



**Sunfab SCP-ISO** is a series of piston pumps with a fixed displacement for mobile and stationary hydraulics.

**Sunfab SCP-ISO** covers the entire displacement range 12–130 cm<sup>3</sup>/revs at a maximum working pressure of 40 MPa. The pump is drained externally.

**Sunfab SCP-ISO** are speed optimised and therefore supplied in either left (L) or right (R) handed designs.

(1) The values shown are valid for an absolute pressure of 1 bar at the suction inlet.

(2) By increase of the input pressure the rotational speeds can be increased to the max. admissible speed n<sub>max</sub>.

(3) Contious power data are based on maximum output power without external cooling of the pump.

*Subject to design alteration*

**Sunfab SCP-ISO's** well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics.

**Sunfab SCP-ISO's** high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

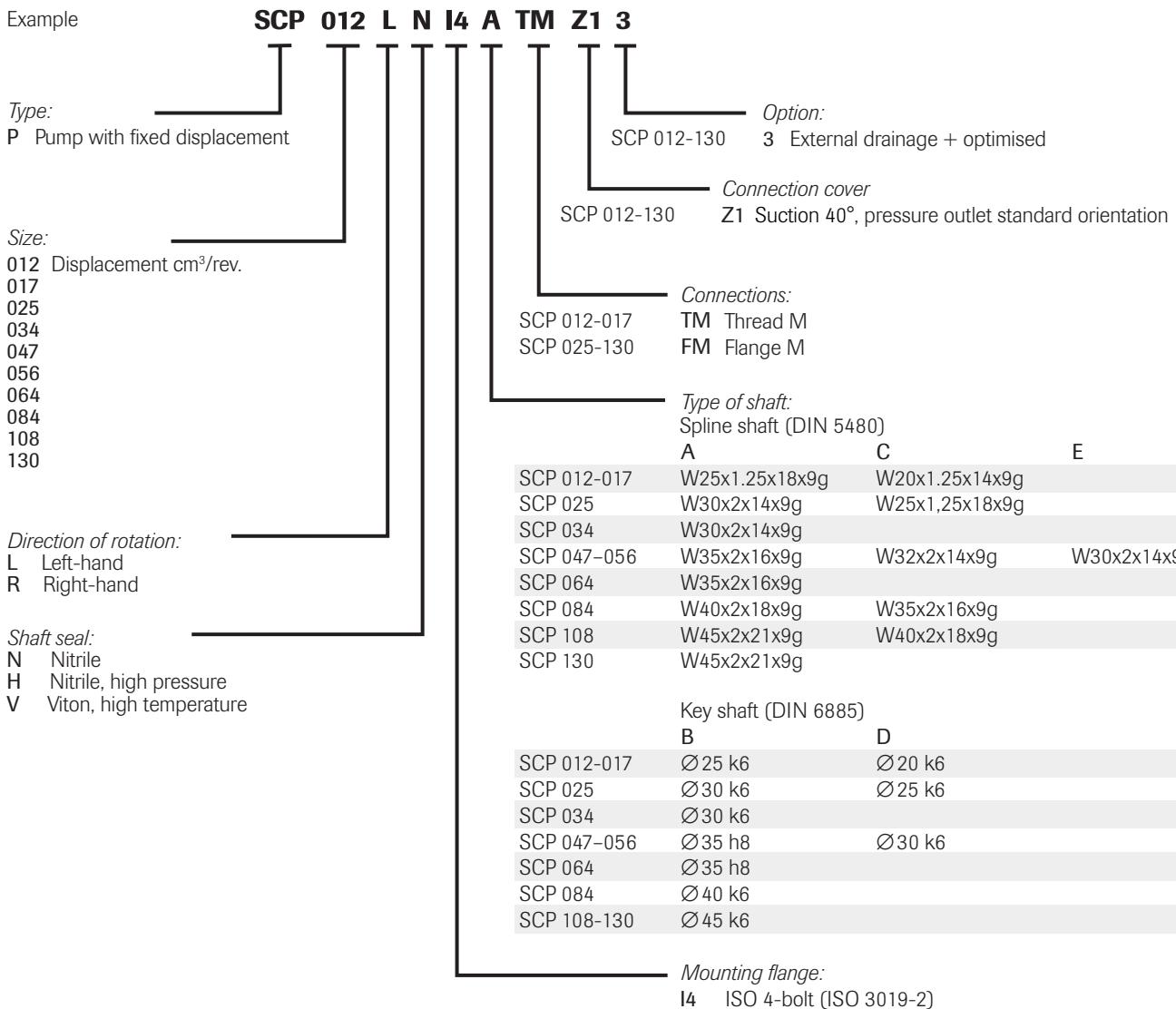
#### Other advantages of Sunfab SCP-ISO:

