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# Over 90 years after the start, we still manufacture and operate in Sweden

Sunfab develops, produces and sells components to operate hydraulic equipment within the area of mobile vehicles.

The Swedish company Sunfab can trace its roots back to Sundins Fabriker, a family company that was established as long ago as 1925 and, for many years, was a successful manufacturer of skis. A fleet of vehicles ensured reliable transportation of raw materials to the factory. Heavy, irrational loading and unloading gave Eric Sundin, the founder of the company, the incentive required to develop cranes for the vehicles.

The first crane was built in 1947 by HIAB, a separate company. As time went on, demands increased for greater

capacity and, in 1954, a hydraulic pump was developed that laid the foundation for the future successes of the new company, Sunfab.

These days, Sunfab Hydraulics AB supplies companies with some of the world's most sophisticated products in its niche market. Products that meet stringent quality, environmental and safety requirements and offer functional solutions. We are just embarking on a long and successful journey of development.







### **Product overview**

#### **Single flow pumps**

Sunfab is your supplier of a wide range of hydraulic pumps. The pumps are optimized for all kinds of applications. We offer 12 different sizes in the range of 0.77-7.93 cu in/rev with pressure up to 5800 psi.

#### **SAP/SAPT 012-130 DIN**



### SAP 012-108 DIN Optimized



#### **SAP 012-108 SAE**



#### **Dual flow pumps**

The range of fixed displacement dual flow pumps SCPD and SLPD comprises 10 different sizes from 1.24/1.24 up to 4.58/4.58 cu in/rev. The SCPD dual flow pumps are of bent-axis design, the SLPD pumps are of inline design with swash plate.

#### SCPD 56/26 DIN / By-Pass



**SCPD 76/76 DIN** 



SLPD 20/20-64/32 DIN



Variable flow pumps

We offer variable pumps with a displacement of 3.81, 5.32, 6.74 and 7.93 cu in/rev. An operating pressure of up to 6527 psi, different kinds of regulators and tandem pump assembly enable you to use this kind of pump in almost all applications where you need a variable oil flow.

**SVH 062-130 DIN** 



**SVH 062-130 SAE** 



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#### **Fixed motors**

Sunfab offers hydraulic motors according to SAE, ISO and DIN standard as well as cartridge motors. The displacement is 0.59-7.93 cu in/rev with a choice of shafts, seals and connection ports. High revolution speeds and a operating pressure up to 5800 psi allows a power output of up to 285 kW.

**SCM 010-130 ISO** 

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**SCM 010-130 SAE** 



**SCM 010-034 SAE B2** 



**Accessories** 

Sunfab's accessories are a unique range of components designed to meet a bodybuilder's need of basic hydraulic installations.

**By-Pass** 



**PTO Tracpower** 



**Splitter Gearbox** 













SCP 012-130 ISO







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**SAM 010-130 DIN** 





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## **Pumps fixed single flow**

#### **SAP/SAPT 012-130 DIN**



## SAP/SAPT 012-130 DIN is a series of light weight casing piston pumps with a fixed displacement for demanding mobile hydraulics

It covers the displacement range 0.77-7.93 cu in/rev. at a maximum pressure of 5800 psi. It is a modern, compact pump which meets the market's high demands on flow performance, pressure, efficiency and small installation dimensions. The pump is either mounted directly on the power take-off or on a frame bracket via an intermediate shaft.

SAPT 090, 130 is an addition to the SAP series that supports larger flows and pressure up to 4350 psi. Ideal for applications that require both a high flow and a high working pressure..

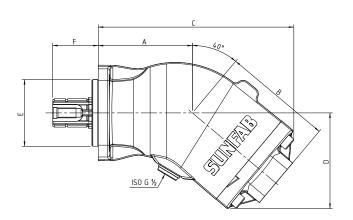
#### Other advantages:

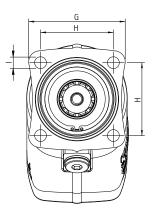
- · Light weight metal casing design
- Smooth operation over the entire speed range
- Long life due to high demands on material selection, such as bearings, seals, etc
- · Corrosion free lightweight-housing
- Less heat generation due to better ability to dissipate heat through housing

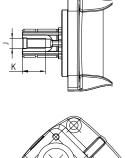
SAP/SAPT 012-130 DIN			012	017	025	034	040	047	056	064	084	090*	108	130*
Theoretical oil flow									GPM					
at pump speed	rpm	500	1.7	2.2	3.4	4.5	5.4	6.2	7.5	8.4	11.0	11.9	14.3	17.2
		1000	3.3	4.5	6.7	9.0	10.9	12.4	15.0	16.8	22.1	23.8	28.5	34.3
		1500	5.0	6.7	10.1	13.6	16.3	18.7	22.5	25.2	33.1	35.7	42.8	51.5
Displacement	cu in/rev		0.77	1.04	1.55	2.09	2.51	2.87	3.42	3.88	5.10	5.49	6.59	7.93
Max pump speed														
continuous	rpm		2300	2300	2300	2300	1900	1900	1900	1900	1600	1500	1600	1500
intermittent			3000	3000	3000	3000	2500	2500	2500	2500	2100	2000	2100	2000
Max working pressure	psi		5800	5800	5800	5800	5800	5800	5800	5800	5800	4350	5800	4350
Weight	lb		15.2	15.2	15.7	15.7	21.6	21.6	21.6	21.6	30.6	21.6	30.6	30.6
Tare-weight torque (M)	lb-ft		4.9	4.9	5.2	5.2	8.5	8.5	8.5	8.5	13.6	8.5	13.6	13.6
Direction of rotation	Left (L) or Right (R)													

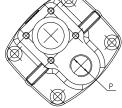
\*SAPT

Pump Model			012	017	025	034	040	047	056	064	084	090*	108	130*
Dimensions	in	Α	3.82	3.82	3.82	3.82	4.45	4.45	4.45	4.45	4.84	4.45	4.84	4.84
		В	4.57	4.57	4.57	4.57	5.16	5.16	5.16	5.16	5.79	5.16	5.79	5.79
		С	8.11	8.11	8.11	8.11	9.25	9.25	9.25	9.25	10.4	9.25	10.4	10.4
		D	4.53	4.53	4.53	4.53	4.65	4.65	4.65	4.65	5.00	4.65	5.00	5.00
		E	4.02	4.02	4.02	4.02	4.53	4.53	4.53	4.53	5.24	4.53	5.24	5.24
		F	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
		G	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
		Н	3.82	3.82	3.82	3.82	4.37	4.37	4.37	4.37	4.65	4.37	4.65	4.65
		- 1	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
		J	M12											
		K	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	ISO G	D	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	3/4	1	- 1











#### SAP 012-108 DIN Optimized



SAP DIN Optimized is a series of light weight casing piston pumps with a fixed displacement for demanding mobile hydraulics. It is variant of the standard SAP series, also suitable for electric motor drives due to the pump's higher speed properties and lower noise level.

SAP 012-108 DIN Optimized covers the displacement range 0.77-6.59 cu in/rev. at a maximum pressure of 5800 psi. It is a modern, compact pump which meets the market's high demands on flow performance, pressure, efficiency and small installation dimensions. It is either mounted directly on the power take-off or on a frame bracket via an intermediate shaft.

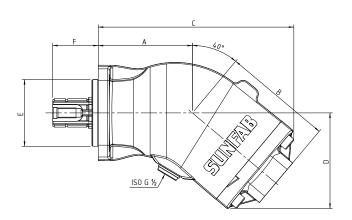
The optimised option gives a more silent operation with higher pump speeds. It is a speed-optimised pump and therefore supplied for either left (L) or right (R) rotation direction.

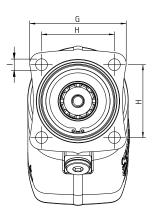
#### Other advantages:

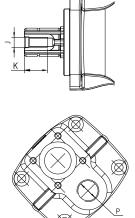
- · Less noise than the standard SAP series
- · Less pulsations in the system
- Smooth operation over the entire speed range
- Long life due to high demands on material selection, such as bearings, seals, etc
- · Corrosion free light metal-housing
- Less heat generation due to better ability to dissipate heat through housing

SAP 012-108 DIN Optimized			012	017	025	034	040	047	056	064	084	108
Theoretical oil flow							GPM					
at pump speed	rpm	500	1.7	2.2	3.4	4.5	5.4	6.2	7.5	8.4	11.0	14.3
		1000	3.3	4.5	6.7	9.0	10.9	12.4	15.0	16.8	22.1	28.5
		1500	5.0	6.7	10.1	13.6	16.3	18.7	22.5	25.2	33.1	42.8
Displacement	cu in/rev		0.77	1.04	1.55	2.09	2.51	2.87	3.46	3.88	5.10	6.59
Max pump speed												
continuous	rpm		3000	3000	2500	2500	2000	2000	2000	2000	1800	1800
intermittent			3500	3500	3200	3200	2600	2600	2600	2600	2300	2300
Max working pressure	psi		5800	5800	5800	5800	5800	5800	5800	5800	5800	5800
Weight	lb		15.2	15.2	15.7	15.7	21.6	21.6	21.6	21.6	30.6	30.6
Tare-weight torque (M)	lb-ft		4.9	4.9	5.2	5.2	8.5	8.5	8.5	8.5	13.6	13.6
Direction of rotation	Left (L) or Right (R)											

Pump Model			012	017	025	034	040	047	056	064	084	108
Dimensions	in	Α	3.82	3.82	3.82	3.82	4.45	4.45	4.45	4.45	4.84	4.84
		В	4.57	4.57	4.57	4.57	5.16	5.16	5.16	5.16	5.79	5.79
		С	8.11	8.11	8.11	8.11	9.25	9.25	9.25	9.25	10.4	10.4
		D	4.53	4.53	4.53	4.53	4.65	4.65	4.65	4.65	5.00	5.00
		E	4.02	4.02	4.02	4.02	4.53	4.53	4.53	4.53	5.24	5.24
		F	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86	3.86
		G	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
		Н	3.82	3.82	3.82	3.82	4.37	4.37	4.37	4.37	4.65	4.65
		- 1	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51	0.51
		J	M12									
		K	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
	ISO G	Р	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	1







## **Pumps fixed single flow**

#### **SAP 012-108 SAE**



## SAP 012-108 SAE is a series of light weight casing piston pumps with a fixed displacement for demanding mobile hydraulics.

