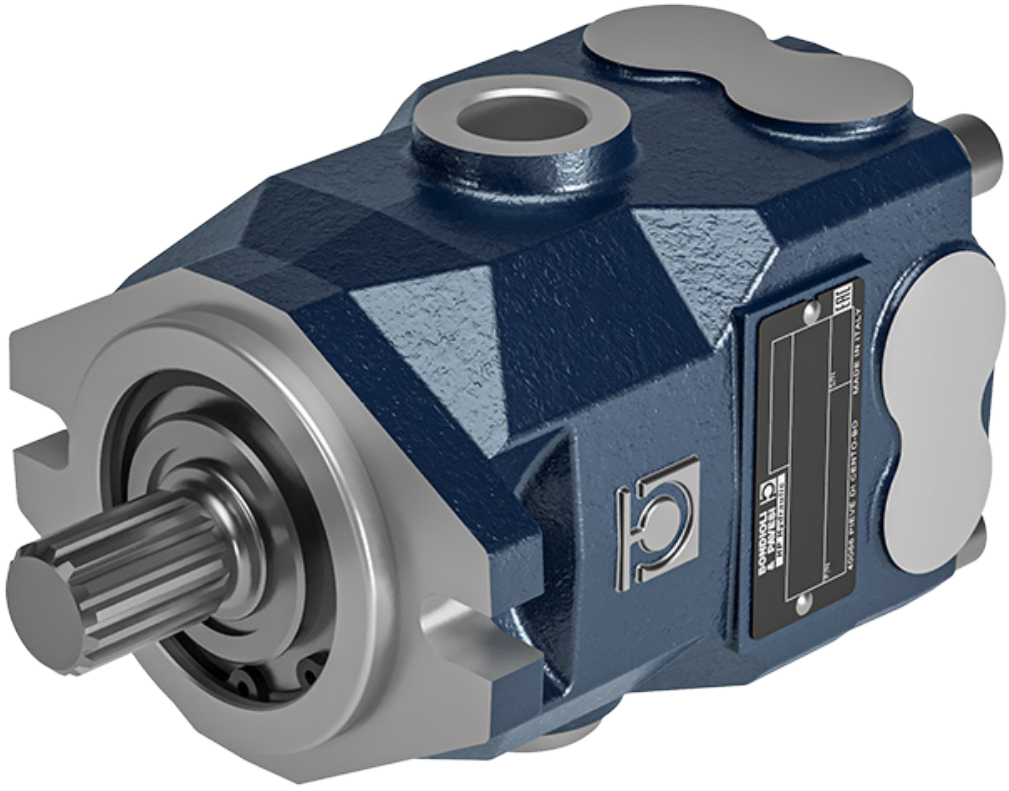
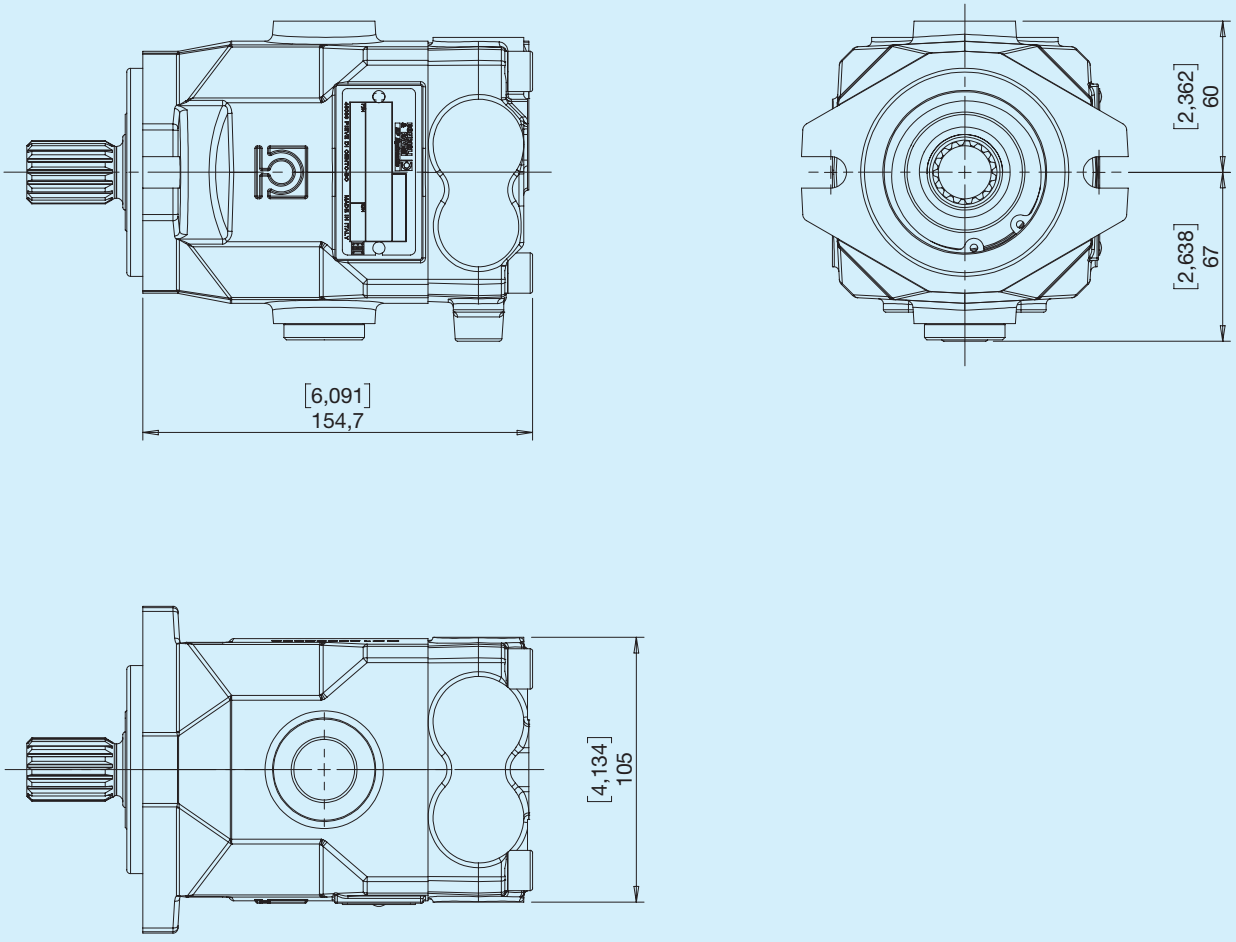
Fixed-displacement motors M4MF21-28-37

