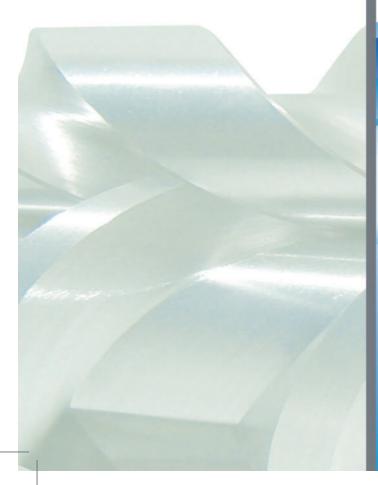






serie
series





APPLICATIONS

PUMP TYPE

THREE SCREW PUMPS /

TWIN SCREW PUMPS

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		THRE	E SCREW PU	IMPS	
COMPONENT TYPE		L	OW PRESSUP	RE	
	PB	PHS	PZ	PZD	PXF
COMPONENT MODEL	June 1	N.C		Lo B	
MAIN CHARACTERISTICS					
Flow rate up to m3/h [lpm]	2,5 [41]	12 [200]	288 [4.800]	600 [10.000]	288 [4.800]
Max operating pressure bar	16	16	16	16	30
Typical Viscosity cSt	1,2 - 5.000	1,2 - 5.000	1,2 - 5.000	1,6 - 5.000	10 - 5.000
Max operating temperature °C	150	150	150	120	120
TYPICAL APPLICATIONS					
STRIPPING					
CARGO					
TRANSFER					
SEPARATOR					
FEEDER					
CIRCULATING					
BOILER / BURNER					
LUBE: Diesel Engine, Thruster, Gear Box					
HYDRAULIC *				2	
TYPICAL FLUIDS	Ĺ				
FUEL OIL: HF0 - LF0 - MG0 - D0 - LSMG0	YES	YES	YES	YES	× NO
MINERAL OIL / LUBE OIL	YES	YES	YES	YES	YES
Body Materials	GGG40	GGG40	GG25 GGG40	GGG40	GG25 C.S.
Screw Set Materials	Nitrided Steel	Nitrided Steel	Nitrided Steel	Nitrided Steel	Carbon Steel
Mechanical Seal	YES	YES	YES	YES	YES
Magnetic coupling	YES	YES	YES	YES	YES
Integrated Relief Valve	YES	YES	YES	YES	YES
STANDARD IN / OUT Port Connection	SAE 3.000psi	Special	DIN PN16 ANSI - option	DIN PN16 ANSI - option	SAE 3.000psi DIN *** PN16

* Deck Machinery, Pitch Propeller, Steering Gear, Door and Ramp *** Up to size 083: SAE 3.000psi port / from size 083 to 156: DIN FLANGE

		-				3	
~			·		2. 	·	
YES	× NO	YES	YES	YES	YES	YES	YES
NO	YES	YES	YES	YES	YES	YES	YES
GG25	AI	C.S.	C.S.	GGG40	GGG40	C.S.	GG25
GGG40	19-19-10	GGG40	GGG40	1.755059.059325	34,9034,905	GGG40	675)4765451
Nitrided Steel	Nitrided Steel	Nitrided Steel					
YES	YES	YES	VES	YES	YES	N.A.	N.A.
YES	× NO	× NO	× NO	VES	YES	N.A.	N.A.
× NO	× NO	option	option	YES	YES	N.A.	N.A.
SAE 3.000psi	SAE 3.000psi	DIN	DIN	1"1/2 ANSI150	DN32 PN16/40	SAE 3.000psi	SAE 3.000psi
one oloupar	OAE 0.000par	ANSI - option	ANSI - option		01102 1 1110/40	DN PN	OAL 0.000par

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			-1	

34 [560]	34 [560]	600 [10.000]	1.200 [20.000]	12 [200]	2,5 [41]	420 [7.000]	72 [1.200] **
40	120	16 / 40	16 / 40	16	16 / 40	40 / 200	150 **
1 - 15	10 - 5.000	0,7 - 15.000	0,7 - 15.000	1,2 - 5.000	1,2 - 5.000	1 - 5.000	10 - 5.000 **
120	120	300	300	150	150	150	100

