

TECHNOLOGY IN MOTION

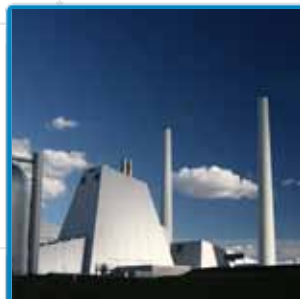


SMT16B Series

Dry & submersible screw pumps
for industrial applications - 40 bar pressure



INDUSTRIAL



POWER GEN



OIL & GAS



Technical characteristics / Caratteristiche tecniche

Types <i>Tipi</i>	Dry (SMT16B) or submerged (SMIT16B) <i>Esterno (SMT16B) o sommerso (SMIT16B)</i>	
Models / <i>Modelli</i>	20 – 25 – 32 – 40 – 45 – 55 – 60 – 70 – 80 – 90S – 110	
Installation <i>Installazione</i>	Free for SMT16B. Submerged (totally or partially) for SMIT16B <i>Qualsiasi per SMT16B. Sommersa (parzialmente o completamente) per SMIT16B</i>	
Flanges / <i>Flange</i>	ISO 3019/2	
Connections / <i>Conessioni</i>	SAE 3000 - BSPP	
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) , (suitable also for counter clockwise rotation) <i>Destra (disponibile anche per rotazione sinistra)</i>	
Shaft speed <i>Velocità di rotazione</i>	From 500 to 3.600 rpm ⁽¹⁾ <i>Da 500 a 3.600 rpm⁽¹⁾</i>	
Flows <i>Portate</i>	From 4 up to 3.200 L/min <i>Da 4 a 3.200 L/min</i>	
Outlet Pressure <i>Pressione di mandata</i>	Up to 40 bar <i>Fino a 40 bar</i>	
Inlet Pressure <i>Pressione in aspirazione</i>	Min. -0.7 bar max. 3 bar ⁽²⁾ <i>Min. -0.7 bar max. 3 bar⁽²⁾</i>	
Fluids ⁽³⁾ <i>Fluidi⁽³⁾</i>	• Mineral oil HLP e HVLP • Ecologic fluids HETG, HEPG, HEE • Synthetic fluid or emulsion: HFA oil-water emulsion, HFB water-oil emulsion 40% of volume, HFC water/glycole – water max 35 to 55%, HFDR phosphate ester • Lubrication high viscosity oils • Special synthetic fluid: MIL-H, SKYDROL, • Fuel oil: MGO, MDO, Low sulfur MDO and HFO • DMX (ISO8217), DMA, DMB, DMC, DMZ • Bunker oil, furnace oil, engines oil, heating oil, hydraulics oils DIN 51524	• Oli minerali HLP e HVLP • Fluidi ecologici HETG, HEPG, HEE • Fluidi sintetici o emulsioni: HFA emulsione olio-acqua, HFB emulsione acqua-olio 40% dl volume, HFC acqua/glicole – acqua max 35 to 55%, HFDR phosphate ester • Olio ad alta viscosità per lubrificazione • Fluidi speciali sintetici: MIL-H, SKYDROL, • Fuel oil: MGO, MDO, Basso livello di zolfo MDO e HFO • DMX (ISO8217), DMA, DMB, DMC, DMZ • Bunker oil, furnace oil, olio per motori, heating oil, olio idraulico DIN 51524
Viscosity <i>Viscosità</i>	From 2 up to 10.000 cSt ⁽⁴⁾ <i>Da 2 fino a 10.000 cSt⁽⁴⁾</i>	
Seals polymer (shaft, O-ring) <i>Polimero guarnizioni (albero, anello di tenuta)</i>	NBR, FKM, EPDM ⁽⁵⁾	
Seal type <i>Tipo di guarnizioni</i>	TM, TMK, TMZ, FGM	
Acoustic Emissions <i>Emissioni Acustiche</i>	From 52 up to 68 db(A) at 2.950 rpm value based on ISO 4412 test procedure <i>Da 52 fino a 68 db(A) a 2.950 rpm (ISO 4412 test)</i>	
Pump body <i>Corpo pompa</i>	Extruded aluminum alloy <i>Alluminio estruso</i>	
Pump body (special applications) <i>Corpo pompa (applicazioni speciali)</i>	Cast iron, carbon steel <i>Ghisa, acciaio</i>	
Screws <i>Viti</i>	Steel for main screw , idler cast iron <i>Acciaio vite principale, ghisa viti secondarie</i>	
Screws (special applications) <i>Viti (applicazioni speciali)</i>	Core hardened steel screws, surface treated screws <i>Viti in acciaio temprato, viti trattate superficialmente</i>	
Environment temperature <i>Temperatura ambiente</i>	From -50° up to +60°C <i>Da -50° a +60°C</i>	
Hydraulic Temperature <i>Temperatura olio</i>	From -50°C up to +300°C <i>Da -50°C a +300°C</i>	
Filtration <i>Filtrazione</i>	Permissible degree of fluid contamination NAS to 1638 class 10 or ISO DIS 4406 – 19/16. Recommended filtration $\beta_{25} \geq 75$. <i>Contaminazione NAS tipo 1638 classe 10 o ISO DIS 4406 – 19/16 . Filtrazione raccomandata $\beta_{25} \geq 75$.</i>	

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(1) For shaft speed lower than 1.000 rpm and over 1.800 rpm please contact Settima. Per velocità inferiori a 1.000 rpm e maggiori di 1.800 rpm contattare Settima.

(2) For higher pressure please contact Settima. Per pressioni maggiori contattare Settima.

(3) For request of different fluids please contact Settima. Per l'utilizzo di diversi fluidi contattare Settima.

