

09/00

Hy-Line & Ultima PERFORMANCE DATA SHEET

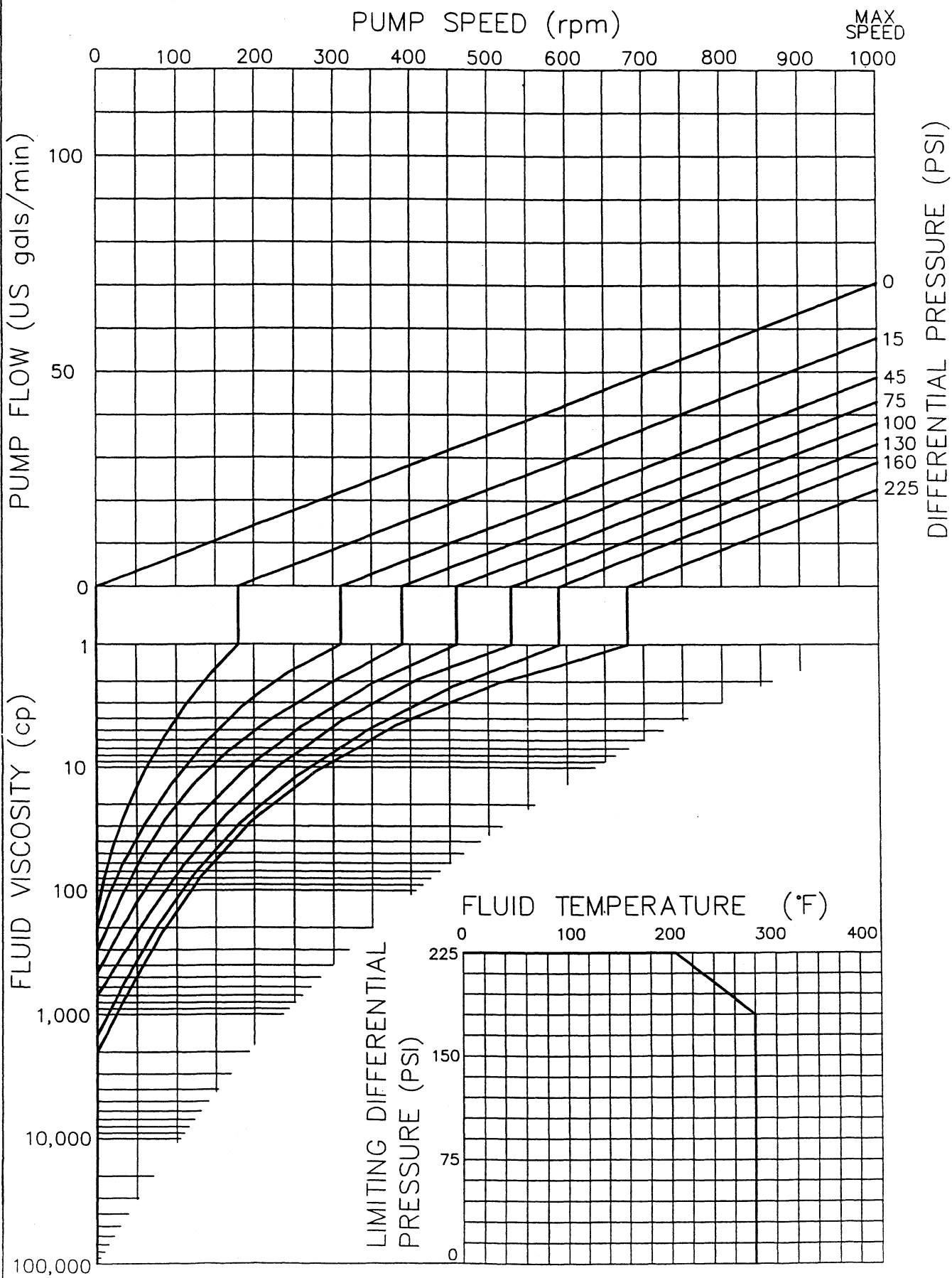
9.5209.FI

SIZE: 52

SEAL TYPES: ALL

POLISH: 0,Y

ROTORS CODE: 9

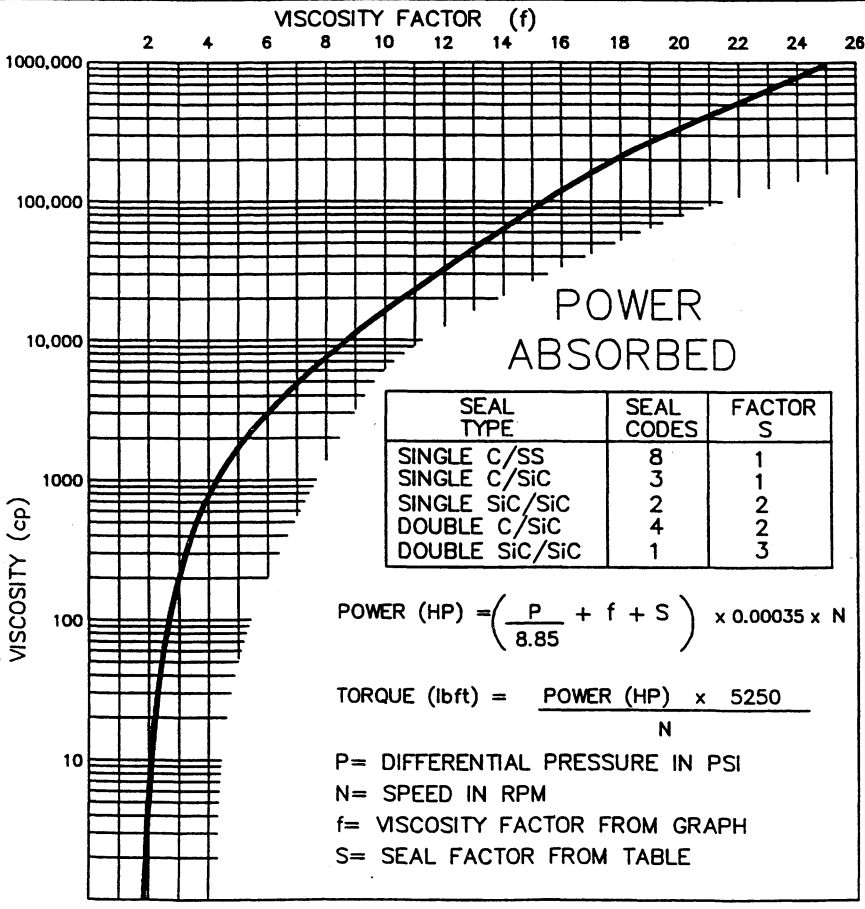
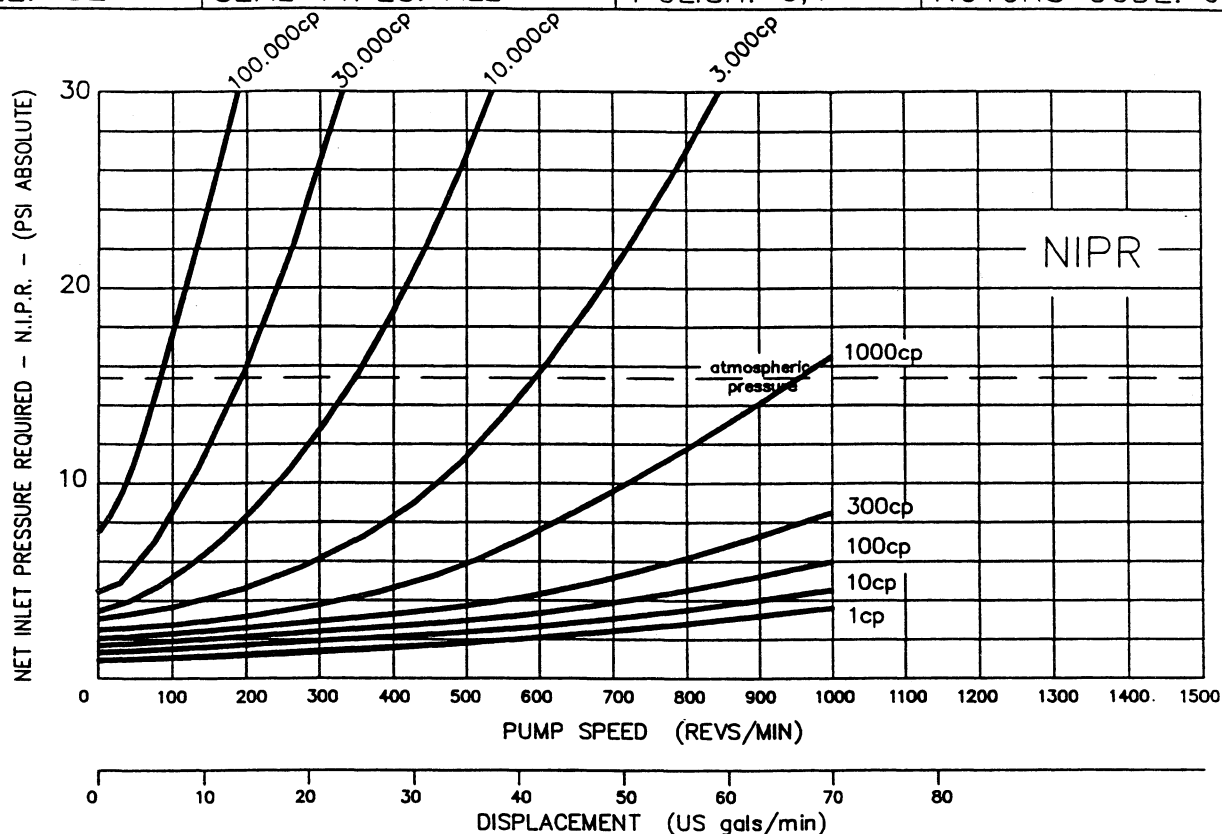


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$$POWER (HP) = \left(\frac{P}{8.85} + f + S \right) \times 0.00035 \times N$$

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

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) 16
- DISPLACEMENT (US gals/100revs) 7

PHYSICAL DATA

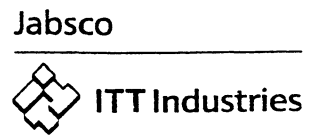
- PUMP WEIGHT HY~LINE (lb) 70
- PUMP WEIGHT ULTIMA (lb) 85
- OIL CAPACITY (cubic in) 67
- HOLD UP VOLUME (cubic in) 28

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 0.007
- RADIAL, ROTOR TO ROTOR CASE 0.010
- MESH, LOBE TO LOBE - MIN 0.008



USA Jabsco
 1485 Dale Way
 Costa Mesa
 CA 92628-2158
 Tel: +1 714 545 8251
 Fax: +1 714 957 0609

UK Jabsco
 Bingley Road
 Hoddesdon
 Hertfordshire, EN11 0BU
 Tel: +44 (0) 1992 450 145
 Fax: +44 (0) 1992 467 132

GERMANY Jabsco GmbH
 Oststraße 28
 22844 Norderstedt
 Tel: +49 (0) 40 53 53 73 0
 Fax: +49 (0) 40 53 53 73 11