

Agency of



وكلاء

Pumps



From 12 to 130 cm³/rev, 30 to 40 MPa intermittent working pressure, single or double flow, fixed and variable flow, in DIN, ISO and SAE design, for mobile and industrial applications. Sunfab's product range of hydraulic pumps is among the most complete ones in the world.



Motors



From 12 to 130 cm³/rev, up to 40 MPa intermittent working pressure, up to 8800 rpm, in ISO, SAE (2- and 4 bolt flange) DIN and plug-in design, with splined or key shaft and many variants of connection covers. Sunfab has nearly 700 versions of motors which meet high performance requirements.



Accessories



Connections, power take-offs, bypass valves, oil tanks and many more accessories are part of Sunfab's range.



Agency of



وكلاء

--- PUMPS ---

PUMP SCP 012-130 ISO



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

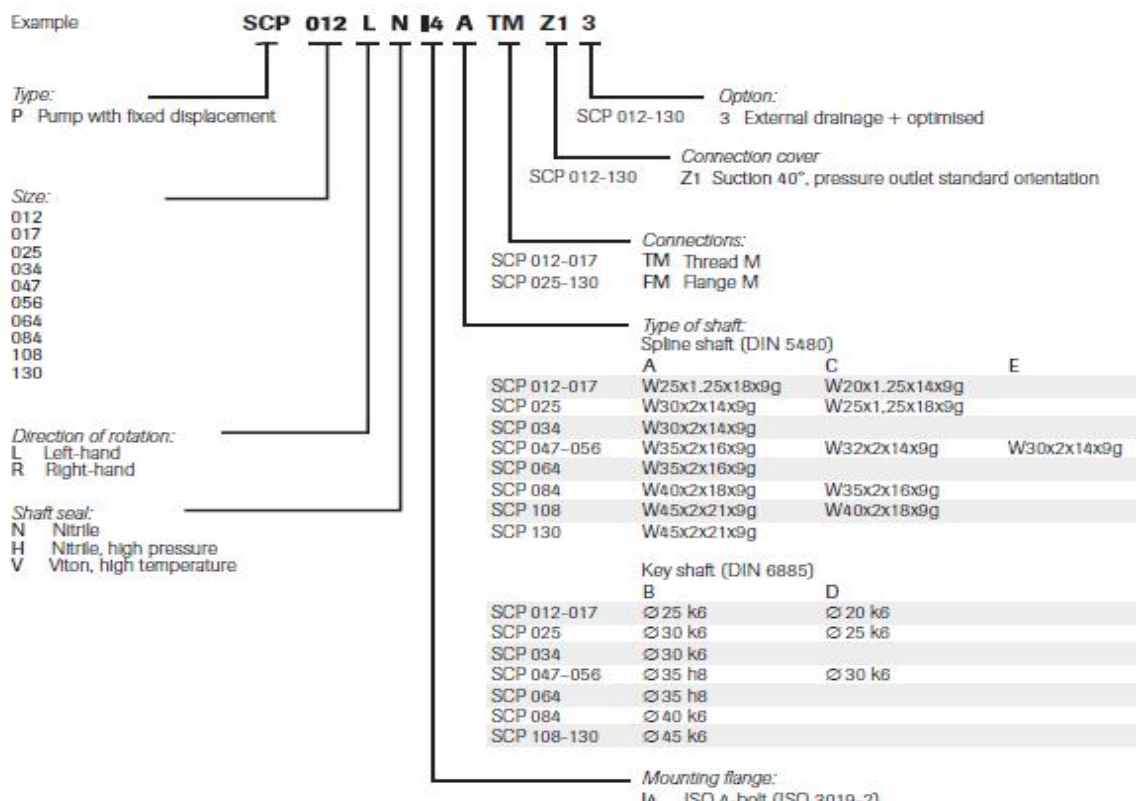
SUNFAB SCP-ISO covers the entire displacement range 12-130 cm³/rev. at a maximum working pressure of 40 MPa.

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

The pump is drained externally. SUNFAB CP-ISO is speed optimized and therefore supplied in either left (L) or right (R) handed designs.

