	350	375
0.016										
0.000										
-0.008										
-0.016										
-0.032										
-0.048										

XE	Temperature [°F]									
Fit	150	175	200	225	250	275	300	325	350	375
0.016										
0.000										
-0.008										
-0.016										
-0.032										
-0.048										

Fit / temperature guidance assumes run conditions and mud compatibility effects from global data analysis at max flow and recommended differential pressure for maximum life.



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.

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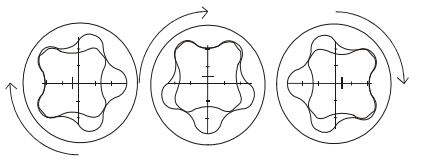

POWER SECTION

FIT INFORMATION - MINOR DIAMETER (mm)				
	DynaPower			
Stator Size	HR	XR	XP	XE
1 Undersize				
Standard	61.16		61.16*	61.16*
1 Oversize	61.67		61.67*	61.67*
2 Oversize				
Nominal Fit at 75˚F				
1 Undersize				
Standard	0.30		0.30*	0.30*
1 Oversize	-0.20		-0.20*	-0.20*
2 Oversize				

*Pending production measurements

ROTOR SPECIFICATIONS		STATOR SPECIFICATIONS	
Overall Length** (mm)	4546.6	Overall Length (mm)	4749.8
Contour Length** (mm)	4394.2	Cutback #1** (mm)	203.2
Eccentricity (mm)	6.25	Cutback #2** (mm)	203.2
Major Diameter (mm)	73.96	Tube O.D. (mm)	120.7
Weight (kg)	108	Tube I.D. (mm)	95.3
Head Diameter*** (mm)	69.85	Weight (kg)	175
Material**	17-4SS		
Thread Form***	2 3/8 HEF Mod Flat		

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

PERFORMANCE SPECIFICATIONS						
			HR	XR	XP	XE
Torque Slope	0.537 Nm/kPa	Max. Diff. Press. (kPa)	9308		10342	11376
Flow Range	757 to 1325 Litre/min	Max. Torque (Nm)	5003		5559	6101
RPG	0.269 rev/litre	Stall Diff. Press. (kPa)	13996		15513	17099
Speed Range	204 to 357 RPM	Stall Torque (Nm)	7498		8325	9165
Off Bottom Press.	958 kPa	Max. Recommended (kW)	161		138	150
		kPa Per Stage	1551		1724	1896
		kPa Per Cavity	359		400	434
		Temperature Slope (mm/˚C)	0.0116		0.0116	0.0121

TEMPERATURE RECOMMENDATIONS BASED ON FIT

Most Optimal — Least Optimal

HR	Temperature [°C]									
Fit	66	79	93	107	121	135	149	163	177	191
0.41										
0.00										
-0.20										
-0.41										
-0.81										
-1.22										

XR	Temperature [°C]									
Fit	66	79	93	107	121	135	149	163	177	191
0.41										
0.00										
-0.20										
-0.41										
-0.81										
-1.22										

XP	Temperature [°C]									
Fit	66	79	93	107	121	135	149	163	177	191
0.41										
0.00										
-0.20										
-0.41										
-0.81										
-1.22										

XE	Temperature [°C]									
Fit	66	79	93	107	121	135	149	163	177	191
0.41										
0.00										
-0.20										
-0.41										
-0.81										
-1.22										

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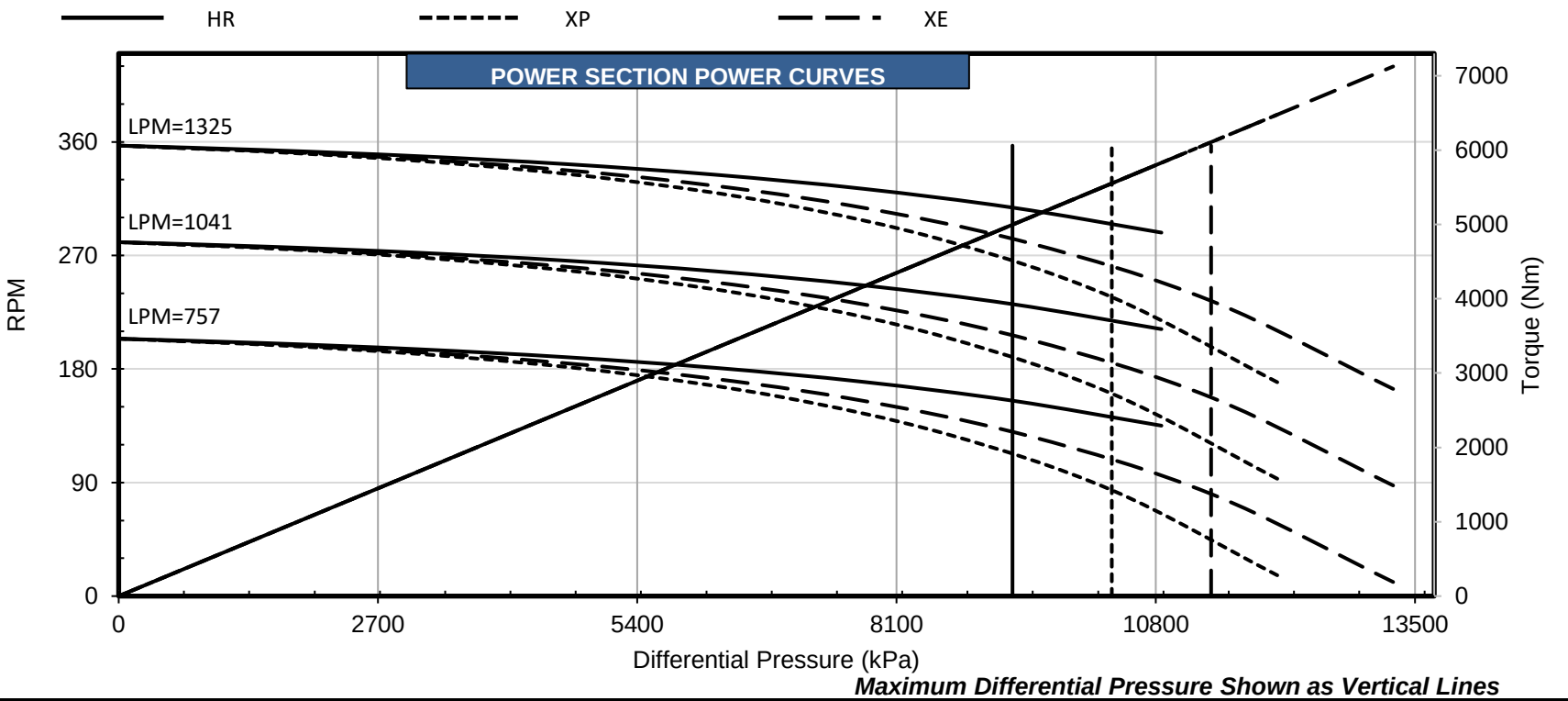

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