



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 5800psi. 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. Sunfab also offers a two-bolt flange, SAE B2 012-034.

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 light metal-housing
- Less heat generation due to better ability to dissipate heat through housing

Versions, main data

Example

SA	P	-	064	L	-	N	-	SB4	-	B13	-	S0	S	-	0	00
Line	1		2	3		4		5		6		7	8		9	10

Line	
SA	Sunfab Aluminium

1. Type	
P	Pump

2. Displacement	
012 017 025 034 040 047 056 064 084 108	

3. Direction of rotation	
R	Right
L	Left

4. Shaft seal	
N	Nitrile
V*	HNBR

*Can withstand higher temperature, e.g. on engine PTO. Not available for 012-034.

5. Mounting flange		012	017	025	034	040	047	056	064	084	108
SB2	SAE B2	X	X	X	X	-	-	-	-	-	-
SB4	SAE B4	X	X	X	X	X	X	X	X	-	-
SC4	SAE C4	-	-	-	-	X	X	X	X	X*	X*

*SAP 084 & 108 with adapter flange for SC4.

6. Shaft		012	017	025	034	040	047	056	064	084	108
B13*	SAE B 13t	X	X	X	X	X	X	X	X	-	-
C14	SAE C 14t	-	-	-	-	X	X	X	X	X	X

Only with SB2/SB4 mounting flange

- = Not available

X = Standard, preferred

7. Connection cover	
S0	40° Sunfab standard

8. Connections	
S	Sunfab standard

9. Additional	
0	-

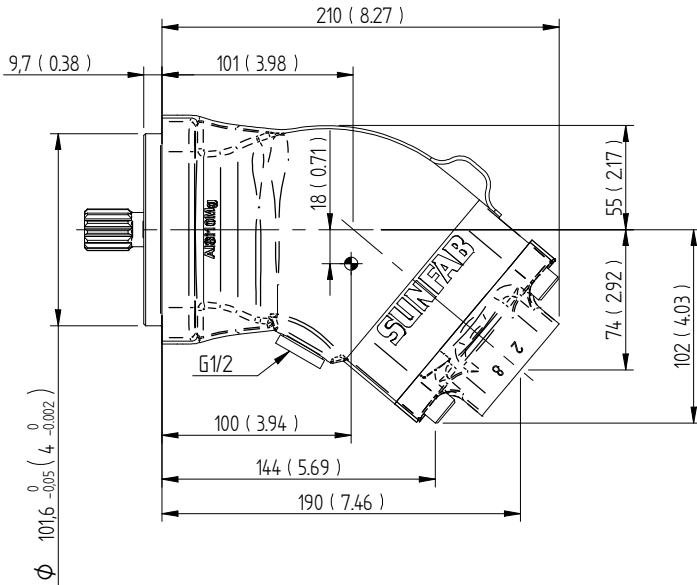
10. Accessories	
00	No accessories available

SAP 012-108 SAE		012 SAE B	017 SAE B	025 SAE B	034 SAE B	040 SAE B	040 SAE C	047 SAE B	047 SAE C	056 SAE B	056 SAE C	064 SAE B	064 SAE C	084 SAE C	108 SAE C
Displacement															
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
Max pump speed															
continuous	rpm	2300	2300	2300	2300	1900	1900	1900	1900	1900	1900	1900	1900	1600	1600
intermittent		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)															

Dimensions SAP 012-034 SAE

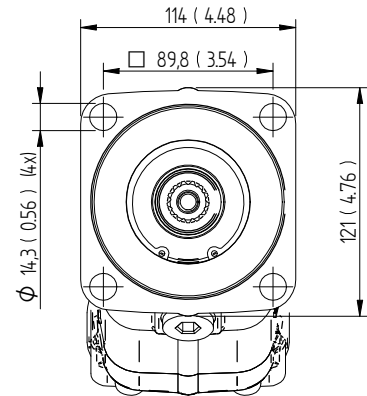
Millimeter (inch)