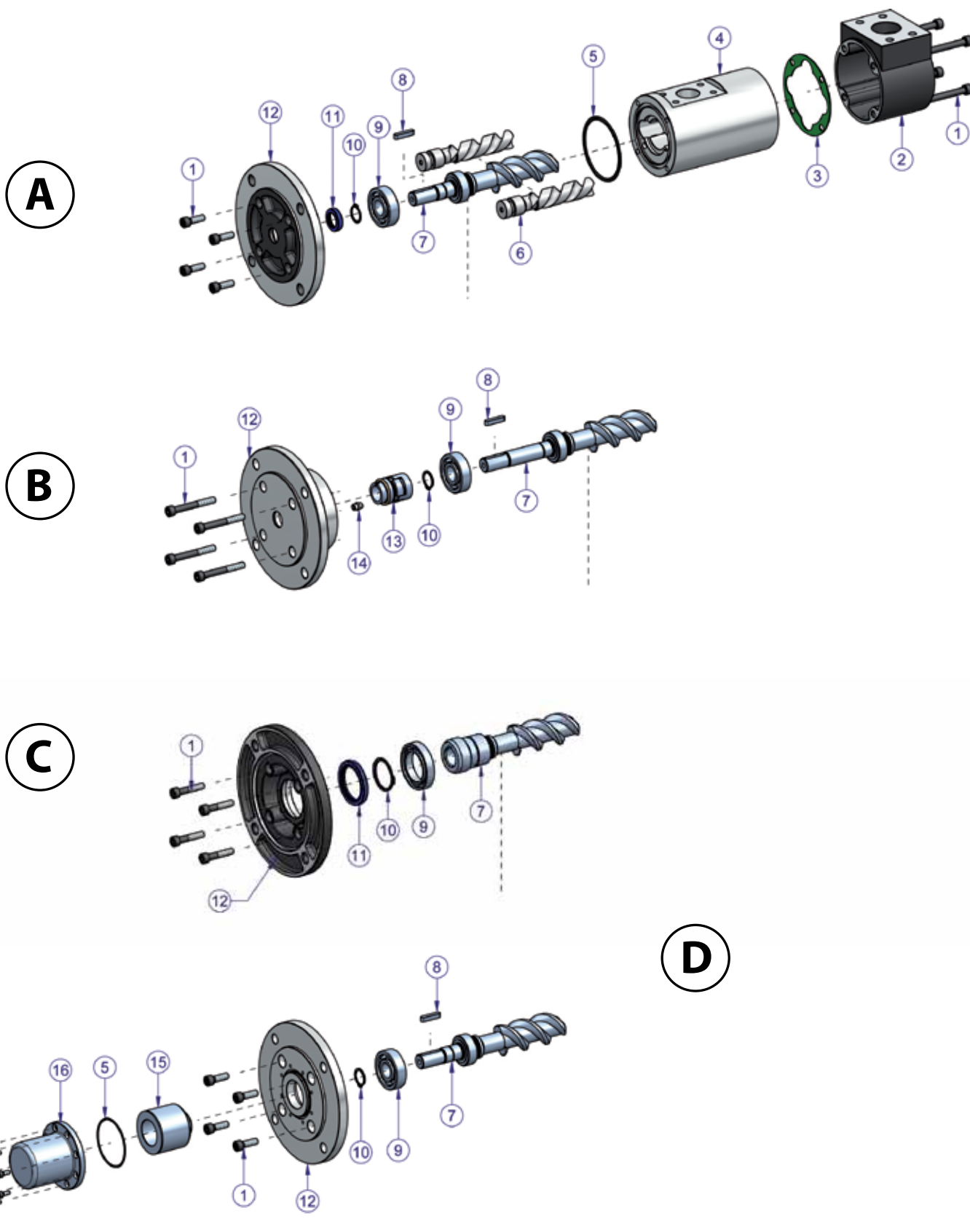
(4) For level of viscosity lower than 20 cSt and over 320 cSt please contact Settima. Per livelli di viscosità inferiori a 20 cSt e superiori a 320 cSt contattare Settima.

(5) For special seals, contact Settima. Per tenute speciali, contattare Settima.