THREE	SCREW PUMPS	TWIN SCRI	EW PUMPS	DOUBLE	STATION	CONSU	MPTION
MEDIU	IM PRESSURE	LOW PR	ESSURE	LOW PR	ESSURE	& CON	NTROL
PO - P	NO POF-PWO	2SP LS	2SP	PDP	SPB	MPV2	VMP / BVPA
		%	50	- AR			Ø

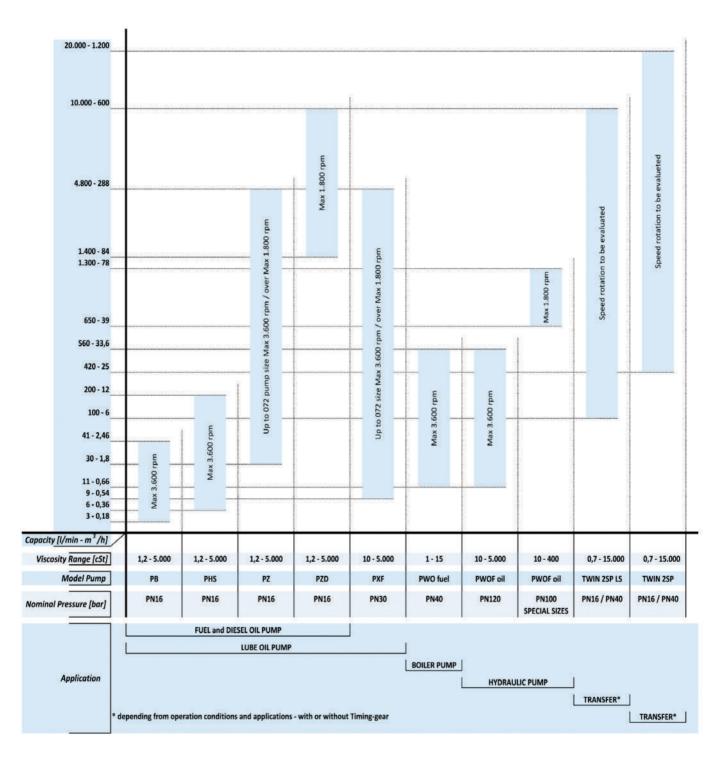




**Depends from valve model and size

PERFORMANCE CHART





TECHNICAL DETAILS

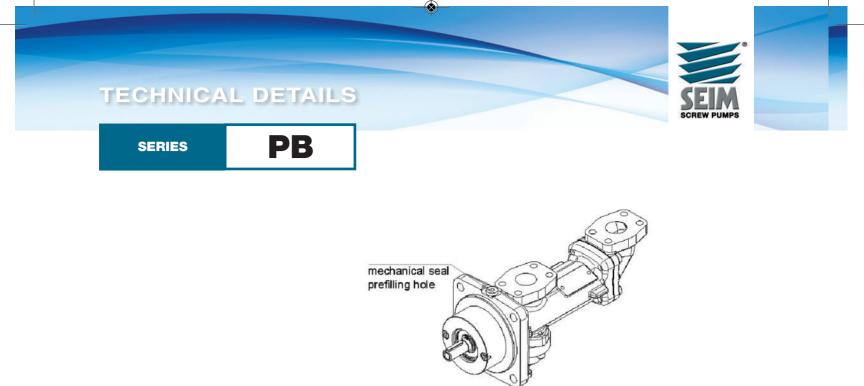




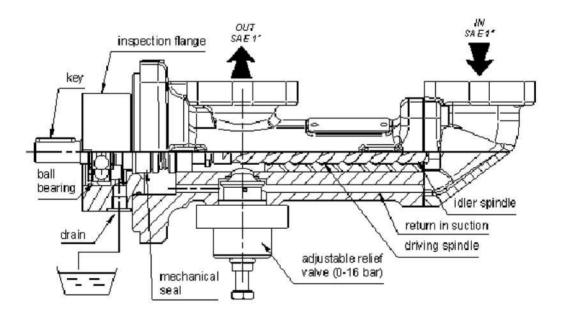


INSTALLATION DATA	
Installation	Indoor or Outdoor
Environment	Marine, Industrial
Application	Transfer, fuel supply, lubricating, boiler
OPERATING DATA	
Handled fluid	Fuel oil HFO - DO - LSMGO - Hydraulic and Lube oils
Viscosity range	From 1.2 to 5000 cSt
Pump speed	From 750 to 3600 rpm (*)
Rotation (viewed from coupling end)	CW (Std version; CCW on demand)
TECHNICAL CHARACTERISTICS	
Flow rate	Up to 41 LPM - 2,5 m ³ /h
Suction pressure	From - 0,5 to 10 bar
Delivery pressure	Up to 40 bar (from 1000 to 3600 rpm)
Operating temperature range	From 0 to 150 °C (*)
Seal	Mechanical seal
Bearing type	Radial ball on main shaft
Bearing lubrication	Lubricated for life
Mounting arrangement	Horizontal or vertical mounting
Inlet & Outlet connection	Special version
MATERIALS	
Casing/Flanges	Modular cast Iron GGG40
Screws	Nitrided steel
0-rings	Viton ®
Surface protection	Only on demand

(*) For different values contact Seim



PB pump Series was designed for low capacity (from 3 lpm) and low pressure (16 / 40bar) services. Fluids normally used are Diesel Oil, LSMGO, Fuel Oil for Boiler / Burner feeding and Lubricant Oil, Mineral Oil for small lube and pre-lube system



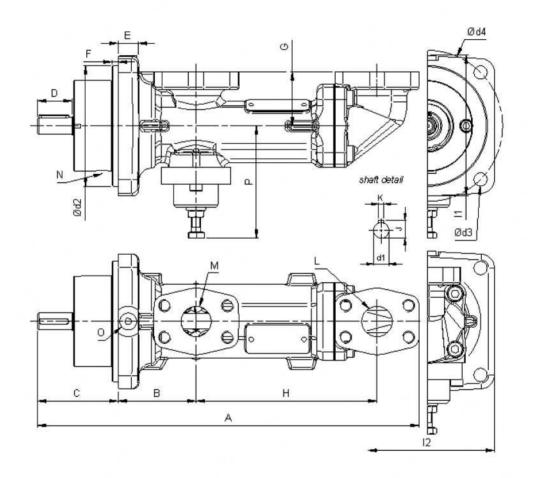
Like all the other SEIM pumps series, PB series is designed to satisfy customer needs also in terms of *low maintenance cost and long life* of the internal parts of the pump.

