

SH11C



POMPE / MOTORI A CILINDRATA FISSA

FIXED DISPLACEMENT PUMPS / MOTORS

COD. 10-0015-A26

Dimensione / Size				055	063	075	090	108	125	160	180
Cilindrata Displacement		Vg	cm³/rev [in³/rev]	56.35 [3.437]	63.26 [3.859]	77.82 [4.747]	86.23 [5.26]	108 4 [6 612]	124.8 [7.613]	163 9 [9 998]	178 1 [10 864]
Pressione max. Max. pressure	cont.	p _{nom}	bar [psi]	430 [6235]	430 [6235]	430 [6235]	430 [6235]	430 [6235]	430 [6235]	430 [6235]	430 [6235]
	<i>picco</i> peak	p _{max}	bar [psi]	480 [6960]	480 [6960]	480 [6960]	480 [6960]	480 [6960]	480 [6960]	480 [6960]	480 [6960]
<i>Velocità max.</i> Max. speed	Motore (cont.) Motor (cont.)	n _{0 max}	rpm	5000	5000	4500	4500	4000	4000	3600	3600
	Pompa Pump	n _{1 max cont.}	rpm	2000		1800	1800	1600	1550	1400	
		n _{1 max int.} (1)	rpm	3750		3350	3350				
Portata max. Max. flow	Motore Motor	q _{max}	l/min [U.S. gpm]	282 [74.45]	316 [83.42]	350 [92.4]	388 [102.5]	433 [114.31]	500 [132]	590 [155.76]	641 [169.22]
	Pompa (2) Pump (2)	Q _{1 max}	l/min [U.S. gpm]	112 [29.5]		144 [38.01]	155 [40.92]	172 [45.41]	193 [50.95]	230 [60.72]	
Potenza max. a pnom Max. power at pnom	Motore Motor	P _{max}	kW [hp]	202 [270.68]	226 [302.84]	251 [336.34]	278 [372]	310 [415.4]	358 [479.72]	423 [566.82]	459 [615.06]
	Pompa ⁽²⁾ Pump ⁽²⁾	P _{1 max}	kW [hp]	80.5 [107.87]		100 [134]	110 [147.4]	123 [164.82]	138 [102.98]	165 [221.1]	
Costante di coppia Torque costant		T _k	Nm/bar [lbf·ft/psi]	0.9 [0.045]	1 [0.05]	1.2 [0.06]	1.4 [0.07]	1.7 [0.085]	2 [0.1]	2.6 [0.13]	2.8 [0.14]
Coppia max. Max. torque	cont. (p _{nom})	T _{nom}	Nm [lbf·ft]	386 [284.48]	433 [319.12]	533 [392.82]	590 [435.13]	742 [546.85]	855 [630.13]	1122 [826.91]	1219 [898.40]
	picco peak (pmax)	T _{max}	Nm [bf·ft]	431 [317.65]	484 [356.71]	595 [438.51]	659 [486.05]	829 [610.97]	954 [703.10]	1253 [923.46]	1361 [1003.06]
Momento di inerzia (3) Moment of inertia (3)		J	kg·m² [lbf·ft²]	0.004 [0.094]	0.004 [0.094]	0.007 [0.1645]	0.007 [0.1645]	0.012 [0.2820]	0.012 [0.2820]	0.022 [0.5170]	0.022 [0.5170]
Peso ⁽³⁾ Weight ⁽³⁾		m	kg [lbs]	19 [41.876]	19 [41.876]	23.7 [52.23]	23.7 [52.23]	35 [77.14]	35 [77.14]	48 [105.79]	48 [105.79]
Portata di drenaggio (4) External drain flow (4)		q _d	l/min [U.S. gpm]	1.2 [0.317]	1.2 [0.317]	2.5 [0.66]	2.5 [0.66]	3 [0.79]	3 [0.79]	3 [0.79]	3 [0.79]

(Valori teorici, senza considerare η_{hm} e η_{v} ; valori arrotondati). Le condizioni di picco non devono durare più dell'1% di ogni minuto. Evitare il funzionamento contemporaneo alla massima velocità e alla massima pressione.