Product description / Descrizione prodotto

DIFFERENT COMBINATIONS OF SMT16B PUMP / *DIFFERENTI COMBINAZIONI DELLA POMPA SMT16B*

Flange configurations view / *Configurazioni flangia*

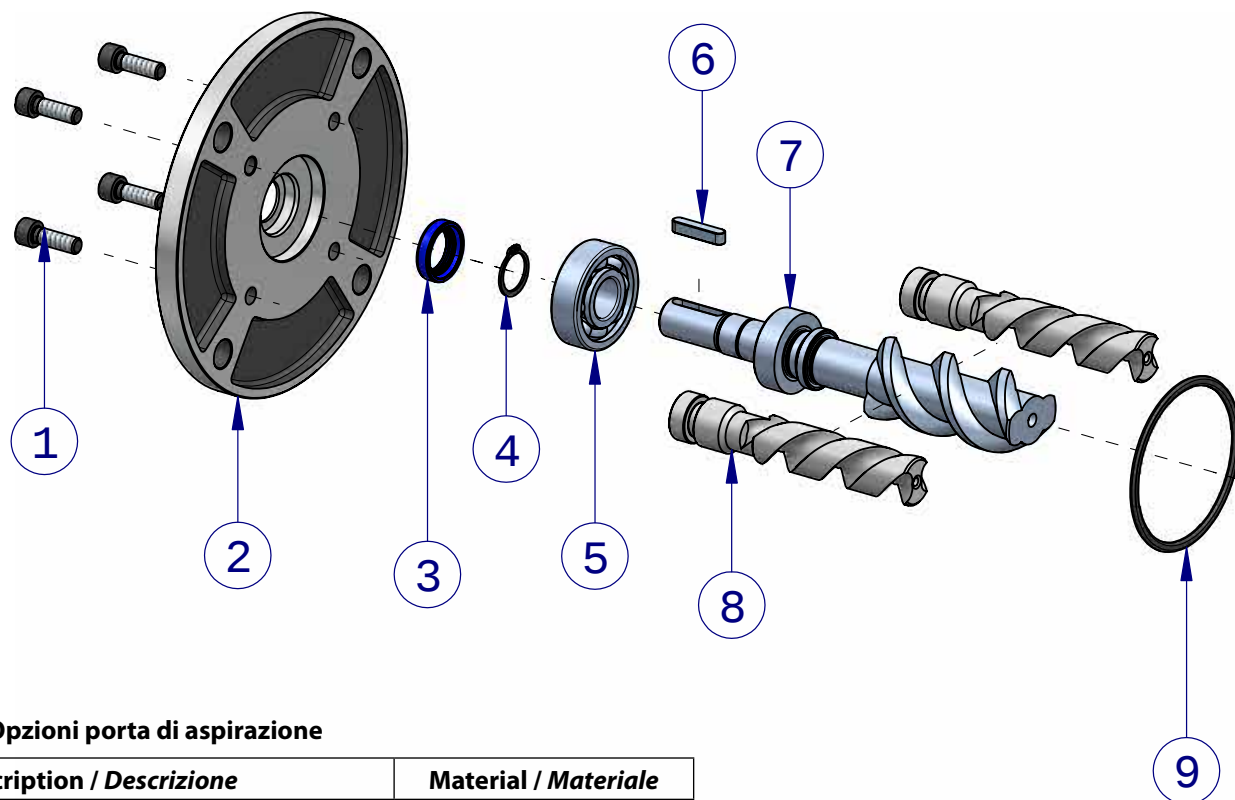


Product description / Descrizione prodotto

Shaft and seal options / Opzioni alberi e tenute

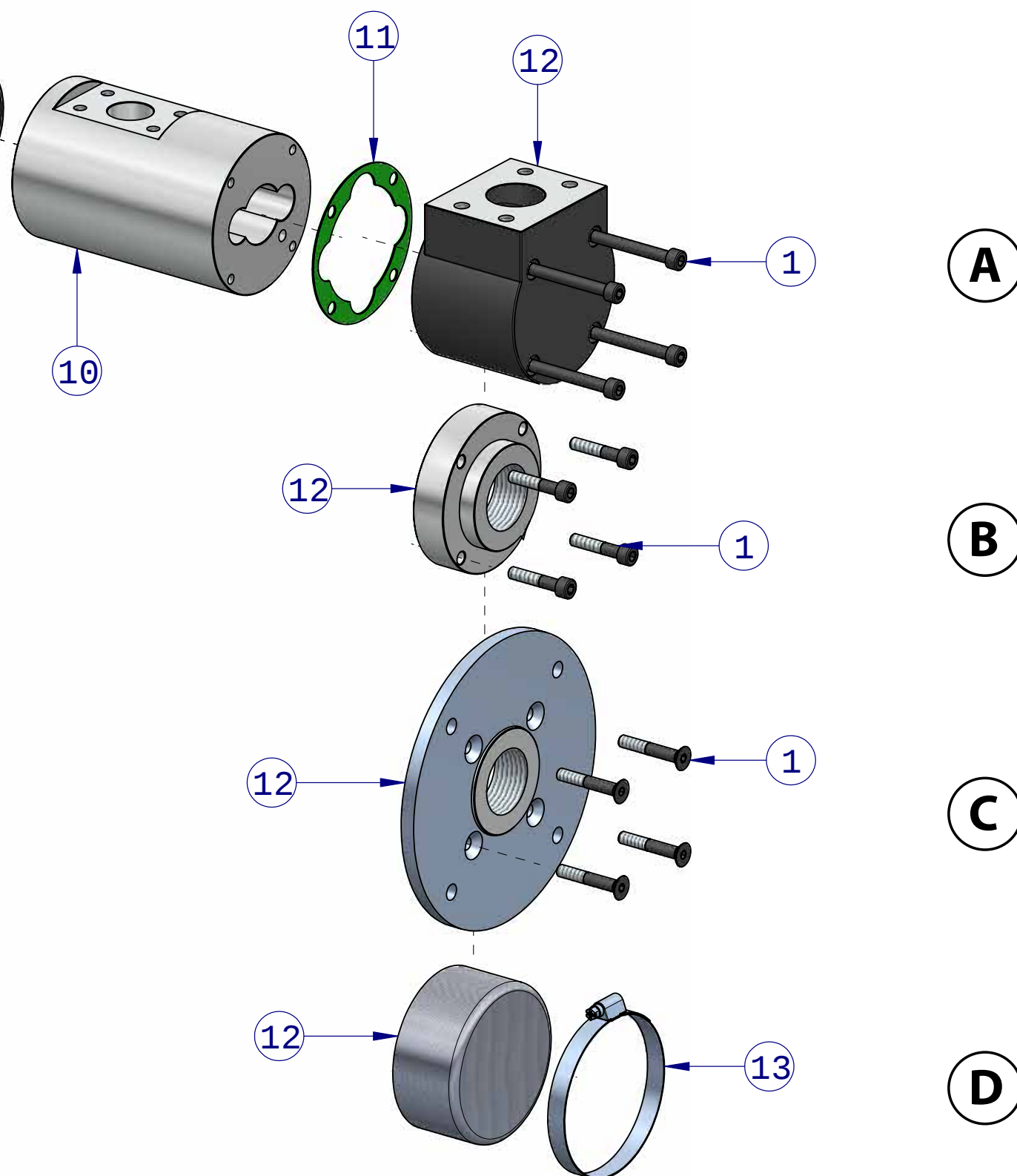
N°	Parts description / Descrizione componenti	Material / Materiale
1	Screw / Vite	Common components
2	Radial suction cover / Tappa radiale	Common components
3	Plane gasket / Guarnizione piana	Common components
4	Pump body / Corpo pompa	Common components
5	O-ring / Anello O-ring	Common components
6	Idler screw / Vite laterale	Common components
A	SMT16B (LIP SEAL) / SMT16B (TENUTA A LABBRO)	
7	Main screw / Vite centrale	Common components
8	Key / Linguetta	Common components
9	Ball bearing / Cuscinetto	Common components
10	Seeger	Common components
11	Seal / Anello di tenuta	Common components
12	Flange / Flangia	Common components
1	Screw / Vite	Common components
B	SMT16B (MECHANICAL SEAL) - TM OPTION / SMT16B (TENUTA MECCANICA) - OPZIONE TM	
7	Main screw / Vite centrale	Common components
8	Key / Linguetta	Common components
9	Ball bearing / Cuscinetto	Common components
10	Seeger	Common components
13	Mechanical seal / Tenuta meccanica	Common components
14	Driving oil bushing / Boccola convoglia olio	Common components
12	Flange / Flangia anteriore	Common components
1	Screw / Vite	Common components
C	SMT16B HOLLOW SHAFT (LIP SEAL) / SMT16B ALBERO CAVO (TENUTA A LABBRO)	
7	Main screw / Vite centrale	Common components
9	Ball bearing / Cuscinetto	Common components
10	Seeger	Common components
11	Seal / Anello di tenuta	Common components
12	Flange / Flangia anteriore	Common components
1	Screw / Vite	Common components
D	SMT16B MAGNETIC COUPLING - FGM OPTION / SMT16B GIUNTO MAGNETICO - OPZIONE FGM	
7	Main Screw / Vite centrale	Common components
8	Key / Linguetta	Common components
9	Ball bearing / Cuscinetto	Common components
10	Seeger	Common components
12	Flange / Flangia anteriore	Common components
1	Screw / Vite	Common components
15	Internal rotor MC / Rotore interno MC	Common components
5	O-ring / Anello O-ring	Common components
16	Containment shroud MC / Cappuccio MC	Common components
1	Screw / Vite	Common components
17	External rotor MC / Rotore esterno MC	Common components

Product description / Descrizione prodotto



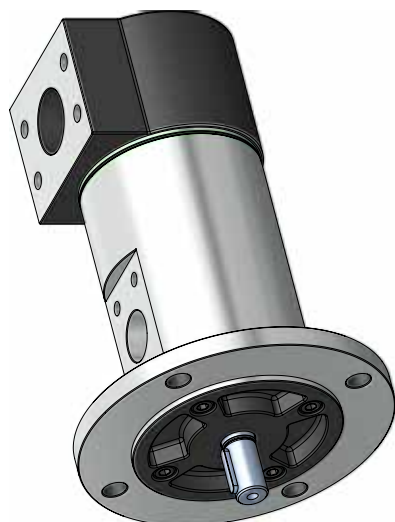
Suction port options / Opzioni porta di aspirazione

N°	Description / Descrizione	Material / Materiale
1	Screw / Vite	Common components
2	Flange / Flangia anteriore	Common components
3	Seal / Anello di tenuta	Common components
4	Seeger	Common components
5	Ball bearing / Cuscinetto	Common components
6	Key / Linguetta	Common components
7	Main screw / Vite centrale	Common components
8	Idler screw / Vite laterale	Common components
9	O-ring / Anello O-ring	Common components
10	Body pump / Corpo pompa	Common components
11	Plane gasket / Guarnizione piana	Common components
A	SMT16B	
12	Radial suction cover / Tappa radiale	Common components
1	Screw / Vite	Common components
B	SMT16B AX (axial BSPP) / SMT16B AX (assiale BSPP)	
1	Screw / Vite	Common components
12	Axial suction cover / Tappa assiale	Common components
C	SMT16B AL (top flange for vertical installation over the tank) SMT16B AL (tappa aspirazione per installazione verticale sopra serbatoio)	
1	Screw / Vite	Common components
12	Tank top flange / Tappa aspirazione sopra serbatoio	Common components
D	SMIT16B (submersible) / SMIT16B (sommersa)	
12	Filter / Filtro	Common components
13	Clamp / Fascetta	Common components