SB4 / SB2 SAE J744

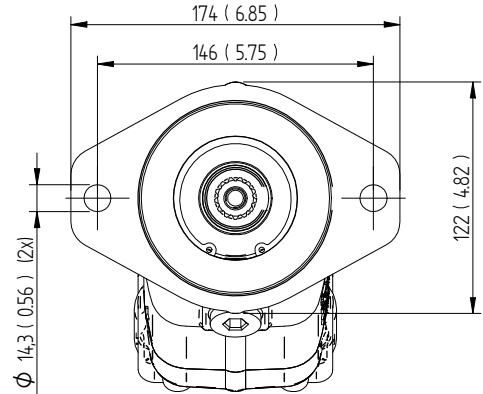


Center of gravity

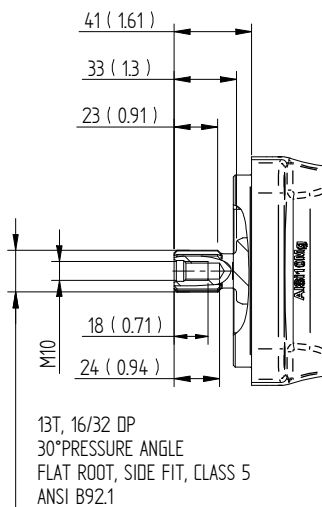
SB4 SAE J744, ID. CODE: 101-4 (B)



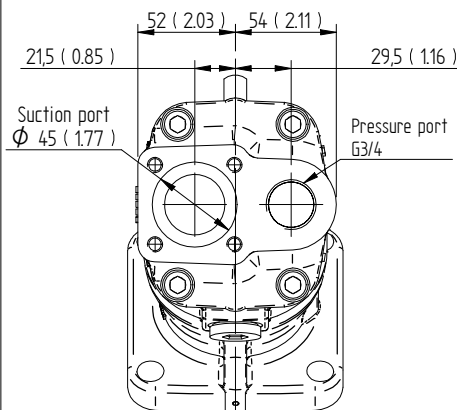
SB2 SAE J744, ID. CODE: 101-2 (B)



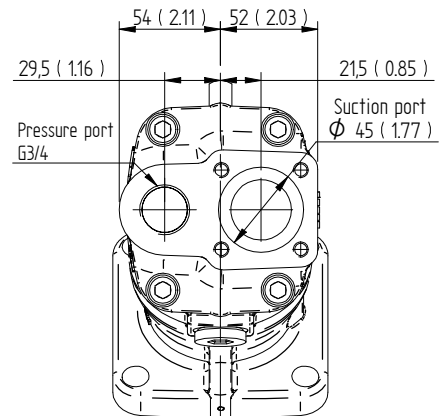
B13 SAE J744, ID. CODE: 22-4 (B)



S0S LEFT ROTATION (L)



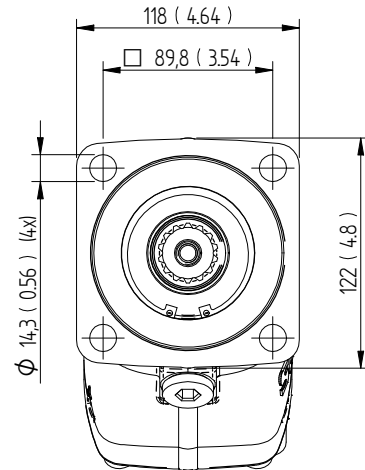
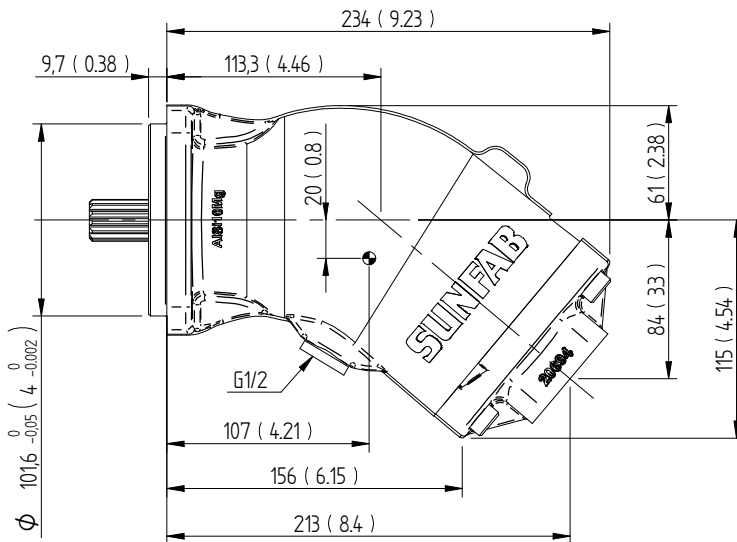
S0S RIGHT ROTATION (R)



