

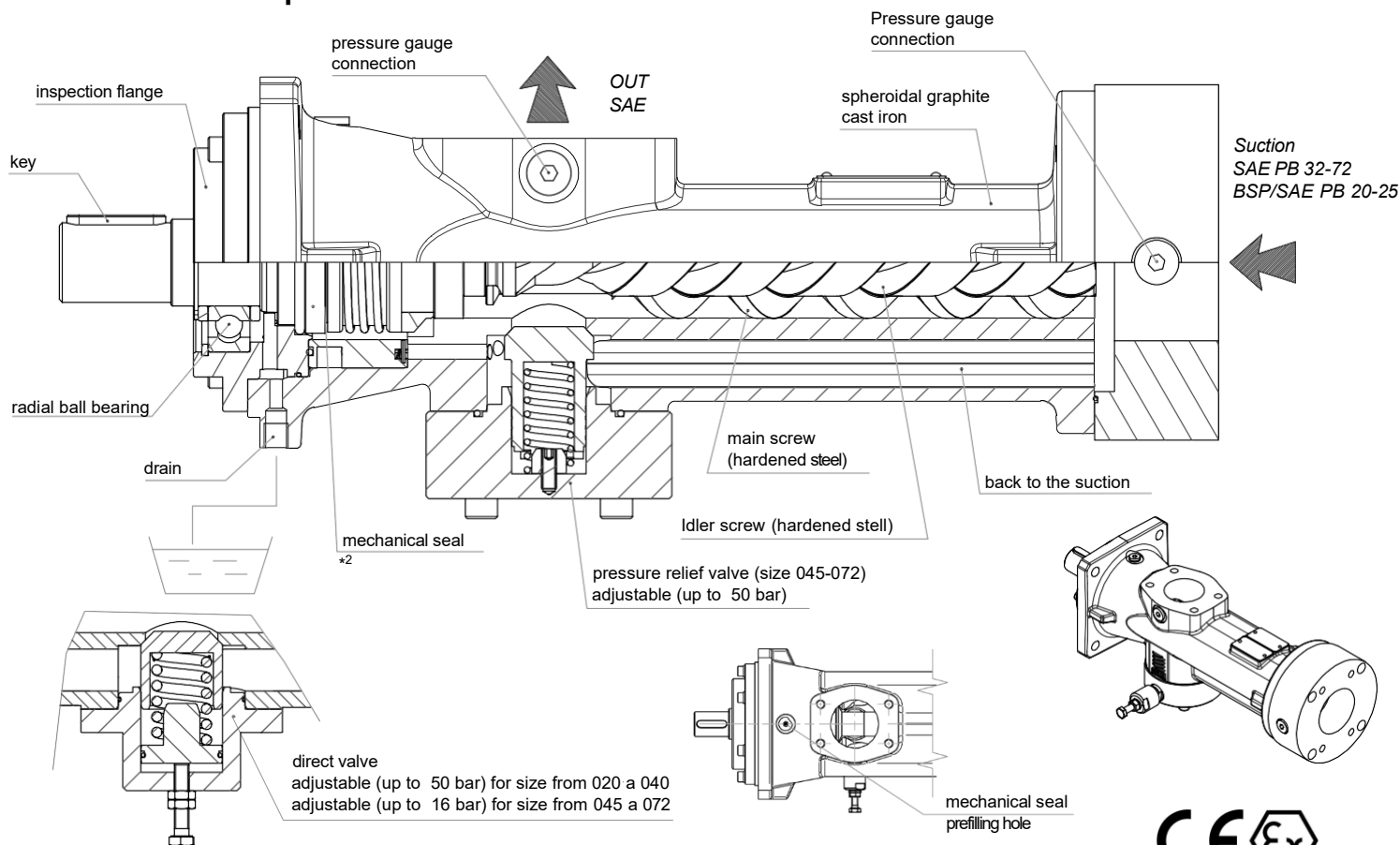
Screw pumps - PB axial series

For hydraulic oils, lubricating oils, aqueous emulsions (oil min 5%), HFO, FO, DO, GO, ULSD, LSMGO, BIOFUEL.

Main field of application

Pumps for lubrication systems and auxiliary cooling, with relief valve.
Fuel supply line (feeder and circulation), transfer and cargo.
Also available with magnetic coupling.

Section and components



Functional characteristics standard version

ATEX - Compliance

Delivery flow	up to 1000 l/min (up to 264 USGPM)
Admissible delivery pressure^{*1 *3}	up to 50 bar (725 psi) from 500 to 3600 rpm
Valve setting^{*1}	up to 50 bar (725 psi)
Admissible suction pressure^{*1 *2}	from -0,7 barg a 10 bar (from -10 a 145 psi) For different values contact SEIM
Kinematics viscosity^{*3}	from 1 a 1500 cSt STD (< 5000 cSt special) For different values contact SEIM
Admissible temperature	from 0 a 150 °C (32 a 302 °F) For different values contact SEIM
Driving speed	from 500 to 3600 rpm
Average noise level	60 - 75 dB(A) a 3600 rpm according to pump dimension
Suction strainer	See appendix - table 1
Recommended fluid cleanliness level in the system	See appendix - table 2 - ISO 16889 Bx>1000 / For emulsions - table 3
Direction of rotation	Clockwise, as seen from the driving side

^{*1} Reduced pressure limits apply due to fluid viscosity and driving speed.