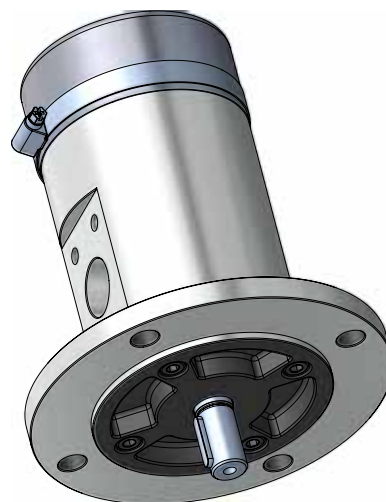
SMT16B pump - Dimensional drawings / Disegni dimensionali

SMT16B

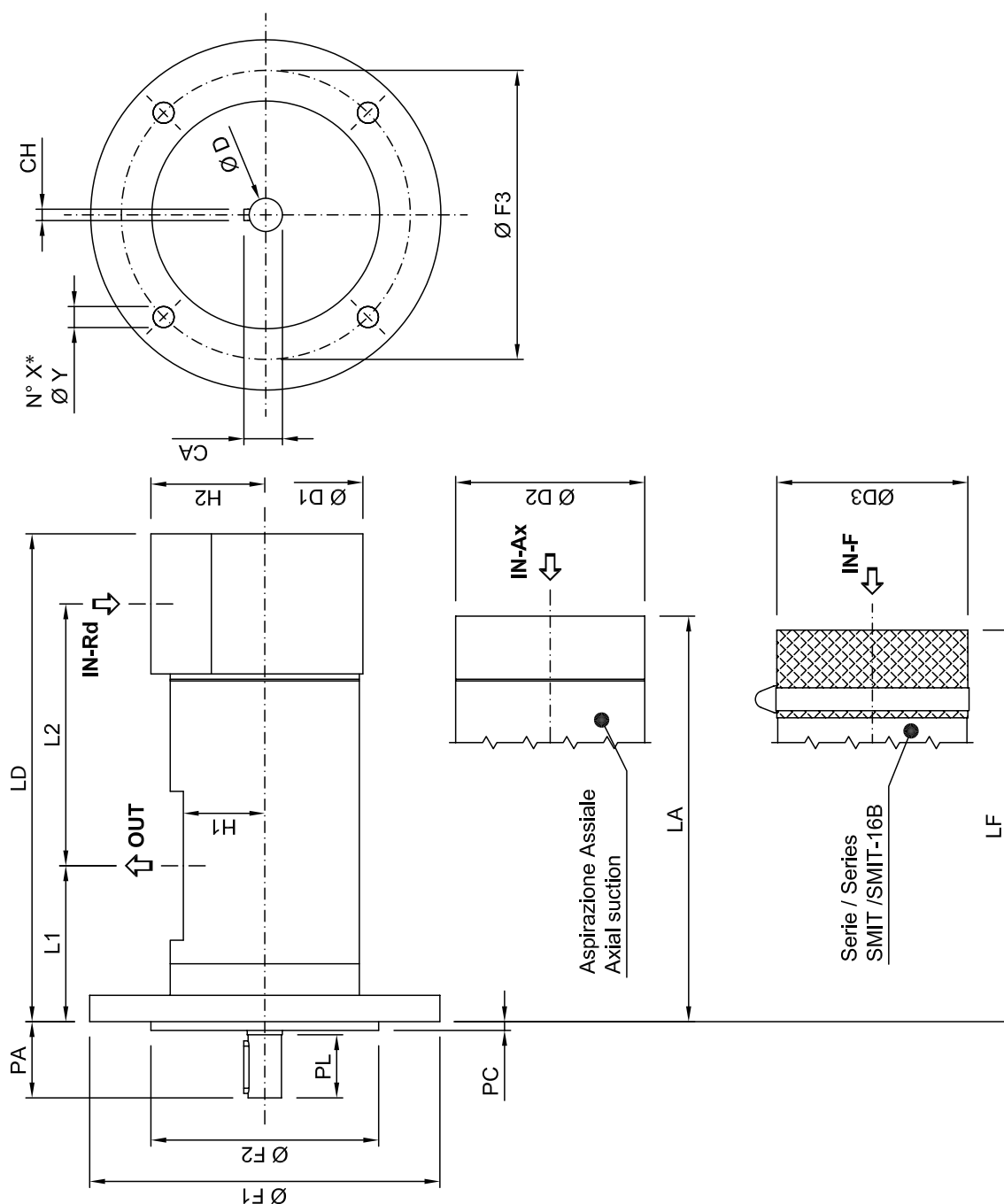


Dry screw pump
Pompa per uso esterno

SMIT16B



Submersible screw pump
Pompa per uso sommerso



* 2 holes for GR20, 4 holes for the other models. / 2 fori per GR20, 4 fori per gli altri modelli.

SMT16B pump - Dimensional drawings / Disegni dimensionali

SMT16B Series / Serie SMT16B													SMT16B Series/ Serie SMIT 16B									
Dry/ Per uso esterno													Submersible / Per uso sommerso									
Type/ Tipo	Flange / Flangia				Shaft/Albero				Suction / Aspirazione			Discharge / Mandata		Pump / Pompa						Pump / Pompa		
	ØF2	ØY	ØF3	ØF1	PL	ØD	CA	CH	IN-Rd	IN-Ax	H2	OUT	H1	PA	ØD2	L1	L2	LD	LA	Kg	ØD3	LF
GR20 SMT16B 8L-12L-15L-20L	80.0	11.0	103.0	125.0	30.0	14.0	16.0	5.0	½" BSPP	½" BSPP	26.0	½" BSPP	25.0	37.0	59.0	53.0	78.5	153.0	134.0	1.5	60.0	133.0
GR25 SMT16B 25L-30L	80.0	11.0	103.0	125.0	36.0	19.0	21.5	6.0	¾" BSPP	¾" BSPP	27.0	½" BSPP	27.5	42.0	65.0	72.5	87.0	178.0	178.0	2.7	66.0	158.5
GR32 SMT16B 35L-45L-55L- 75L	100.0	11.0	125.0	150.0	35.0	19.0	21.5	6.0	1"¼SAE - 3000	1"¼ BSPP	55.0	1" SAE - 3000	41.0	41.0	94.0	61.0	123.0	218.0	171.0	4.4	95.0	162.0
GR40 SMT16B 100L-125L-150L	125.0	14.0	160.0	188.0	36.0	19.0	21.5	6.0	1"½ SAE -3000	1"½ BSPP	65.0	1"¼ SAE -3000	46.5	42.5	108.0	69.0	149.5	257.5	211.5	7	109.0	203.5
GR45 SMT16B 180L-210L	125.0	14.0	160.0	188.0	55.0	32.0	35.0	10.0	2" SAE - 3000	2" BSPP	85.0	1"½ SAE -3000	51.5	64.5	122.5	75.4	190.1	310.5	258.5	11	123.5	240.5
GR55 SMT16B 250L-300L- 330L-380L	160.0	18.0	200.0	235.0	55.0	32.0	35.0	10.0	2"½ SAE -3000	2"½ BSPP	95.0	2" SAE - 3000	55.0	64.5	142.5	83.5	202.5	338.0	274.0	15.5	143.5	284.0
GR60 SMT16B 440L-500L	160.0	18.0	200.0	235.0	55.0	32.0	35.0	10.0	3" SAE -3000	3" BSPP	105.0	2"½ SAE - 3000	63.0	65.5	155.0	83.5	228.5	374.5	292.5	25	154.0	299.5
GR70 SMT16B 600L-660L-800L	200.0	22.0	250.0	300.0	55.0	32.0	35.0	10.0	3"½ SAE -3000	3"½ BSPP	110.0	3" SAE - 3000	73.0	65.5	180.0	94.5	279.0	441.5	365.5	30	179.0	379.5
GR80 SMT16B 1.000L-1.200L	200.0	22.0	250.0	300.0	60.0	38.0	41.0	10.0	4" SAE - 3000	4" BSPP	125.0	3" SAE - 3000	83.0	75.0	210.0	150.0	294.5	519.0	468.0	47.5	204.0	452.0
GR90S SMT16B 1.220L-1.500L- 1.700L-2.000L- 2.200L	200.0	22.0	250.0	300.0	60.0	38.0	41.0	10.0	5" SAE - 3000	5" SAE - 3000	110.0	3" SAE - 3000	85.0	75.0	206.0	144.5	488.0	731.0	635.5	61.5	204.0	620.0
GR110 SMT16B 2.300L-2.500L- 2.800L-3.200L	250.0	26.0	300.0	350.0	110.0	55.0	59.0	16.0	5" SAE - 3000	5" SAE - 3000	140.0	4" SAE - 3000	100.0	118.0	250.0	287.0	489.0	879.0	811.0	120	251.0	716.0