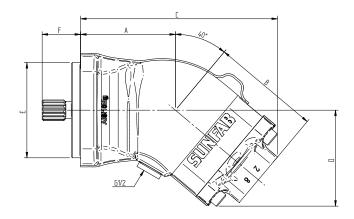
SAP 012-108 SAE covers the displacement range 0.77 - 6.59 cu in/rev. at a maximum pressure up to 5800 psi. It is a modern, compact pump which meets the market's high demands on flow performance, pressure, efficiency and small installation dimensions. The pump is either mounted directly on the power takeoff or on a frame bracket via an intermediate shaft.

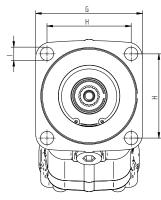
#### Other advantages:

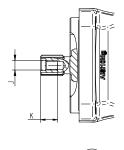
- Light weight metal casing design
- · Smooth operation over the entire speed range
- Long life due to high demands on material selection, such as bearings, seals, etc
- Corrosion free lightweight-housing
- Less heat generation due to better ability to dissipate heat through housing

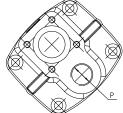
SAP 012-108 SAE		012	017	025	034	040	040	047	047	056	056	064	064	084	108
		SAE													
		B4	B4	B4	B4	B4	C4	B4	C4	B4	C4	B4	C4	C4	C4
Theoretical oil flow at pump speed								GPM							
	rpm 500	1.7	2.2	3.4	4.5	5.4	5.4	6.2	6.2	7.5	7.5	8.4	8.4	11.0	14.3
	1000	3.3	4.5	6.7	9.0	10.9	10.9	12.4	12.4	15.0	15.0	16.8	16.8	22.1	28.5
	1500	5.0	6.7	10.1	13.6	16.3	16.3	18.7	18.7	22.5	22.5	25.2	25.2	33.1	42.8
Displacement	cu in/rev	0.77	1.04	1.55	2.09	2.51	2.51	2.87	2.87	3.46	3.46	3.88	3.88	5.10	6.59
Max pump speed															
continuous	rpm	2300	2300	2300	2300	1900	1900	1900	1900	1900	1900	1900	1900	1600	1600
limited		3000	3000	3000	3000	2500	2500	2500	2500	2500	2500	2500	2500	2100	2100
Max working pressure	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075	5800	5800	5800
Weight	lb	16.1	16.1	16.5	16.3	21.4	22.9	21.4	22.9	20.3	21.8	21.2	22.7	35.7	35.0
Tare-weight torque (M)	lb-ft	5.3	5.3	5.5	5.4	7.5	8.0	7.5	8.0	7.2	7.7	7.4	8.0	16.4	16.2
Direction of rotation	Left (L) or Right (R)														

Pump Model			012-034 (SB4-B13)	040-064 (SB4-B13)	040-064 (SC4-C14)	084-108 (SC4-C14)
Dimensions	in	Α	3.98	4.49	4.53	5.04
		В	4.57	5.16	5.16	5.83
		С	8.27	9.21	9.29	10.59
		D	4.02	4.53	4.53	5.24
		E	4.02	4.02	5.00	5.00
		F	1.61	1.61	2.20	2.20
		G	4.49	4.65	5.63	5.51
		Н	3.53	5.53	4.51	4.51
		- 1	0.56	0.56	0.56	0.55
		J	M10	M10	M12	M12
		K	0.71	0.71	0.71	0.71
ISO	O G	Р	3/4	3/4	3/4	1











#### **SCP 012-130 ISO**



## SCP 012-130 ISO is a series of piston pumps with a fixed displacement for mobile and stationary hydraulics.

SCP 012-130 ISO covers the entire displacement range 0.77-7.93 cu in/rev. at a maximum pressure of 5800 psi.

The pump's well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics. The pump is drained externally. It is speed-optimized and therefore supplied for either left (L) or right (R) rotation direction.

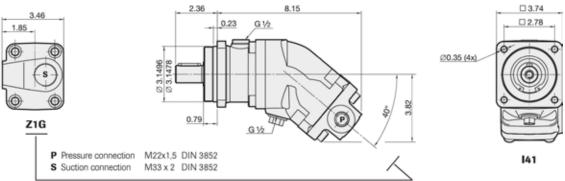
#### Other advantages:

- · 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.

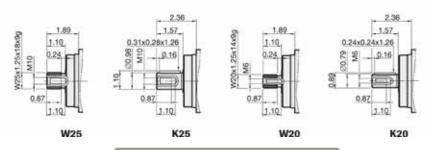
SCP 012-130 ISO				012	017	025	034	040	047	056	064	084	090	108	130
Nominal oil flow										GPM					
at pump speed		rpm	500	1.7	2.2	3.4	4.5	5.4	6.2	7.5	8.4	11.0	12.0	14.3	17.2
			1000	3.3	4.5	6.7	9.0	10.9	12.4	15.0	16.8	22.1	24.0	28.5	34.3
			1500	5.0	6.7	10.1	13.6	16.3	18.7	22.5	25.2	33.1	35.9	42.8	51.5
Displacement		cu in/rev		0.77	1.04	1.55	2.09	2.51	2.87	3.42	3.88	5.10	5.53	6.59	7.93
Max working pressure		psi		5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075
Max pump speed	n <sub>max (1)</sub>	rpm		3300	3200	2550	2250	2200	2200	2100	2050	1700	1700	1700	1600
	n <sub>max limit (2)</sub>			6000	5700	4700	4550	4300	4300	3750	3700	3350	3000	3000	2900
Max power		hp		34	47	54	67	74	87	101	114	121	127	161	161
Weight		lb		16.5	16.5	18.7	18.7	34.2	34.2	34.2	34.2	59.5	59.5	65.0	65.0
Mass moment of inertia (x 10 <sup>-3</sup> )		lb-ft-sec <sup>2</sup>		0.7	0.7	0.8	0.8	1.9	1.9	1.9	1.9	5.4	5.4	5.4	5.4
Direction of rotation	Left (L) or Right (R)														

- (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 max limit.

#### Example drawing.



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



### **Pumps fixed dual flow**

#### SCPD 56/26 DIN / By-Pass



### SCPD 56/26 DIN is a double pump with two separate flows of different sizes.

SCPD 56/26 DIN gives 3.42 and 1.59 cu in/rev. and supports a maximum operating pressure of 5800 psi. It can effectively be directly mounted on gear boxes equipped with engageable and disengageable power take-offs.

It is speed optimized and therefore supplied for either left (L) or right (R) rotation direction.

SCPD 56/26 DIN By-Pass is ideal for combination vehicles which require different flows and where there is a need to operate equipment while moving. The pump is primarily intended for engine-mounted power take-offs.

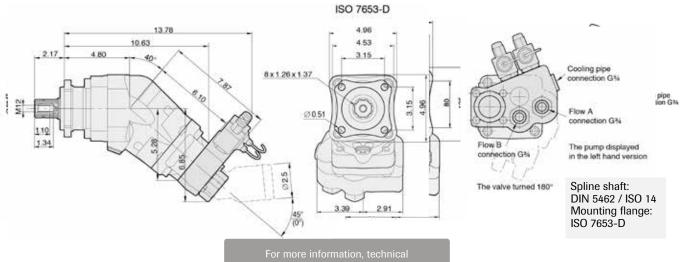
The constant engagement is made possible by the By-Pass valve, which immediately relieves the load on the pump and power take-off when oil is not required. The pressure drop of the By-Pass valve is very low, so its function is energy efficient.