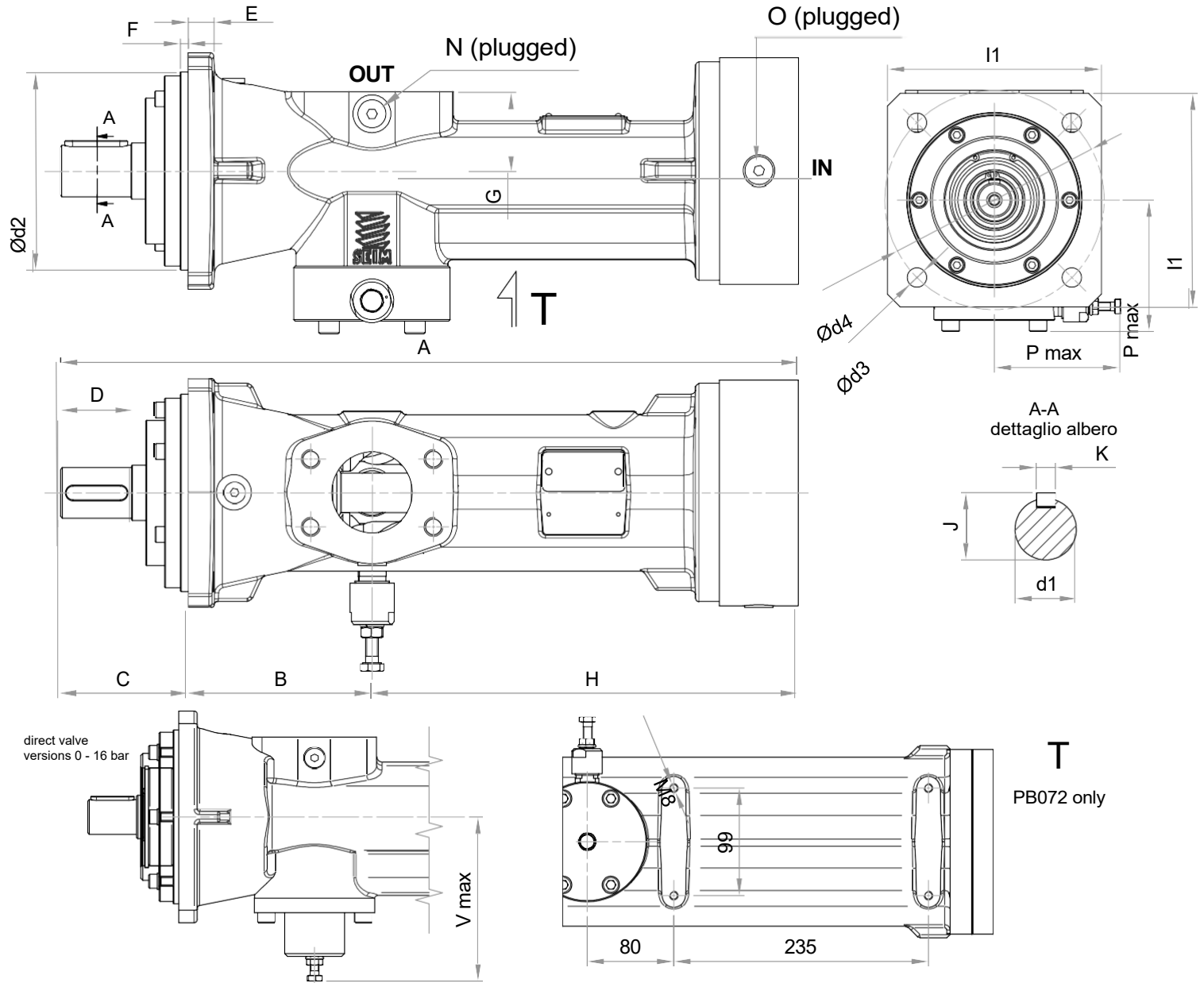
Consult the performance charts for the individual pump size.

^{*2} Also available with lip seal.

In this case admissible suction pressure shall not be greater than 0,5 bar.

^{*3} For aqueous emulsions exceptions apply. See Table 4.

For different functional characteristics, please contact our sales department.