- High maximum speed while maintaining low noise levels
- Smooth operation over the entire speed range
- Long life due to high demands on material selection, such as bearings, seals, etc
- O-rings on all contact surfaces as well as double shaft seals eliminate oil leakage from the pump

Type SCP-ISO	012	017	025	034	047	056	064	084	108	130
Nominal oil flow at pump speed										
rpm	500	5.8	7.9	12.5	17.0	23.5	28.0	31.5	41.5	54.0
	1000	12.0	16.2	25.0	34.0	47.0	56.0	63.5	83.5	108.0
	1500	18.3	24.7	37.5	51.0	70.5	84.0	95.5	125.0	162.0
Displacement	cm <sup>3</sup> /rev.	12.6	17.0	25.4	34.2	47.1	56.0	63.6	83.6	108.0
Max working pressure	MPa	40	40	40	40	40	40	40	40	35
Max pump speed	n <sub>max</sub> (1)	rpm	3300	3200	2550	2250	2200	2100	2050	1700
	n <sub>max</sub> limit (2)	rpm	6000	5700	4700	4550	4300	3750	3700	3350
Max power	(3)	kW	20	25	40	55	65	80	90	100
Weight		kg	7.5	7.5	8.5	8.5	15.5	15.5	27.0	29.5
Mass moment of inertia (x 10 <sup>-3</sup> )		kg m <sup>2</sup>	0.9	0.9	1.1	1.1	2.6	2.6	7.4	7.4
Direction of rotation	supplied in right or left-hand designs									

# Versions, main data

Example



## Choice of shaft seal

Pump SCP-ISO	Code	Temp. °C	Max. housing pressure MPa at rpm					
			500	1000	1500	2000	2500	3000
012-034	N	75	1.09	0.55	0.36	0.27	0.22	0.18
	H	75	4.91	2.46	1.64	1.23	0.98	0.82
	V	90	1.09	0.55	0.36	0.27	0.22	0.18
047-064	N	75	1.09	0.55	0.36	0.27	0.22	0.18
	H	75	4.91	2.46	1.64	1.23	0.98	0.82
	V	90	1.09	0.55	0.36	0.27	0.22	0.18
084-130	N	75	0.76	0.38	0.25	0.19	0.15	0.13
	H	75	3.44	1.72	1.15	0.86	0.69	0.57
	V	90	0.76	0.38	0.25	0.19	0.15	0.13

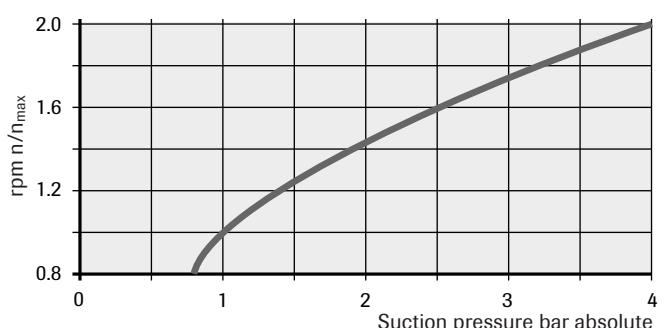
Factors affecting the choice of shaft seal include the hydraulic pump housing pressure and the drainage oil temperature.