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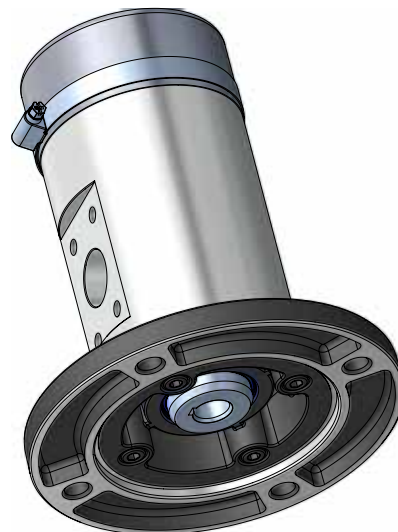
SMT16B AC pump - Dimensional drawings / Disegni dimensionali

SMT16B AC

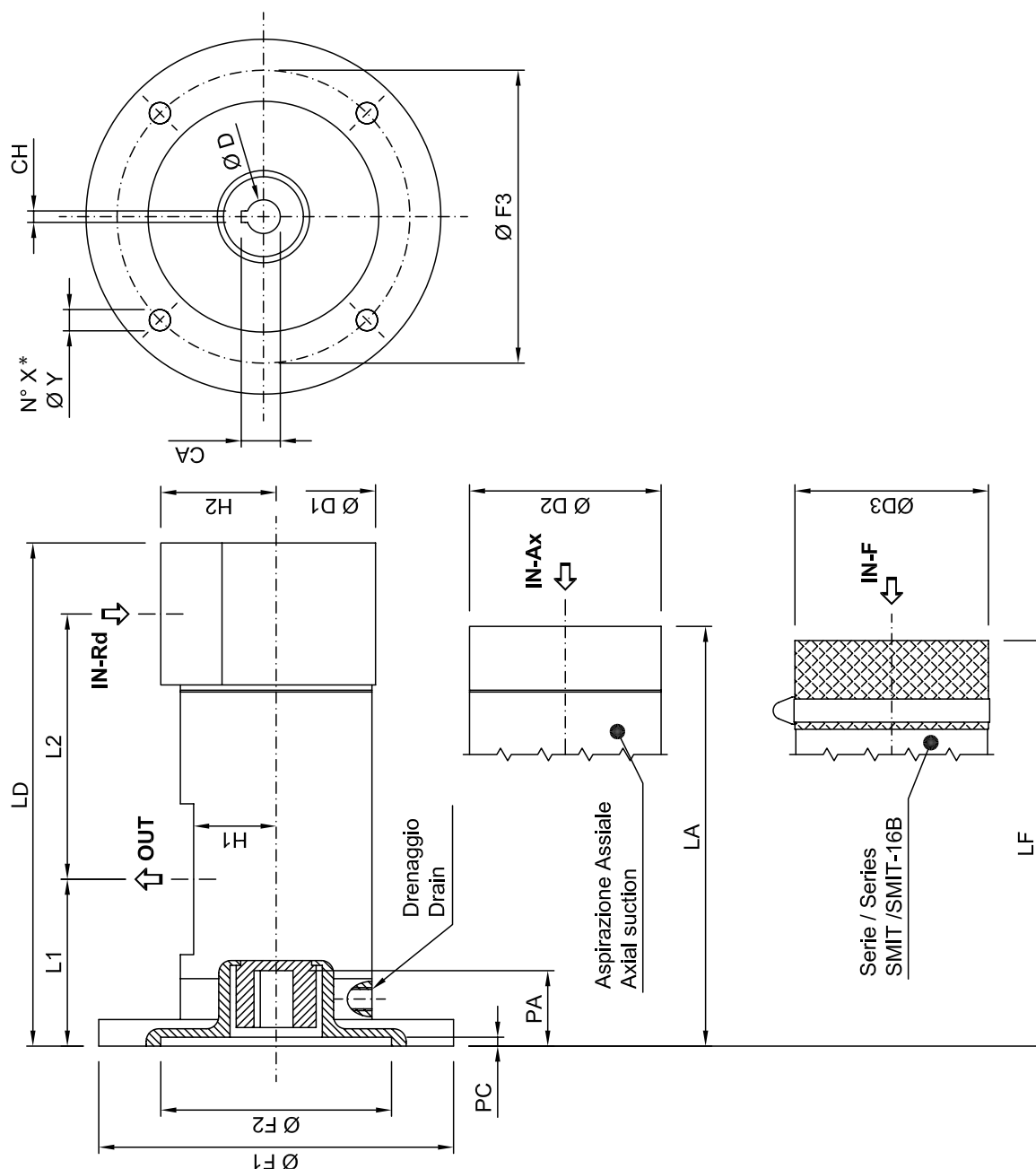


Dry screw pump
Pompa per uso esterno

SMIT16B AC



Submersible screw pump
Pompa per uso sommerso



* 2 holes for GR20, 4 holes for the other models. / 2 fori per GR20, 4 fori per gli altri modelli.

