

Settima Meccanica

Screw pumps SMT16B



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SMT16B - pump



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Service conditions Settima Meccanica 3-screw screw-pump

SMT16B	screw pump for industrial applications with shaft seal, low pressure
Mounting flanges	flanges ISO 3019/2 according to ICE standard for option AC-direct mounting
Pipe connections	SAE 3000PSI and BSP screw threads
Mounting position	in any order, SMIT complete or suction-sited in oil
drive	to be exempt from axial and radial shaft stresses
rotation	clockwise ,from shaft's view
revolution speed	500 to 3600 rev/min (special mediums, air, high viscosity after consulting)
sizes	20 25 32 40 45 55 60 70 80 90* 110*
Rate of deliveries	8 - 3400 l/min (2750 rev/min 2 pol.)
pressures	p _{cont.} =40 bar, p _{peak} =50 bar, (special mediums, air, high viscosity after consulting)
inlet pressures	min. 0,7 bar absolute, max 3 bar / *GR90+GR110 2pol operation 0.5 - 3 bar inlet pressure
service mediums	HLP oil according to DIN 51524 part 1+2 biodegradable mediums HETG+HEPTG*HEE synthesized fluids and emulsions HFA water-oil-emulsions min. 5% oil contingent HFB water-oil-emulsions 50% oil contingent HFC water glycol, water contingent max. 35 - 55% HFD phosphatally ester Lubrication oils with high viscosity , cavitation or air contingent synthesized fluids MIL-H, Skydrol All these fluids require a close technical examination and could modify the promised technical properties
viscosity	4 - 2000 mm ² /s (attend options S1-S4 + SN)
seals	standard viton option NBR, FPM, EPDM
noise	52 - 68 dba (2750 rev/min hydraulic oil)
body material	standard alu, option anodic oxide, caste iron, carbon steel 18NiCrMo5
screws	C25 steel for the main screw, caste iron for the lateral screws, option nitrided or case hardened shafts
temperature	-20 bis +60 °C ambient temperature -20 bis +180°C medium temperature dependent on the seals material!
filtration	recommmended on NAS1638 class 10 or ISO 4406-19/16 filtration 25>= 75
maintenance	none

Settima GR 32 SMT16B ***L Dimensions



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Ordering options

GR32 size
SMT industrial pump
16B p_{cont.}=40 bar (hyd. oil)
 p_{peak}=50 bar (hyd. oil)
 *** 35L, 45L, 55L; 75L

mounting flange options

AC19 B5 BG80 B5

AC24 B5 BG90 B5

Options of the suction

AX axial 1 1/4" BSP

A1R radial BSP

AL pumpfeet 1 1/4"