Dimensions SAP 040-064 SAE

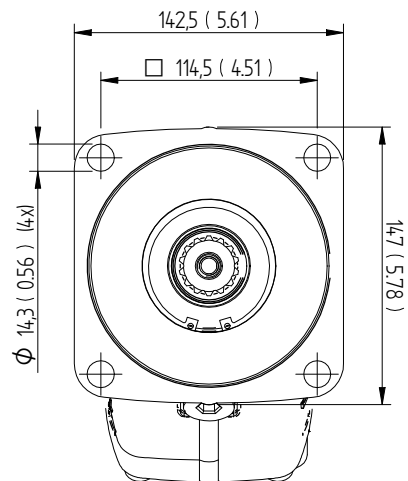
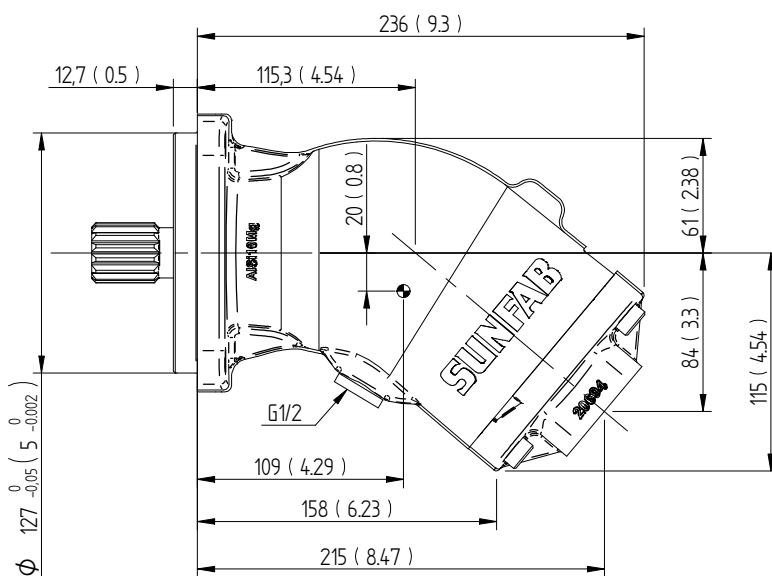
Millimeter (inch)

SB4 SAE J744, ID. CODE: 101-4 (B)



Center of gravity

SC4 SAE J744, ID. CODE: 127-4 (C)



Center of gravity

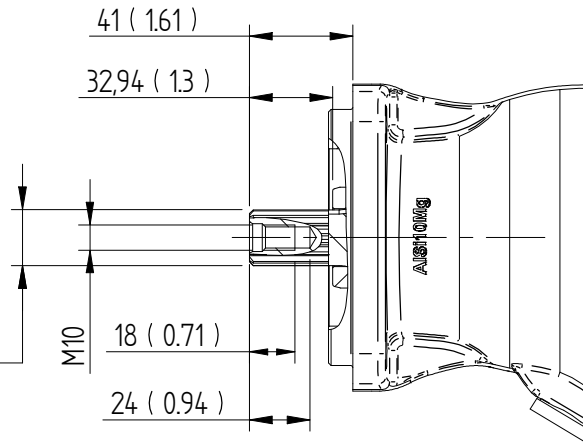
Dimensions SAP 040-064 SAE

Flange & Connection cover

Millimeter (inch)

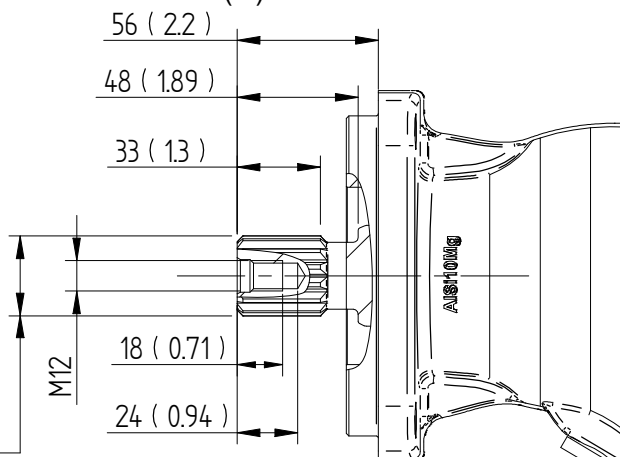
SB4 B13 SAE J744, ID. CODE: 22-4 (B)

