

より良い効率を
コンパクトなポンプで



INDUSTRIAL



MOBILE



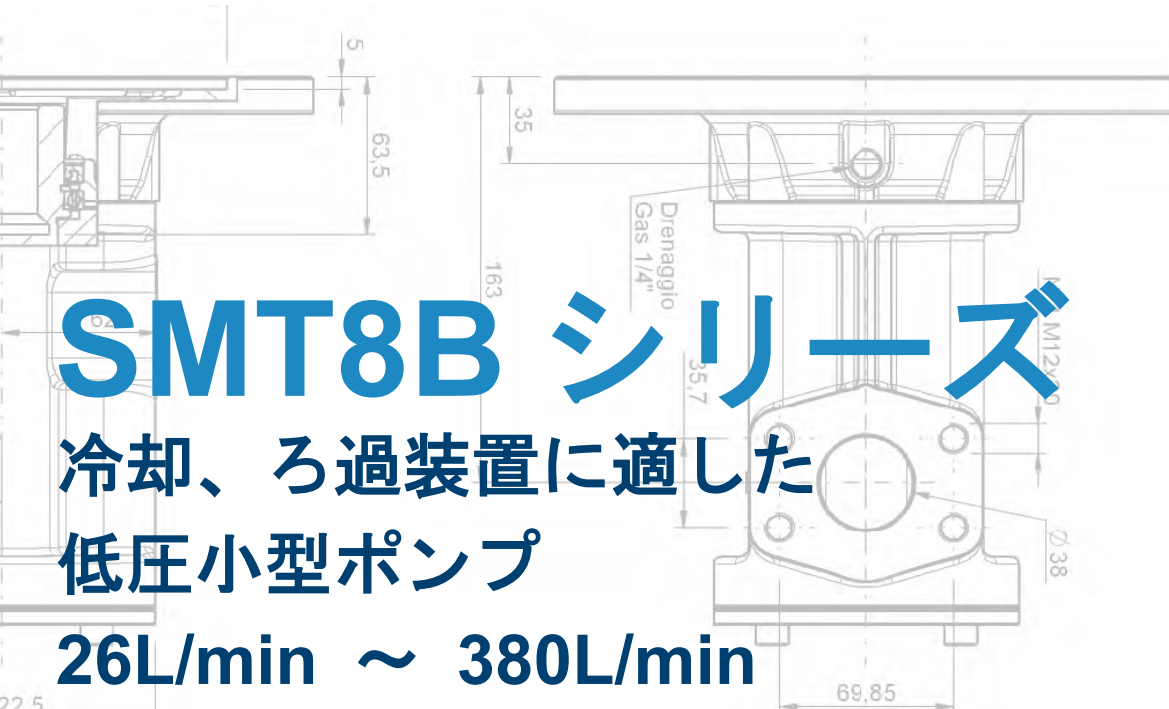
WIND ENERGY

SMT8B シリーズ

冷却、ろ過装置に適した
低圧小型ポンプ

26L/min ~ 380L/min

15cSt ~ 15,000cSt



SMT8B シリーズ

SETTIMA社は3軸スクリーポンプとヘリカルローターポンプを設計、製造しております。
同社のスクリーポンプは脈動が無く、非常に静かに稼働することから、実に多様なアプリケーションに採用されています。容積式のローターポンプで、軸流設計であり、稼働する部品は3点のみです。
補助スクリーはシールの役割をし、ポンプ稼働時には流体により回転します。当ポンプの回転運動は、メインスクリーと2本の補助スクリー間でのみ行われます。この回転運動により、騒音と振動を限りなく小さく抑えられます。

