SAP/SAPT 012-130 SAE

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

SAP/SAPT 012-130 SAE covers the displacement range 0.77-7.93 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.

SAPT 090, 130 is an addition to the SAP series that supports larger flows and pressure up to 300 bar. 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 light metal-housing
- Less heat generation due to better ability to dissipate heat through housing

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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	090	108	130

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	090	108	130
SB2	SAE B2	X	X	X	X	-	-	-	-	-	-	-	-
SB4	SAE B4	X	X	X	X	X	X	X	X	-	X	-	-
SC4	SAE C4	-	-	-	-	X	X	X	X	X*	-	X*	X*

*SAP 084, 108 & 130 with adapter flange for SC4.

6. Shaft

		012	017	025	034	040	047	056	064	084	090	108	130
B13*	SAE B 13t	X	X	X	X	X	X	X	X	-	X	-	-
C14	SAE C 14t	-	-	-	-	X	X	X	X	X	-	X	X

*Only with SB2/SB4 mounting flange

7. Connection cover

S0	40° Sunfab standard

8. Connections

S	Sunfab standard

9. Additional

0	-

10. Accessories

00	No accessories available

- = Not available
X = Standard, preferred

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SAP/SAPT 012-130 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	090* SAE C	108 SAE C	130* SAE C
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	45	14.3	65
	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	90	28.5	130
	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	135	42.8	195
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	90.0	6.59	7.93
Max pump speed																	
continuous	rpm	2300	2300	2300	2300	1900	1900	1900	1900	1900	1900	1900	1900	1600	1500	1600	1500
intermittent		3000	3000	3000	3000	2500	2500	2500	2500	2500	2500	2500	2500	2100	2000	2100	2000
Max working pressure																	
psi		5800	5800	5800	5800	5800	5800	5800	5800	5800	5800	5075	5800	5800	4350	5800	4350
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	21.2	35.0	35.7
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	7.4	16.2	16.4
Direction of rotation																	
Left (L) or Right (R)																	

*SAPT

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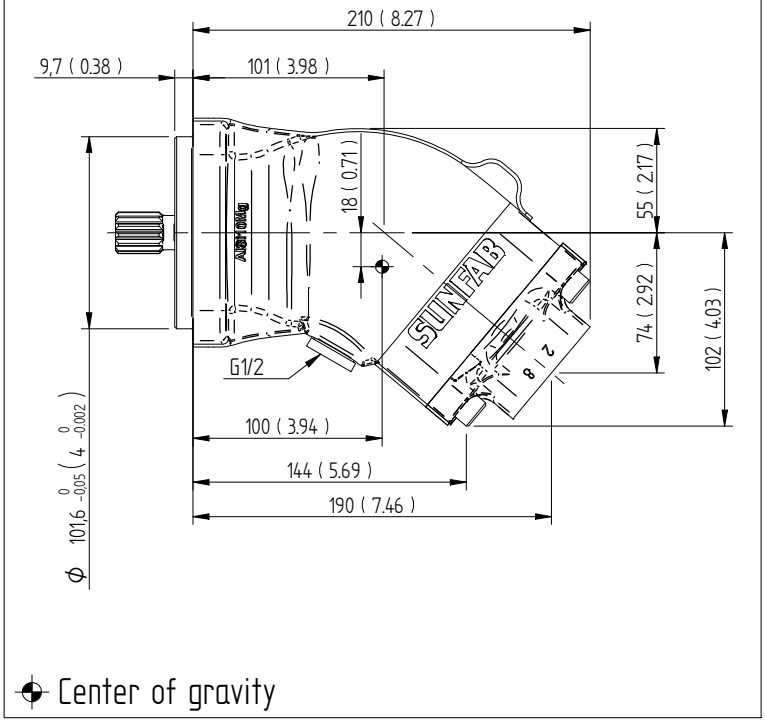
Dimensions SAP 012-034 SAE