#### Other advantages:

- High self-priming speed
- · Constant low noise level
- 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
- The By-Pass valve can relieve the load from full operating pressure of 400 bar, which allows emergency stop function
- The valve's 24 V solenoids have integrated electrical cables which meet protection class ADR

#### SCPD 56/26 DIN By-Pass

Theoretical oil flow A+B at pump speed		rpm	GPM		
		600	8.9 + 4.1 = 13.0		
		1000	14.8 + 6.9 = 21.7		
		1200	17.8 + 8.3 = 26.1		
		1500	22.2 + 10.3 = 32.5		
		1800	26.6 + 12.4 = 39.0		
Displacement A+B	cu in/rev	3.42 + 1.59			
Max pump speed A+B	rpm	1850			
Max pump speed A	rpm	1850			
Max pump speed B	rpm	2200			
Max pump speed, relieved	rpm	2700			
Max working pressure	psi	5800			
Weight without valve	lb	39.7			
Weight with valve	lb	49.6			
Tare-weight torque without valve	lb-ft	21.0			
Tare-weight torque with valve	lb-ft	18.7			
Nominal power at pressure and pump speed		rpm	2900 psi	4350 psi	5800 psi
		600	15.0 + 7.0 = 22.0 hp	22.5 + 10.5 = 33.0 hp	30.0 + 14.0 = 44.0 hp
		1200	30.0 + 14.0 = 44.0 hp	45.0 + 21.0 = 66.0 hp	60.0 + 28.0 = 88.0 hp
		1800	45.0 + 21.0 = 66.0 hp	67.5 + 31.5 = 99.0 hp	90.0 + 42.0 = 132 hp
Nominal torque on pump shaft at different pressures			2900 psi	4350 psi	5800 psi
			131 + 61.2 = 192 lb-ft	197 + 91.5 = 288 lb-ft	263 + 122 = 384 lb-ft
Direction of rotation	Left (L) or Right (R)		·	·	·





#### **SCPD 76/76 DIN**



### SCPD 76/76 DIN is a dual flow pump with two separate flows of equal sizes.

SCPD 76/76 DIN gives a maximum flow of 33.7 + 33.7 = 67.4 GPM and supports a maximum working pressure of 5076 psi. It can effectively be directly mounted on gear boxes equipped with engageable and disengageable power take-offs.

SCPD 76/76 DIN is a modern, compact pump, which meets the market's high demands on flow performance, pressure, efficiency and small installation dimensions. It is speed optimized and therefore supplied for either left (L) or right (R) rotation direction.

SCPD 76/76 DIN is superior by offering two big flows in combination with extremely compact size. The compact size makes it possible to mount the pump directly on the power take-off in very restricted spaces.

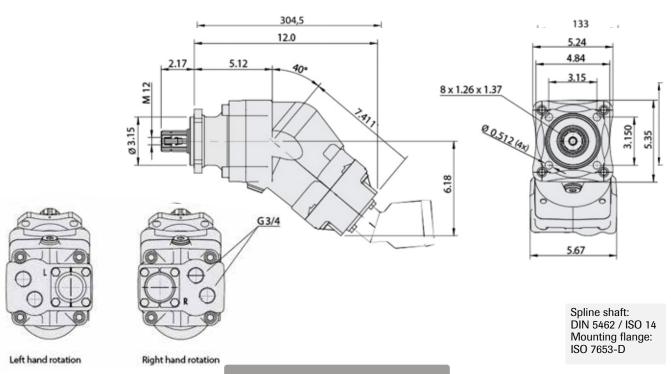
#### Other advantages:

- Large displacement gives the possibility of low engine speeds and low noise levels.
- 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 and power takeoff.
- · Highest displacement-to-size-ratio on the market.

#### SCDD 76/76 DIN

		GPM		
rpm	1000*	19.8 + 19.8 = 39.6		
	1500	29.7 + 29.7 = 59.4		
cu in/rev	4.58 + 4.58			
rpm	1500			
	1700			
psi	5076			
lb	51.1			
lb-ft	25.4			
		2901 psi	3526 psi	5076 psi
rpm	1000*	33.5 + 33.5 = 67.0 hp	42.0 + 42.0 = 83.9 hp	58.7 + 58.7 = 117 hp
	1500	50.3 + 50.3 = 101 hp	62.9 + 62.9 = 126 hp	88.0 + 88.0 = 176 hp
		2901 psi	3526 psi	5076 psi
		176 + 176 = 353 lb-ft	220 + 220 = 440 lb-ft	308 + 308 = 617 lb-ft
Left	(L) or Right (R)			
	cu in/rev rpm psi lb lb-ft rpm	rpm 1500 psi 5076 lb 51.1 lb-ft 25.4 rpm 1000*	rpm 1000* 19.8 + 19.8 = 39.6 1500 29.7 + 29.7 = 59.4  cu in/rev 4.58 + 4.58  rpm 1500 1700  psi 5076 lb 51.1 lb-ft 25.4  rpm 1000* 33.5 + 33.5 = 67.0 hp 1500 50.3 + 50.3 = 101 hp 2901 psi 176 + 176 = 353 lb-ft	rpm 1000* 19.8 + 19.8 = 39.6 1500 29.7 + 29.7 = 59.4  cu in/rev 4.58 + 4.58  rpm 1500 1700  psi 5076 lib 51.1 lib-ft 25.4  rpm 1000* 33.5 + 33.5 = 67.0 hp 42.0 + 42.0 = 83.9 hp 1500 50.3 + 50.3 = 101 hp 62.9 + 62.9 = 126 hp 2901 psi 3526 psi 176 + 176 = 353 lb-ft 220 + 220 = 440 lb-ft

<sup>\*</sup>We recommend a minimum pump speed of 1000 rpm to obtain optimal performance, efficiency and life-span of the pump.



## **Pumps fixed dual flow**

#### **SLPD 20/20-64/32 DIN**



## SLPD 20/20-64/32 DIN is a series of in-line dual flow pumps with extremely low noise levels for demanding mobile hydraulics.

SLPD 20/20-64/32 DIN comes in eight different sizes, where three models feature differentiated flows. Pumps with differentiated flow increase the field of application as they can provide three different flows: one small, one large and one combined flow. Maximum pressure is 4785 - 5075 psi depending on the model. Its slim pump housing makes direct mounting on the power take-off possible in very confined areas. SLPD 20/20-64/32 DIN is also ideal for installation using a frame bracket via an intermediate shaft.

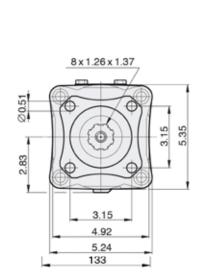
It is available in a version with a Savtec valve for applications where the hydraulics need to be used while the vehicle is on the move.

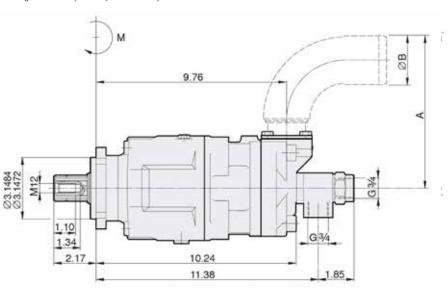
#### Other advantages:

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps with a splitter gear box
- 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
- Extremely low noise emission over entire speed and pressure ranges

SLPD 20/20-64/32 DIN			20/20	28/28	40/20	35/35	56/28	46/46	53/53	64/32
Theoretical oil flow at pump speed						GPM				
	rpm	500	2.7+2.7=5.4	3.6+3.6=7.2	5.4+2.7=8.1	4.5+4.5=9.0	7.3+3.6=10.9	6.0+6.0=12.0	6.9+6.9=13.8	8.3+4.2=12.5
		1000	5.4+5.4=10.8	7.3+7.3=14-6	10.8+5.4=16.2	9.0+9.0=18.0	14.5+7.3=21.8	12.1+12.1=24.2	13.9+13.9=27.8	16.7+8.3=25.0
		1500	8.1+8.1=16.2	10.9+10.9=21.8	16.1+8.1=24.2	13.4+13.4=26.8	21.8+10.9=32.7	18.1+18.1=36.2	20.8+20.8=41.6	25.0+12.5=37.5
Displacement	cu in/rev		1.24 +1.24	1.68 +1.68	2.48 +1.24	2.07 +2.07	3.35 +1.68	2.79 +2.79	3.21 +3.21	3.85 +1.92
Max pump speed	rpm		2200	1800	2200	2200	1800	1800	1600	1600
Max working pressure	psi		5075	5075	5075	4785	5075	4785	4785	5075
Weight	lb		48.5	48.5	48.5	48.5	48.5	48.5	48.5	48.5
Dimensions	in	Α	5.24	5.24	5.24	5.24	6.54	6.54	6.54	6.54
Min. dimensions		В	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5
Tare-weight torque (M)	lb-ft		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
Direction of rotation	Independent									

Maximum pressure combined with maximum speed is only allowed during intermittent operation (max. 6 sec/min)





Spline shaft: DIN 5462 / ISO 14 Mounting flange: ISO 7653-D



#### **SLPD 20/20-64/32 DIN SAVTEC**



## SLPD 20/20-64/32 DIN Savtec is equipped with a SAVTEC shut-off valve. Using a Savtec valve makes it possible to control the SLPD pump so it only feeds oil when required.

SLPD 20/20-64/32 DIN Savtec's valve is available as pneumatic remote control. The signal is obtained from e.g. the parking brake, pressure sensor or diode gate. With a closed Savtec valve it generates neither flow nor pressure, and in doing so does not load the power take-off. This has a positive effect on fuel economy.

SLPD 20/20-64/32 DIN Savtec features extra lubrication ducts on the bearings for lubrication even when the pump is run with the Savtec-valve closed.