Every choice taken during the PB pump project, like material or components to be used, like surface treatment and hardening, dimension, tolerance and surface roughness and machining, is determined only to reach the target to offer an *'intelligent' product*.



Main characteristics of this pump series are:

- Compact shape
- Same casing for the two sizes
- Standard flange connection (SAE)
- High quality mechanical Seals
- Casing material: UNI EN 1563 GJS400 Nodular Cast Iron
- Screw material: Nitrided Steel
- Version coupled with Magnetic Drive
- Pumps used for SEIM SPB double pump station for Boiler / Burner



Dimensional chart (mm)

			36		-		94						IN	OUT			-				
MODEL	A	в	C	D	E	F	G	н	11	12	J	к	L 545 3040	M 5AE 3000	N gas	O GAS	Ρ	d1 Ø	d2 Ø	д 3 Ø	d4 Ø
PB020-025	318	65	67	29	16	5	45	151	115	111	16	5	1"	1"	1" 8	1 0 8	93	14	100	11	125

SOLUTIONS FOR GREEN APPLICATIONS MAGNETIC COUPLING DRIVE



SERIES

MPB - MPHS & MPZ

INSTALLATION DATA	
Applicable to all PUMPS SIZE:	PB series (from 3 to 41 lpm) at 16 / 40 bar PHS series (from 6 to 200 lpm) at 16 bar PZ series (from 30 to 4.800 lpm) at 16 bar
More usual applications :	FUEL SUPPLY: Cargo, Transfer, Separator, Feeder, Circulating, Boiler/Burner
OPERATING DATA	
Handled Fluids:	HFO, DO, GO, LSMGO (all fluids with some lubricant properties but dangerous in case of leakage)
Minimum viscosity:	From 1,2cS

(*) For different values contact Seim

WHERE and WHEN we propose the **GREEN SOLUTION**

- Where we must pump a fluid dangerous for the ENVIRONMENT
- When the RULES COMPLIANCE is fundamental
- Where there is a RISK of FIRE
- When the maintenance become dangerous for the HEALTH
- Where a LEAKAGE is also a COST
- When the MAINTENANCE COST* is higher than pump cost'