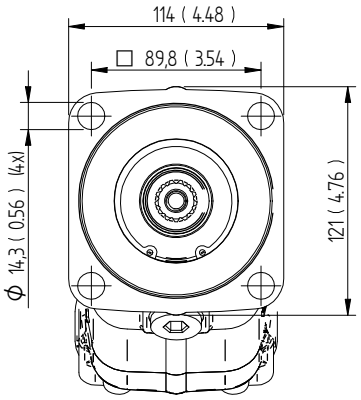
Millimeter (inch)

SB4 / **SB2** SAE J744

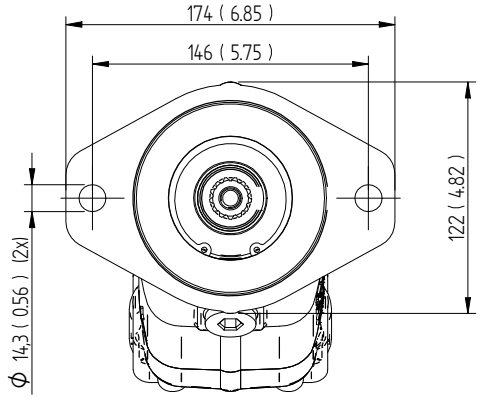


Center of gravity

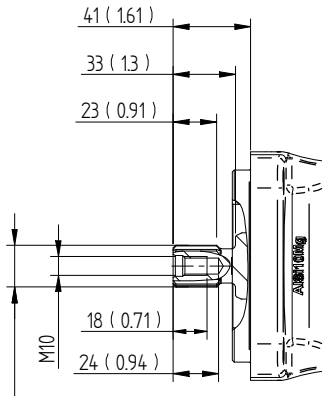
SB4 SAE J744, ID. CODE: 101-4 (B)



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

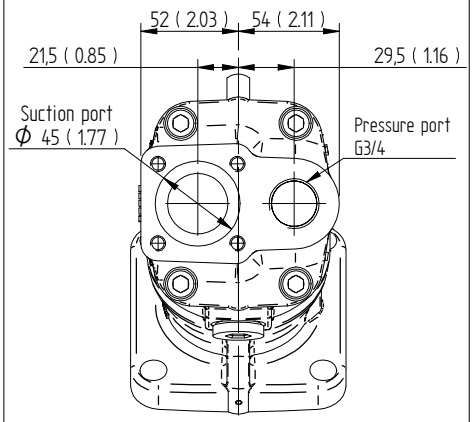


B13 SAE J744, ID. CODE: 22-4 (B)

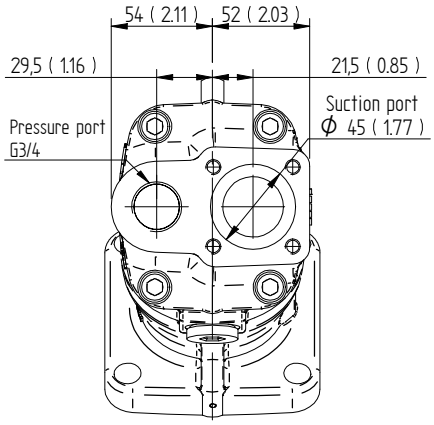


13T, 16/32 DP
30°PRESSURE ANGLE
FLAT ROOT, SIDE FIT, CLASS 5
ANSI B92.1

S0S LEFT ROTATION (L)



S0S RIGHT ROTATION (R)