アプリケーション

風力発電

低圧の冷却装置、再循環（風車のピッチ制御）

潤滑（ギアとギアボックス）

産業分野

低圧の冷却装置

オフライン小型冷却システム

冷却装置用ユニット

潤滑（ディーゼルエンジン、タービン、コンプレッサー）

モバイル

モバイルマシンの冷却

ろ過装置

低圧での再循環

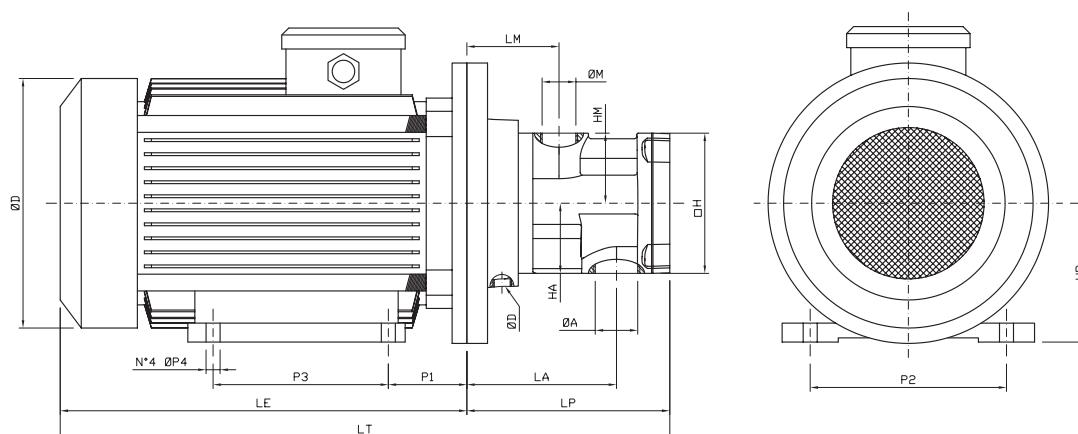


Flow media / Fluidi

Mineral oil
Oli minerali

Synthetic oil
Oli sintetici

Motor pump SMT8B / Motopompa SMT8B



SMT8B																		
PUMP SIZE		GR 32				GR 40					GR 45					GR 60		
L / min		26-30-35-45				60-80					80-120-155					210-300-380		
MOTOR SIZE		71	80	90 S	90 L	80	90 S	90 L	100	112	90 S	90 L	100	112	132 S	132 M	100	112
HOLLOW SHAFT		14	19	24		19	24		28		24		28		38		28	38
MOTOR	ØD	160,0	200,0			200,0			250,0		200,0		250,0		300,0		250,0	
	LE	225,0	256,0	255,0	280,0	256,0	255,0	280,0	307,0	328,0	255,0	280,0	307,0	328,0	365,0	403,0	307,0	328,0
	HP	71,0	80,0	90,0		80,0	90,0		100,0	112,0	90,0		100,0	112,0	132,0		100,0	112,0
	P1	45,0	50,0	56,0		50,0	56,0		63,0	70,0	56,0		63,0	70,0	89,0		63,0	70,0
	P2	112,0	125,0	140,0		125,0	140,0		160,0	190,0	140,0		160,0	190,0	216,0		160,0	190,0
	P3	90,0	100,0		125,0	100,0		125,0	140,0		100,0	125,0	140,0			178,0	140,0	
	ØP4	7,0	10,0			10,0			12,0		10,0		12,0				12,0	
PUMP	LA	93,3	106,7	114,7		108,0	116,0		124,3		136,5		149,5		163,0		161,5	
	LM	52,3	65,7	73,7		67,0	75,0		83,3		81,0		94,0		107,5		88,5	
	LP	131,3	144,7	152,7		146,0	154,0		162,3		188,0		201,0		214,5		233,0	
	H	100,0				100,0				100,0				130,0				
	HA	50,0				50,0				70,0				80,0				
	ØA	1" Gas				1" Gas				1" 1/2 Gas				2" SAE-3000				
	HM	50,0				50,0				65,0				80,0				
	ØM	3/4" Gas				3/4" Gas				1" 1/4 Gas				1" 1/4 SAE-3000				
	ØD	1/4" Gas				1/4" Gas				1/4" Gas				1/4" Gas				
LT		356,3	400,7	407,7	432,7	402,0	409,0	434,0	469,3	490,3	443,0	468,0	508,0	529,0	579,5	617,5	540,0	561,0

SMAT8B (For US market)													
PUMP SIZE		GR 32				GR 40					GR 45		
L / min		26-30-35-45				60-80					80-120-155		
MOTOR SIZE		71	80	90 S	90 L	80	90 S	90 L	100	112	90 S	90 L	100
HOLLOW SHAFT		14	19	24		19	24		28		24		28
MOTOR	ØD	160,0	200,0			200,0			250,0		200,0		250,0
	LE	225,0	256,0	255,0	280,0	256,0	255,0	280,0	307,0	328,0	255,0	280,0	307,0
	HP	71,0	80,0	90,0		80,0	90,0		100,0	112,0	90,0		100,0
	P1	45,0	50,0	56,0		50,0	56,0		63,0	70,0	56,0		63,0
	P2	112,0	125,0	140,0		125,0	140,0		160,0	190,0	140,0		160,0
	P3	90,0	100,0		125,0	100,0		125,0	140,0		100,0	125,0	140,0
	ØP4	7,0	10,0			10,0			12,0		10,0		12,0
PUMP	LA	93,3	106,7	114,7		108,0	116,0		124,3		136,5		149,5
	LM	52,3	65,7	73,7		67,0	75,0		83,3		81,0		94,0
	LP	131,3	144,7	152,7		146,0	154,0		162,3		188,0		201,0
	H	100,0				100,0					100,0		
	HA	50,0				50,0					70,0		
	ØA	1" Gas				1" Gas					1" 1/2 Gas		

Motor dimensions data might change according to motor manufacturer so, please, contact Settima.
Le dimensioni del motore possono cambiare in base al costruttore, quindi, si prega di contattare Settima.

Technical characteristics / Caratteristiche tecniche

Available models <i>Modelli disponibili</i>	GR32 - GR40 - GR45 - GR60	
Flanges <i>Flange</i>	IEC standard (for direct coupling with motor) Aluminium made <i>IEC standard (per accoppiamento diretto) Alluminio</i>	
Connections <i>Conessioni</i>	BSPP(GAS) – SAE 3000	
Drive loading <i>Carichi</i>	No axial or radial loads <i>Nessun carico assiale o trasversale</i>	
Shaft rotation <i>Rotazione albero</i>	Clockwise (from shaft end) for counter clockwise please contact Settima <i>Destra, per rotazione sinistra si prega di contattare Settima</i>	
Shaft speed <i>Velocità di rotazione</i>	From 500 to 1.750 rpm <i>Da 500 a 1.750 rpm</i>	
Flows <i>Portate</i>	From 15 up to 380 L/min (at 1.450 rpm) <i>Da 15 a 380 L/min (a 1.450 rpm)</i>	
Outlet pressure <i>Pressione di mandata</i>	From 0 up to 15 bar <i>Da 0 a 15 bar</i>	
Inlet pressure <i>Pressione di aspirazione</i>	Min. -0,5 bar max. 1,5 bar <i>Min. -0,5 bar max. 1,5 bar</i>	
Viscosity <i>Viscosità</i>	From 10 up to 15.000 cSt* <i>Da 10 a 15.000 cSt*</i>	
Seals <i>Guarnizioni</i>	NBR, FKM, EPDM	
Acoustic emissions <i>Emissioni acustiche</i>	From 55 up to 63 db(A) at 1.750 rpm <i>Da 55 fino a 63 db(A) at 1.750 rpm</i>	
Pump body <i>Corpo</i>	Aluminium (standard), Cast iron (special applications) <i>Alluminio (standard), Ghisa (applicazioni speciali)</i>	
Environment temperature <i>Temperatura ambiente</i>	From -20° up to +60°C <i>Da -20° a +60°C</i>	
Hydraulic temperature <i>Temperatura olio</i>	From -20°C up to +150°C <i>Da -20°C a +150°C</i>	
Filtration <i>Filtrazione</i>	Permissible degree of fluid contamination NAS to 1638 class 8 or ISO DIS 4406 17/14. Recommended filtration $\beta_{25} \geq 75$	Contaminazione NAS tipo classe 1638 8 o ISO DIS 4406 17/14. Filtrazione raccomandata $\beta_{25} \geq 75$