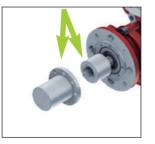
*Maintenance Cost = [SK + (TC + TCM) x HC] x N SK= Seal Kit Cost TC= Time for change all components of Seal Kit (Mechanical seal + ball bearing + gasket and O.R.) TCM= Time for cleaning Area after Maintenance HC= Operators Hourly Cost (Electrician + maintenance operator) N= seal kit number changed during pump life

WHAT MEANS GREEN SOLUTION

NO MECHANICAL SEAL



NO PARTS IN CONTACT



SEALED SYSTEM:





SERIES

MPB - MPHS & MPZ

WHICH and HOW CHANGES with the GREEN SOLUTION

- SHIP SAFETY
- System EFFICENTY
- RULES COMPLIANCE
- REALIABILITY
- PERFORMANCE with Low Sulfur and Low viscosity FLUID



• RISK OF FIRE (Leakeage FREE PUMP)

- ENVIRONMENT IMPACT (also: less Packaging materials, less additional transport
 - HEALTH IMPACT (less Skin contact and Inhalation during the Maintenance)
 - SPARE PARTS NUMBER and WEIGHT to MANAGE on EACH SHIP
 - SPARE PARTS COST
 - MAINTENANCE COST



Precence of our components

TABELLA PRESTAZIONI

PERFORMANCE CHART

SERIES

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		cSt				2[cSt]				5 [cSt]											50	cSt			
		rpm	15	00	18	00	30	00	36	00	15	00	18	00	30	00	36	00	15	00	18	00	30	00	36	00
		bar	11/1	kW	lt/1	kW	lt/1	kW	11/1	kW	lt/1	kW	lt/1	kW	k/1	kW	lt/1	kW	lt/1	kW	lt/1	kW	It/1	kW	k/1	kW
		0	5,9	.0	7,1	.0	11,8	.1	14,2	.1	5,9	٥.	7,1	0.	11,8	.1	14,2	.1	5,9	.0	7,1	.1	11,8	.1	14,2	.2
		5	3,1	.1	4,2	.1	9	.2	11,3	.2	3,6	.1	4,8	.1	9,6	.2	11,9	.2	4,9	.1	6,1	.1	10,8	.2	13,2	.3
	1	10	1,9	.1	3,1	.2	7,8	.3	10,2	.3	2,7	.1	3,9	.2	8,6	.3	11	.3	4,5	.2	5,7	.2	10,4	.3	12,8	.4
PB020	_	16	.8	.2	2	.2	6,7	,4	9,1	.5	1,9	.2	3	.2	7,8	,4	10,1	.5	4,1	.2	5,3	.3	10	.5	12,4	.6
10020		0	8,9	.0	10,6	.1	17,7	.1	21,3	.2	8,9	0.	10,6	.1	17,7	.1	21,3	.2	8,9	.1	10,6	.1	17,7	.2	21,3	.3
	в	5	4,7	.1	6,5	.1	13,6	.3	17,2	.3	5,6	.1	7,4	.1	14,5	.3	18	.3	7,4	.2	9,2	.2	16,3	.4	19,8	.5