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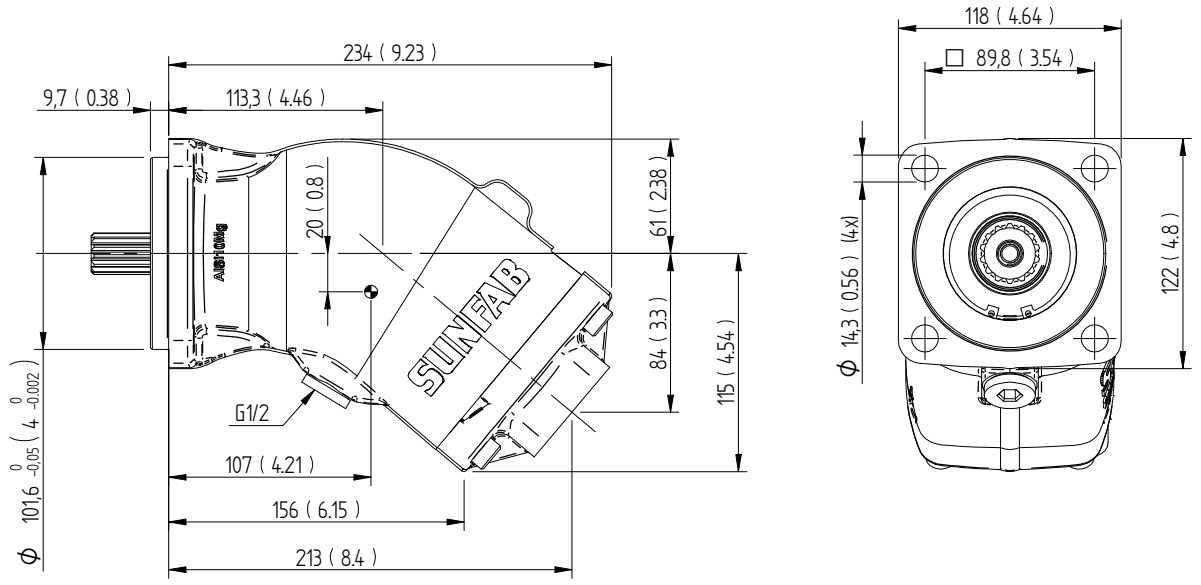
Dimensions SAP 040-064 SAE, SAPT 090 SAE

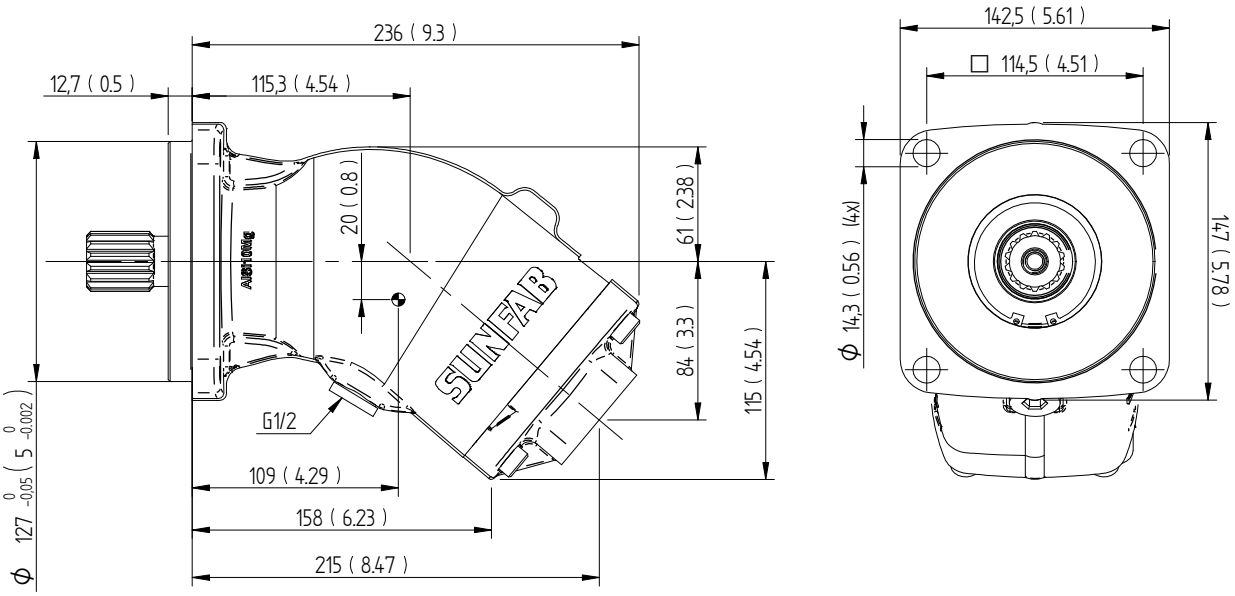
Millimeter (inch)