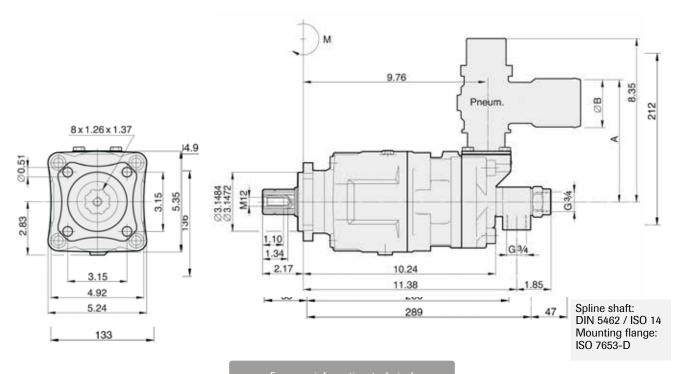
The pump comes in eight different sizes, where three models feature differentiated flows. Pumps with differentiated flow increase the field of application as they can provide three different flows: one small, one large and one combined flow. Max pressure is 4785 - 5075 psi depending on the model.

#### Other advantages:

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps in a splitter gear box
- Extremely low noise level
- 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 and power take-off
- The Savtec valve can also be used as an emergency stop

SLPD 20/20-64/32 DIN SAVTEO	:		20/20	28/28	40/20	35/35	56/28	46/46	53/53	64/32
Theoretical oil flow at pump speed						GPM				
	rpm	500	2.7+2.7=5.4	3.6+3.6=7.2	5.4+2.7=8.1	4.5+4.5=9.0	7.3+3.6=10.9	6.0+6.0=12.0	6.9+6.9=13.8	8.3+4.2=12.5
		1000	5.4+5.4=10.8	7.3+7.3=14-6	10.8+5.4=16.2	9.0+9.0=18.0	14.5+7.3=21.8	12.1+12.1=24.2	13.9+13.9=27.8	16.7+8.3=25.0
		1500	8.1+8.1=16.2	10.9+10.9=21.8	16.1+8.1=24.2	13.4+13.4=26.8	21.8+10.9=32.7	18.1+18.1=36.2	20.8+20.8=41.6	25.0+12.5=37.5
Displacement	cu in/rev		1.24 +1.24	1.68 +1.68	2.48 +1.24	2.07 +2.07	3.35 +1.68	2.79 +2.79	3.20 +3.20	3.84 +1.92
Max pump speed	rpm		2200	1800	2200	2200	1800	1800	1600	1600
Max speed, idling	rpm		3000	2500	3000	3000	2500	2500	2500	2500
Max working pressure	psi		5075	5075	5075	4785	5075	4785	4785	5075
Weight	lb		51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
Dimensions	in	Α	5.24	5.24	5.24	5.24	6.54	6.54	6.54	6.54
Min. dimensions		В	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5
Tare-weight torque	lb-ft		21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
Direction of rotation	Independent									

 $Maximum\ pressure\ combined\ with\ maximum\ speed\ is\ only\ allowed\ during\ intermittent\ operation\ (max.\ 6\ sec/min)$ 



## **Pumps fixed dual flow**

#### SLPD 40/20-64/32 SAE



## SLPD 40/20-64/32 SAE is a series of in-line double pumps with extremely low noise levels for demanding mobile hydraulics.

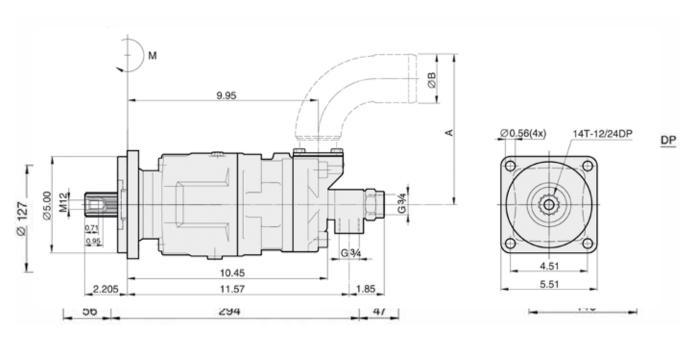
SLPD 40/20-64/32 SAE pumps are equipped with shafts and flanges according to the SAE-C standard. They are available in six different sizes. It's slim pump housing enables direct installation on the power take-off in very confined spaces. SLPD is also easy to install with frame mountings via an intermediate shaft. The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process. Maximum pressure is 4785 - 5075 psi, dependent on model

#### Other advantages:

- Independent direction of rotation
- A cost effective total solution in relation to a conventional installation using two pumps with a splitter gear box
- 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 and power take-off

SLPD 40/20-64/32 SAE			40/20	35/35	56/28	46/46	53/53	64/32
Theoretical oil flow at pump speed					GPM			
	rpm	500	5.4+2.7=8.1	4.5+4.5=9.0	7.3+3.6=10.9	6.0+6.0=12.0	6.9+6.9=13.8	8.3+4.2=12.5
		1000	10.8+5.4=16.2	9.0+9.0=18.0	14.5+7.3=21.8	12.1+12.1=24.2	13.9+13.9=27.8	16.7+8.3=25.0
		1500	16.1+8.1=24.2	13.4+13.4=26.8	21.8+10.9=32.7	18.1+18.1=36.2	20.8+20.8=41.6	25.0+12.5=37.5
Displacement	cu in/rev		2.48 + 1.24	2.07 + 2.07	3.35 + 1.68	2.79 + 2.79	3.21 + 3.21	3.85 + 1.92
Max pump speed	rpm		2200	2200	1800	1800	1600	1600
Max working pressure	psi		5075	4785	5075	4785	4785	5075
Weight	lb		48.5	48.5	48.5	48.5	48.5	48.5
Dimensions	in	Α	5.24	5.24	6.54	6.54	6.54	6.54
Min. dimensions		В	2.0	2.0	2.5	2.5	2.5	2.5
Tare-weight torque	lb-ft		19.5	19.5	19.5	19.5	19.5	19.5
Direction of rotation	Independent							

Maximum pressure combined with maximum speed is only allowed during intermittent operation (max. 6 sec/min)

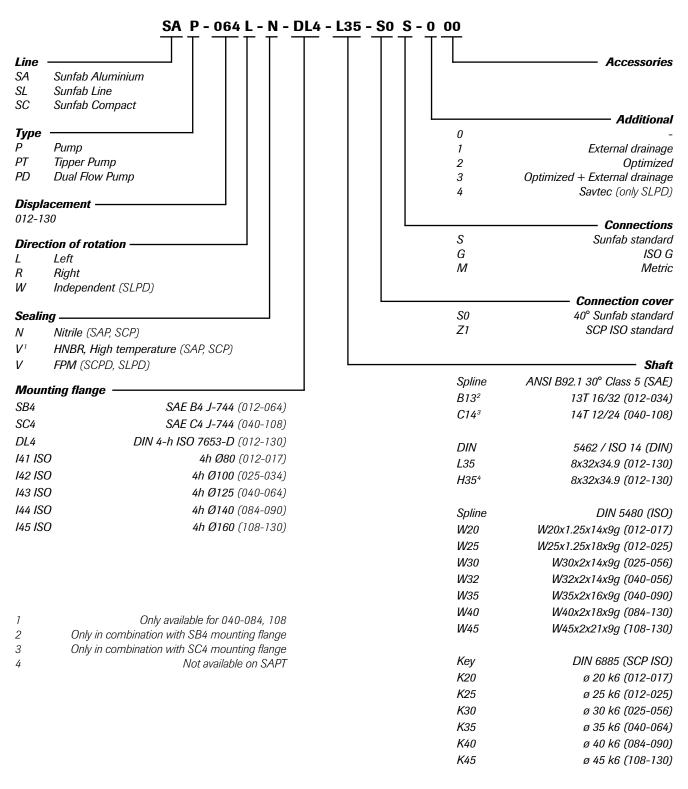


Spline shaft: SAE C Mounting flange: SAE C

## **Versions, Pumps**







## **Pumps variable flow**

#### **SVH 062-130 DIN**



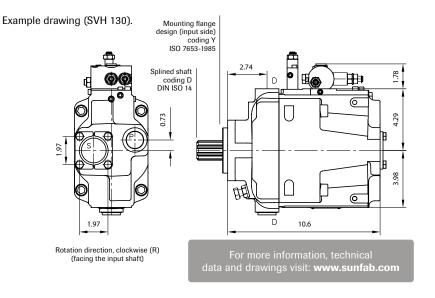
## Sunfab SVH DIN is a variable axial piston pump for load sensing systems, designed for direct installation on the truck's power take-off.

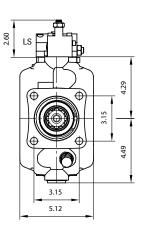
SVH supports a maximum pressure up to 6527 psi, and is available in the sizes 3.81, 5.32, 6.74 and 7.93 cu in/rev. It is intended for use on forestry cranes, general cargo cranes, suction vehicles, refuse collection vehicles, etc. SVH variable pumps uniquely feature a slim pump housing which permits direct mounting on the power take-off.