		10	3	.2	4,8	.2	11,9	.4	15,4	.5	4,2	.2	6	.2	13,1	A	16,6	.5	6,8	.2	8,6	.3	15,7	.5	19,2	.6
		16	1,5	.3	3,3	.3	10,4	.6	13,9	.7	3	.3	4,8	.3	11,9	.6	15,4	.7	6,2	.3	8	.4	15,1	.7	18,7	.9
		0	10,6	.0	12,7	.1	21,1	.1	25,4	.2	10,6	0.	12,7	.1	21,1	.1	25,4	.2	10,6	.1	12,7	.1	21,1	.2	25,4	.3
	ĸ	5	7,1	.1	9,3	.2	17,7	.3	21,9	,4	7,8	.1	10,0	.2	18,4	.3	22,6	.4	9,3	.2	11,5	.2	19,9	.4	24,1	.5
		10	5,7	.2	7,8	.3	16,3	.5	20,5	,6	6,7	.2	8,8	.3	17,3	.5	21,5	.6	8,8	.3	11,0	.3	19,4	.6	23,6	.7
		16	4,4	.3	6,6	.4	15,0	.7	19,2	.9	5,7	.3	7,8	.4	16,3	.7	20,5	.9	8,4	A	10,5	.4	19,0	.8	23,2	1,0
		0	11,8	٥,	14,2	.1	23,7	.1	28,4	.2	11,8	٥.	14,2	.1	23,7	.1	28,4	.2	11,8	.1	14,2	.1	23,7	.2	28,4	.3
	J	5	8,5	.1	10,8	.2	20,3	,3	25,0	,4	9,2	.1	11,5	.2	21,0	.3	25,7	.4	10,6	.2	13,0	.2	22,5	,4	27,2	.6
	37.5	10	7,1	.2	9,4	.3	18,9	.5	23,6	.7	8,1	.2	10,4	.3	19,9	.5	24,6	.7	10,1	.3	12,5	.4	22,0	.7	26,7	.8
PB025		16	5,8	.4	8,2	.4	17,6	.8	22,4	1,0	7,0	<i>A</i>	9,4	.4	18,9	.8	23,6	1,0	9,7	A	12,1	.5	21,5	.9	26,3	1,1
101201200222		0	14,4	.1	17,2	.1	28,7	.2	34,5	.2	14,4	.1	17,2	,1	28,7	.2	34,5	.2	14,4	.1	17,2	.1	28,7	.3	34,5	.4
	A	5	10,1	.2	12,9	.2	24,4	.4	30,2	.5	10,9	.2	13,8	.2	25,3	.4	31,1	.5	12,8	.2	15,7	.3	27,2	.5	32,9	.7
		10	8,3	.3	11,1	.4	22,6	.7	28,4	.8	9,5	.3	12,4	.4	23,9	.7	29,6	.8	12,2	.3	15,1	.4	26,6	.8	32,3	1,0
	_	16	6,7	.4	9,5	.5	21,0	.9	26,8	1,2	8,2	A	11,1	.5	22,6	.9	28,3	1,2	11,6	.5	14,5	.6	25,0	1,1	31,7	1,3
		0	17,7	.1	21,3	.1	35,5	.2	42,6	.3	17,7	.1	21,3	.1	35,5	.2	42,6	.3	17,7	.1	21,3	.2	35,5	.4	42,6	.5
	В	5	11,6	.2	15,1	.3	29,3	.5	36,4	.6	12,8	.2	16,4	.3	30,6	.5	37,7	.6	15,6	.3	19,1	.4	33,3	.7	40,4	.8
		10	9,0	.4	12,6	.5	26,8	.8	33,9	1,0	10,8	A	14,4	.5	28,6	.8	35,7	1,0	14,6	A	18,2	.5	32,4	1,0	39,5	1,2
		16	6,7	.6	10,3	.7	24,5	1,2	31,6	1,4	9,0	.6	12,5	.7	26,7	1,2	33,8	1,4	13,8	.6	17,4	.8	31,6	1,3	38,7	1,7

