SETTIMA® MECCANICA

Pump: GR45 SMT16B /SMAT16B 210L

Pump data

Screw size	45	mm
Screw step	90	mm
Motor speed	**1.450**	RPM

Application data

Pressure	**15**	bar	**218** PSI	**1,5** Mpa

	Minimum (A)		**Operations**		Maximum (B)	
Viscosity	32	mm²/s	**46** mm²/s		260	mm²/s
	148	SSU	**213** SSU		1.205	SSU

Performances

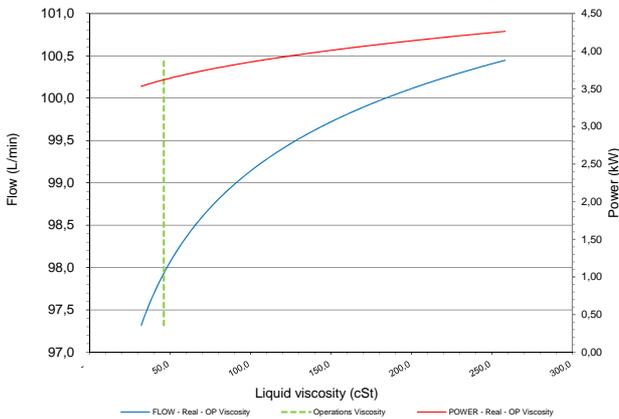|						
Flow	97,3	L/min	**97,9**	L/min	100,5	L/min
	25,7	GPM	**25,9**	GPM	26,5	GPM
	5,8	m3/h	**5,9**	m3/h	6,0	m3/h
Power	3,53	KW	**3,62**	KW	4,27	KW
	4,8	HP	**4,9**	HP	5,8	HP
Oil speed	2,2	m/sec	2,2	m/sec	2,2	m/sec
NPSH	2,5	mWS	**2,6**	mWS	3,3	mWS
Motor	132S	Frame	**132S**	Frame	132S	Frame
Suggested	5,50	KW	**5,50**	KW	5,50	KW
Shaft torque	23,26	Nm	23,84	Nm	28,10	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
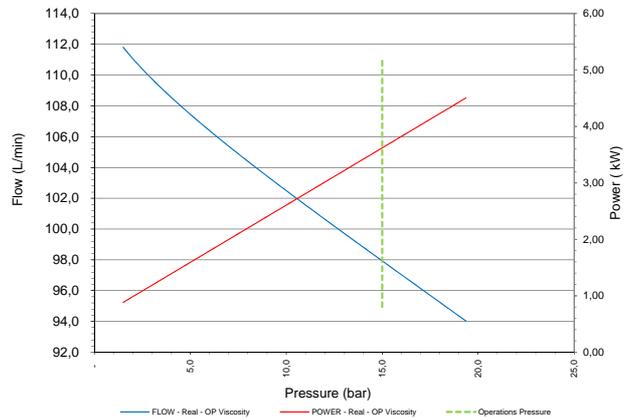TEL: +39 0523 557623 - FAX: +39 0523 557256 - info@settima.it
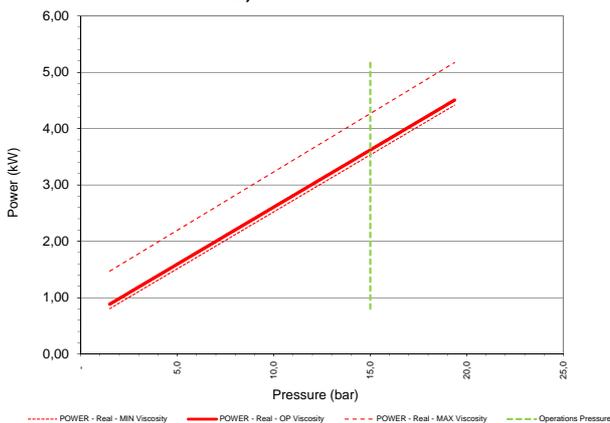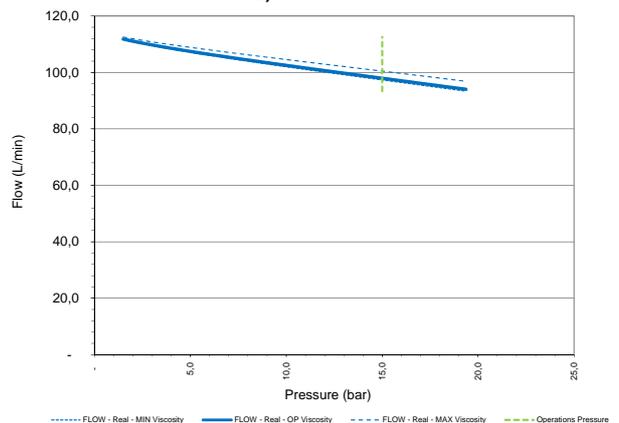
A) - NPSHr required by pump

NPSHr (Operation Viscosity) — — Operations RPM
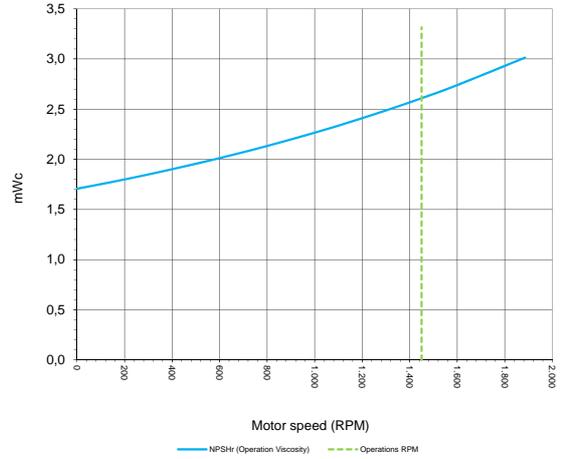
B) - Flow / Viscosity - Power / Viscosity

FLOW - Real - OP Viscosity — — Operations Viscosity — POWER - Real - OP Viscosity

C) - Flow / Pressure - Power / Pressure

FLOW - Real - OP Viscosity — POWER - Real - OP Viscosity — — Operations Pressure

D) - Power / Pressure

------ POWER - Real - MIN Viscosity —— POWER - Real - OP Viscosity ------ POWER - Real - MAX Viscosity — — Operations Pressure

E) - Flow / Pressure

------ FLOW - Real - MIN Viscosity —— FLOW - Real - OP Viscosity — — FLOW - Real - MAX Viscosity — — Operations 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 SMT16B.** Flow information **are not valid for SMT16B S1, S2, S3, S4**
2) Flow informations for viscosity below 10cSt has to be checked also in experimental ways (there are differences between fluid types)