#### Other advantages:

- Short reaction time when resetting the flow
- · Compact installation dimensions
- High pressure
- Low noise level

Type		SVH 062	SVH 092	SVH 112	SVH 130
Geometric displacement V <sub>g</sub>	cu in/rev.	3.81	5.32	6.74	7.93
Nom. pressure p <sub>nom</sub>	psi	5076	5076	5076	5800
Pressure p <sub>max</sub>	psi	5800	5800	5800	6527
Angle of the swash plate		21.5°	21.5°	21.5°	21.5°
Required inlet pressure (absolute) for open circuit	psi	12.3	12.3	12.3	12.3
Max. permissible inlet pressure, absolute	psi	29.0	29.0	29.0	29.0
Max. permissible housing pressure, absolute	psi	43.5	43.5	43.5	43.5
Max. permissible drive torque (flange/shaft)	lb-ft	317	391	664	664
Max. torque for the pump (with power controller)	lb-ft	317	391	443	516
Max. permissible torque for the thru-shaft, dep. on flange	lb-ft	73.8	391	443	516
Max. rev. rating when self priming and max. angle of the swash plate at 1 bar absolute inlet pressure	rpm	2500	2300	2200	2100
Min. rev. rating for permanent running	rpm	500	500	500	500
Required torque at 1450 psi	lb-ft	73.8	111	136	170
Drive power for 3626 psi and 2000 rpm	hp	71.1	107	130	161
Mass (weight) complete with controller	lb	52.9	59.5	66.1	67.9
Tare weight torque	lb-ft	22.1	26.0	29.5	29.5
Inertia moment	lb in <sup>2</sup>	17.1	27.3	34.2	37.6
Sound level at 3626 psi, 1500 rpm and max. swash plate angle (Measured in a sound measuring room DIN ISO 4412, distance 39,4 in)	dB(A)	75	75	75	75







#### **SVH 062-130 SAE**



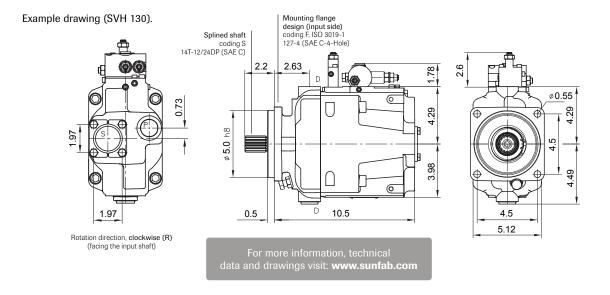
## Sunfab SVH SAE is a variable axial piston pump for load sensing systems, designed for direct installation on the truck's power take-off.

SVH supports a maximum pressure up to 6527 psi, and is available in the sizes 3.81, 5.32, 6.74 and 7.93 cu in/rev. It is intended for use on forestry cranes, general cargo cranes, suction vehicles, refuse collection vehicles, etc. SVH variable pumps uniquely feature a slim pump housing which permits direct mounting on the power take-off.

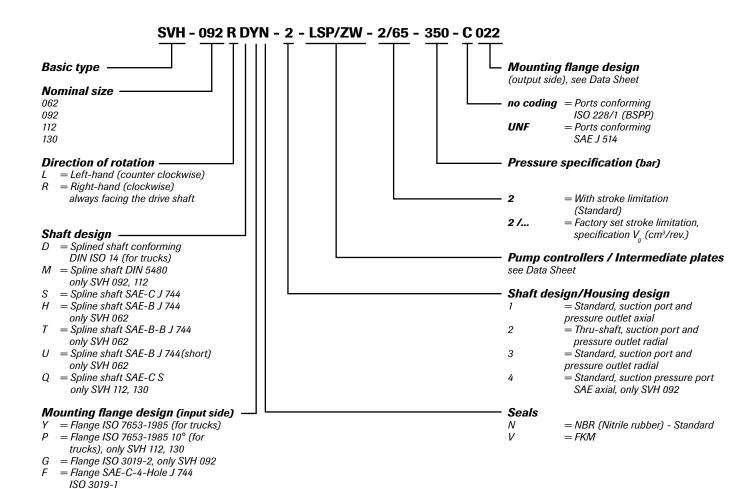
#### Other advantages:

- Short reaction time when resetting the flow
- · Compact installation dimensions
- High pressure
- Low noise level

Туре		SVH 062	SVH 092	SVH 112	SVH 130
Geometric displacement V <sub>g</sub>	cu in/rev.	3.81	5.32	6.74	7.93
Nom. pressure p <sub>nom</sub>	psi	5076	5076	5076	5800
Pressure p <sub>max</sub>	psi	5800	5800	5800	6527
Angle of the swash plate		21.5°	21.5°	21.5°	21.5°
Required inlet pressure (absolute) for open circuit	psi	12.3	12.3	12.3	12.3
Max. permissible inlet pressure, absolute	psi	29.0	29.0	29.0	29.0
Max. permissible housing pressure, absolute	psi	43.5	43.5	43.5	43.5
Max. permissible drive torque (flange/shaft)	lb-ft	317	391	664	664
Max. torque for the pump (with power controller)	lb-ft	317	391	443	516
Max. permissible torque for the thru-shaft, dep. on flange	lb-ft	73.8	391	443	516
Max. rev. rating when self priming and max. angle of the swash plate at 1 bar absolute inlet pressure	rpm	2500	2300	2200	2100
Min. rev. rating for permanent running	rpm	500	500	500	500
Required torque at 1450 psi	lb-ft	73.8	111	136	170
Drive power for 3626 psi and 2000 rpm	hp	71.1	107	130	161
Mass (weight) complete with controller	lb	52.9	59.5	66.1	67.9
Tare weight torque	lb-ft	22.1	26.0	29.5	29.5
Inertia moment	lb in <sup>2</sup>	17.1	27.3	34.2	37.6
Sound level at 3626 psi, 1500 rpm and max. swash plate angle (Measured in a sound measuring room DIN ISO 4412, distance 39,4 in)	dB(A)	75	75	75	75



## **Versions, Variable Pumps**



#### Description of pump controllers, SVH 062, 092, 112 & 130:

**LSP** = Load-Sensing controller with integrated pressure limitation.

= Flange SAE-B-4-Hole J 744 ISO 3019-1, only SVH 062 = Flange SAE-B-2-Hole-45°offset J 744 ISO 3019-1, only SVH-062

**P** = Pressure controller, adjustable directly at the pump. The Pressure controller automatically maintains a constant system pressure independent of the required flow. Therefore it is ideally suited for constant pressure systems, where differing flow is required or as efficient pressure limitation of the hydraulic system.

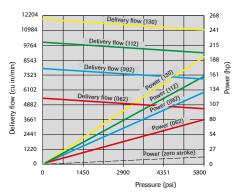
/ZL (SVH 062, 092, 112) = Intermediate plate with power controller (torque limitation) "Pressure x Displacement" is held constant.

Adjustment range: 25-100% of max. drive torque.

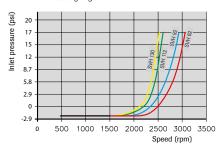
**/ZW** = Angled intermediate plate (45°) mandatory for mounting controller at pumps with radial inlet and outlet.

/L (SVH 130) = Power controller for SVH 130. Adjustment range: 147-516 lb-ft

#### Flow and Power Charts show flow/pressure (without controller). Power at max. setting angle and power at min.setting angle and 1500 rpm



Inlet pressure (LSNR-controller) Graph valid at viscosity 75 cSt at max. setting angle.





### **Motors fixed**

#### **SCM 010-130 ISO**



### SCM 010-130 ISO is a range of robust axial piston motors especially suitable for mobile hydraulics.

SCM 010-130 ISO is of the bent-axis type with spherical pistons. The design results in a compact motor with few moving parts, high starting torque and high reliability. It covers the entire displacement range 0.59 - 7.93 cu in/rev. at a maximum pressure of 5800 psi. The motor's well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics. The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

#### Other advantages:

- · High maximum speed
- Smooth operation over the entire speed range
- Available in many different configurations of shafts and connections
- High efficiency
- · Speed sensor available as option
- Suitable for applications with high angular accelerations due to its high rotary stiffness (timing gear)

SCM 010-130 ISO		010	012	017	025	034	040	047	056	064	084	090	108	130
Displacement	cu in/rev	0.59	0.77	1.04	1.55	2.09	2.51	2.87	3.46	3.88	5.10	5.53	6.59	7.93
Working pressure														
max intermittent	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075
max continuous		5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	4350
Revolutions														
max intermittent	rpm	8800	8800	8800	7000	7000	6300	6300	6300	6300	5200	5200	5200	5200
max continuous		8000	8000	8000	6300	6300	5700	5700	5700	5700	4700	4700	4700	4700
min continuous		300	300	300	300	300	300	300	300	300	300	300	300	300
Power														
max intermittent	hp	55	72	99	115	154	168	194	235	261	288	308	369	382
max continuous		20	27	34	54	74	80	87	107	121	134	148	174	181
Starting torque theoretical value	lb-ft/1000psi	8	10	14	20	27	33	38	45	51	68	73	87	104
Mass moment of inertia (x 10 <sup>-3</sup> )	lb-ft-sec <sup>2</sup>	0.7	0.7	0.7	0.8	0.8	1.9	1.9	1.9	1.9	5.5	5.5	5.5	5.5
Weight	lb	18.7	18.7	18.7	20.9	20.9	36.4	36.4	36.4	36.4	61.7	61.7	67.2	67.2

#### Information about technical data

Data concerning RPM is based on maximum permitted peripheral velocity for the tapered roller bearings.

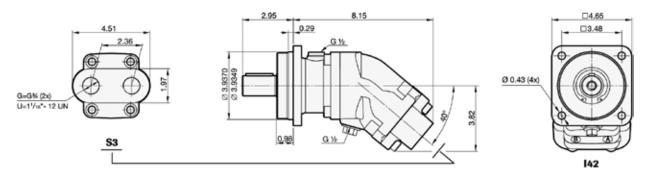
Max intermittent power may depend on application. For further information please contact Sunfab.