13T-16/32 DP
30° PRESSURE ANGLE
FLAT ROOT, SIDE FIT, CLASS 5
ANSI B92.1

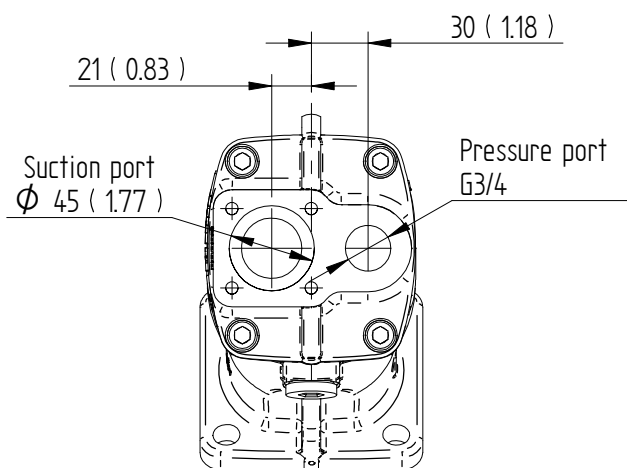


SC4 C14 SAE J744, ID. CODE: 32-4 (C)

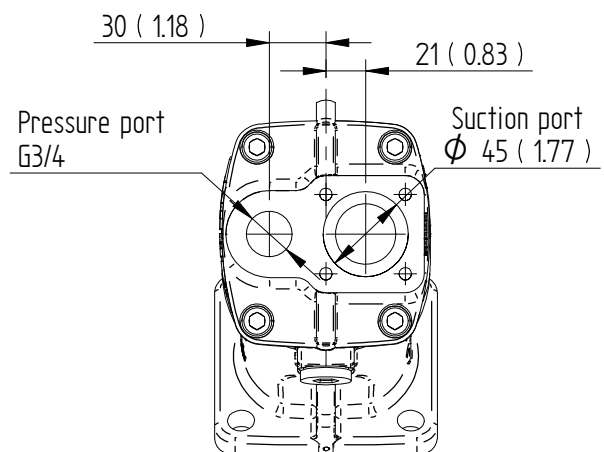
14T-12/24 DP
30° PRESSURE ANGLE
FLAT ROOT, SIDE FIT, CLASS 5
ANSI B92.1



S0S LEFT ROTATION (L)