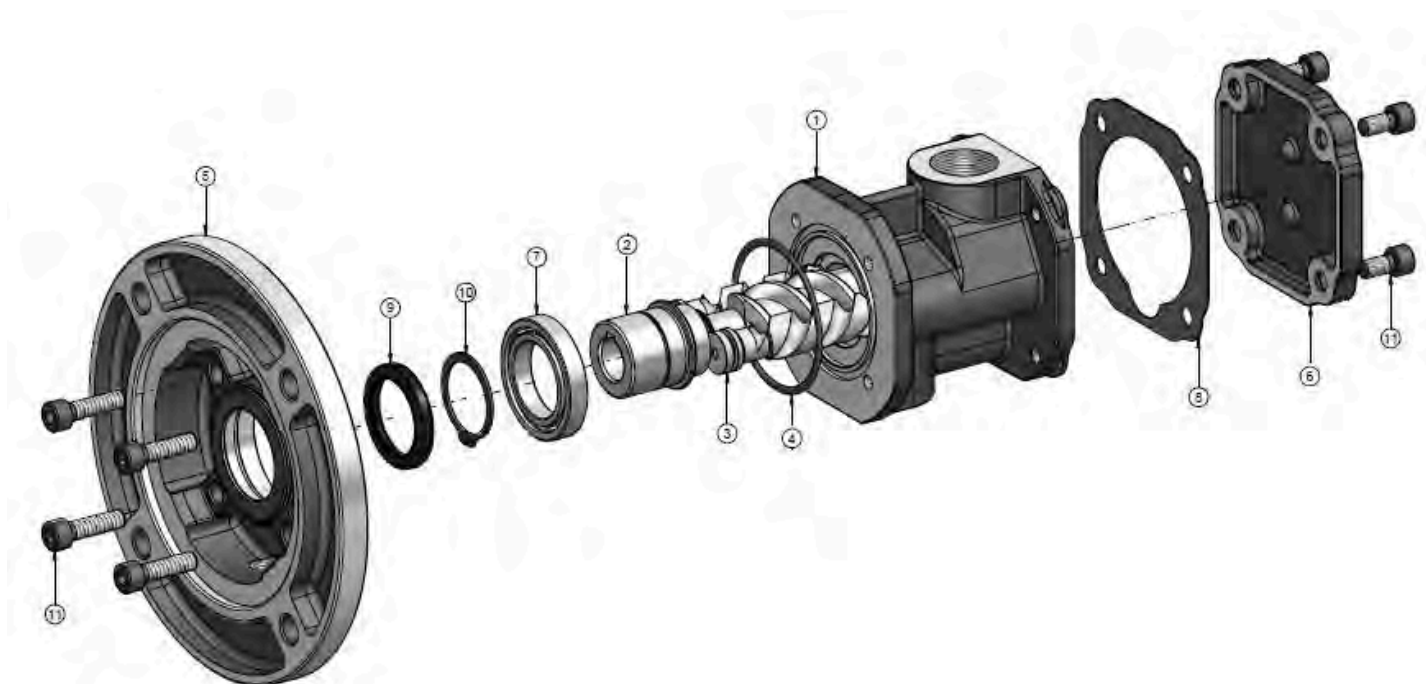
Standard performance / Prestazioni standard

Characteristics	Caratteristiche	Un.	Min.	Max.
Gas content (undissolved)	Gas contenuto (non disciolto)	Vol%	-	5
Level of contamination	Livello di contaminazione	ISO4406	-	21(19/17)
Kinematic viscosity	Viscosità Cinematica	mm ² /s	7	15.000*
Temperature (NBR seals)	Temperatura (guarnizione NBR)	°C	-25	80
Temperature (FPM seals)	Temperatura (guarnizione FPM)	°C	-25	150
Acoustic emissions	Emissioni acustiche	dB(A)	55 @ 1.500 rpm	56 @ 3.000 rpm
Pressure	Pressione	bar	-	15 (peak 20)

* Please contact Settima for more information about viscosity level.

* Contattare Settima per maggiori informazioni sul livello di viscosità.

Product description / Descrizione prodotto



N°	DESCRIPTION	DESCRIZIONE	MATERIAL	MATERIALE
1	Pump body	Corpo pompa	Aluminum / Cast iron*	Alluminio / Ghisa*
2	Main screw	Vite centrale	Steel*	Acciaio*
3	Idler screw	Vite laterale	Cast iron*	Ghisa*
4	O ring		NBR / FKM*	
5	Front cover	Flangia motore	Aluminium*	Alluminio*
6	End cover	Tappa posteriore	Aluminium*	Alluminio*
7	Ball bearing	Cuscinetto	Steel*	Acciaio*
8	Gasket	Guarnizione	NBR*	
9	Lip seal	Guarnizione a labbro	NBR / FKM*	
10	Circlip	Anello elastico	Steel	Acciaio
11	Screws	Viti	Steel	Acciaio

