

09/00

Hy-Line & Ultima PERFORMANCE DATA SHEET

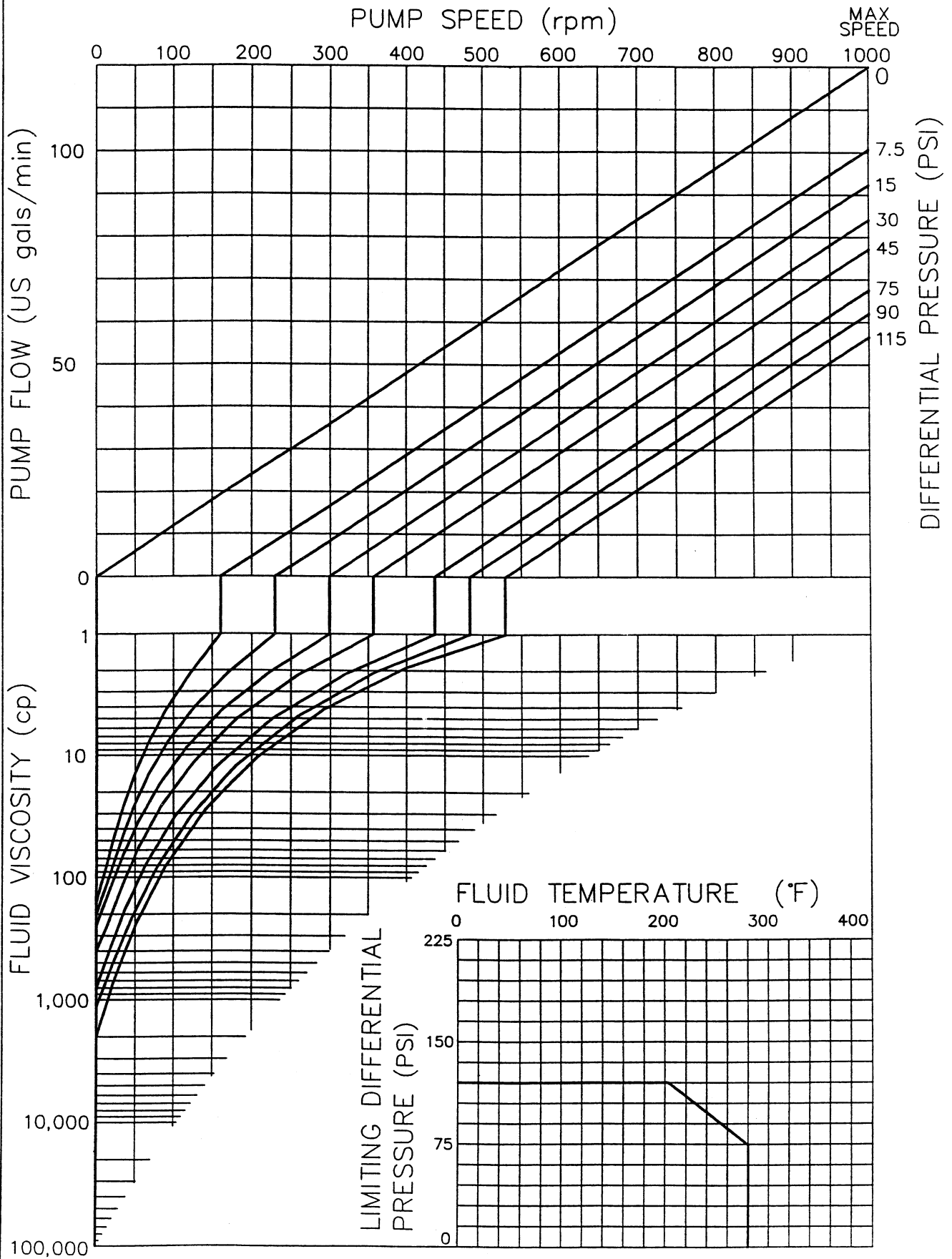
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SIZE: 54