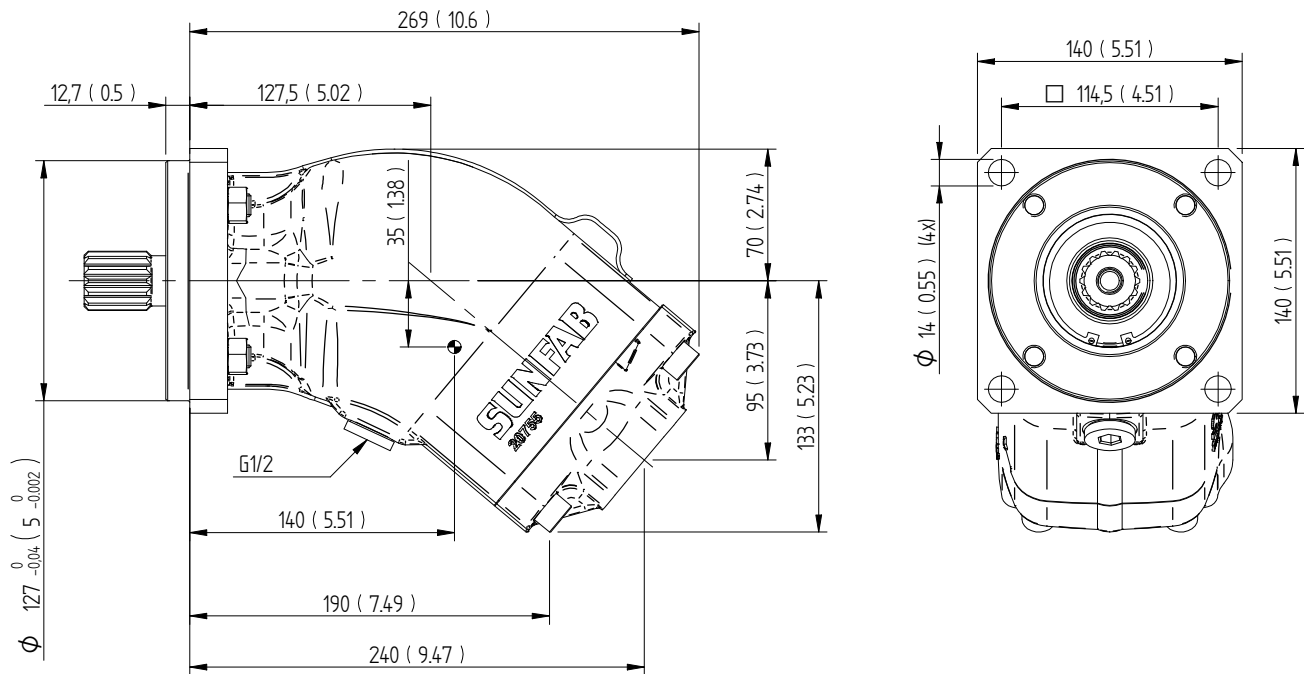
S0S RIGHT ROTATION (R)



Dimensions SAP 084-108 SAE

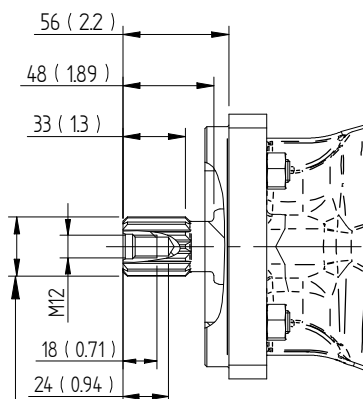
Millimeter (inch)

SC4 SAE J744, ID. CODE: 127-4 (C)



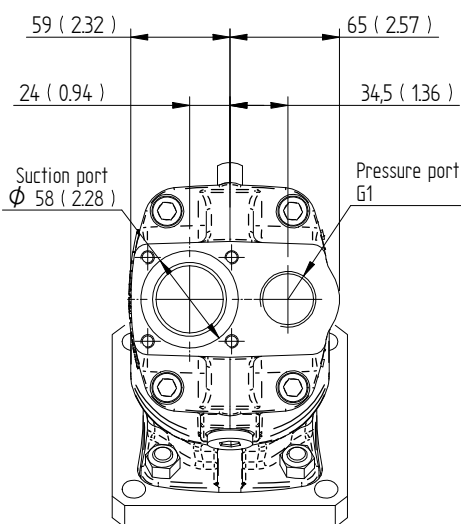
Center of gravity

C14 SAE J744, ID. CODE: 32-4 (C)

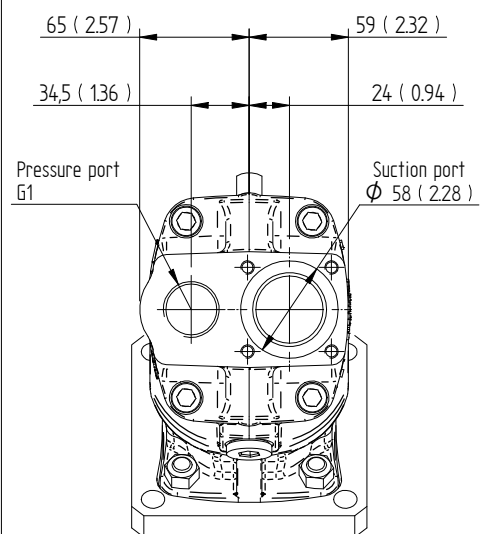


14T-12/24 DP
30° PRESSURE ANGLE
FLAT ROOT, SIDE FIT, CLASS 5
ANSI B92.1

S0S LEFT ROTATION (L)



S0S RIGHT ROTATION (R)





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

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