Note: Determinazione della velocità ammissibile

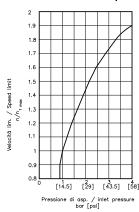
(1) La velocità di rotazione della pompa può essere aumentata aumentando la pressione sulla bocca di aspirazione. La velocità di rotazione massima della pompa non deve superare in ogni caso il valore n_{0 max} indicato in tabella. Per la determinazione della velocità massima di rotazione ammissibile in funzione della pressione sulla bocca di aspirazione utilizzare il diagramma a lato. ⁽²⁾ Valori validi per un regime di rotazione pari ad n1 max. ⁽³⁾ Valori indicativi. ⁽⁴⁾ Valori medi a 250 bar con olio minerale a 45°C e viscosità 35 cSt.

Notes: Calculation of permissible speed

(1) The pump rotation speed my be increased by increasing the suction pressure. The max pump speed must be always less then value n_{0 max} shown in table. To calculate the max permissible speed related to the pump suction pressure see the diagram at side. (2) The values are valid for a rotating speed of n1 max. (3) Approximate values. (4) Average values at 250 bar [3600 psi] with mineral oil at 45°C [113°F] and 35 cSt of viscosity.

(Theorical values, without considering η_{nm} e η_{v} approximate values). Peak operations must not exceed 1% of every minute. A simultaneous maximum pressure and maximum speed not recommended.

Determinazione della velocità limite / Speed limits calculation



^{*} I valori relativi alle pompe si riferiscono all'impiego in circuito aperto.

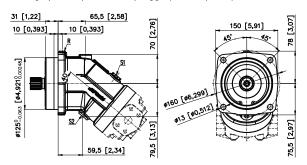
^{*} Pump values refer to open circuit operation.

SH11C 055-063 ME

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1/2 G (BSPP)

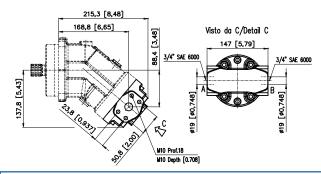
A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 1/8 G (BSPP)



LM₂

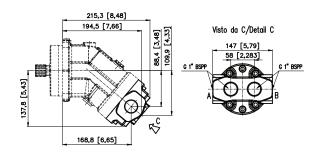
Per funzionamento come motore For motor operation

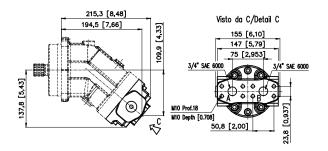


Per funzionamento come motore For motor operation

FM₂

Per funzionamento come motore For motor operation



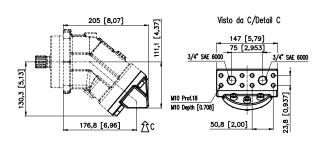


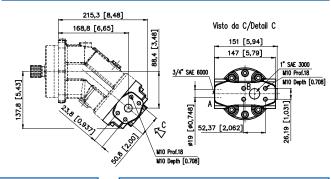
VM2

Per funzionamento come motore For motor operation

FP2

Per funzionamento come pompa For pump operation



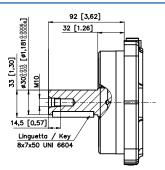


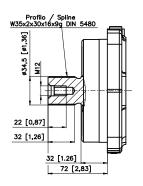
Albero cilindico

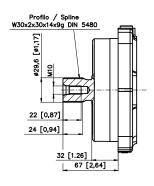
Parallel keyed shaft

Albero scanalato Splined shaft

SAI Albero scanalato





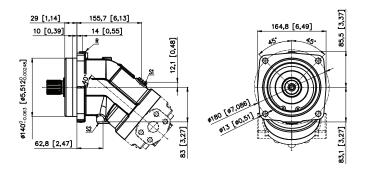


SH11C 075-090 ME

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1/2 G (BSPP)

A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 1/8 G (BSPP)