Continuous power data is based on maximum output power without external cooling of the motor housing.

Intermittent duty is defined as follows: max 6 seconds per minute, e.g. peak RPM when unloading or accelerating.

#### Example drawing.

#### SCM 025-034 ISO





#### SCM 010-130 SAE / SAE B2



### Sunfab's SCM 010-130 SAE is a range of robust axial piston motors especially suitable for mobile hydraulics.

SCM 010-130 SAE is of the bent-axis type with spherical pistons. The design results in a compact motor with few moving parts, high starting torque and high reliability. It covers the entire displacement range 0.59 - 7.93 cu in /rev. at a maximum pressure of 5800 psi. It features double tapered roller bearings, which permits high shaft loads and gives superb speed performance.

The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

Sunfab also offers a two hole flange, SAE B2 010-034.

#### Other advantages:

- · High maximum speed
- Smooth operation over the entire speed range
- · Available in many different configurations of shafts and connections
- High efficiency
- Speed sensor available as option
- Suitable for applications with high angular accelerations due to its high rotary stiffness (timing gear)

SCM 010-130 SAE		010	012	017	025	025	034	034	040	047	056	064	084	084	090	090	108	108	130
		SAEB	SAE B	SAE B	SAE B	SAE C	SAE B	SAE C	SAEC	SAEC	SAE C	SAE C	SAEC	SAE D	SAEC	SAE D	SAEC	SAE D	SAE D
Displacement	cu in/rev	0.59	0.77	1.04	1.55	1.55	2.09	2.09	2.51	2.87	3.46	3.88	5.10	5.10	5.53	5.53	6.59	6.59	7.93
Working pressure																			
max intermittent	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075
max continuous		5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	4350
Revolutions																			
max intermittent	rpm	8250	8250	8250	6500	6500	6500	6500	5900	5900	5900	5900	4800	4600	4800	4600	4800	4600	4600
max continuous		7500	7500	7500	5900	5900	5900	5900	5300	5300	5300	5300	4400	4200	4400	4200	4400	4200	4200
min continuous		300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Power																			
max intermittent	hp	55	67	94	107	107	147	147	161	181	221	241	268	255	288	275	342	328	342
max continuous		20	27	34	54	54	74	74	80	87	107	121	134	134	148	148	174	174	181
Starting torque theoretical value	lb-ft/1000psi	8	10	14	20	20	27	27	33	38	45	51	68	68	73	73	87	87	104
Moment of inertia (x 10 <sup>-3</sup> )	lb-ft-sec <sup>2</sup>	0.7	0.7	0.7	0.8	0.8	0.8	0.8	1.9	1.9	1.9	1.9	4.7	5.5	4.7	5.5	4.7	5.5	5.5
Weight	kg	19.8	19.8	19.8	19.8	19.8	19.8	19.8	33.1	33.1	33.1	33.1	39.7	77.1	39.7	77.1	39.7	77.1	77.1

#### Information about technical data

Data concerning RPM is based on maximum permitted peripheral velocity for the tapered roller bearings.

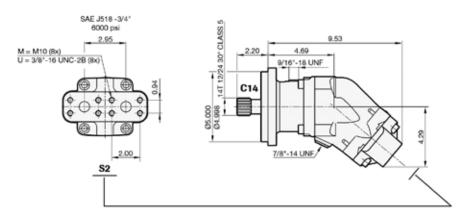
Max intermittent power may depend on application. For further information please contact Sunfab.

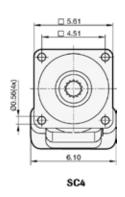
Continuous power data is based on maximum output power without external cooling of the motor housing.

Intermittent duty is defined as follows: max 6 seconds per minute, e.g. peak RPM when unloading or accelerating.

#### Example drawing.

#### SCM 040-064 SAE





### **Motors fixed**

#### SCM 025-108 M2



#### Sunfab's SCM 025-108 M2 is a range of robust axial piston motors with cartridge flange especially suitable for winch-, slewing-, wheel- and track drives.

SCM 025-108 M2 is of the bent-axis type with spherical pistons. The design results in a compact motor with few moving parts, high starting torque and high reliability. The SCM 025-108 M2 covers the entire displacement range 1.55-6.59 cu in/rev. at a maximum pressure of 5800 psi.

The motor's well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics. The high level of reliability is based on the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

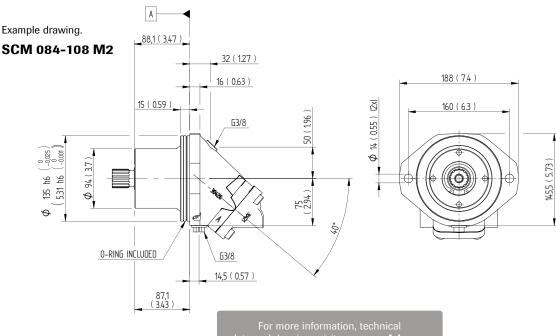
#### Other advantages:

- High maximum speed
- Smooth operation over the entire speed range
- High efficiency
- Suitable for applications with high angular accelerations due to its high rotary stiffness (timing gear)

SCM 025-108 M2		025	034	040	047	056	064	084	090	108
Displacement	cu in/rev	1.55	2.09	2.51	2.87	3.42	3.88	5.10	5.53	6.59
Working pressure										
max intermittent	psi	5800	5800	5800	5800	5800	5800	5800	5800	5075
max continuous		5075	5075	5075	5075	5075	5075	5075	5075	4350
Revolutions										
max intermittent	rpm	7000	7000	6300	6300	6300	6300	5200	5200	5200
max continuous		6300	6300	5700	5700	5700	5700	4700	4700	4700
min continuous		300	300	300	300	300	300	300	300	300
Power										
max intermittent	hp	115	154	168	194	235	261	288	308	308
max continuous		54	74	80	87	107	121	134	148	148
Starting torque theoretical value	lb-ft/1000psi	20	27	33	38	45	51	68	73	87
Moment of inertia (x 10 <sup>-3</sup> )	lb-ft-sec <sup>2</sup>	0.8	8.0	1.9	1.9	1.9	1.9	5.5	5.5	5.5
Weight	lb	24.2	24.2	40.3	40.3	40.3	40.3	57.3	57.3	57.3

#### Information about technical data

Data concerning RPM is based on maximum permitted peripheral velocity for the tapered roller bearings. Max intermittent power may depend on application. For further information please contact Sunfab. Continuous power data is based on maximum output power without external cooling of the motor housing. Intermittent duty is defined as follows: max 6 seconds per minute, e.g. peak RPM when unloading or accelerating.





#### **SAM 010-130 DIN**



## SAM 010-130 DIN is a series of light weight casing axial piston motors, particularly suitable for mobile hydraulics. SAM 010-130 DIN is of the bent-axis type with spherical pistons.

The design gives a compact motor with few moving parts, high starting torque and high operational reliability. It covers the entire displacement range 0.59 - 7.93 cu in/rev. with a maximum pressure of 5075 psi.

The high level of reliability is due to the choice of materials, hardening methods, surface structures and the quality assured manufacturing process.

#### Other advantages:

- Corrosion free light metal-housing
- Smooth operation over the entire speed range
- High efficiency
- Suitable for applications with high angular accelerations due to its high rotary stiffness (timing gear)
- · Light weight
- Less heat generation due to better ability to dissipate heat through housing

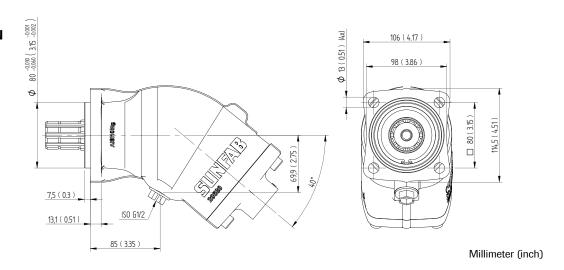
SAM 010-130 DIN		010	012	017	025	034	040	047	056	064	084	090	108	130
Displacement	cu in/rev	0.59	0.77	1.04	1.55	2.09	2.51	2.87	3.42	3.88	5.10	5.53	6.59	7.93
Working pressure														
max intermittent	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	4785
max continuous		5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	5075	4060
Revolutions														
max intermittent	rpm	3000	3000	3000	3000	3000	2500	2500	2500	2500	2000	2000	2000	2000
max continuous		2400	2400	2400	2400	2400	2000	2000	2000	2000	1600	1600	1600	1600
min continuous		300	300	300	300	300	300	300	300	300	300	300	300	300
Power														
max intermittent	hp	19	24	32	48	66	76	87	105	118	125	136	161	166
max continuous		15	19	25	39	52	62	70	83	54	99	110	129	133
Starting torque theoretical value	lb-ft/1000psi	8	10	14	20	27	33	38	45	51	67	73	87	105
Moment of inertia (x 10 <sup>-3</sup> )	lb-ft-sec <sup>2</sup>	0.7	0.7	0.7	0.8	0.8	1.9	1.9	1.9	1.9	5.5	5.5	5.5	5.5
Max intermittent housing pressure	psi	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	75.5	72.5	72.5
Weight	lb	15.2	15.2	15.2	15.7	15.7	21.6	21.6	21.6	21.6	30.6	30.6	30.6	30.6

#### Information about technical data

Intermittent operation refers to a max of 6 seconds per minute, representing e.g. peaks in rotational speed during unloading and acceleration.