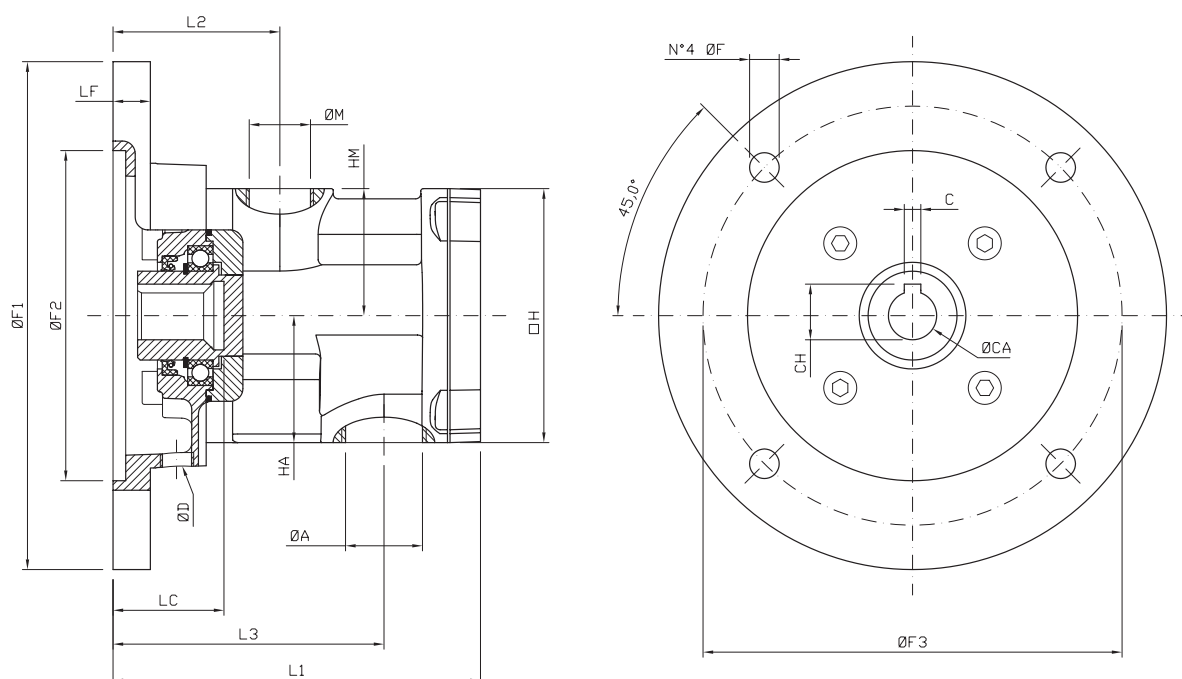
* Others available upon request.

* Altri tipi disponibili su richiesta.

Hollow shaft availability / Disponibilità albero maschio

Size / Taglia	Type / Tipo	AC14	AC19	AC24	AC28	AC38
GR 32	26L	X	X	X		
	30L					
	35L					
	45L					
GR 40	60L		X	X	X	
	80L					
GR 45	80L			X	X	X
	120L					
	155L					
GR 60	210L				X	X
	300L					
	380L					

SMT8B - Standard dimensions / Dimensioni standard



SMT8B												
SIZE / TAGLIA		GR 32			GR 40			GR 45			GR 60	
L/min (1450 RPM)		26 - 35 - 45			60 - 80			120 - 155			210 - 300 - 380	
SHAFT - FLANGE ALBERO - FLANGIA		Ac14-B5	Ac19-B5	Ac24-B5*	Ac19-B5	Ac24-B5	Ac28-B5	Ac24-B5	Ac28-B5	Ac38-B5*	Ac28-B5	Ac38-B5
FLANGE FLANGIA	ØF	9,5	11,6		12,0		14,0	12,0	14,0	15,0	14,0	
	ØF1	160,0	200,0		200,0		250,0	200,0	250,0	300,0	250,0	
	ØF2	110,0	130,0		130,0		180,0	130,0	180,0	230,0	180,0	
	ØF3	130,0	165,0		165,0		215,0	165,0	215,0	265,0	215,0	
	LF	23,3	15,7	23,7	15,0	23,0	15,0	12,0	15,0		11,0	
SHAFT ALBERO	C	5,2	6,5	8,5	6,5	8,5		8,5		10,5	8,5	
	ØCA	14,0	19,0	24,0	19,0	24,0	28	24,0	28,0	38,0	28,0	
	CH	16,2	21,9	27,5	21,8	27,5	31,5	27,5	31,5	42,0	31,5	
	LC	23,8	43,7	52,7	42,6	52,6	62,9	53,0	63,5	81,2	64,8	
PUMP POMPA	L1	131,3	144,7	152,7	146,0	154,0	162,3	188,0	201,0	214,5	233,0	
	L2	52,3	65,7	73,7	67,0	75,0	83,3	81,0	94,0	107,5	88,5	
	L3	93,3	106,7	114,7	108,0	116,0	124,3	136,5	149,5	163,0	161,5	
	H	100,0			100,0			100,0			130,0	
	HA	50,0			50,0			70,0			80,0	
	ØA	1" Gas			1" Gas			1" 1/2 Gas			2" SAE-3000	
	HM	50,0			50,0			65,0			80,0	
	ØM	3/4" Gas			3/4" Gas			1" 1/4 Gas			1" 1/4 SAE-3000	
	ØD	1/4" Gas			1/4" Gas			1/4" Gas			1/4" Gas	

* The data might change according to the motor manufacturer, please contact Settima.

* I dati potrebbero cambiare in base al costruttore dei motori, contattare Settima.