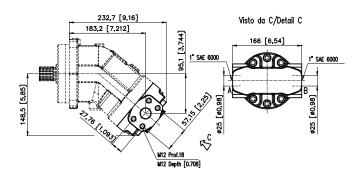


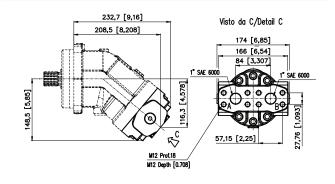
LM₂

Per funzionamento come motore For motor operation

FM2

Per funzionamento come motore For motor operation



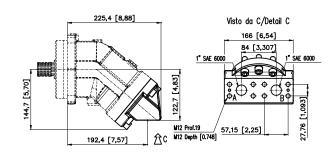


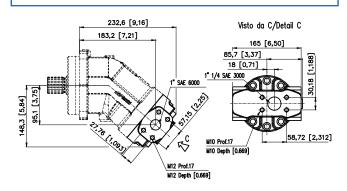
VM₂

Per funzionamento come motore

FP2

Per funzionamento come pompa For pump operation



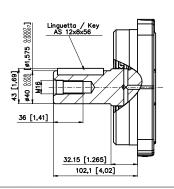


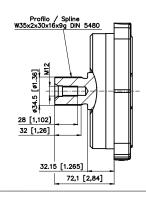
CBP

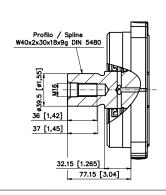
Albero cilindico Parallel keyed shaft SAM

Albero scanalato Splined shaft SAO

Albero scanalato Splined shaft





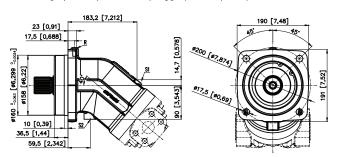


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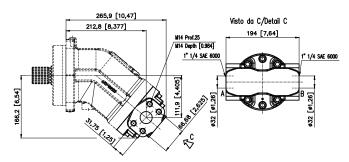
S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1/2 G (BSPP)

A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 1/8 G (BSPP)

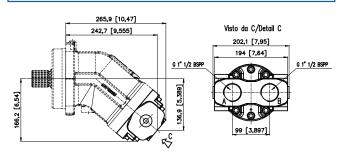


Per funzionamento come motore For motor operation

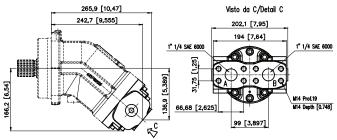


FM1

Per funzionamento come motore For motor operation

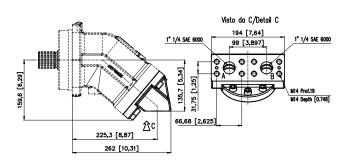


FM2 Per funzionamento come motore For motor operation



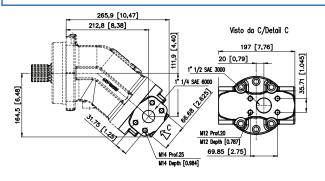
VM₂

Per funzionamento come motore For motor operation



FP2

Per funzionamento come pompa For pump operation

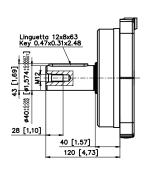


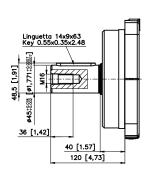
CAK

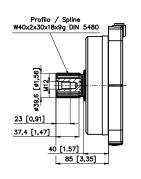
Albero cilindico Parallel keyed shaft CAJ

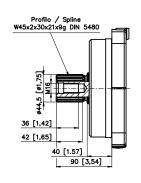
Albero cilindico Parallel keyed shaft SAO Albero scanalato Splined shaft **SAP**

Albero scanalato Splined shaft







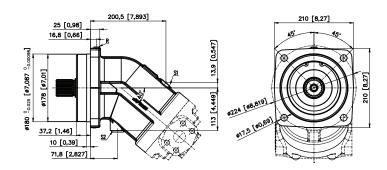


SH11C 160-180 ME

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 3/4 G (BSPP)

A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 1/8 G (BSPP)

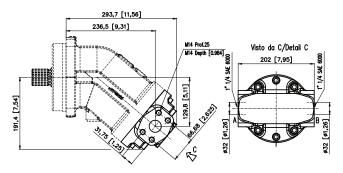


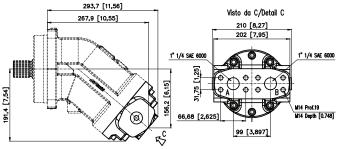
LM₂

Per funzionamento come motore For motor operation

FM2

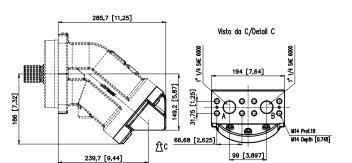
Per funzionamento come motore For motor operation