The drainage oil should have a maximum temperature of 75 °C with a Nitrile shaft seal and 90 °C with a Viton shaft seal. These temperatures must not be exceeded.

Code according to Versions, main data.

The housing pressure must be equal to or greater than the external pressure on the shaft seal.

## Minimum inlet pressure at suction port with increased speed

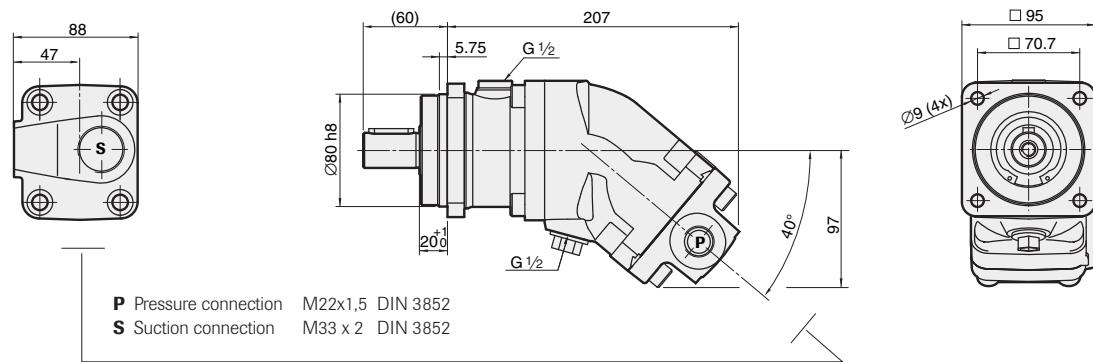


Operating above the max. pump speed n<sub>max</sub> requires increased inlet pressure.

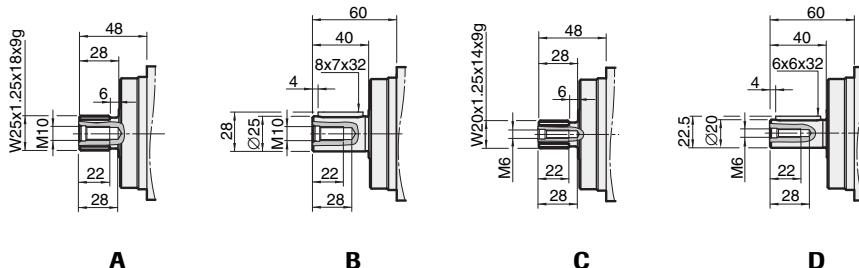
Note that the max. permissible speed n<sub>max</sub> limit must not be exceeded.