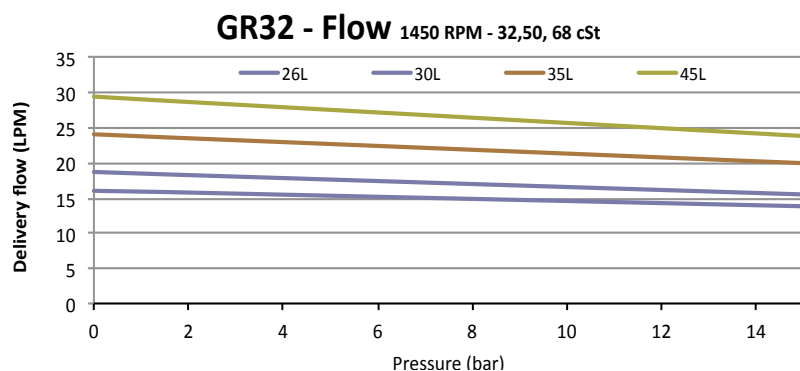
SMAT8B - Standard dimensions / Dimensioni standard

SMAT8B (For US market)							
SIZE / TAGLIA		GR 32		GR 40		GR 45	
L/min (1450 RPM)		26 - 35 - 45		60 - 80		120 - 155	
SHAFT - FLANGE ALBERO - FLANGIA		Ac7/8" 143/145TC	Ac1" 1/8 182/184TC	Ac7/8" 143/145TC	Ac1" 1/8 182/184TC	Ac1" 1/8" 182/184TC	Ac1" 3/8 213/1215TC
FLANGE FLANGIA	ØF	0,413	0,554	0,413	0,554	0,554	0,554
	ØF1	6,500	9,000	6,500	9,000	9,000	9,000
	ØF2	4,500	8,500	4,500	8,500	8,500	8,500
	ØF3	5,878	7,250	5,878	7,250	7,250	7,250
	FL	0,630	0,630	0,630	0,630	0,630	0,630
SHAFT ALBERO	C	0,209	0,256	0,209	0,256	0,256	0,335
	ØCA	0,875	1,125	0,875	1,125	1,125	1,375
	CH	0,984	1,260	0,984	1,260	1,271	1,535
	LC	2,217	2,965	2,209	2,866	2,866	3,327
PUMP POMPA	L1	6,035	7,551	6,075	6,705	8,200	9,205
	L2	2,925	4,441	2,965	3,594	3,988	4,992
	L3	4,539	6,055	4,579	5,209	6,173	7,177
	H	3,937		3,937		3,937	
	HA	1,969		1,969		2,756	
	ØA	1" Npt		1" Npt		1" 1/2 Npt	
	HM	1,969		1,969		2,559	
	ØM	3/4" Npt		3/4" Npt		1" 1/4 Npt	
	ØD	1/4" Npt		1/4" Npt		1/4" npt	

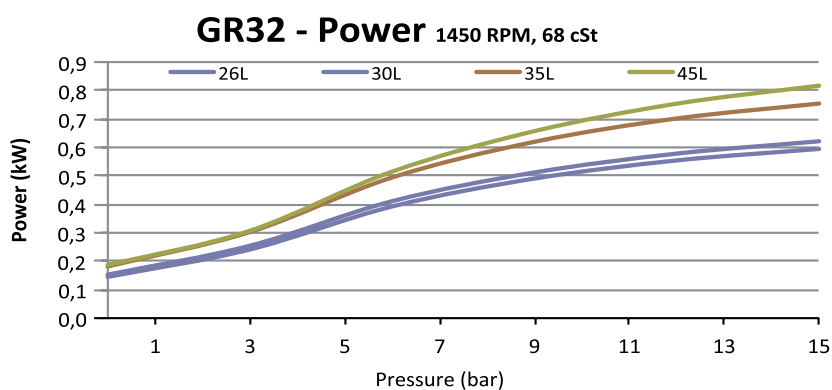
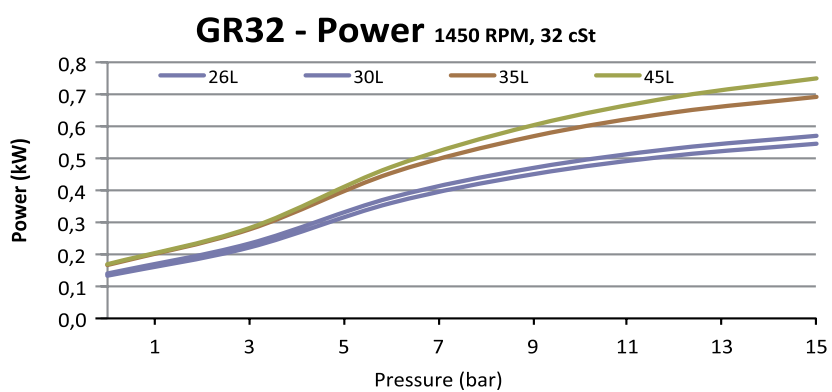
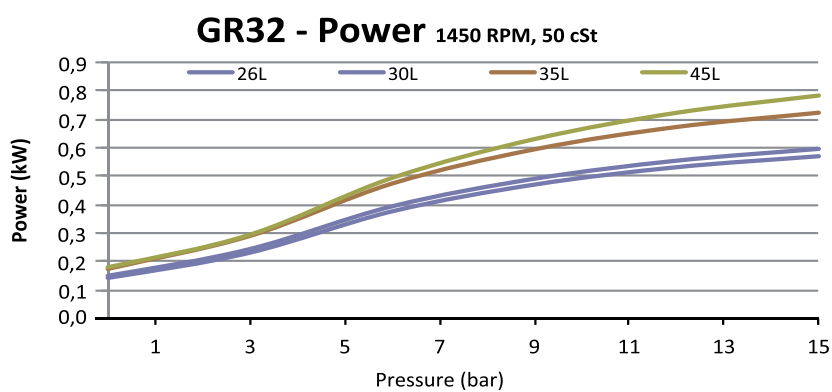
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* I dati potrebbero cambiare in base al costruttore dei motori, contattare Settima.