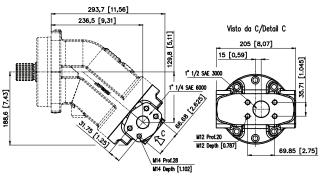


VM₂

Per funzionamento come motore



Per funzionamento come pompa For pump operation



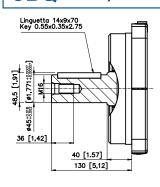
CBQ

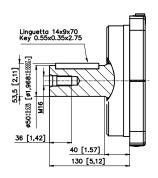
Albero cilindico Parallel keyed shaft

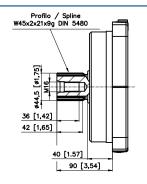
CAX

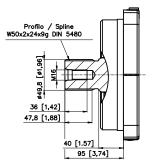
Albero cilindico Parallel keyed shaft SAP Albero scanalato Splined shaft









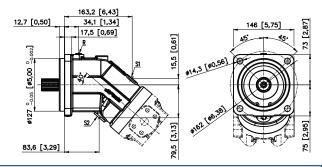


SH11C 055-063 SE

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1" 1/16-12 UN 2B

A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 7/16"-20 UNF

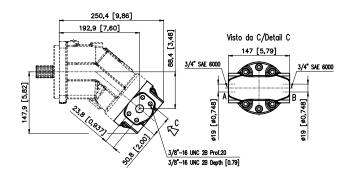


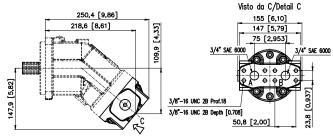
LM2

Per funzionamento come motore For motor operation

FM2

Per funzionamento come motore For motor operation



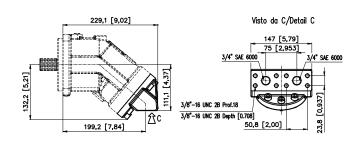


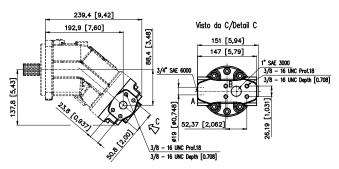
VM₂

Per funzionamento come motore

FP2

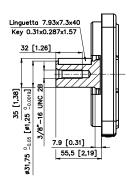
Per funzionamento come pompa For pump operation

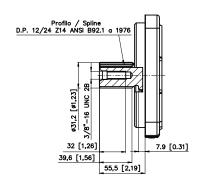




C17

Albero cilindico Parallel keyed shaft S12 Albero scanalato Splined shaft

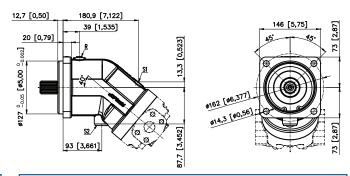




SH11C 075-090 SE

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1" 1/16-12 UN 2B A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 7/16"-20 UNF

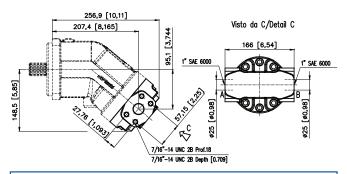


LM₂

Per funzionamento come motore For motor operation

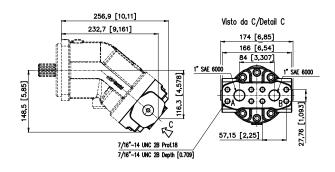
FM2

Per funzionamento come motore For motor operation



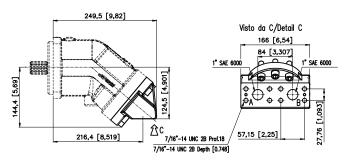
VM₂

Per funzionamento come motore For motor operation



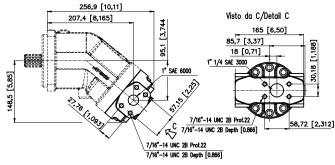
FP2

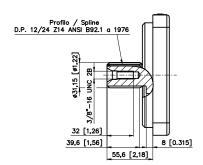
Per funzionamento come pompa For pump operation