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		cSt				100	[cSt]							150	[cSt]							400	[cSt]			
		rpm	15	00	18	00	30	00	36	00	15	500	18	00	30	00	36	00	15	00	18	00	30	00	36	00
8		bar	h/1	kW	ht/1	kW	lt/1	kW	lt/1	kW	h/1	kW	k/1	kW	lt/1	kW	ht/1	kW	11/1	kW	11/1	kW	lt/1	kW	h/1	kW
		D	5,9	.1	7,1	.1	11,8	.2	14,2	.2	5,9	.1	7,1	.1	11,8	.2	14,2	.3	5,9	.1	7,1	.2	11,8	.3	14,2	.4
		5	5,2	.1	6,4	.1	11,1	.3	13,5	.4	5,3	.1	6,5	.2	11,2	.3	13,6	.4	5,6	.2	6,7	.2	11,5	.4	13,8	.6
	'	10	4,9	,2	6,1	.2	10,8	A	13,2	.5	5,1	.2	6,3	.2	11	.4	13,4	.5	5,4	.2	6,6	.3	11,3	.5	13,7	.7
PB020		16	4,6	.2	5,8	.3	10,5	.5	12,9	.6	4,9	.2	6	.3	10,8	.6	13,1	.7	5,3	.3	6,5	.4	11,2	.7	13,6	.8
PBUZU		D	8,9	.1	10,6	.1	17,7	.3	21,3	.4	8,9	.1	10,6	.2	17,7	.3	21,3	.4	8,9	.2	10,6	.2	17,7	.5	21,3	.6
		5	7,8	,2	9,6	.2	16,7	А	20,3	.6	8	.2	9,8	.2	16,9	.5	20,4	,6	8,4	.3	10,1	.3	17,2	.6	20,8	.8
	D	10	7,4	.3	9,2	.3	16,3	.6	19,8	.7	7,7	.3	9,4	.3	16,5	.6	20,1	.8	8,1	.3	9,9	.4	17	8,	20,6	1
		16	7	.3	8,8	.4	15,9	.8	19,4	1	7,4	.4	9,1	.4	16,2	.8	19,8	1	7,9	.4	9,7	.5	16,8	1	20,4	1,3
		0	10,6	.1	12,7	.1	21,1	.3	25,4	.4	10,6	.1	12,7	.2	21,1	.3	25,4	,4	10,6	.2	12,7	.2	21,1	.5	25,4	.7
		5	9,7	.2	11,8	.2	20,3	.5	24,5	.6	9,9	.2	12,0	.3	20,4	.5	24,6	.7	10,1	.3	12,2	.3	20,7	.7	24,9	.9
	^	10	9,3	.3	11,5	.4	19,9	.7	24,1	8.	9,6	.3	11,7	.4	20,1	.7	24,4	.9	10,0	.4	12,1	.5	20,5	.9	24,7	1,1
		16	9,0	.4	11,1	.5	19,6	.9	23,8	1,1	9,3	.4	11,4	.5	19,9	.9	24,1	1,2	9,8	.5	11,9	.6	20,4	1,1	24,6	1,4
0		0	11,8	.1	14,2	.1	23,7	.3	28,4	,4	11,8	.1	14,2	.2	23,7	A	28,4	.5	11,8	.2	14,2	.3	23,7	.6	28,4	.7
		5	11,0	.2	13,4	.3	22,8	.5	27,5	.7	11,1	.2	13,5	.3	23,0	.6	27,7	.7	11,4	.3	13,8	А	23,2	8.	28,0	1,0
	1	10	10,6	.3	13,0	.4	22,5	.7	27,2	.9	10,9	.3	13,2	.4	22,7	8	27,4	1,0	11,2	.4	13,6	,5	23,1	1,0	27,8	1,2
PB025		16	10,3	.4	12,7	.5	22,1	1,0	26,9	1,2	10,6	.5	13,0	.6	22,4	1,0	27,2	1,3	11,1	.5	13,4	.7	22,9	1,2	27,6	1,6
FUULS		D	14,4	.1	17,2	.2	28,7	А	34,5	.5	14,4	.2	17,2	.2	28,7	.5	34,5	.6	14,4	.2	17,2	.3	28,7	.7	34,5	.9
		5	13,3	.3	16,2	.3	27,6	.6	33,4	.8	13,5	.3	16,4	.4	27,8	.7	33,6	.9	13,8	.4	16,7	.5	28,2	.9	33,9	1,2
	^	10	12,8	.4	15,7	.5	27,2	.9	32,9	1,1	13,1	.4	16,0	.5	27,5	1,0	33,2	1,2	13,6	.5	16,5	.6	28,0	1,2	33,7	1,5
		16	12,4	.5	15,3	.7	26,8	1,2	32,5	1,5	12,8	.6	15,7	.7	27,1	1,3	32,9	1,5	13,4	.6	16,3	,8	27,8	1,5	33,5	1,9
		D	17,7	.2	21,3	.2	35,5	.5	42,6	.6	17,7	.2	21,3	.3	35,5	.6	42,6	.7	17,7	.3	21,3	.4	35,5	.8	42,6	1,1
	B	5	16,2	.3	19,7	.4	33,9	.8	41,0	1,0	16,5	.4	20,0	.4	34,2	.9	41,3	1,1	17,0	.5	20,5	.6	34,7	1,2	41,8	1,5
	Ĩ	10	15,6	.5	19,1	.6	33,3	1,1	40,4	1,4	16,0	.5	19,5	.6	33,7	1,2	40,8	1,5	16,6	.6	20,2	.8	34,4	1,5	41,5	1,9
		16	15,0	.7	18,5	.8	32,7	1,5	39,8	1,8	15,5	.7	19,0	.9	33,2	1,6	40,3	1,9	16,4	.8	19,9	1,0	34,1	1,9	41,2	2,3