FLOW

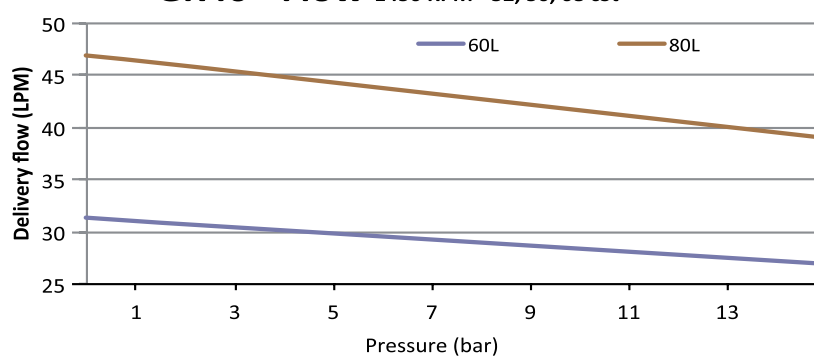


POWER



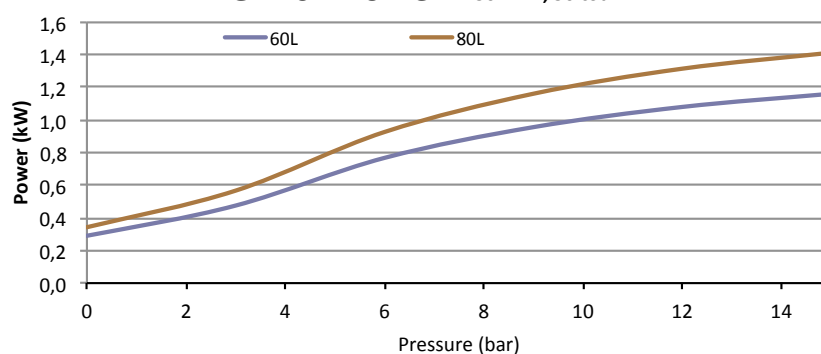
FLOW

GR40 - Flow 1450 RPM - 32, 50, 68 cSt

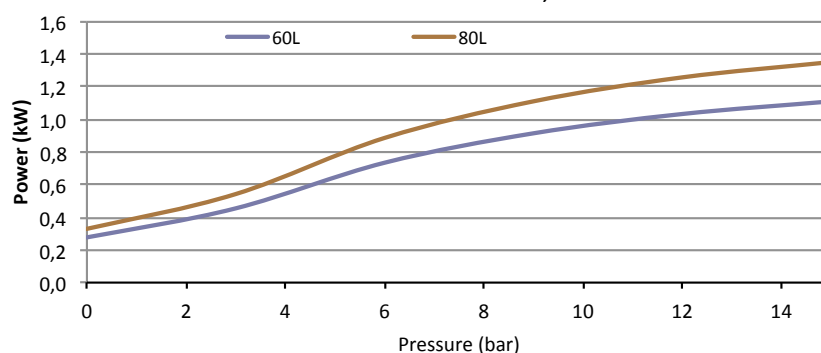


POWER

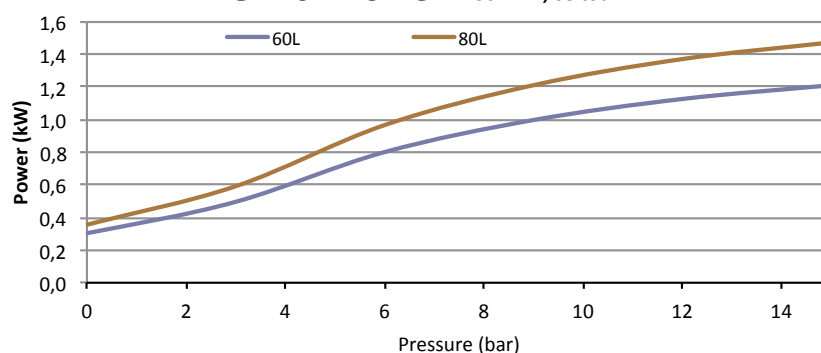
GR40 - Power 1450 RPM, 50 cSt



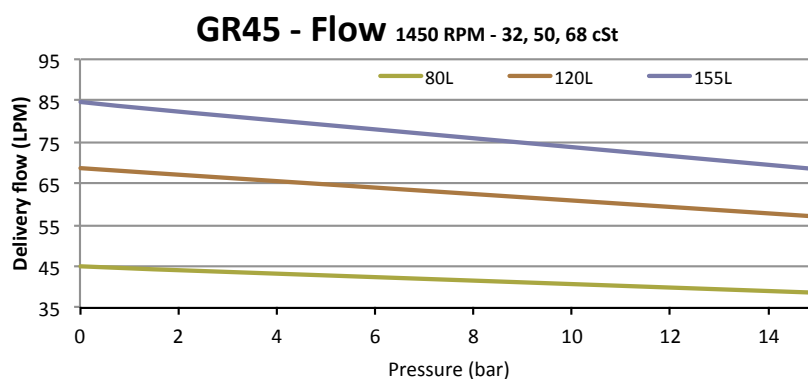
GR40 - Power 1450 RPM, 32 cSt



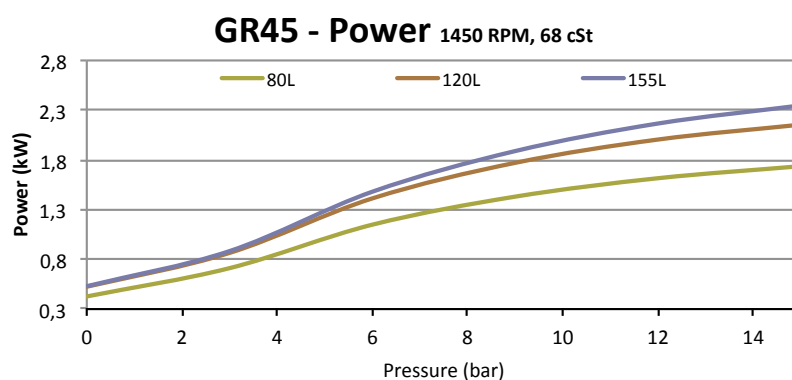
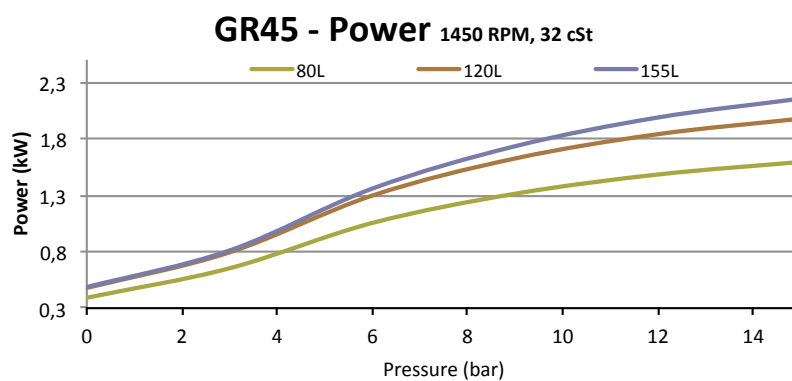
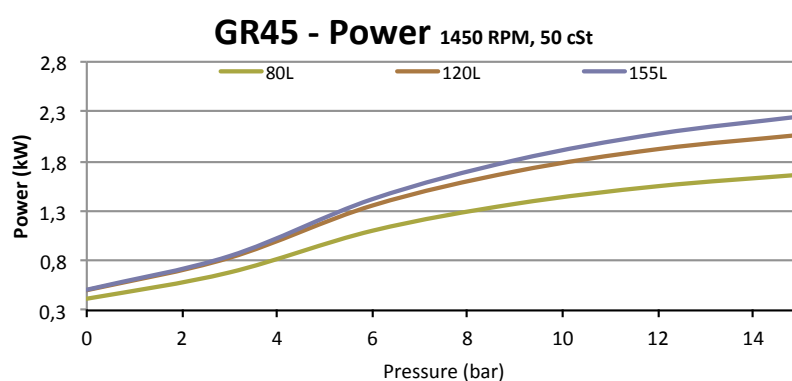
GR40 - Power 1450 RPM, 68 cSt