Bore pattern flange BG90 motor

SMIT suction filter

body material= ALU

options

OX anodic oxide

G caste iron

A carbon steel body

KA hardened steel body

DBV internal pressure relief

valve not adjustable

RF1 ~ 5 bar

RF2 ~ 10 bar

RF3 ~ 15 bar

screw options

S1 100 - 250 cSt

S2 250 - 500 cSt

S3 500 - 800 cSt

S4 < 800 cSt

HD phosphated shafts

seals material = NBR

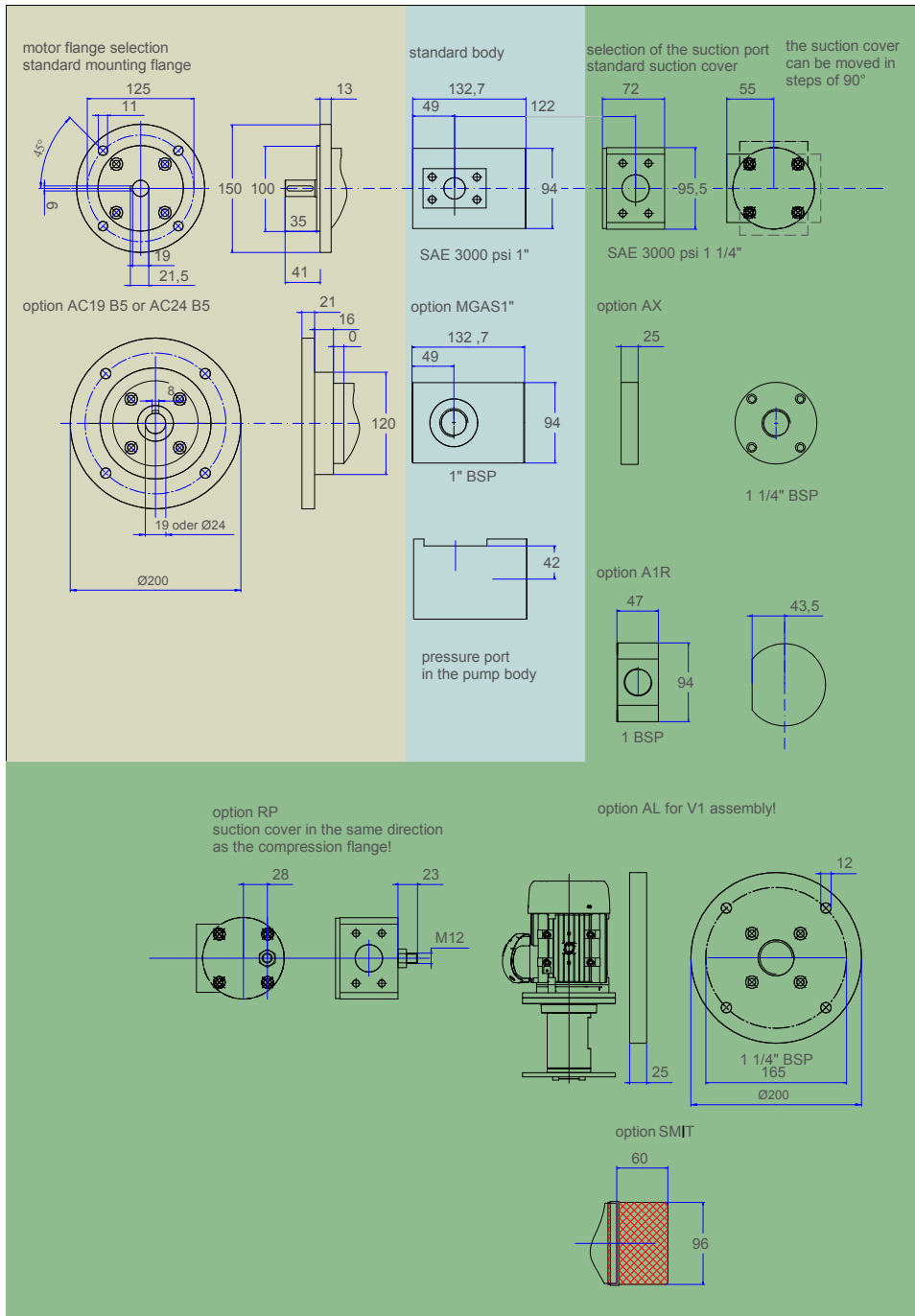
option EPDM, Viton,

mechanical seal

rotation = clockwise

weight alu pump approx 4,4 Kg

weight iron pump approx 8,8 Kg



flow intake power			6 cSt / 2 pol. 2750 rev/min					68 cSt / 2 pol. 2750 rev/min					400 cSt* / 2 pol. 2750 rev/min				
			5	10	20	30	40	5	10	20	30	40	5	10	20	30	40
35L	17 cm³/rev	Q l/min P KW	35,8 0,8	35 0,8	32,6 1,3			40,3 0,7	39 1	38,4 1,6	37,8 2,5	37,2 3,3	41 0,6	40,6 1	40 2	39 3	38,7 3,9
45L	20,7 cm³/rev	Q l/min P KW	45,2 0,8	44 1	40,6 1,6			49,3 0,8	48,8 1,2	48,4 2,2	48 3,2	47,5 4	51,3 0,7	50,8 1,3	50,3 2,5	49,2 3,8	48,8 4,8
55L	22,6 cm³/rev	Q l/min P KW	55,8 0,9	54,6 1,1	50,4 2			59 1	58 1,4	57 2,5	56 3,7	55 4,7	60 0,8	59,4 1,5	58,7 2,9	57,7 4,4	57,3 5,8
75L	30,1 cm³/rev	Q l/min P KW	76 1	74,7 1,6	69 2,8			82 1,2	80,3 1,8	79,6 3,3	78 4,7	75,8 6	82 1,2	81,4 2,1	80,6 4,1	79,2 6	78,5 8
			6 cSt / 4 pol. 1450 rev/min					68 cSt / 4 pol. 1450 rev/min					400 cSt* / 4 pol. 1450 rev/min				
35L	17 cm³/rev	Q l/min P KW	16,3 0,3	15,9 0,4	14 0,7			18,4 0,3	18 0,4	17,4 0,8	16,7 1,2	16 1,4	19,9 0,4	19,7 0,6	19,5 1	19,1 1,5	18,8 2,2
45L	20,7 cm³/rev	Q l/min P KW	20,5 0,3	20 0,5	17,8 0,8			22,8 0,4	22,5 0,5	22 1	21,2 1,4	20,5 1,8	25 0,5	24,8 0,8	24,4 1,3	23,9 1,9	23,4 2,4
55L	22,6 cm³/rev	Q l/min P KW	25,4 0,4	24,8 0,6	22 1			28 0,5	27,6 0,6	26,8 1,2	26 1,8	25 2,2	29,8 0,6	29 1	28,7 1,5	28,2 2,2	27,6 2,8
75L	30,1 cm³/rev	Q l/min P KW	34,5 0,4	34 0,7	31 1,4			39 0,6	38,5 0,8	37 1,6	36 2,3	35 2,9	40,8 0,7	40 1,2	39,4 2	38,8 3	38 3,9

* contact us for high viscosity applications

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Please take a look in the different data sheets for the possible options.

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