Type SCP-ISO			012	017	025	034	047	056	064	084	108	130
Nominal oil flow at pump speed	RPM						GPM					
		500	1.5	2.1	3.3	4.5	6.2	7.4	8.4	11.0	14.3	17.2
		1000	3.2	4.3	6.6	9.0	12.4	14.8	16.8	22.0	28.5	34.3
		1500	4.8	6.5	9.9	13.5	18.6	22.2	25.2	33.0	42.8	51.5
Displacement	cu in/rev.	0.77	1.04	1.55	2.09	2.87	3.42	3.88	5.10	6.59	7.93	
Max working pressure	psi	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075	
Max pump speed	$n_{\max}^{(1)}$	RPM	3300	3200	2550	2250	2200	2100	2050	1700	1700	1600
	$n_{\max}^{(2)}$	RPM	6000	5700	4700	4550	4300	3750	3700	3350	3000	2900
Max power	hp	34	34	54	67	87	101	114	121	161	161	
Weight	lb	16.5	16.5	18.7	18.7	34.2	34.2	34.2	59.5	65.0	65.0	
Mass moment of inertia (x 10 ⁻³)	lb-ft-sec ²	0.7	0.7	0.8	0.8	1.9	1.9	1.9	5.5	5.5	5.5	
Direction of rotation	supplied in right or left-hand designs											

Example



Agency of



وكلاء

PUMP SC 5012-5108 SAE



- SUNFAB Sc is a series of piston pumps with a fixed displacement for exacting mobile hydraulics.

Series 500 of SUNFAB SC pumps are equipped with shafts and flanges according to the SAE-B and SAE-C standard. They are available in the range from 12-108 cm³.

SUNFAB SC is a modern, compact pump which meets the market's high demands on flow performance, pressure efficiency and small installation dimensions.

SUNFAB SC is either mounted directly on the power take off or on a frame bracket via an intermediate shaft. The stop shoulder on the angle housing allows the pump's direction of rotation to be changed without the risk of altering the gear meshing.

Type SC		5012	5017	5025	5034	5040	5047	5056	5064	5040	5047	5056	5064	5084	5108
Theoretical oil flow at pump speed RPM		GPM								GPM					
	500	1.67	2.25	3.35	4.52	5.44	6.22	7.40	8.40	5.44	6.22	7.40	8.40	11.04	14.27
	1000	3.33	4.50	6.70	9.04	10.88	12.44	14.79	16.80	10.88	12.44	14.79	16.80	22.08	28.53
	1500	5.0	6.75	10.05	13.56	16.32	18.66	22.19	25.20	16.32	18.66	22.19	25.20	33.12	42.80
Displacement	cu in/rev.	0.77	1.04	1.55	2.09	2.51	2.87	3.42	3.88	2.51	2.87	3.42	3.88	5.10	6.59
Max pump speed: <i>continuous</i> <i>limited</i>	RPM	2300	2300	2300	2300	1900	1900	1900	1900	1900	1900	1900	1900	1500	1500
		3000	3000	3000	3000	2500	2500	2500	2500	2500	2500	2500	2500	2000	2000
Max working pressure	psi	5800	5800	5800	5800	5800	5800	5800	5075	5800	5800	5800	5800	5800	5800
Weight	lbs	19.2	19.0	19.6	19.4	27.1	27.1	27.1	26.9	31.5	31.5	31.5	31.1	42.0	41.8
SAE standard		SAE B 13T-16/32DP								SAE C 14T-12/24DP					
	I														
	J	1.61	1.61	1.61	1.61	1.61	1.61	1.61	1.61	2.20	2.20	2.20	2.20	2.20	2.20
	K	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0
	L	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	4.51	4.51	4.51	4.51	4.51	4.51
	P	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	1	1
BPT	Q	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Tare-weight torque	lb-ft	M	5.1	5.1	5.5	5.5	9.6	9.6	9.6	9.6	9.6	9.6	9.6	15.5	15.5
Direction of rotation	can be selected														

PUMP SC 012-108 DIN



- SUNFAB SC is series of piston pumps with a fixed displacement for exacting mobile hydraulics.

SUNFAB SC covers the entire displacement range 12-108 cm³/rev. at a maximum working pressure of 40 MPa. Compact pump which meets the market's high demands in flow performance, pressure, efficiency and small installation dimensions. mounted directly on the power take off or on a frame bracket via an intermediate shaft.