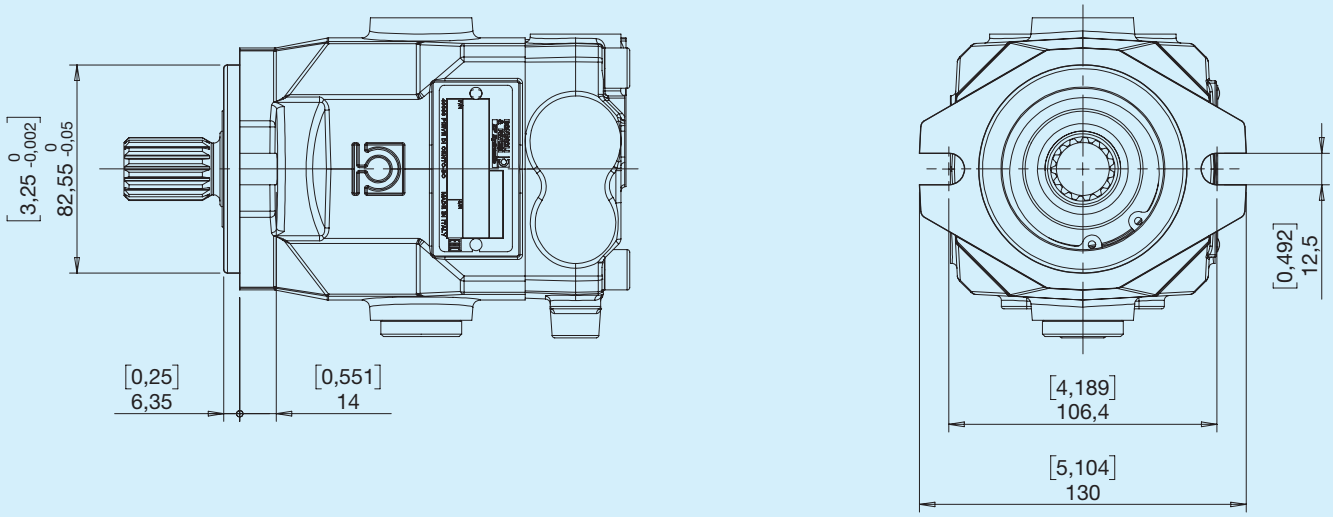


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF CLOSED CIRCUIT AXIAL PISTON PUMPS AND MOTORS.