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



Center of gravity

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



Center of gravity

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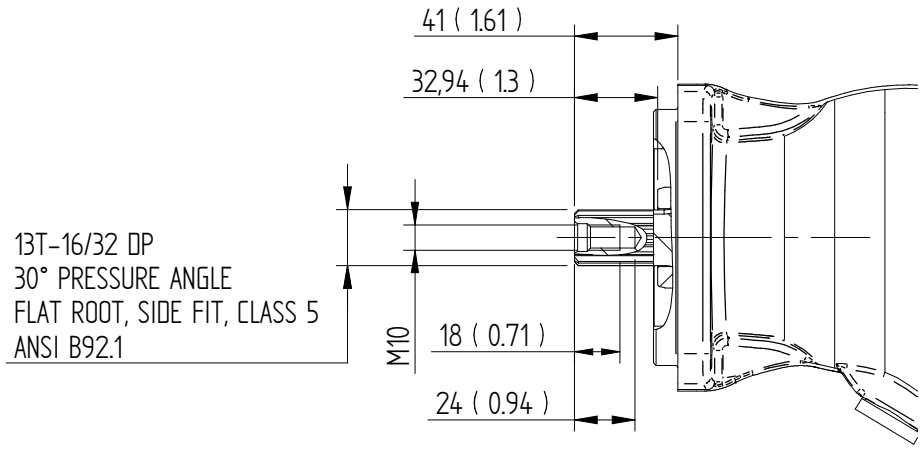
Dimensions SAP 040-064 SAE, SAPT 090 SAE

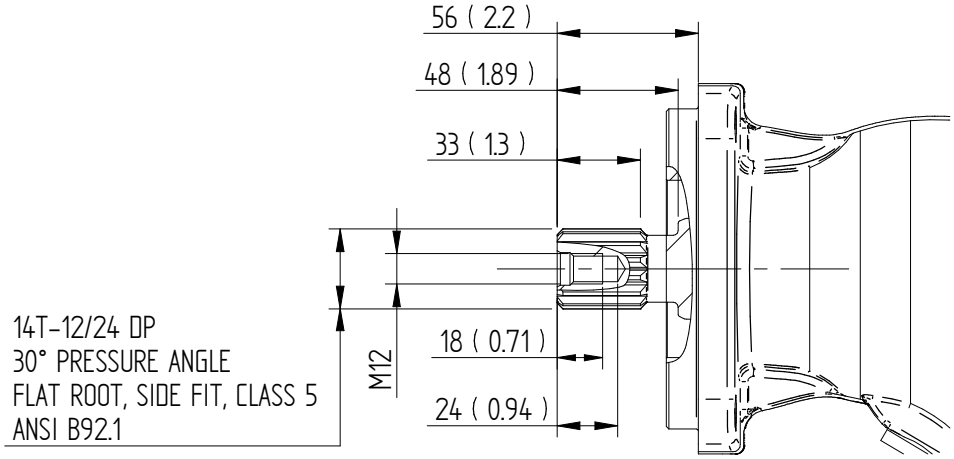
Flange & Connection cover

Millimeter (inch)

