

09/00

Hy-Line & Ultima PERFORMANCE DATA SHEET

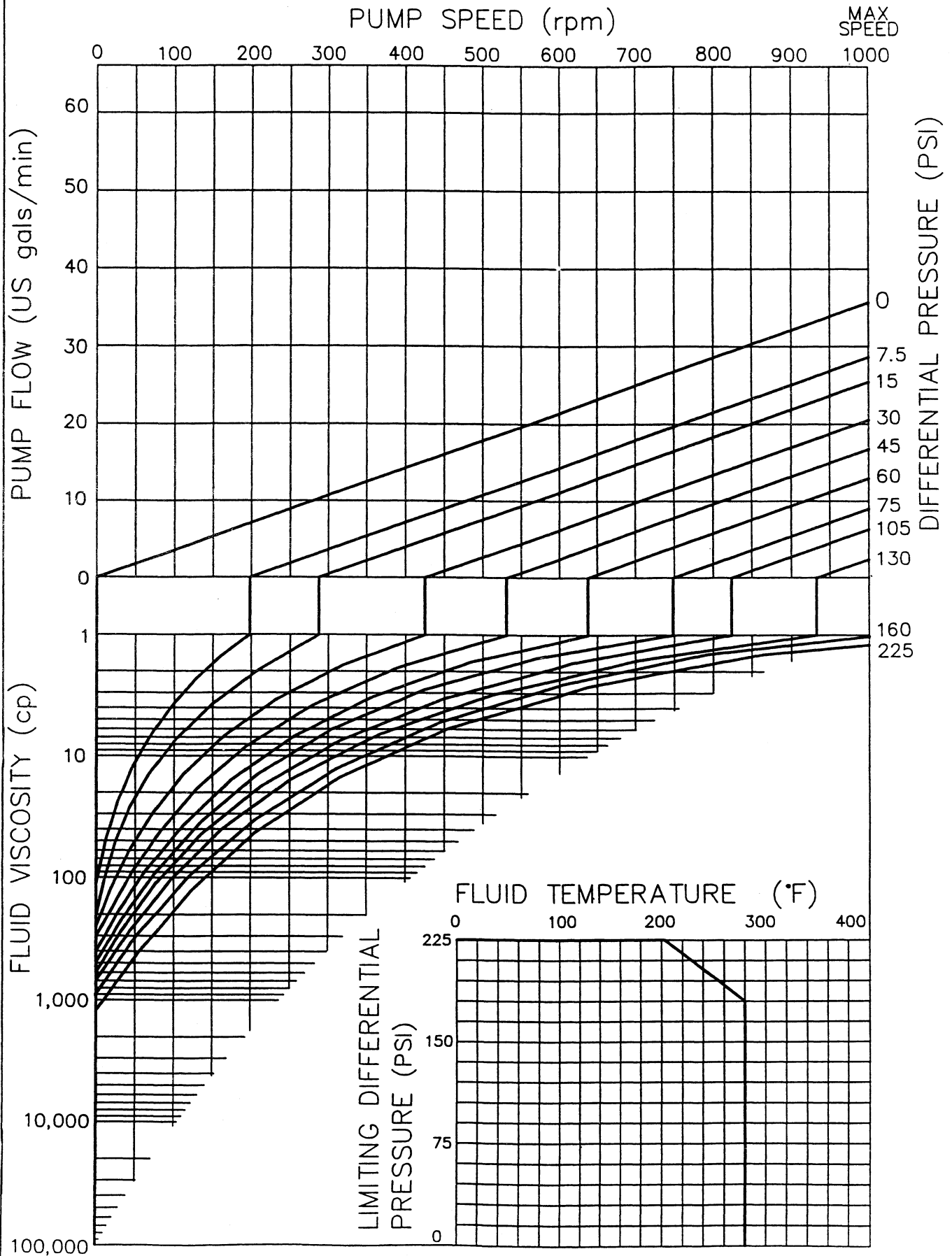
9.4209Z.FI

SIZE: 42

SEAL TYPES: ALL

POLISH: Z

ROTORS CODE: 9

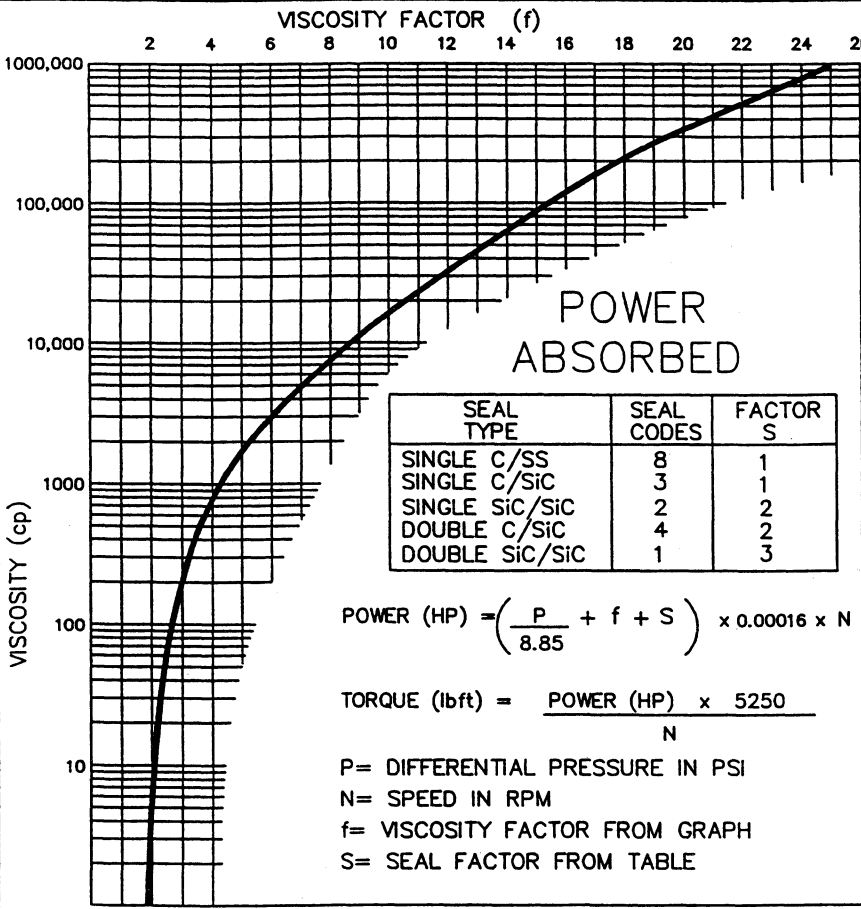
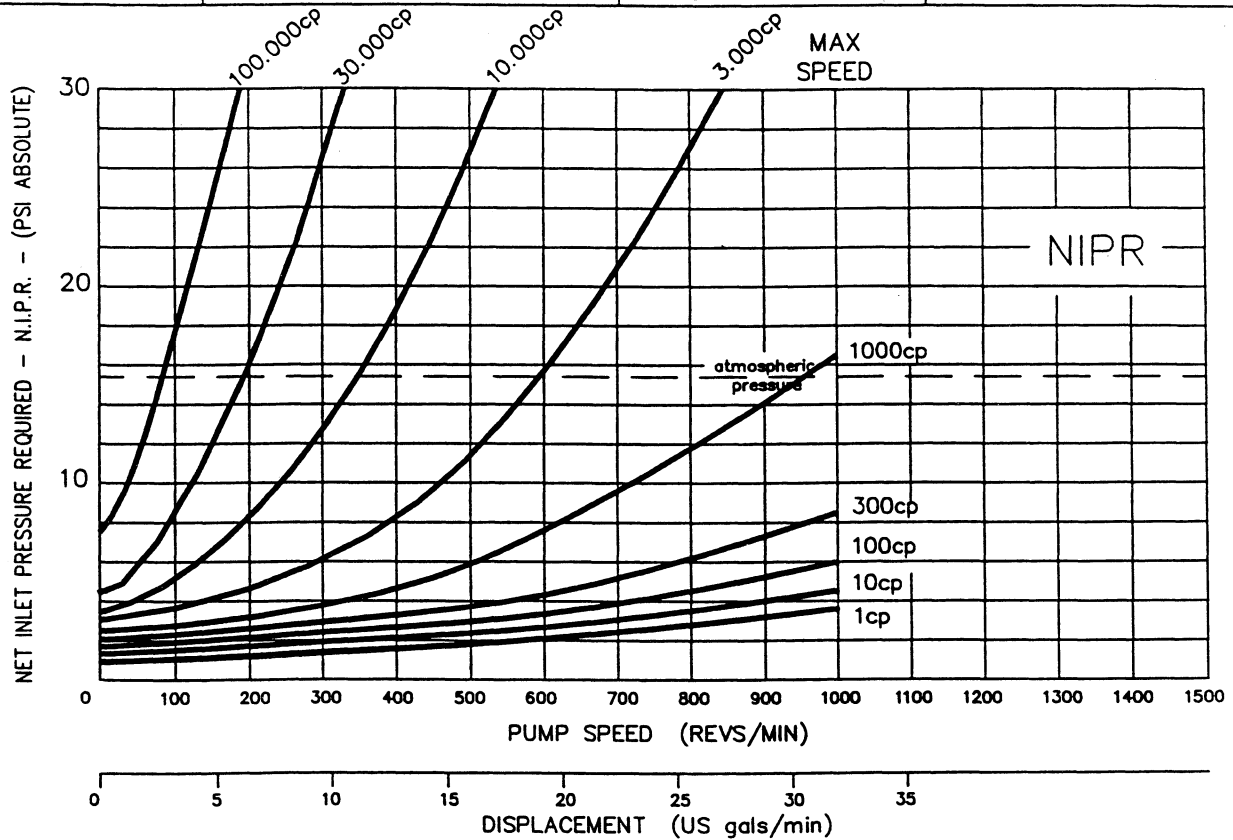


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$$POWER (HP) = \left(\frac{P}{8.85} + f + S \right) \times 0.00016 \times N$$

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

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) 44
- MAX SHAFT RADIAL LOAD (lb) 63
- MAX SOFT PARTICLE DIA (in) 0.4
- DISPLACEMENT (cubic in/rev) 7.5
- DISPLACEMENT (US gals/100revs) 3.2

PHYSICAL DATA

- PUMP WEIGHT HY~LINE (lb) 40
- PUMP WEIGHT ULTIMA (lb) 51
- OIL CAPACITY (cubic in) 61
- HOLD UP VOLUME (cubic in) 4

TIGHTENING TORQUES (lbft)

- END COVER BOLTS (123) 15
- ROTOR RETAINER SCREWS (HY~LINE)(59) 40
- ROTOR CASE SCREWS (52) 7
- GEAR COVER SCREWS (18) 6
- GEAR NUTS (8) 37
- ROTOR TIE ROD NUTS (ULTIMA)(26&27) 15

ROTOR CLEARANCES (in)

- FRONT, ROTOR TO END COVER 0.005
- RADIAL, ROTOR TO ROTOR CASE 0.008
- MESH, LOBE TO LOBE - MIN 0.008

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