SMT16B AC pump - Dimensional drawings / Disegni dimensionali

SMT16B AC Series/
Serie SMT16B AC
Submersible /
Per uso sommerso

SMT16B AC Series / Serie SMT16B AC

Dry / Per uso esterno

Type/Tipo	Flange/Flangia			Shaft / Albero			Suction / Aspirazione			Discharge / Mandata		Pump / Pompa						Pump / Pompa			
	ØF2	ØY	ØF3	ØF1	ØD	CA	CH	IN-Rd	IN-Ax	H2	OUT	H1	PA	ØD2	L1	L2	LD	LA	Kg	ØD3	LF
GR20 SMT16B AC11 B5 8-12-15-20	95.0	9.0	115.0	140.0	11.0	12.8	4.2	1/2" BSPP	1/2" BSPP	26.0	1/2" BSPP	25.0	25.0	59.0	57.0	78.5	157.0	138.0	1.5	60.0	137.0
GR20 SMT16B AC14 B5 8-12-15-20	110.0	9.5	130.0	160.0	14.0	161.1	5.2	1/2" BSPP	1/2" BSPP	26.0	1/2" BSPP	25.0	33.5	59.0	56.0	78.5	156.0	137.0	1.5	60.0	136.0
GR20 SMT16B AC19 B5 8-12-15-20	130.0	11.0	165.0	200.0	19.0	21.7	6.5	1/2" BSPP	1/2" BSPP	26.0	1/2" BSPP	25.0	42.0	59.0	75.0	78.5	175.0	156.0	1.5	60.0	155.0
GR25 SMT16B AC14 B5 25-30	110.0	9.5	130.0	160.0	14.0	16.2	5.2	3/4" BSPP	3/4" BSPP	27.0	1/2" BSPP	27.5	32.5	65.0	73.5	87.0	179.0	179.0	2.7	66.0	159.5
GR25 SMT16B AC19 B5 25-30	130.0	10.5	165.0	200.0	19.0	21.9	6.5	3/4" BSPP	3/4" BSPP	27.0	1/2" BSPP	27.5	42.5	65.0	76.5	87.0	182.0	182.0	2.7	66.0	162.5
GR32 SMT16B AC19 B5 35-45-55-75	130.0	12.0	165.0	200.0	19.0	21.9	6.5	1" 1/4 SAE - 3000	1" 1/4 BSPP	55.0	1" SAE - 3000	41.0	43.7	94.0	84.7	123.0	241.7	194.7	4.4	95.0	185.7
GR32 SMT16B AC24 B5 35-45-55-75	130.0	12.0	165.0	200.0	24.0	27.3	8.5	1" 1/4 SAE - 3000	1" 1/4 BSPP	55.0	1" SAE - 3000	41.0	52.7	94.0	84.7	123.0	241.7	194.7	4.4	95.0	185.7
GR40 SMT16B AC19 B5 100-125-150	130.0	12.0	165.0	200.0	19.0	22.0	6.5	1" 1/2 SAE - 3000	1" 1/2 BSPP	65.0	1" 1/4 SAE - 3000	46.5	42.5	108.0	94.0	149.5	282.5	236.5	7	109.0	228.5
GR40 SMT16B AC24 B5 100-125-150	130.0	12.0	165.0	200.0	24.0	27.5	8.5	1" 1/2 SAE - 3000	1" 1/2 BSPP	65.0	1" 1/4 SAE - 3000	46.5	52.5	108.0	94.0	149.5	282.5	236.5	7	109.0	228.5
GR40 SMT16B AC28 B5 100-125-150	180.0	14.0	215.0	250.0	28.0	31.5	8.5	1" 1/2 SAE - 3000	1" 1/2 BSPP	65.0	1" 1/4 SAE - 3000	46.5	64.0	108.0	104.5	149.5	293.0	247.0	7	109.0	239.0
GR45 SMT16B AC28 B5 180-210	180.0	14.0	215.0	250.0	28.0	31.5	8.5	2" SAE - 3000	2" BSPP	85.0	1" 1/2 SAE - 3000	51.5	63.5	122.5	106.4	190.1	341.5	289.5	7	123.5	271.5
GR45 SMT16B AC38 B5 180-210	230.0	15.0	265.0	300.0	38.0	42.0	10.5	2" SAE - 3000	2" BSPP	85.0	1" 1/2 SAE - 3000	51.5	81.0	122.5	119.9	190.1	355.0	303.0	7	123.5	285.0
GR55 SMT16B AC28 B5 250-300-330-380	180.0	14.0	215.0	250.0	28.0	31.5	8.5	2" 1/2 SAE - 3000	2" 1/2 BSPP	95.0	2" SAE - 3000	55.0	62.5	142.5	108.5	202.5	363.0	299.0	15.5	143.5	309.0
GR55 SMT16B AC38 B5 250-300-330-380	230.0	15.0	265.0	300.0	38.0	42.0	10.5	2" 1/2 SAE - 3000	2" 1/2 BSPP	95.0	2" SAE - 3000	55.0	82.5	142.5	128.5	202.5	383.0	319.0	15.5	143.5	329.0
GR60 SMT16B AC28 B5 440-500	180.0	14.0	215.0	250.0	28.0	31.5	8.5	3" SAE -3000	3" BSPP	105.0	2" 1/2 SAE - 3000	63.0	65.0	155.0	108.5	228.5	399.5	317.5	25	154.0	324.5
GR60 SMT16B AC38 B5 440-500	230.0	14.5	265.0	300.0	38.0	41.8	10.5	3" SAE -3000	3" BSPP	105.0	2" 1/2 SAE - 3000	63.0	83.0	155.0	128.5	228.5	419.5	337.5	25	154.0	344.5
GR70 SMT16B AC28 B5 600-660-800	180.0	14.0	215.0	250.0	28.0	31.5	8.5	3" 1/2 SAE - 3000	3" 1/2 BSPP	110.0	3" SAE - 3000	73.0	63.1	180.0	118.3	279.0	465.3	389.3	30	179.0	403.3
GR70 SMT AC38 B5 600-660-800	230.0	14.5	265.0	300.0	38.0	41.8	10.5	3" 1/2 SAE - 3000	3" 1/2 BSPP	110.0	3" SAE - 3000	73.0	87.3	180.0	139.5	279.0	486.5	410.5	30	179.0	424.5

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Suction and drain configuration / Configurazioni aspiraz. e drenaggio

Suction and drain hole configuration available as per table below (orientations relative to pressure port).

Configurazioni di porte di aspirazione, mandata e drenaggio. Vedi tabella sotto.

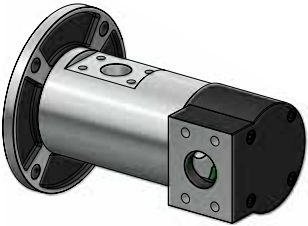
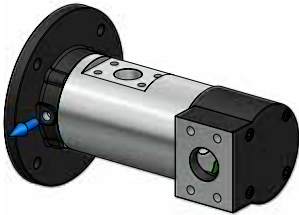
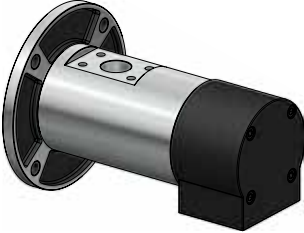
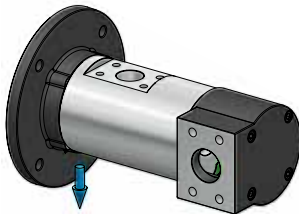
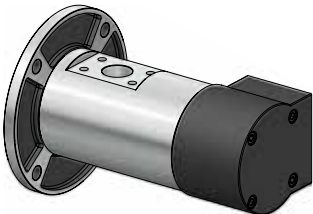
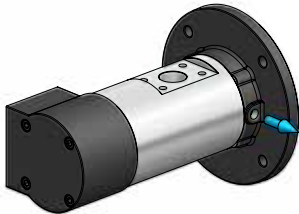
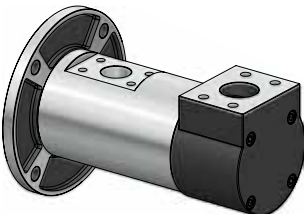
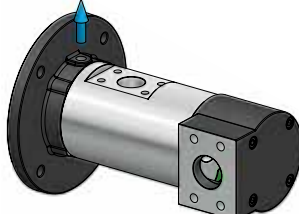
Standard configuration / Configurazioni standard