FLOW

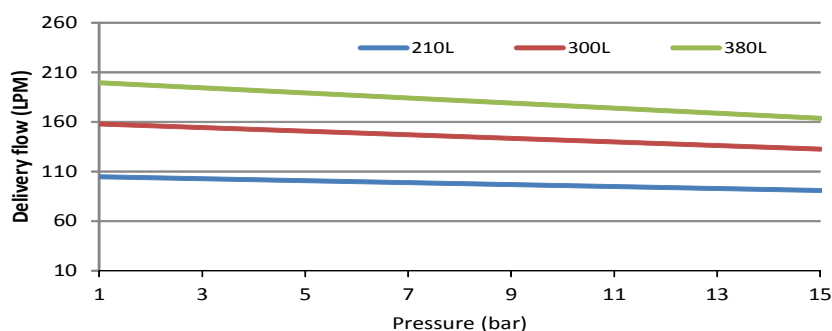


POWER



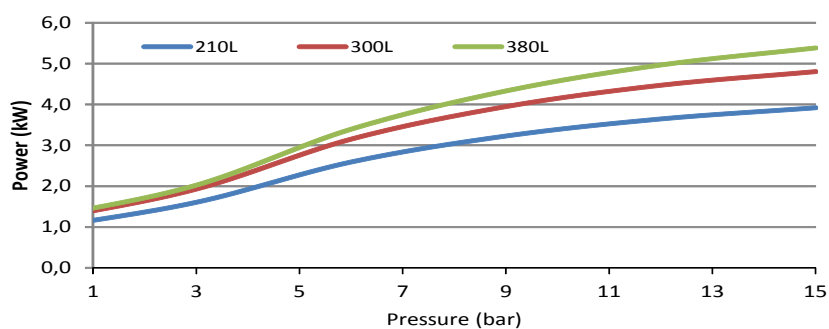
FLOW

GR60 - Flow 1450 RPM - 32,50, 68 cSt

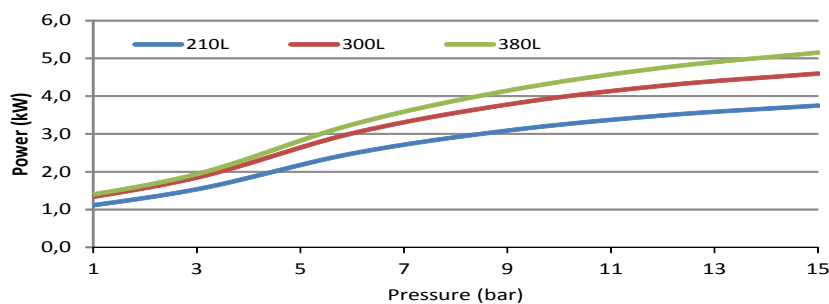


POWER

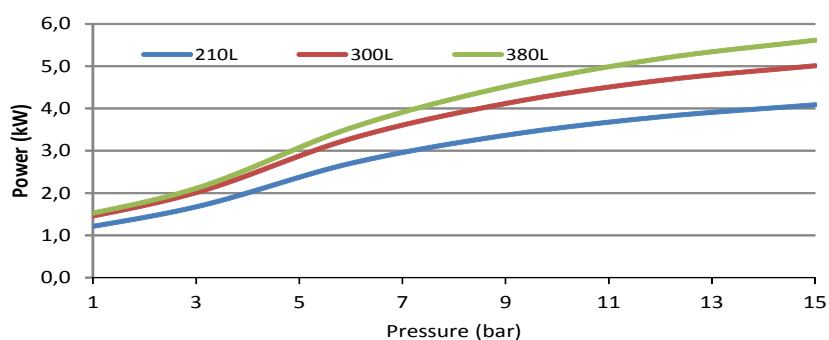
GR60 - Power 1450 RPM, 50 cSt



GR60 - Power 1450 RPM, 32 cSt



GR60 - Power 1450 RPM, 68 cSt



Ordering code / Codici di ordinazione

Type Tipo	Class Classe	Flows Portate	Shaft type Tipo albero	Pump body Corpo pompa	Body treatment Trattamenti corpo	Relief valve Valvola di sicurezza	Seals Guarnizioni	Screws Viti	Drain configuration Configurazione drenaggio	Rotation Rotazione
GR 32	SMT8B SMT8B	26	Male shaft & flange <i>Albero maschio & flangia</i> (none)**	Standard (none) Aluminium <i>Alluminio</i>	Standard (none) Optional OX	Standard (none)	Standard (none) NBR	Standard (none)	Standard (none) D2	Standard (none) DX clockwise <i>orario</i>
		30								
		35								
		45								
GR 40	SMT8B SMT8B	60		Optional G Cast iron <i>Ghisa</i>	Anodic coating (only with all. body) <i>Rivestimento anodico (solo corpo in all.)</i>	Optional RF1 (5bar) RF2 (10bar) RF3 (15bar)	Optional V FKM E EPDM	Optional HD surface treatment <i>trattamento superficiale</i>	Optional D1*** D3*** D4***	Optional SX counter clockwise <i>antiorario</i>