# Dimensions

## SCP 012-017



Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side



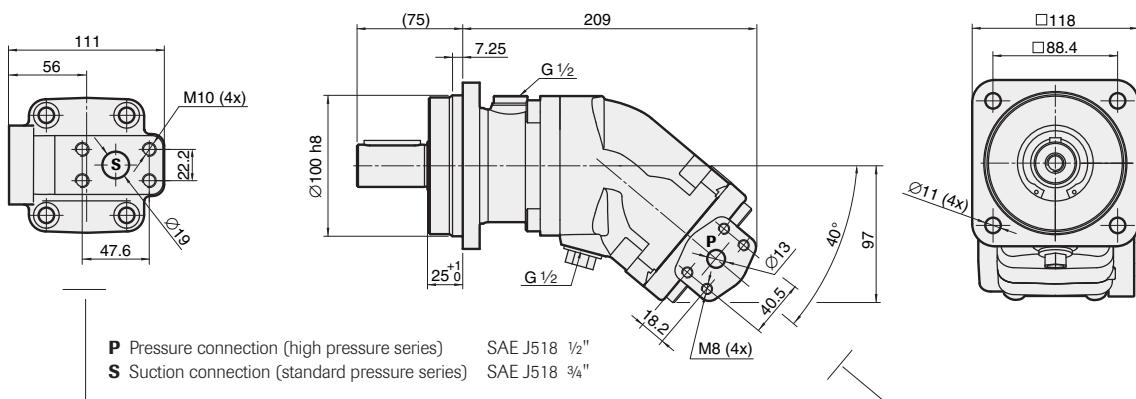
**A**

**B**

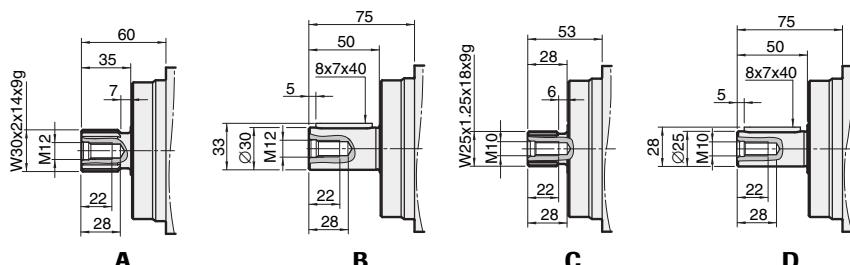
**C**

**D**

## SCP 025-034



Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side.