Dimensional charts (mm)

MODEL	A	B	C	D	E	F	G	H	I1	J	K	IN		OUT		P	V	d1 Ø	d2 Ø	d3 Ø	d4 Ø
												L SAE 3000	M SAE 3000	N GAS	O GAS						
PB020-25	276	65	67	29	16	5	45	144	115	16	5	1" BSP	1"	1/8"	1/8"	/	105	14	100	11	125
PB020-25*	324	65	67	29	16	5	45	192	115	16	5	1"	1"	1/8"	1/8"	/	105	14	100	11	125
PB032	372	88	82	40	18.5	5	52	202	145	21.5	6	2"	1 1/2"	1/8"	1/8"	/	118	19	125	13	160
PB040	398	85	82	40	18.5	5	52	231	145	21.5	6	2"	1 1/2"	1/8"	1/8"	/	139	19	125	13	160
PB045	467.5	116.5	81	45	15	5	50	270	145	35	10	2 1/2"	2"	1/4"	1/4"	115	140	32	125	13	160
PB055	511.5	131	82	55	18	5	62.5	298.5	145	35	10	2 1/2"	2"	1/4"	1/4"	115	147	32	125	13	160
PB060	565	125	84	45	17	5	73.5	356	195	35	10	4"	2 1/2"	1/4"	1/4"	125	147	32	160	18	200
PB072	662	155	101	75	17	5	80	406	195	41	10	4"	2 1/2"	1/4"	1/4"	125	150	38	160	18	200

* Optional SAE Suction flange

SEIM reserves the right to introduce dimensional changes or variation to the products of this technical data

Appendix

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"

Table 1

	bar	1450 rpm				2900 rpm				3600 rpm			
		10	16	25	40	10	16	25	40	10	16	25	40
PB20	Bx>1000	15 um								25 um			
PB 25	Bx>1000	15 um											
PB 32	Bx>1000	15 um											
PB 40	Bx>1000	25 um											
PB 45	Bx>1000	25 um											
PB 55	Bx>1000	25 um											
PB 60	Bx>1000	25 um											
PB 72	Bx>1000	25 um											

Fluid > 5 cSt

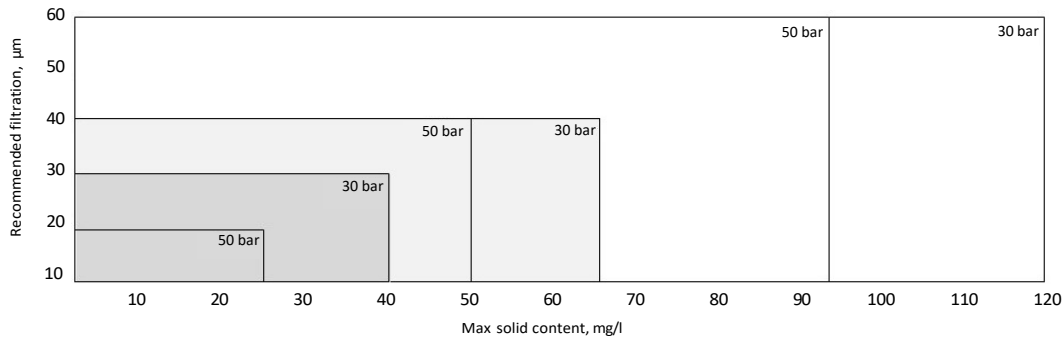
	bar	1450 rpm				2900 rpm				3600 rpm			
		10	16	25	40	10	16	25	40	10	16	25	40
PB 20	Bx>1000	Contatare Seim								10 um			
PB 25	Bx>1000	Contatare Seim								10 um			
PB 32	Bx>1000	Contatare Seim								10 um			
PB 40	Bx>1000	Contatare Seim								15 um			
PB 45	Bx>1000	Contatare Seim								15 um			
PB 55	Bx>1000	Contatare Seim								15 um			
PB 60	Bx>1000	Contatare Seim								15 um			
PB 72	Bx>1000	Contatare Seim								15 um			

Fluid < 5 cSt

Table 2 – Recommended fluid cleanliness level in the system

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Recommended filtration (µm) VS S olid content (mg/l)






-  Very hard material 10000-1000 HV1
-  Hard material 1000 - 500 HV1
-  Soft material < 500 HV1

Table 3 – Recommended fluid cleanliness level in the system of aqueous emulsions

		Emulsion 1 cSt to 5 %			
		rpm	1450	1750	3000
Pressure		bar	bar	bar	bar
Pump size	PB045#4A	50	50	50	50
	PB045#4B	45	50	50	50
	PB055#4A	50	50	50	50
	PB055#4B	50	50	50	50
	PB055#4C	50	50	50	42
	PB060#4A	50	50	50	40
	PB060#4B	50	50	45	36
	PB072#4A	50	50	45	32
	PB072#4B	50	50	40	28
	PB072#4C	50	50	35	25

Table 4 – Functional limits Pressure / rpm for aqueous emulsions

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