		80								
GR 45	SMT8B SMT8B	80	Hollow shaft <i>Albero cavo</i> AC14* AC19* AC24* AC28* AC38*							
		120								
		155								
GR 60	SMT8B SMT8B	210								
		300								
		380								

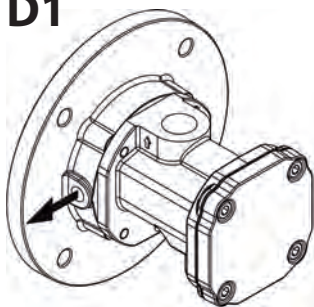
* Please, check the table at page 5 / Consultare la tabella a pagina 5.

** Please, check the table at page 13 / Consultare la tabella a pagina 13.

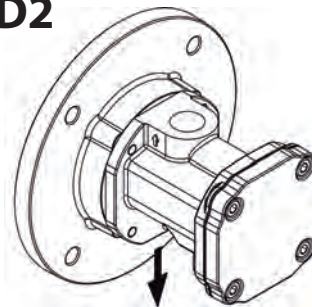
*** Please, check below chapter / Consultare il capitolo seguente.

Drain configurations codes / Codici configurazioni drenaggio

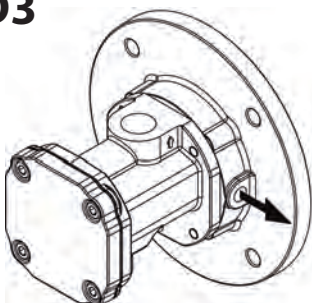
D1



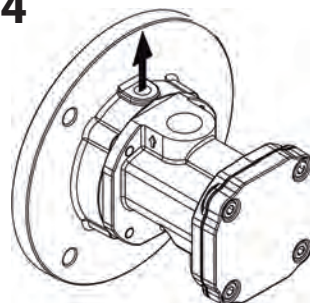
D2



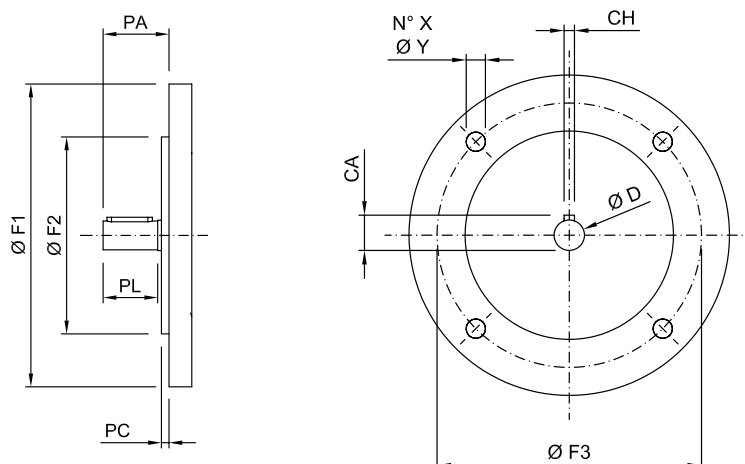
D3



D4



SMT8B male shaft / SMT8B albero maschio



Type Tipo	Flange / Flangia				Shaft / Albero			Pump / Pompa
	ØF2	ØY	ØF3	ØF1	PL	ØD	CH	PA
GR 32	100	11	125	150	35	19	6	41
GR 40	125	14	160	188	36	19	6	42.5
GR 45	125	14	160	188	55	32	10	64.5
GR 60	160	18	200	235	55	32	10	65.5

SMT8B double shaft / SMT8B doppio albero

下の写真は、モーター側、又はその反対側に中空シャフトを採用した場合のイメージです。



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