Type SC		012	017	025	034	047	056	064	084	108
Nominal oil flow at pump speed RPM						GPM				
	500	1.5	2.1	3.3	4.5	6.2	7.4	8.4	11.0	14.3
	1000	3.2	4.3	6.6	9.0	12.4	14.8	16.8	22.0	28.5
	1500	4.8	6.5	9.9	13.5	18.6	22.2	25.2	33.0	42.8
Displacement	cu in/rev.	0.77	1.04	1.55	2.09	2.87	3.42	3.88	5.10	6.59
Max pump speed: <i>continuous</i> <i>limited</i>	RPM	2300	2300	2300	2300	1900	1900	1900	1500	1500
		3000	3000	3000	3000	2500	2500	2500	2000	2000
Max working pressure	psi	5800	5800	5800	5800	5800	5800	5075	5800	5800
Weight	lb	18.3	18.3	18.7	18.7	25.8	25.8	25.8	37.5	37.5
Tare-weight torque	lb-ft	M	5.1	5.1	5.5	5.5	9.6	9.6	9.6	15.5
Direction of rotation	Independent									

Agency of



وكلاء

PUMP SVH 062, 092, 112 DIN SAE



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

SUNFAB SVH supports a maximum pressure of 40 MPa, and is available in the size 62, 92 and 112 cm³/rev.

SUNFAB SVH is intended for rigorous use on forestry cranes, general cargo cranes, suction vehicles, etc.

SUNFAB SVH variable pump uniquely feature a slim pump housing which permits direct mounting on the power take off and can also be mounted on a frame bracket via an intermediate shaft.

Type SVH		092	112
Nominal oil flow at max. setting angle and pump speed rpm		l/min	
	500	46	56
	1000	92	112
	1500	138	168
Displacement	cm ³ /rev	92	112
Max. pump speed	rpm	2400	2200
Max. working pressure continuous	MPa	35	35
intermittent	MPa	40	40
Differential pressure	Δp MPa	2.1–3.8	2.1–3.8
Weight	kg	25.8	28.1
Tare-weight torque	Nm	35.3	40.0
Max. torque	Nm	530	600
Direction of rotation	supplied in right or left-hand designs		

PUMP SL 20/20-64/32 DIN



SUNFAB SL is a series of straight double pumps

SUNFAB SL comes in eight different sizes, where three models feature differentiated flow to increase the field of application as they can provide three different flows: one small, one large and one combined flow. Maximum working pressure depending on the model: 33-35 MPa.

SUNFAB SL's slim pump housing makes direct mounting on the power take off possible in very confined areas. SL is also ideal for installation using a frame bracket via an intermediate shaft.

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

Type SL		20/20	28/28	40/20	35/35	56/28	46/46	53/53	64/32
Nominal oil flow at pump speed rpm		l/min							
	500	10+10	14+14	20+10	17.5+17.5	28+14	23+23	26.5+26.5	32+16
	1000	20+20	28+28	40+20	35+35	56+28	46+46	53+53	64+32
	1500	30+30	42+42	60+30	52.5+52.5	84+42	69+69	79.5+79.5	96+48
Displacement	cm ³ /rev.	20.3+20.3	27.5+27.5	40.7+20.3	33.9+33.9	54.9+27.5	45.8+45.8	52.5+52.5	63.0+31.5
Max pump speed	rpm	2200	1800	2200	2200	1800	1800	1600	1600
Max working pressure	MPa	35	35	35	33	35	33	33	35
Weight	kg	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
Dimensions	mm								
	A	133	133	133	133	166	166	166	166
	B	50	50	50	50	64	64	64	64
Tare-weight torque	Nm	26.5	26.5	26.5	26.5	26.5	26.5	26.5	26.5
Direction of rotation	independent								

Agency of



وكلاء

---MOTORS---

MOTOR SCM 012-130 ISO / SAE



SUNFAB SCM is a range of robust axial piston motors especially suitable for mobile hydraulics.

SUNFAB SCM is one of the bent axis types with spherical pistons.

The SCM design results in a compact motor with few moving parts, high starting torque and high reliability.

The SCM covers the entire displacement range 12-130 cm³/rev. at a max. working pressure of 40 MPa. Well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics. SCM High level of reliability is based on the choice of material, hardening method, surface structures and the quality assured manufacturing process.

