

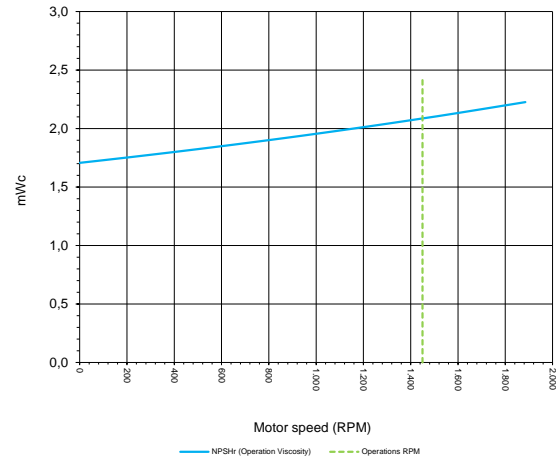
Pump: GR40 SMT8B /SMAT8B 80L			
Pump data			
Screw size	40 mm		
Screw step	45 mm		
Motor speed	1.450 RPM		
Application data			
Pressure	5 bar	73 PSI	0,5 Mpa
Viscosity	Minimum (A)	Operations	Maximum (B)
	21 mm <sup>2</sup> /s 97 SSU	46 mm <sup>2</sup> /s 213 SSU	100 mm <sup>2</sup> /s 463 SSU
Performances			
Flow	43,2 L/min	43,5 L/min	43,8 L/min
	11,4 GPM	11,5 GPM	11,6 GPM
	2,6 m <sup>3</sup> /h	2,6 m <sup>3</sup> /h	2,6 m <sup>3</sup> /h
Power	0,6 KW 0,8 HP	0,6 KW 0,9 HP	0,7 KW 1,0 HP
	Oil speed	1,1 m/sec	1,1 m/sec
NPSH	2,0 mWS	2,1 mWS	2,3 mWS
Motor	80 Frame	90S Frame	90S Frame
Suggested	0,8 KW	1,1 KW	1,1 KW
Shaft torque	3,79 Nm	4,24 Nm	4,85 Nm

**NOTES:**

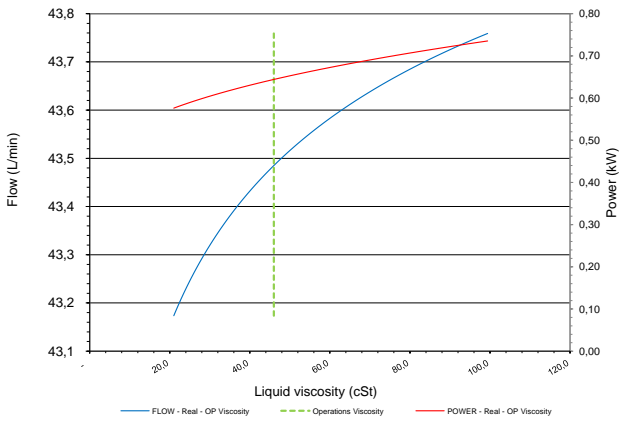
- 1) for RPM < 800 or RPM > 3.000, please contact Settima
- 2) for Viscosity < 10 or Viscosity > 1.000, please contact Settima
- (\*\*) special model - longer delivery times

Settima Meccanica s.r.l. - 29020 ZI Settima (PC) - Italy  
 TEL: +39 0523 557623 - FAX: +39 0523 557256 - info@settima.it

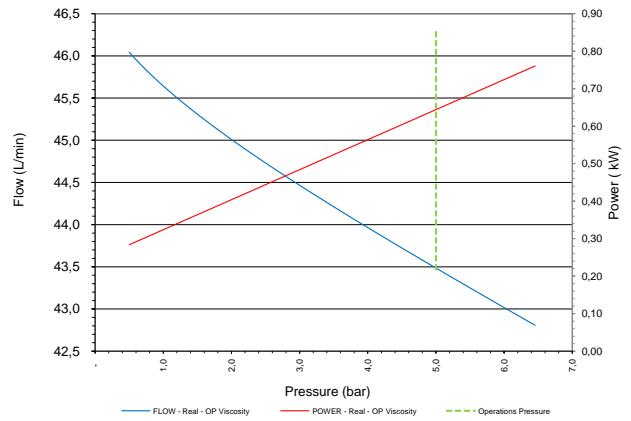
### A) - NPSHr required by pump



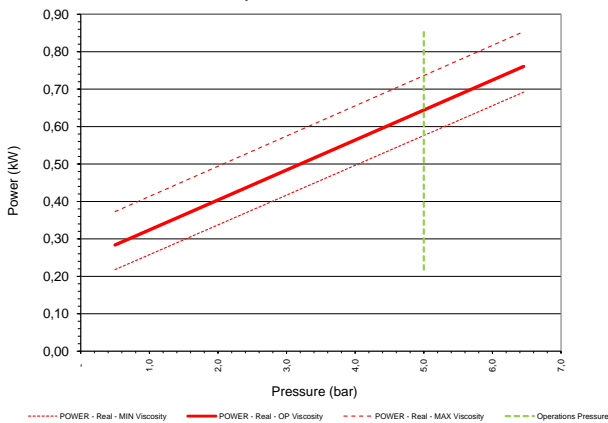
### B) - Flow / Viscosity - Power / Viscosity



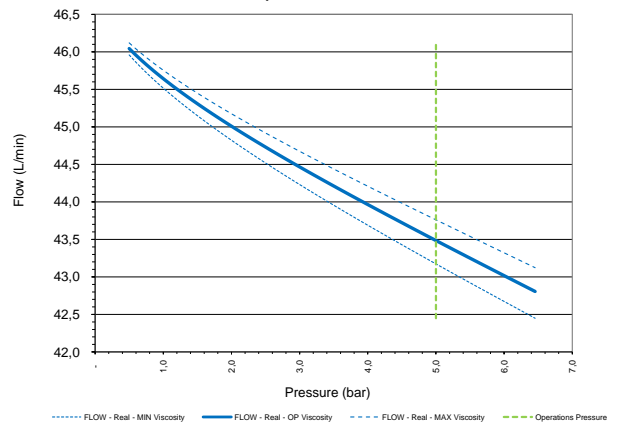
### C) - Flow / Pressure - Power / Pressure



### D) - Power / Pressure



### E) - Flow / Pressure



**Curve explanations:**

- A) NPSH - this is the NPSH required by the pump. You have to check what is the NPSH available from your application
- B) Flow & Power at viscosity variations: the green line is the viscosity at operations as required by you
- C) Flow & Power at pressure variations: the green line is the pressure at operations as required by you
- D) Power at pressure variations calculated at min, max and operations viscosity: the green line is the pressure at operations as required by you
- E) Flow at pressure variations calculated at min, max and operations viscosity: the green line is the pressure at operations as required by you

**Notes:**

- 1) Flow informations are valid only for SMT8B
- 2) Flow informations for viscosity below 10cSt has to be checked also in experimental ways (there are differences between fluid types)