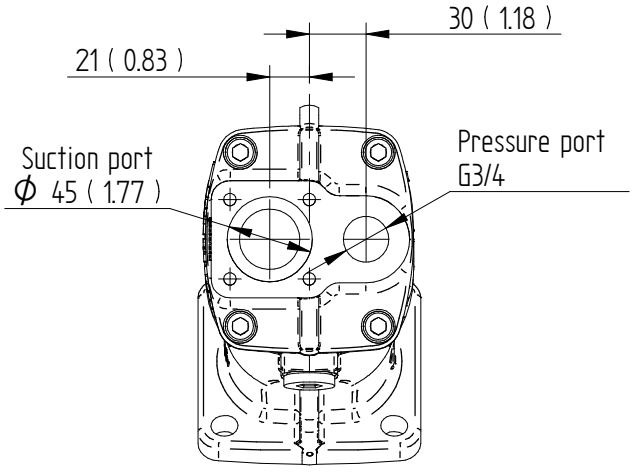
SB4 B13 SAE J744, ID. CODE: 22-4 (B)



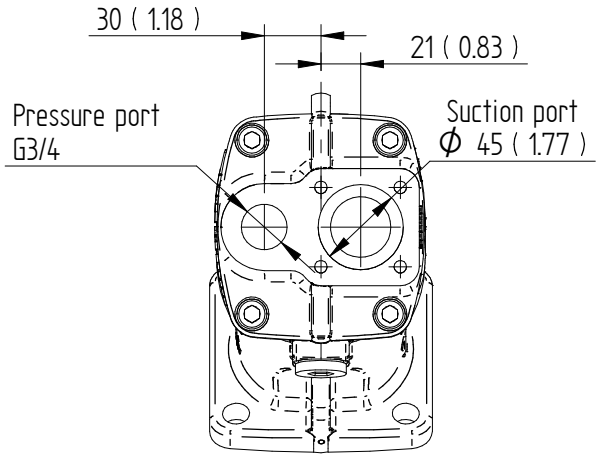
SC4 C14 SAE J744, ID. CODE: 32-4 (C)



S0S LEFT ROTATION (L)



S0S RIGHT ROTATION (R)



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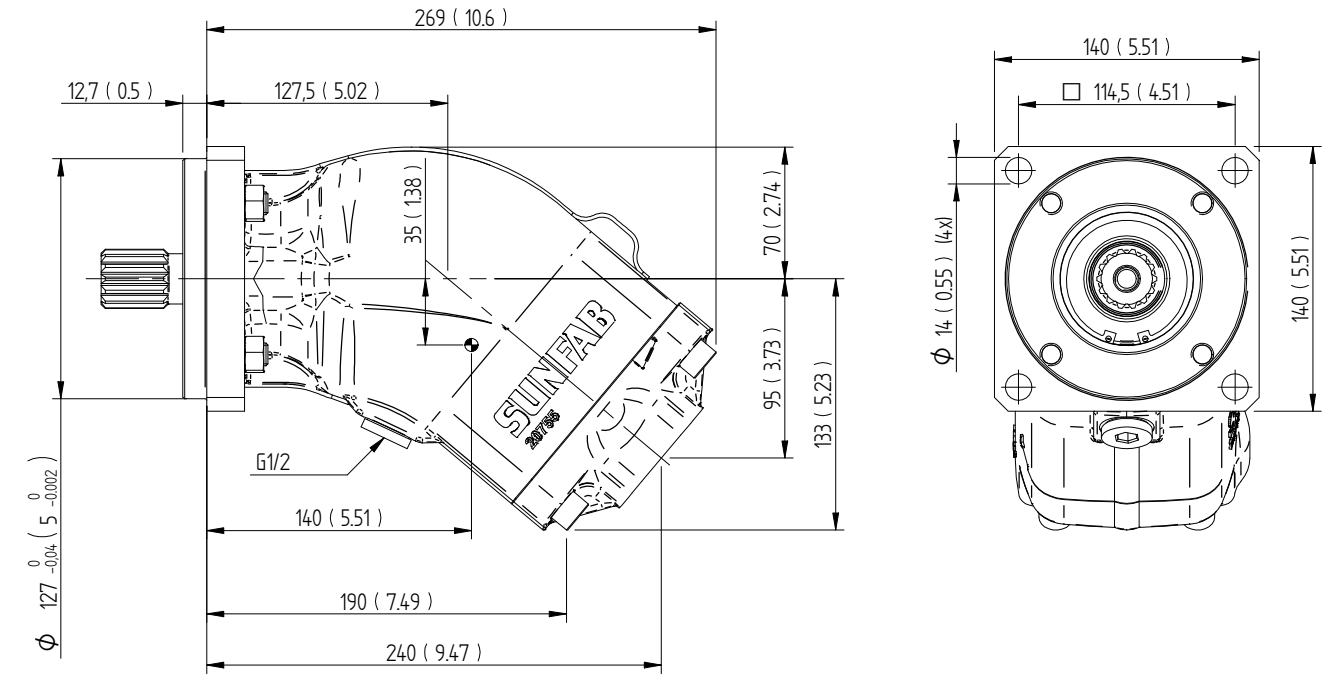
Dimensions SAP 084-108 SAE, SAPT 130 SAE