Standard configuration: T1 – D2

Configurazione standard: T1 – D2

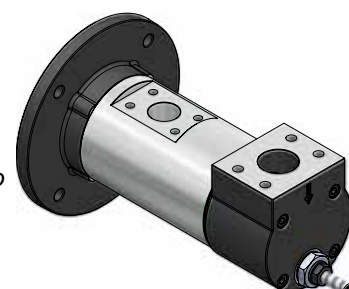
Standard configuration for pumps WITH RP VALVE: T4 – D2

Configurazione standard per pompa CON VALVOLA RP: T4 – D2

SUCTION CONFIGURATION CODES CODICI CONFIGURAZIONE ASPIRAZIONE	DRAIN CONFIGURATION CODES CODICI CONFIGURAZIONE DRENAGGIO
 T1	 D1
 T2	 D2
 T3	 D3
 T4	 D4

Settima recommends that in case of request of pump with RP valve (external variable regulation valve), it is necessary to choose very carefully the suction and drain configuration. Once the external valve is built on the pump it will be not possible any change of both configurations.

Settima raccomanda di scegliere attentamente la configurazione delle porte nel caso di pompa con valvola RP (valvola regolazione variabile esterna). La valvola RP impedisce di modificare l'orientamento delle porte una volta installata sulla pompa.



Motor pump selection / Selezione motore

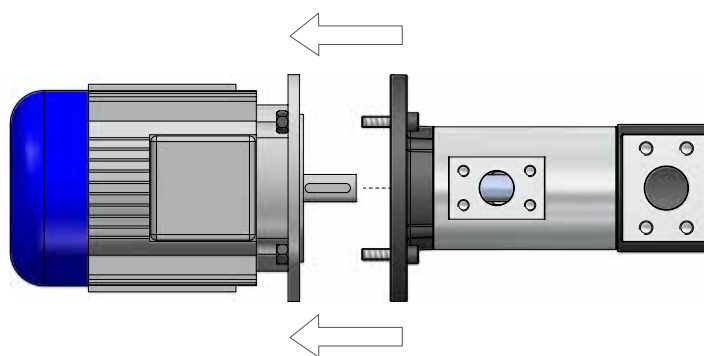
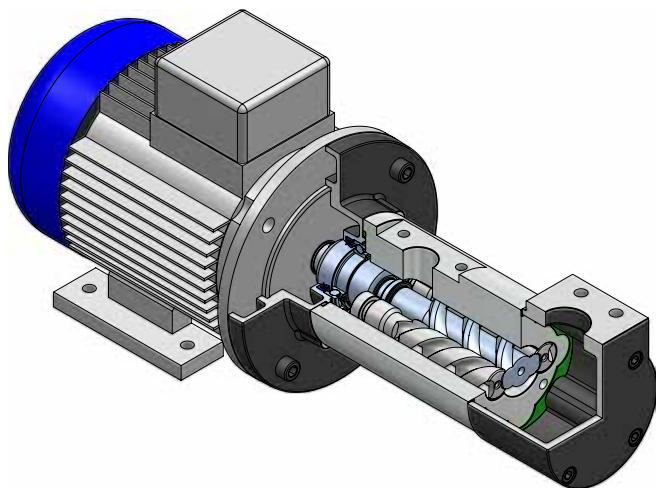
Please check the table below to select the right motor.

Controllare la tabella per selezionare il motore adatto.

Size	Motor form/ Forma motore	56 AC9	63 AC11	71 AC14	80 AC19	90 AC24	100 AC28	112 AC28	132 AC38
GR 20	B14	✓	✓	✓	✓				
	B5		✓	✓	✓				
GR 25	B14			✓	✓				
	B5			✓	✓				
GR 32	B14				✓	✓			
	B5				✓	✓			
GR40	B14				✓	✓	✓	✓	
	B5				✓	✓	✓	✓	
GR45	B5				✓	✓	✓	✓	✓
GR55	B5						✓	✓	✓
GR60	B5						✓	✓	✓
GR70	B5						✓	✓	✓

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GR80, GR90, GR110 are not available with hollow shaft. GR80, GR90, GR110 non sono disponibili con albero cavo.