SEAL TYPES: ALL

POLISH: Z

ROTORS CODE: 9

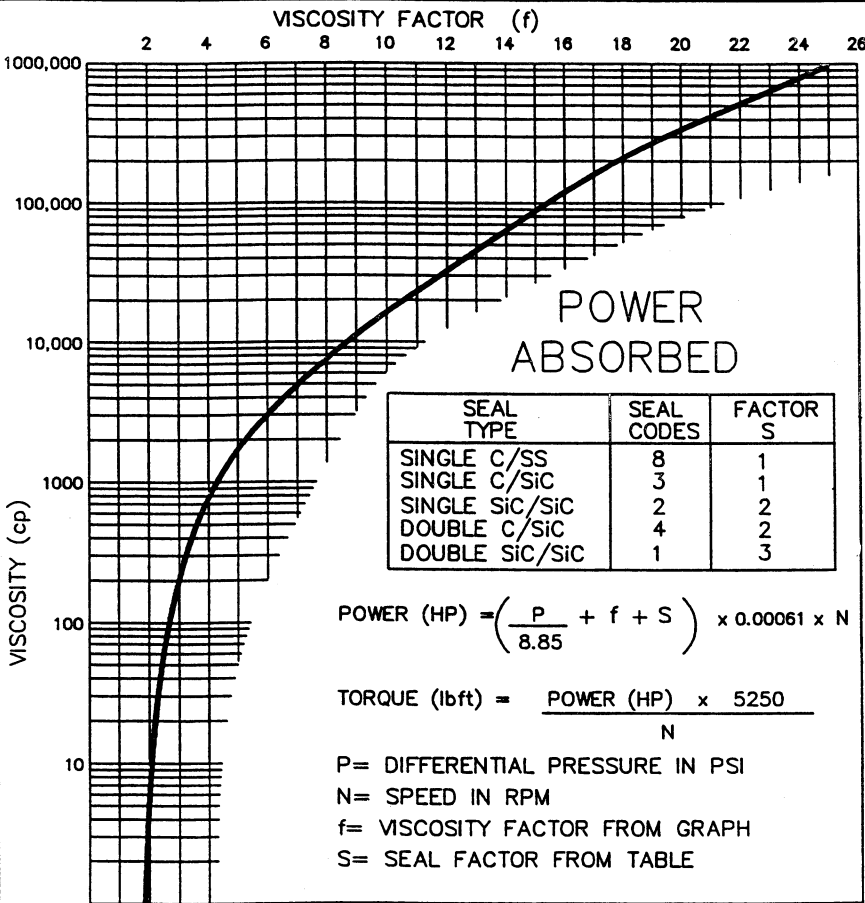
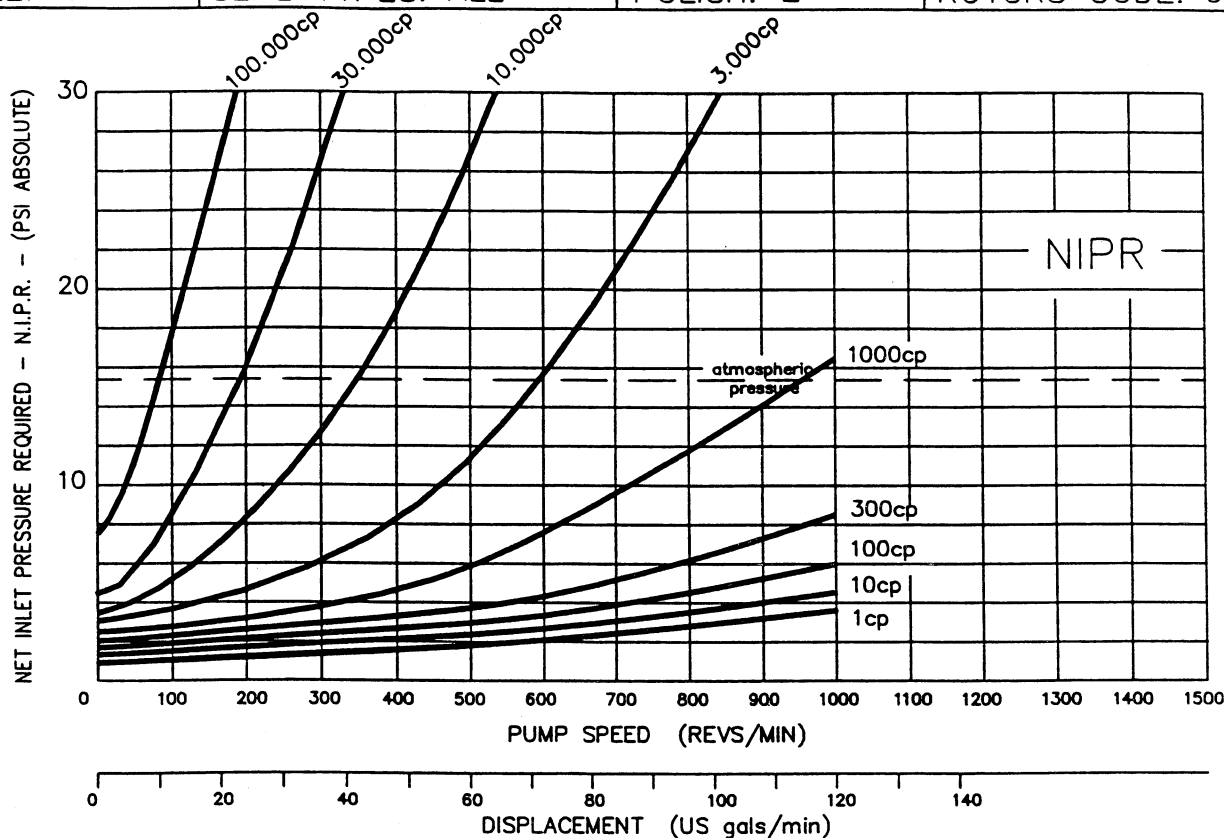


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$$POWER (HP) = \left( \frac{P}{8.85} + f + S \right) \times 0.00061 \times N$$

$$TORQUE (lbft) = \frac{POWER (HP) \times 5250}{N}$$

P= DIFFERENTIAL PRESSURE IN PSI  
 N= SPEED IN RPM  
 f= VISCOSITY FACTOR FROM GRAPH  
 S= SEAL FACTOR FROM TABLE

APPLICATION DATA

- MAX INPUT SHAFT TORQUE (lbft) 110
- MAX SHAFT RADIAL LOAD (lb) 506
- MAX SOFT PARTICLE DIA (in) 0.6
- DISPLACEMENT (cubic in/rev) 28
- DISPLACEMENT (US gals/100revs) 12

PHYSICAL DATA

- PUMP WEIGHT HY~LINE (lb) 77
- PUMP WEIGHT ULTIMA (lb) 92
- OIL CAPACITY (cubic in) 67
- HOLD UP VOLUME (cubic in) 50

TIGHTENING TORQUES (lbft)

- END COVER BOLTS 15
- ROTOR RETAINER SCREWS (HY~LINE) 40
- ROTOR CASE SCREWS 15
- GEAR COVER SCREWS 8
- GEAR NUTS 75
- ROTOR TIE ROD NUTS (ULTIMA) 30

ROTOR CLEARANCES (in)

- FRONT, ROTOR TO END COVER 0.006
- RADIAL, ROTOR TO ROTOR CASE 0.010
- MESH, LOBE TO LOBE - MIN 0.008

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