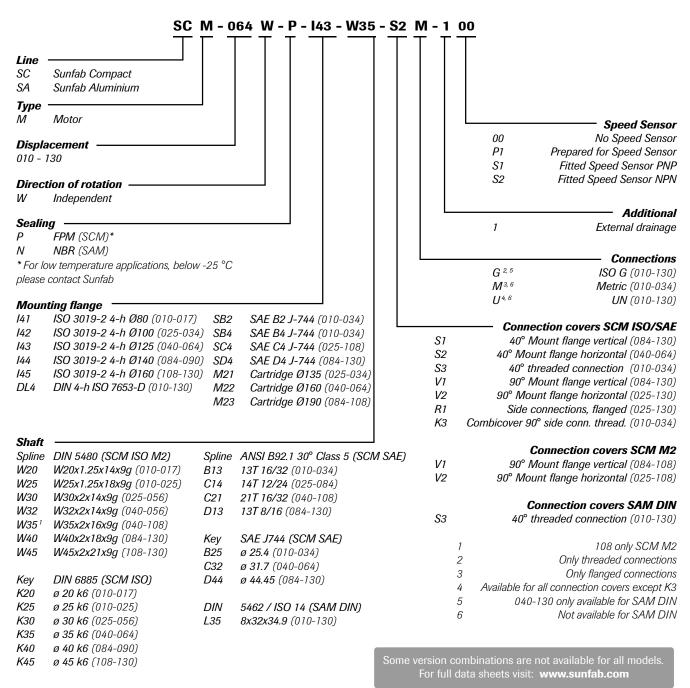
#### Example drawing.

#### **SAM 040-064 DIN**



## **Versions, motors**





Shaft seal

#### Max. housing pressure psi at rpm

SCM	Code	1500	3000	5200	6300	7000 (M2)	8250 (SAE)	8800 (ISO)	
010-034	Р	7	7	4	3.5	3	2.5	2.5	
040-064	Р	7	6	3.5	3	-	-	-	
084-130	Р	7	4	3	-	-	-	-	

Code according to diagram above.

For low temperature applications, below -13 °F please contact Sunfab. The drainage oil should have a maximum temperature of 239 °F with the P shaft seal. This temperature must not be exceeded.

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

To ensure the function of the shaft seal and lubrication of the motor, we recommend a min. housing pressure of 7 psi. If needed, a spring loaded check valve of 7 psi can be installed **on the housing drain line**.



### **Accessories**



### **Splitter Gearbox**



**Tracpower PTO** 



## Sunfab By-Pass is a relief valve for the SCP and SAP pump providing remote switching between idling and operation.

By-Pass is used in installations where the power take-off is not disengaged during transport. These are usually found on vehicles fitted with hydraulic equipment that needs to be operated while on the move, for example, road maintenance vehicles, concrete mixers, refuse collection trucks, etc.

#### Other advantages:

- Symmetrical design supports installation of the magnetic valve in different directions, and use on both right and left-hand rotating pumps
- Deutsch connector IP69
- Highly efficient due to low pressure drop

## Splitter gearbox SZ mounted in a frame bracket, permits the assembly of two pumps on the same power take-off.

Splitter gearbox SZ provides unlimited freedom to combine pumps with different size flows.

#### Other advantages:

- Suitable for all Sunfab pumps with DIN flange
- Can be mounted horizontally or vertically

## Tracpower increases the speed of the tractor's power take-off 2.5 times, which gives better conditions for hydraulic operation.

Tracpower is the solution when the tractor's original hydraulics do not give sufficiently large flow and pressure.

#### Other advantages:

- Suitable for all Sunfab pumps with DIN flange
- Can be mounted horizontally or vertically



#### Sunfab has a wide range of accessories that facilitates the mounting of pumps and motors

In applications where it is not possible to directly mount a pump or motor, Sunfab has a wide range of adapters, flanges and brackets to help facilitate

the installation. For example mounting on a countershaft due to lack of space, two or more pump gearboxes and compressors.

### **Adapter & Flanges**

- Adapters
- Adapter flanges
- Splined drive flanges
- Neutral drive flanges

### Suspensions

- Frame attachments
- Pump brackets
- Intermediate Shaft



### **Accessories**



#### **Anti-cavitation Valve for SCM**



#### Flushing Valve for SCM



**Speed Sensor for SCM** 



#### **Injector**



## The Sunfab anti-cavitation valve is designed to be mounted directly on the hydraulic motor and prevents cavitation problems when the load is running down.

Sunfab's anti-cavitation valve is used to minimise the risk of cavitation damage in connection with insufficient inlet pressure.

This can occur, for example, in applications with a relatively large rotating mass with a long run-down time (e.g. fan operations). The hydraulic motor must have a defined direction of rotation when using Sunfab's anti-cavitation valve. The valve can be adapted to both left and right rotation.

### The flushing valve is required when operating at high speeds and power levels.

The flushing valve ensures that the oil temperature inside the motor housing remains at the recommended level. Excessively high temperatures reduce the service-life of the shaft seal and the viscosity of the oil deteriorates.

## For hydraulic motors that require a specific given speed Sunfab offers a speed sensor with electronic measurement.

Sunfab speed sensor is available for any ISO/SAE motor, displacement 0.59-7.93 cu in/rev. The sensor is a two channel hall effect sensor. The sensor has two frequency outputs both giving square wave signals, phase shifted. It can operate at high temperatures. The frequency is determined by:

$$f = \frac{30*n}{60} = \frac{n}{2}$$
, n (rpm)

#### Other benefits:

- It can operate at high temperatures.
- The speed is detected from the gears on the cylinder block. Since the sensor is working with two channels the rotation direction can be detected.
- The number of gears is 30 for all motor displacements.
- Motors manufactured prepared for speed sensor can also have a sensor fitted afterwards.

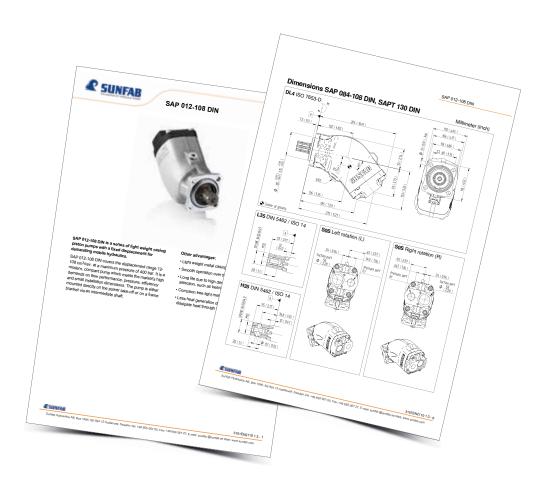
#### Sunfab Injector K-JET 2 is a basic technical solution for the recirculation of oil in closed hydraulic systems which is cost efficient and saves weight.

K-JET 2 recirculates the oil with an injector. This function replaces the previous standard of feed pressure pumps as compensation for leakage oil losses in the main circuit and any scavenging pumps for the cooling and filtering circuits.

#### Other advantages:

- Significantly higher pump speed
- Reduced tank size and oil volume. Only 15-20 % of the main pump flow
- Lower weight through smaller oil tanks
- · Lower cost for oil





Find all our data sheets on our web page:  $\boldsymbol{www.sunfab.com}$ 

## **Development**

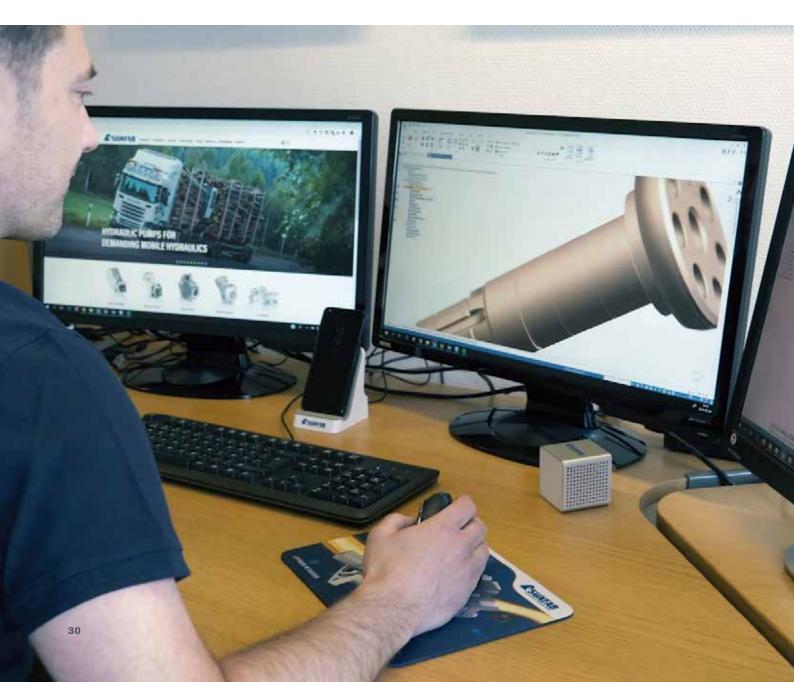
#### Sunfab's product quality is world famous.

Our Pumps and Motors undergo stringent testing in our own lab and test rigs during production to ensure unsurpassed reliability in the field. Our state of the art production facility employs only the most experienced CNC operators and Service Technicians.