IEC standard motor

Ordering code table / Tabella codici di ordinazione

Pump type Tipo	Pump model Modello	Nominal flow Portata nominale ⁽¹⁾	High viscosity flag Alta viscosità	Shaft type Tipo albero	Hollow shaft flange Flangia albero cavo	Pump body Corpo pompa ⁽⁴⁾	Seals polymer (shaft, O-ring) Polimero guarnizioni (albero, anello di tenuta)	Screw treatment Trattamento viti	Seal type Tipo di tenuta	Suction configuration code Codice portata aspirazione	Drain configuration codes (hollow shaft only) Drenaggio (solo AC)	Pressure relief valve Valvola di sicurezza	Suction flange Flangia d'aspirazione	Rotation Rotazione	Bearing type Tipo cuscinetto
GR20	SMT16B dry esterna SMIT16B submersible sommersa	8L, 12L, 15L, 20L	Standard up to/ fino a 100 cSt (none)	Standard normal shaft & flange type albero maschio e flangia (none)	B5 B14 (hollow shaft only) (solo AC)	Standard aluminium (none)	Standard NBR (none)	Standard steel main screw cast iron idler screws vite centrale in acciaio viti laterali in ghisa (none)	Standard TM ⁽⁵⁾ mechanical seal for oil	Standard T1 (none)	Standard D2 (none)	Standard No pressure relief valve Nessuna valvola di sicurezza (none)	Standard radial flange (none)	Standard Clockwise destra (none)	Standard (none)
GR25		25L, 30L													
GR32		35L, 45L, 55L, 75L													
GR40		100L, 125L, 150L													
GR45		180L, 210L	Optional S1 ⁽²⁾ from/da 100 cSt to/a 250 cSt	Optional hollow shaft type ⁽³⁾ Albero cavo ⁽³⁾	Optional B5 B14 (hollow shaft only) (solo AC)	Optional aluminium (none)	Optional V ⁽⁶⁾ FKM ⁽⁶⁾ E EPDM	Optional HA ⁽⁵⁾ core hardened steel screws (available only with mechanical seal)	Optional TM ⁽⁵⁾ mechanical seal for oil	Optional T2	Optional D1	Optional RF1 ⁽⁷⁾ 5 bar security sicurezza 5 bar	Optional AXS axial SAE assiale SAE	Optional SX counter clockwise sinistra	Optional CS encapsulated ball bearing
GR55		250L, 300L, 330L, 380L													
GR60		440L, 500L	Optional S2 ⁽²⁾ from/da 250 cSt to/a 500 cSt	Optional hollow shaft type ⁽³⁾ Albero cavo ⁽³⁾	Optional B5 B14 (hollow shaft only) (solo AC)	Optional G cast iron ghisa	Optional V ⁽⁶⁾ FKM ⁽⁶⁾ E EPDM	Optional HA ⁽⁵⁾ core hardened steel screws (available only with mechanical seal)	Optional TM ⁽⁵⁾ mechanical seal for oil	Optional T3	Optional D3	Optional RF2 ⁽⁷⁾ 10 bar security sicurezza 10 bar	Optional AX axial BSPP assiale BSPP	Optional SX counter clockwise sinistra	Optional CS encapsulated ball bearing
GR70		600L, 660L, 800L													
GR80		1.000L, 1.200L	Optional S3 ⁽²⁾ from/da 500 cSt to/a 800 cSt	Optional hollow shaft type ⁽³⁾ Albero cavo ⁽³⁾	Optional B5 B14 (hollow shaft only) (solo AC)	Optional A carbon steel acciaio	Optional V ⁽⁶⁾ FKM ⁽⁶⁾ E EPDM	Optional HA ⁽⁵⁾ core hardened steel screws (available only with mechanical seal)	Optional TM ⁽⁵⁾ mechanical seal for oil	Optional T4	Optional D4	Optional RF3 ⁽⁷⁾ 15 bar security sicurezza 15 bar	Optional AL tank-top flange tappa d'aspirazione sopra serbatoio	Optional SX counter clockwise sinistra	Optional CS encapsulated ball bearing
GR90S		1.220L, 1.500L, 1.700L, 2.000L, 2.200L													
GR110		2.300L, 2.500L, 2.800L, 3.200L	Optional S4 ⁽²⁾ over/oltre 800 cSt	Optional hollow shaft type ⁽³⁾ Albero cavo ⁽³⁾	Optional B5 B14 (hollow shaft only) (solo AC)	Optional A carbon steel acciaio	Optional V ⁽⁶⁾ FKM ⁽⁶⁾ E EPDM	Optional HA ⁽⁵⁾ core hardened steel screws (available only with mechanical seal)	Optional TM ⁽⁵⁾ mechanical seal for oil	Optional T4	Optional D4	Optional RF3 ⁽⁷⁾ 15 bar security sicurezza 15 bar	Optional AL tank-top flange tappa d'aspirazione sopra serbatoio	Optional SX counter clockwise sinistra	Optional CS encapsulated ball bearing

⁽¹⁾ At 3.000 RPM. A 3.000 RPM

⁽²⁾ This option may reduce the efficiency of the pump. Questa opzione potrebbe ridurre l'efficienza della pompa.

⁽³⁾ To request the right hollow shaft, please, check chapter "Motor pump selection" at page 14. Per richiedere il giusto tipo di albero cavo, si prega di vedere il capitolo "Selezione motore" a pagina 14.

⁽⁴⁾ Please contact Settima for different materials and treatments. Contattare Settima per differenti materiali e trattamenti.

⁽⁵⁾ Options HA and TM are not available for version AC (hollow shaft) and are not possible with aluminium body. Le opzioni HA e TM non sono disponibili per i modelli AC (albero cavo) né con corpo in alluminio.

⁽⁶⁾ Option HD is only available with A carbon steel or G cast iron body. L'opzione HD è disponibile solo con corpo in acciaio A o ghisa G.

⁽⁷⁾ RP valve not available with options AX and AL. La valvola RP non è disponibile per le opzioni AX e AL.

Ordering code table / Tabella codici di ordinazione

Samples application summary / Esempi possibili per applicazioni

Low pressure ⁽¹⁾ fluid applications <i>Applicazioni fluidi a bassa pressione ⁽¹⁾</i>	High viscosity configuration <i>Configurazione per elevate viscosità</i>	Body material <i>Materiale corpo</i>	Screw material <i>Materiale viti</i>	Seals <i>Tenute</i>	Bearing type <i>Tipo cuscinetto</i>
Diesel fuel, marine distillate fuel, marine residual fuel, low viscosity fuel oil <i>Diesel, distillati marini, residui, fuel oil a bassa viscosità</i>	-	G	HA	TMZ	*
Heavy fuel oil transfer <i>Trasferimento di olio combustibile</i>	S	G	HD	TMZ	*
Lube services high viscosity <i>Lubrificazione ad alta viscosità</i>	S	*	*	*/TM	*
Water glycolic emulsion (low % of water ⁽¹⁾) <i>Emulsioni acqua-glicole (bassa % di acqua ⁽¹⁾)</i>	-	G	HA	TMK	CS

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⁽¹⁾ Contact Settima for high pressure applications. *Contattare Settima per applicazioni ad alta pressione.*

*Standard configuration and material. *Configurazione e materiali standard.*

Example of codes normal shaft / Esempi di codici albero maschio:

GR60 SMT16B 440L G HD V 

Example of codes for hollow shaft models / Esempi di codici per modelli ad albero cavo:

GR 40 SMT16B 125L AC24 B14 

Application form

For requests for quotation and if not using the ordering code table (pag. 15), please use this application form. / Nel caso di richiesta di offerta si prega di inviare l'applicazione form a Settima.

Customer:						
Project number or name:						
SECTOR (select the right one):			APPLICATION (select the right one):			
Industrial			Lubrication		Boosting	
Marine			Fuel transfer		Other:	
Oil & Gas			Filtration			
Other:			Cooling			
PUMP TYPE (select the right one):						
SMT16B		FOTP		SMAPI (API 676 compliant)		
SMT		Continuum		Other:		
SFO		2VHL				
INSTALLATION						
Horizontal/vertical:						
Above liquid level:		[m]				
FLUID DATA						
Type / name of fluid:						
Fluid neatness (filtration, contamination)		micron		NAS		
Temperature (min,normal,max):		[°C]		[°C]		[°C]
Viscosity (max,normal,min):		[cSt]		[cSt]		[cSt]
APPLICATION DATA						
Flow (min, design):		[l/min]				[l/min]
Discharge pressure (normal, design):		[bar]				[bar]
Suction pressure (normal, design):		[bar]				[bar]
ELECTRICAL MOTOR						
To be supplied by Settima (yes, no):						
Driving coupling (select the right one):		[Elastic standard]		[Steel Laminae + 5" Spacer compliant API676]		
Other coupling requirements :						
Rated speed:		[rpm]				
Power:		[kW]				
Frequency:		[Hz]				
Other motor requirement (ATEX, ...):						
Other motor requirement (painting, ...):						
PUMP OPTIONS						
Rotation direction (select the right one)		[CW standard]		[CCW]		
Safety relief valve:						
Mechanical seal requirements:						
Screw set material requirements:						
Pump body material requirements:						
Pump certifications required:						
Pump test required:						
External pump case painting required:						
Other pump parts painting required (i.e. foot, ..):						