Type		012	017	025	034	040	047	056	064	084	090	108	130
Displacement	cm ³ /rev.	12.6	17.0	25.4	34.2	41.2	47.1	56.0	63.5	83.6	90.7	108.0	130.0
Working pressure													
max. intermittent	MPa	40	40	40	40	40	40	40	40	40	40	40	35
max. continuous	MPa	35	35	35	35	35	35	35	35	35	35	35	30
Revolutions													
max. intermittent	rpm	8800	8800	7000	7000	6300	6300	6300	6300	5200	5200	5200	5200
max. continuous	rpm	8000	8000	6300	6300	5700	5700	5700	5700	4700	4700	4700	4700
min. continuous	rpm	300	300	300	300	300	300	300	300	300	300	300	300
Power													
max. intermittent	kW	54	74	86	115	125	145	175	195	215	230	275	285
max. continuous	kW	20	25	40	55	60	65	80	90	100	110	130	135
Start torque theoretical value	Nm/MPa	2.0	2.7	4.0	5.4	6.6	7.5	8.9	10.0	13.3	14.4	17.1	20.5
Mass moment of inertia (x 10 ⁻³)	kg m ²	0.9	0.9	1.1	1.1	2.6	2.6	2.6	2.6	7.4	7.4	7.4	7.4
Weight	kg	8.5	8.5	9.5	9.5	16.5	16.5	16.5	16.5	28.0	28.0	30.5	30.5

Example

M - 012 W / N - 14 A / G - S

Type:

M Motor with fixed displacement

Size:

012
017
025
034
040
047
056
064
084
090
108
130

Direction of rotation:

W Independent

Shaft seal:

N Nitrile
H Nitrile, high pressure
V Viton, high temperature

Connection cover

SCM 012-84, 108-130 S Angled 40° to the shaft center line
SCM 012-034 K Combi
SCM 040-084, 108-130 R Side port connection
SCM 040-108 V Angled 90° to the shaft center line

Connections:

G ISO G thread
F Flange (SAE J518, code 62)

Type of shaft:

Spline shaft (DIN 5480)

	A	C	E
SCM 012-017	W25x1.25x18x9g	W20x1.25x14x9g	
SCM 025	W30x2x14x9g	W25x1.25x18x9g	
SCM 034	W30x2x14x9g		
SCM 040-056	W35x2x16x9g	W32x2x14x9g	W30x2x14x9g
SCM 064	W35x2x16x9g		
SCM 084-090	W40x2x18x9g	W35x2x16x9g	
SCM 108	W45x2x21x9g	W40x2x18x9g	
SCM 130	W45x2x21x9g		

Key shaft (DIN 6885)

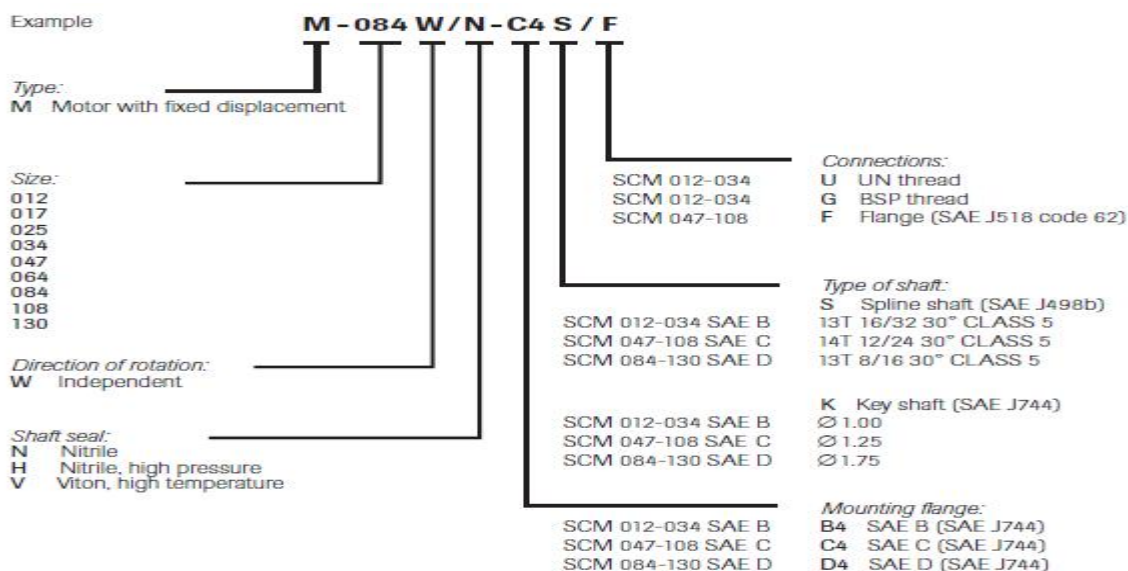
	B	D
SCM 012-017	Ø 0.98	Ø 0.79
SCM 025	Ø 1.18	Ø 0.98
SCM 034	Ø 1.18	
SCM 040-056	Ø 1.38	Ø 1.18
SCM 064	Ø 1.38	
SCM 084-090	Ø 1.57	
SCM 108-130	Ø 1.77	