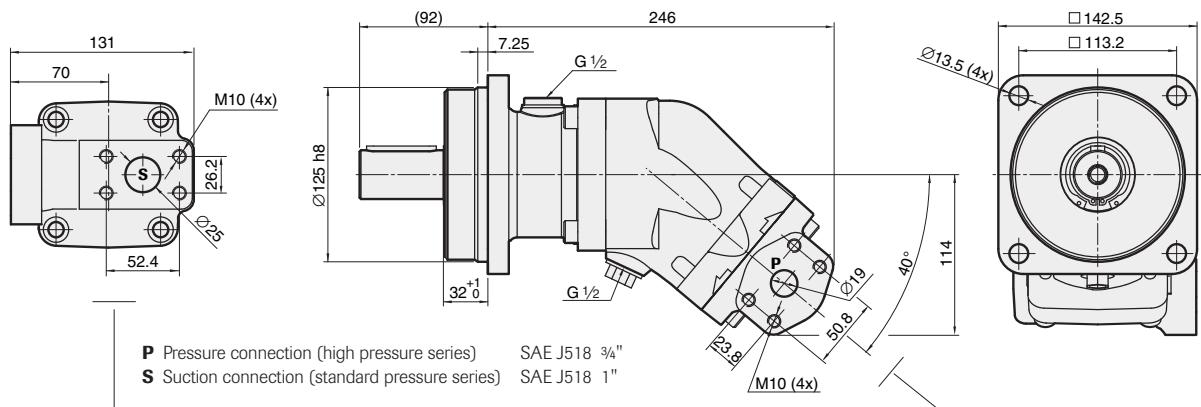
**A**

**B**

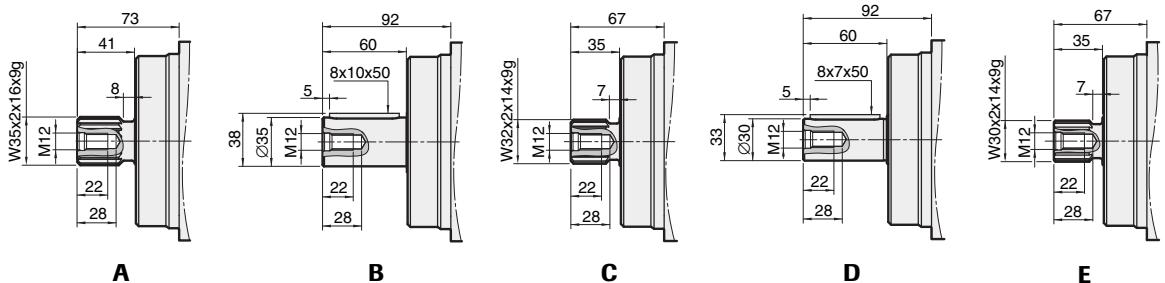
**C**

**D**

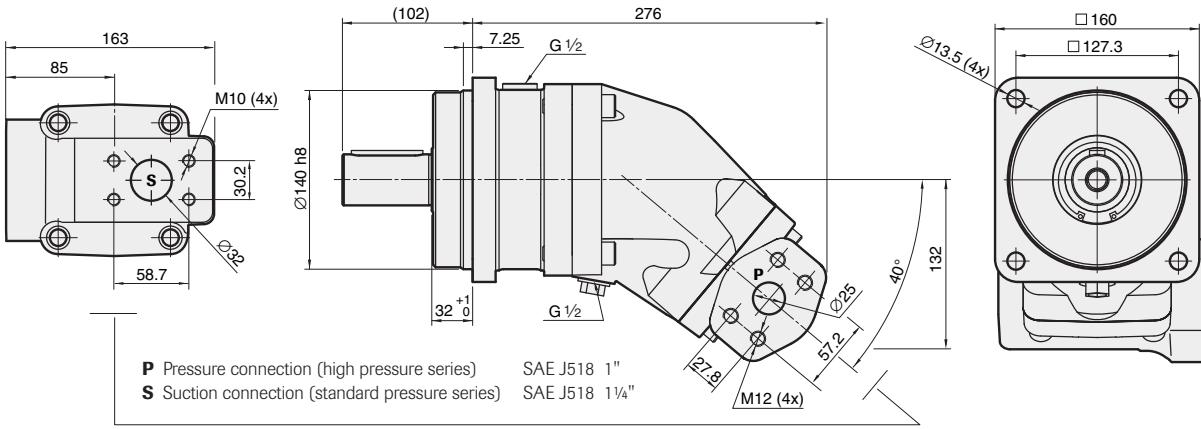
SCP 047-064



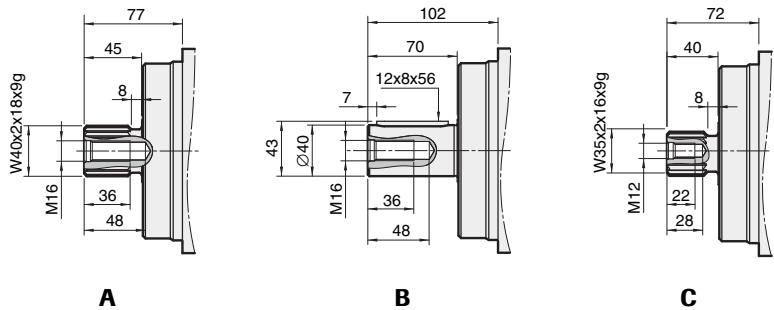
Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side.