Cutting edge technology, together with high quality sensors and control components, produce the requisite conditions for structured and accurate measurement results.

Our Design Department is pleased to answer customers' technical questions on the e-mail address tech@sunfab.se.





## **Production**

#### **Proven production ensures quality**

We are convinced our manufacturing expertise and know-how are key ingredients in our continuing success.

That's why we manufacture all core components in-house, ensuring that our products live up to their well known quality and high performance.





## **Our service features**

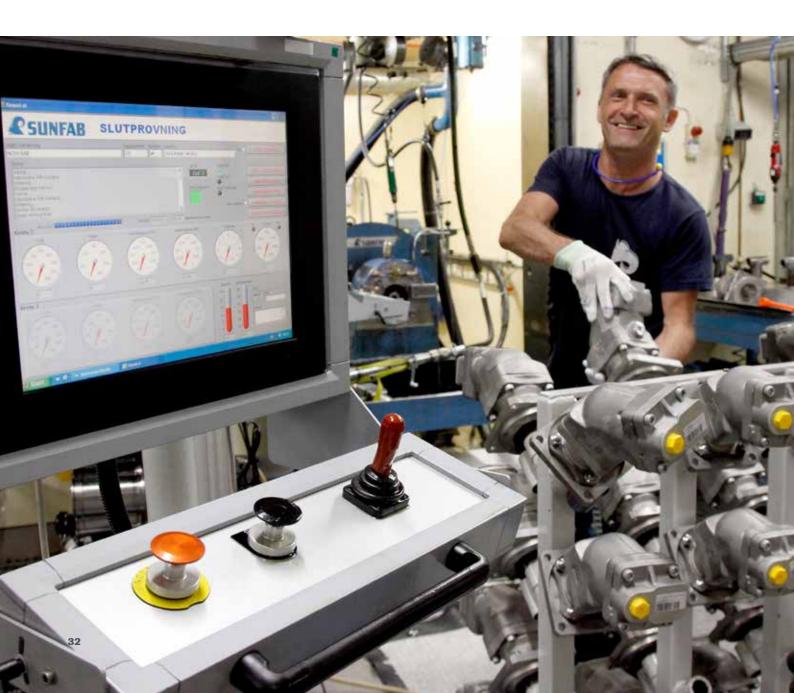
#### We are at your service. It is always easy to find the right contact person in our company.

The service line offers fast help. Please send your technical questions to: tech@sunfab.se

On the website www.sunfab.com you can find the newest datasheets, installation guides and news.

In warranty matters, we always strive to provide a quick response and analysis.

If you require further information about our products, please send an email to: sunfab@sunfab.se



## **Quality & Environment**

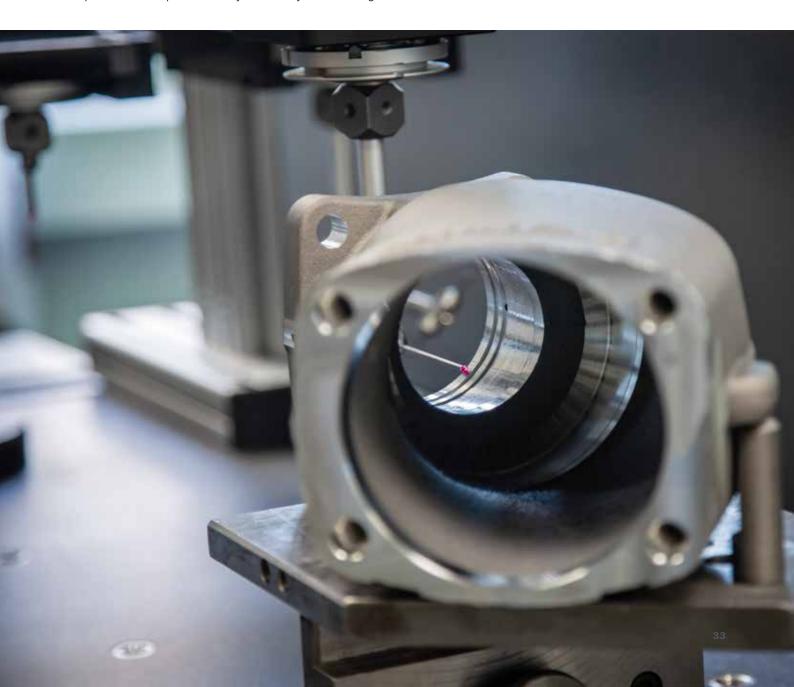
A series of factors have accounted for Sunfab's success in the market. Creative and innovative development and long-term work have been combined with stringent demands on environmental accountability, function, quality and components.

Our ability to listen to the real needs of our customers provides the essential impulses for driving developments forward and creating new, improved products. The commitment, sense of responsibility and creativity of our employees are other key factors. We strive to make continual improvements in all areas of our business, which is registered under the ISO 9001:2008 and ISO 14001:2004 standards.

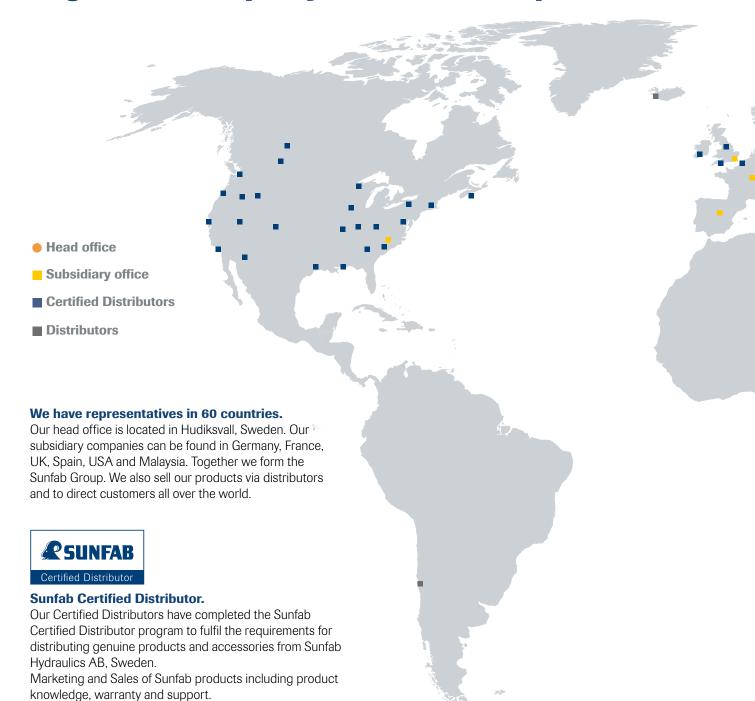
We are constantly upgrading our machinery to ensure we always work with state-of-the-art production equipment and we have total control of the whole manufacturing process that takes place in our own factory in Sweden. At each state of product development, we systematically select design

and production solutions that provide optimal performance and reliability.

Before being released onto the market, all products are subjected to a gruelling series of tests, both in the laboratory and in practice. Since 1995, the demand for our hydraulic pumps and motors has accelerated and sales have tripled. In 2006, to satisfy the demands and needs of the market, we carried out our largest ever investment programme - the construction of a 3,500 sqm workshop area. The new factory was integrated with the existing facilities to offer maximum efficiency.



## A global company with a local presence



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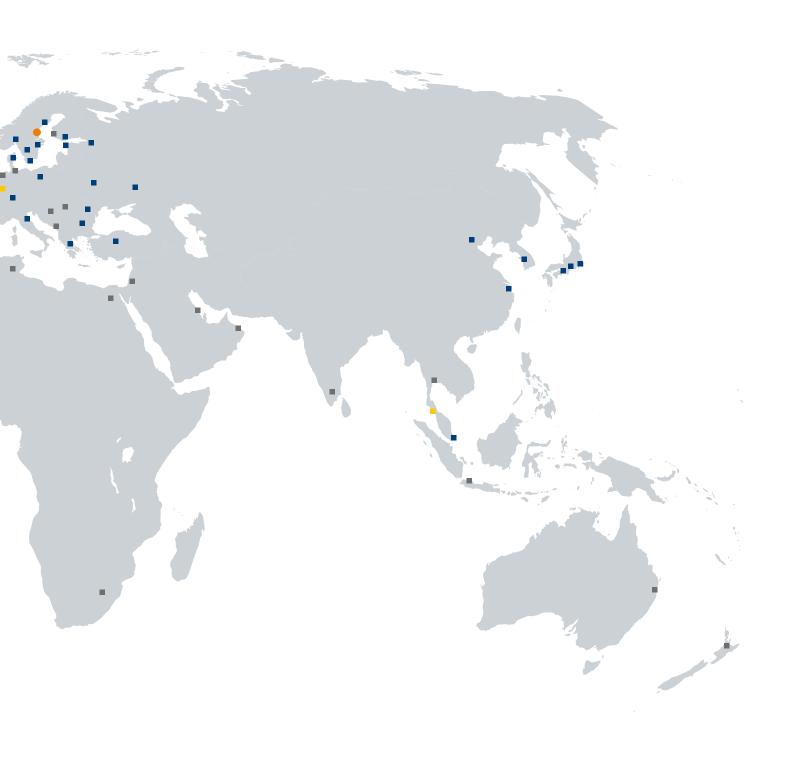
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3003US2502 Rev 1.1