Mounting flange

Agency of



وكلاء



MOTOR SCM 025-108 M2



SUNFAB SCM is a range of robust axial piston motors especially suitable for mobile hydraulics.

SUNFAB SCM M2 is one of the bent axis types with spherical pistons. The design results in a compact motor with few moving parts, high starting torque and high reliability.

The SCM M2 covers the entire displacement range 25-108 cm³/ rev. at a maximum working pressure of 40 MPa.

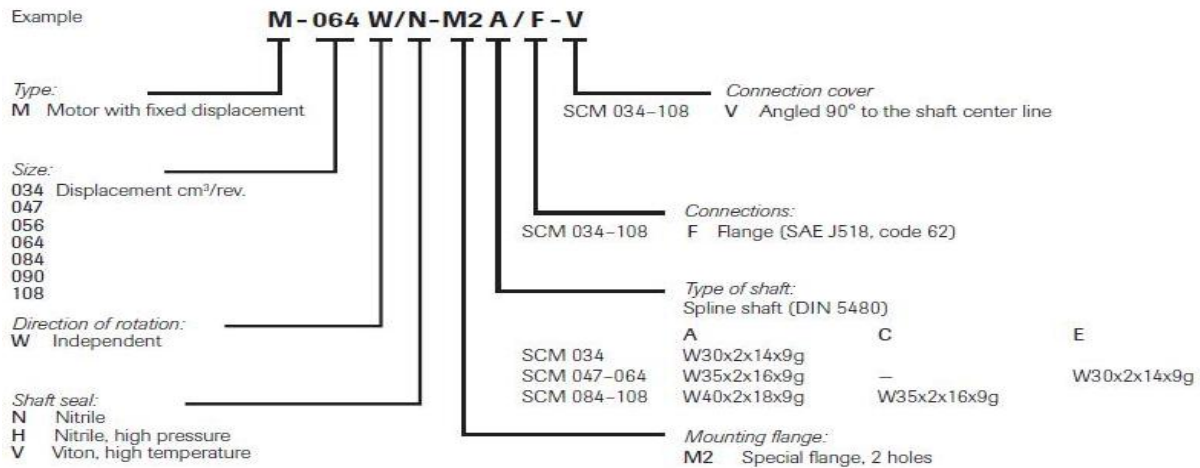
well dimensioned, double tapered roller bearings permit high shaft loads and lead to excellent speed characteristics.

Type		034	047	056	064	084	090	108
Displacement	cm ³ /rev.	34.2	47.1	56.0	63.5	83.6	90.7	108.0
Working pressure								
max. intermittent	MPa	40	40	40	40	40	40	40
max. continuous	MPa	35	35	35	35	35	35	35
Revolutions								
max. intermittent	rpm	7000	6300	6300	6300	5200	5200	5200
max. continuous	rpm	6300	5700	5700	5700	4700	4700	4700
min. continuous	rpm	300	300	300	300	300	300	300
Power								
max. intermittent	kW	115	145	175	195	215	230	275
max. continuous	kW	55	65	80	90	100	110	130
Start torque theoretical value	Nm/MPa	5.4	7.5	8.9	10.0	13.3	14.4	17.1
Mass moment of inertia (x 10 ⁻³)	kg m ²	1.1	2.6	2.6	2.6	7.4	7.4	7.4
Weight	kg	11.0	18.3	18.3	18.3	26.0	26.0	26.0