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SEIM NAVAL MANUFACTORING PROGRAM





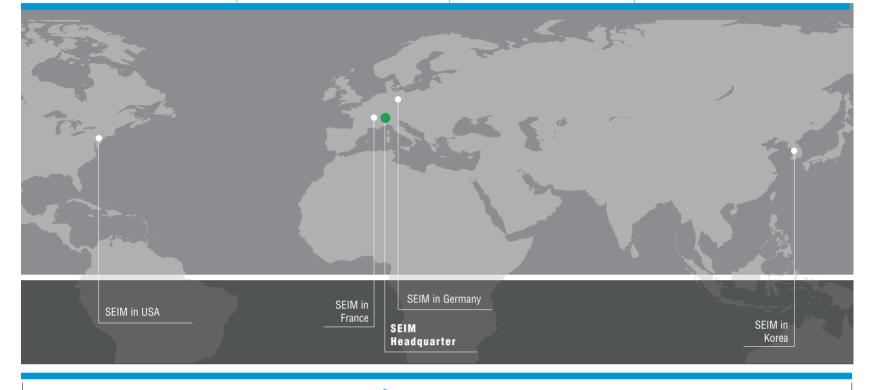








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PC-PB-Eng-1310-rev.00

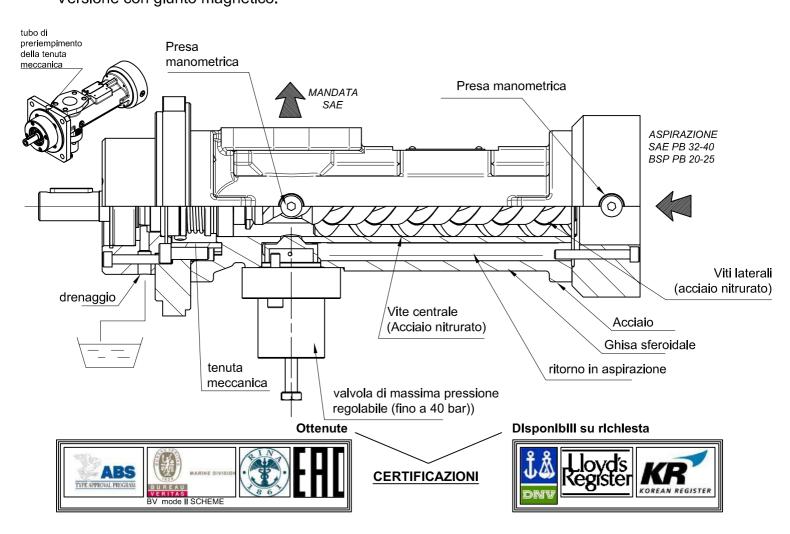
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Pompe a 3 viti tipo PB

Per olii idraulici, olii lubrificanti, HFO, FO, DO, GO, ULSD, LSMGO. Pressione ammissibile in mandata (continua) fino a 40 bar.

Impiego tipico

Pompe per circuiti di lubrificazione e ausiliari di raffreddamento, con valvola incorporata di massima pressione (settaggio regolabile). Circuito di alimentazione (alimentazione carburante e circolazione), travaso e cargo. Versione con giunto magnetico.



Caratteristiche funzionali versioni standard

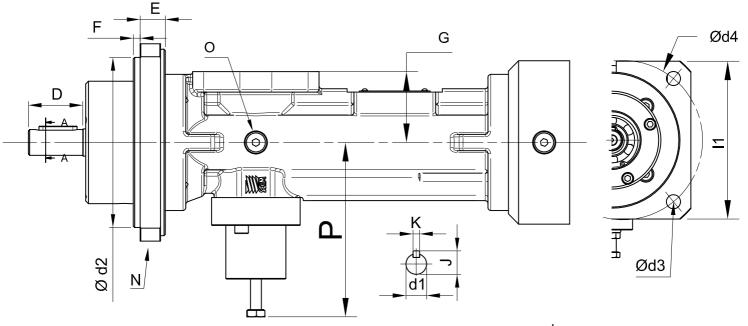
Portata	fino a 200 I/min (fino a 52 USGPM)	
Pressione ammissibile in mandata *	fino a 40 bar (580 psi) da 1000 fino a 3600 g	iri/min
Taratura valvola	fino a 40 bar (580 psi)	
Pressione ammissibile in aspirazione	da -0,7 a 10 bar (da -10 a 145 psi)	Per valori diversi consultare SEIM
Viscosità cinematica	da 1,2 a 400 cSt STD (< 5000 cSt speciale)	Per valori diversi consultare SEIM
Temperatura di impiego	da 0 a 150 °C (32 a 302 °F)	Per valori diversi consultare SEIM
Regime di azionamento	da 1000 a 3600 giri/min	
Livello medio di rumorosità	60 - 75 dB(A) a 3600 giri/min in funzione dell	a dimensione della pompa
Filtro in aspirazione	Vedi appendice - tab. 1	
Livello raccomandato di contaminazione fluido implanto	Vedi Appendice - tab. 2 - ISO 16889 Bx>1000	
Senso di rotazione	orario, guardando la pompa dal lato flangia c	collegamento motore