S12

Albero scanalato Splined shaft

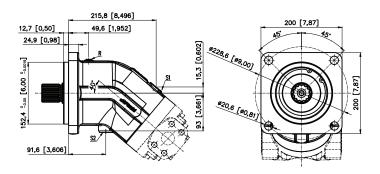






SH11C 108-125 SE

- S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) 1" 1/16-12 UN 2B
- A, B: Utenze / Service line ports
- R: Spurgo (tappato) / Air bleed (plugged) 7/16"-20 UNF

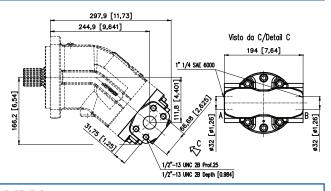


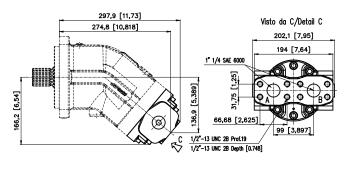
LM₂

Per funzionamento come motore For motor operation

FM2

Per funzionamento come motore For motor operation

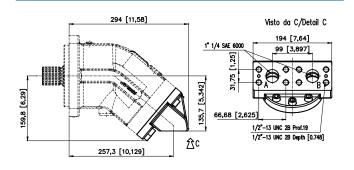


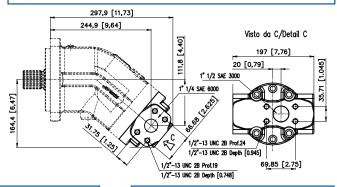


VM₂

Per funzionamento come motore For motor operation FP2

Per funzionamento come pompa For pump operation

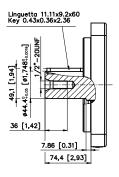


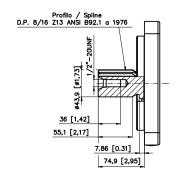


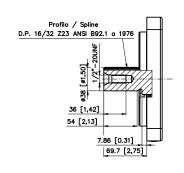
C18

Albero cilindico Parallel keyed shaft **S15**

Albero scanalato Splined shaft S16 Albero scanalato Splined shaft





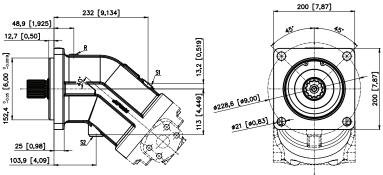


SH11C 160-180 SE

S1, S2: Drenaggi (1 tappato) / Drain ports (1 plugged) - 1" 1/16-12 UN 2B

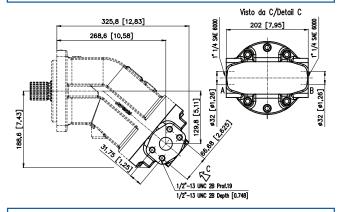
A, B: Utenze / Service line ports

R: Spurgo (tappato) / Air bleed (plugged) - 7/16"-20 UNF



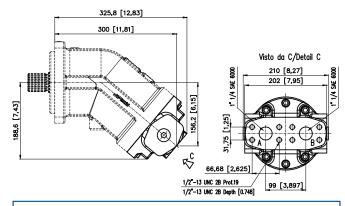
LM2

Per funzionamento come motore For motor operation



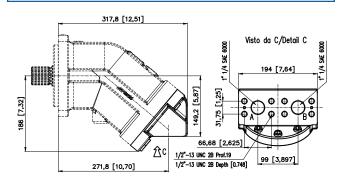
FM2

Per funzionamento come motore For motor operation



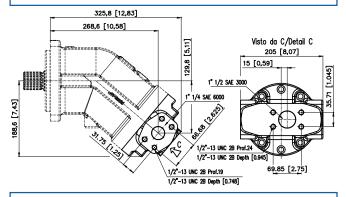
VM₂

Per funzionamento come motore For motor operation



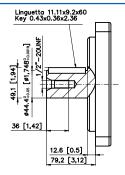
FP2

Per funzionamento come pompa For pump operation



C18

Albero cilindico Parallel keyed shaft



S15 Albero scanalato Splined shaft