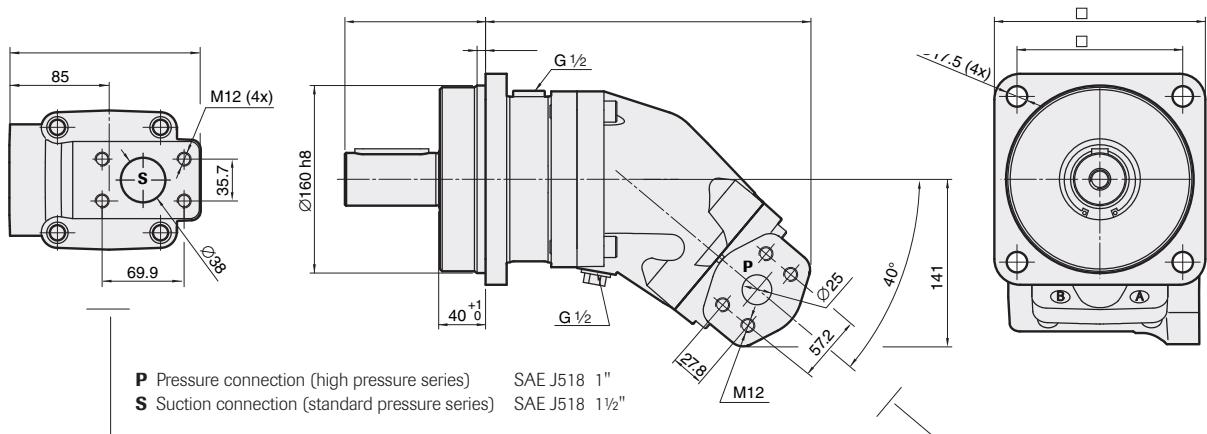
SCP 084



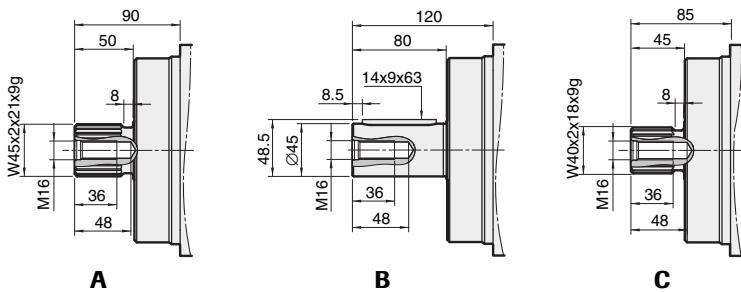
Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side.



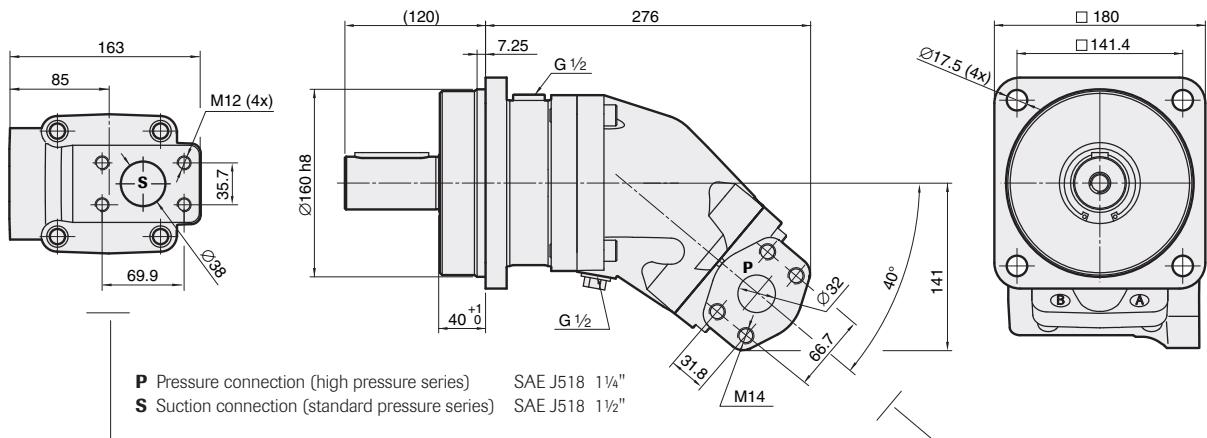
## SCP 108



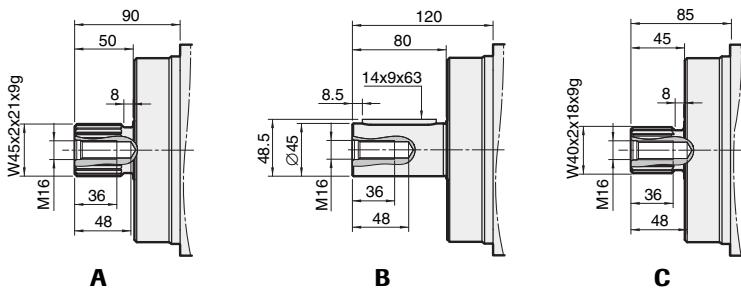
Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side.



## SCP 130



Right-hand design **R**. Left-hand design **L** has pressure outlets on the opposite side.





# SAMT



## HYDRAULICS

**Factory 19 / 5 Lyn Parade PRESTONS NSW 2170  
Ph: (02) 9607 4100 Fax: (02) 9607 4200**



### **WARNING**

When the pump is running:

1. Do not touch the pressure hose
2. Watch out for rotating parts
3. The pump and hoses may be hot