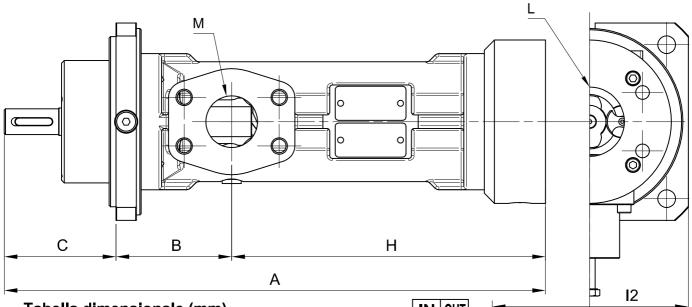
* Limiti di pressione ridotti sono determinati dalla viscosità del fluido e dal regime di azionamento. Per le caratteristiche funzionali relative ai singoli modelli consultare le specifiche tabelle. *Per caratteristiche funzionali diverse da quelle sopra indicate, contattare il nostro ufficio vendite.* PB - IT 06-18 - 01

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l abella dimensionale (mm)											IN	OUT									
MODELLO	Α	в	С	D	E	F	G	Н	11	12	J	Κ	L	М	N	0	Р	d1	d2	d3	d4
													SAE 3000 / BSP	SAE 3000	GAS	GAS		ø	Ø	ø	ø
PB020-25	276	65	67	29	16.5	5	45	144	116	111	16	5	1"вsp	1"	<u>1</u> "	<u>1</u> "	93	14	100	11	125
PB020-25*	324	65	67	29	16.5	5	45	192	116	111	16	5	1"sae	1"	<u>1</u> " 8	<u>1</u> "	93	14	100	11	125
PB032	372	88	82	40	18.5	5	52	211.5	145	145	21.5	6	2"SAE	1 <u>1</u> "	<u>1</u> "	<u>1</u> "	108	19	125	13	160
PB040	398	85	82	40	18.5	5	52	230.5	145	145	21.5	6	2"SAE	1 <u>1</u> "	<u>1</u> "	<u>1</u> " 8	128	19	125	13	160

* Optional SAE Flangia in ingresso

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Pompe a 3 viti tipo PB

Per olii idraulici, olii lubrificanti, HFO, FO, DO, GO, ULSD, LSMGO. Pressione ammissibile in mandata (continua) fino a 40 bar.



Appendice

VISCOSITY	MESH STRAINER
< 5 cSt	60 mesh
< 10 cSt	40 mesh
< 20 cSt	20 mesh
< 200 cSt	Perforation 1/8"
< 500 cSt	Perforation 3/16"
> 500 cSt	Perforation 1/4"

Tabella 1

			1450	rpm			2900	rpm		3600 rpm				
	bar	10	16	25	40	10	16	25	40	10	16	25	40	
PB20	Bx>1000	15 um 25 um										um		
PB 25	Bx>1000		15 um											
PB 32	Bx>1000		15 um											
PB 40	Bx>1000	25 um												

Fluido > 5 cSt

			1450	rpm			2900	rpm		3600 rpm				
	bar	10	16	25	40	10	16	25	40	10	16	25	40	
PB 20	Bx>1000		Contar	e Seim			10	um		10 um				
PB 25	Bx>1000		Contar	e Seim		10 um								
PB 32	Bx>1000		Contar	e Seim		10 um								
PB 40	Bx>1000		Contar	e Seim		15 um								

Fluido < 5 cSt

Tabella 2

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