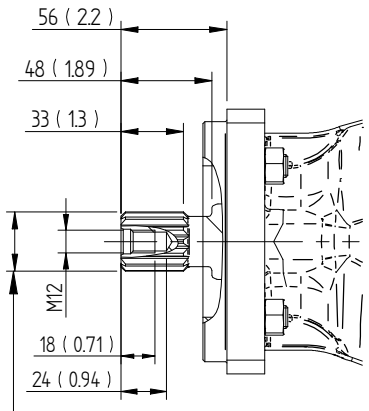
Millimeter (inch)

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



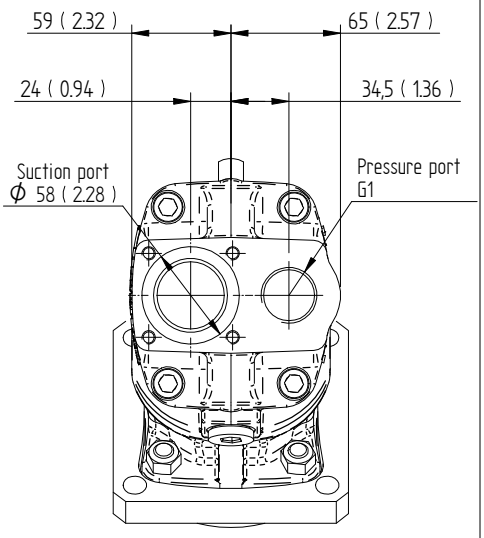
Center of gravity

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

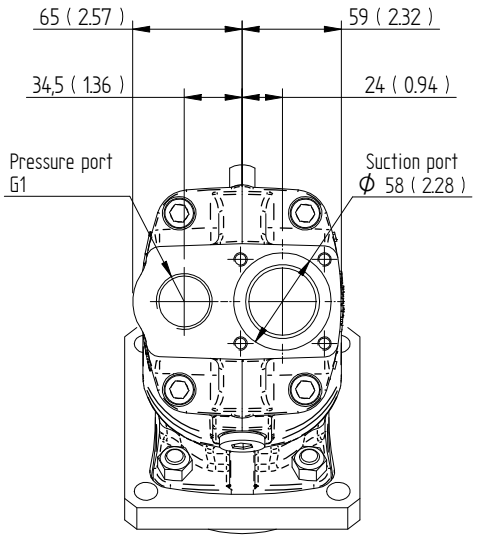


14T-12/24 DP
30° PRESSURE ANGLE
FLAT ROOT, SIDE FIT, CLASS 5
ANSI B92.1

S0S LEFT ROTATION (L)



S0S RIGHT ROTATION (R)



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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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