Agency of



وكلاء



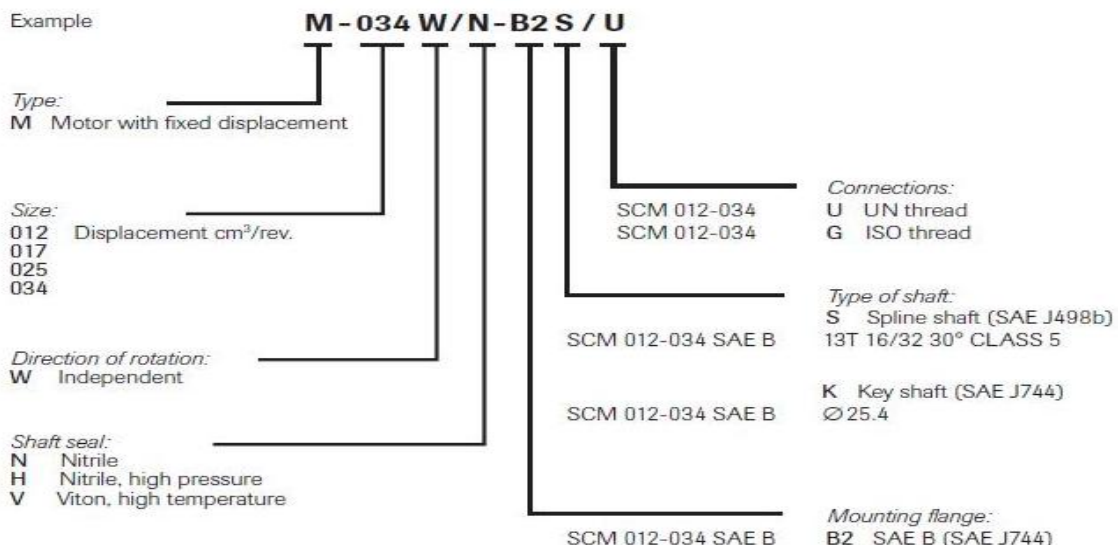
MOTOR SCM 012-034 SAE B2



SUNFAB now expands the SCM family and offers a two-bolt flange, SAE B2 012-034

The design features double tapered roller bearings, which permits high shaft loads and gives superb speed performance.

Type		012	017	025	034
Displacement	cm ³ /rev.	12.6	17.0	25.4	34.2
Working pressure					
max. intermittent	MPa	40	40	40	40
max. continuous	MPa	35	35	35	35
Revolutions					
max. intermittent	rpm	8250	8250	6500	6500
max. continuous	rpm	7500	7500	5900	5900
min. continuous	rpm	300	300	300	300
Power					
max. intermittent	kW	50	70	80	110
max. continuous	kW	20	25	40	55
Start torque theoretical value	Nm/MPa	2.0	2.7	4.0	5.4
Mass moment of inertia (x 10 ⁻³)	kg m ²	0.9	0.9	1.1	1.1
Weight	kg	9.5	9.5	9.5	9.5



Agency of



وكلاء

---ACCESSORIES---

BY- PASS



Is a relief valve for the SC 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 need to be manoeuvred while on the move. For example. Road maintenance vehicle, 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.

Power take off



SUNFAB's power take off is the link between the vehicle and the pump. It can be mounted on the gearbox on the engine.

Splitter gearbox



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

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

Oil tank



Sunfab offers its own range of hydraulic oil tanks 250 ST with a number of functional improvements necessary for high performance hydraulic systems.

Suction connections



Depending on pump size and flow rate you can choose between different suction connections from 32 mm up to 75 mm. available are suction connections in 45°, 90° and straight as well as adaptors for threaded connections.

Agency of



وكلاء

Anti-cavitation valve



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 e.g vacuum pumps.

Flushing valve



The flushing valve is required when operating at high speeds and power levels. The direct mounted valve provides the housing of the motor with a small flow.

Tachometer sensor



For hydraulic motors that require a specific given speed SUNFAB offers a tachometer sensor with electronic speed measurement.