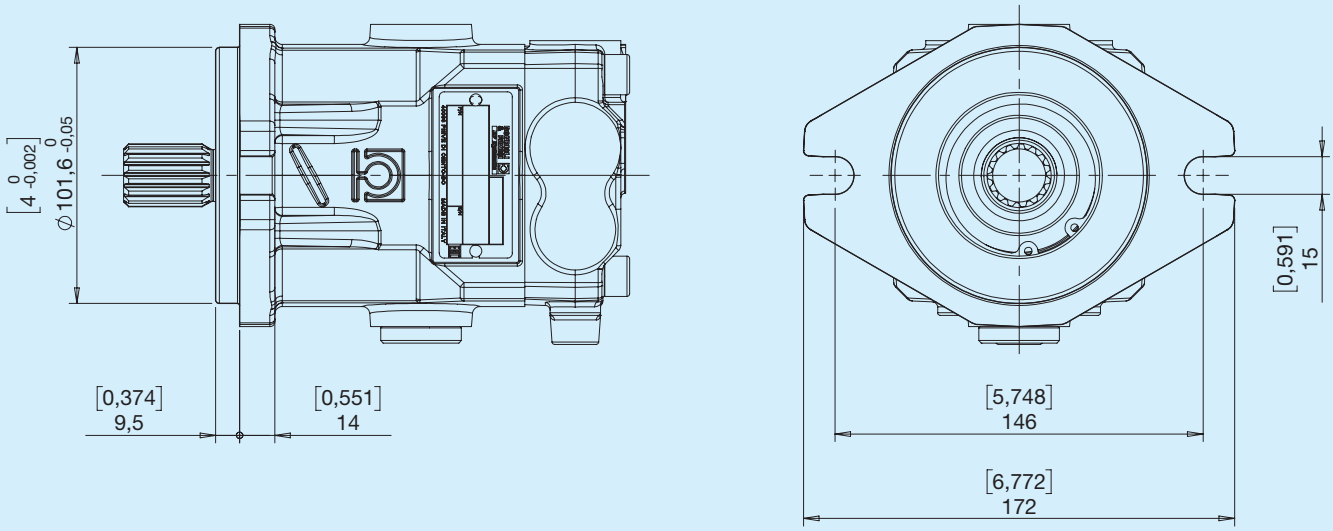


M4MF	Theoretical displacement		Swash plate	Pressure						Rotational speed		Weight	
				continue		intermittent		peak		MAX	MIN		
	cm³	in³	°	bar	psi	bar	psi	bar	psi	min⁻¹	min⁻¹	kg	lbs
21	21	1.28	18	250	3625	300	4350	350	5075	3600	500	7.5	16.5
28	28	1.71	18	250	3625	300	4350	350	5075	3600	500	7.8	17.2
37	37	2.26	18	250	3625	300	4350	350	5075	2800	500	8.1	17.8

A SAE A

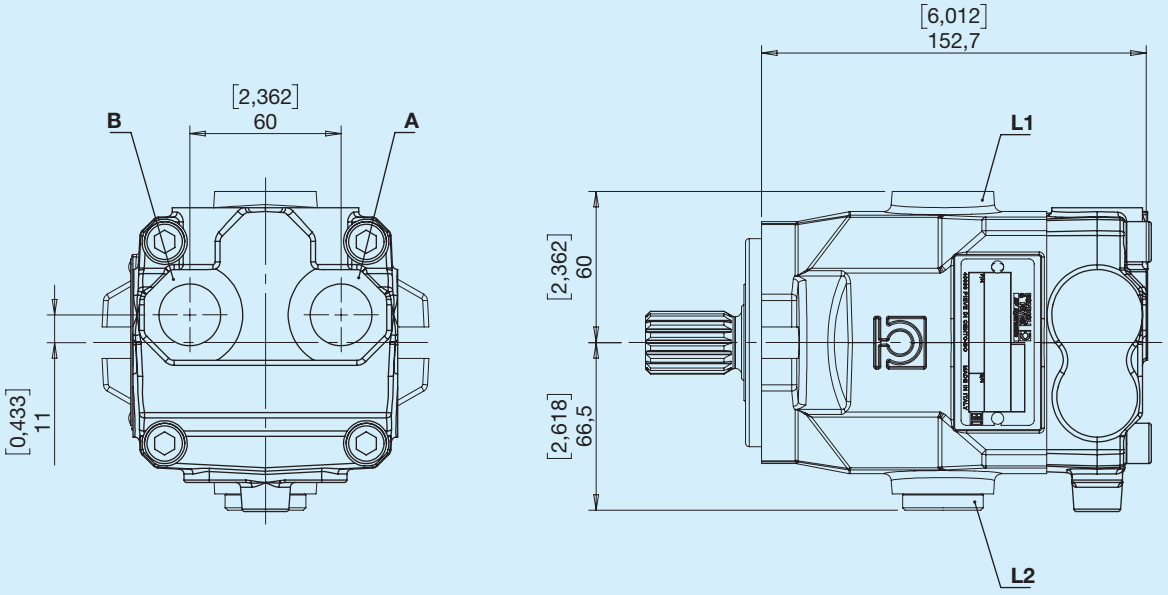

[3,25 0 -0,002]
82,55 0 -0,05
[0,25]
6,35
[0,551]
14
[0,492]
12,5
[4,189]
106,4
[5,104]
130

B SAE B

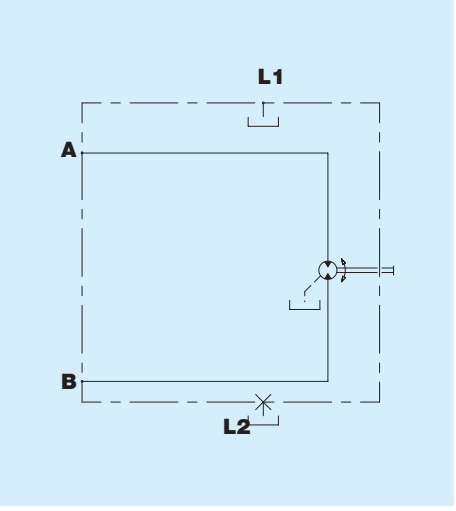

[4 0 -0,002]
Ø101,6 0 -0,05
[0,374]
9,5
[0,551]
14
[0,591]
15
[5,748]
146
[6,772]
172

Position of ports

1 Rear

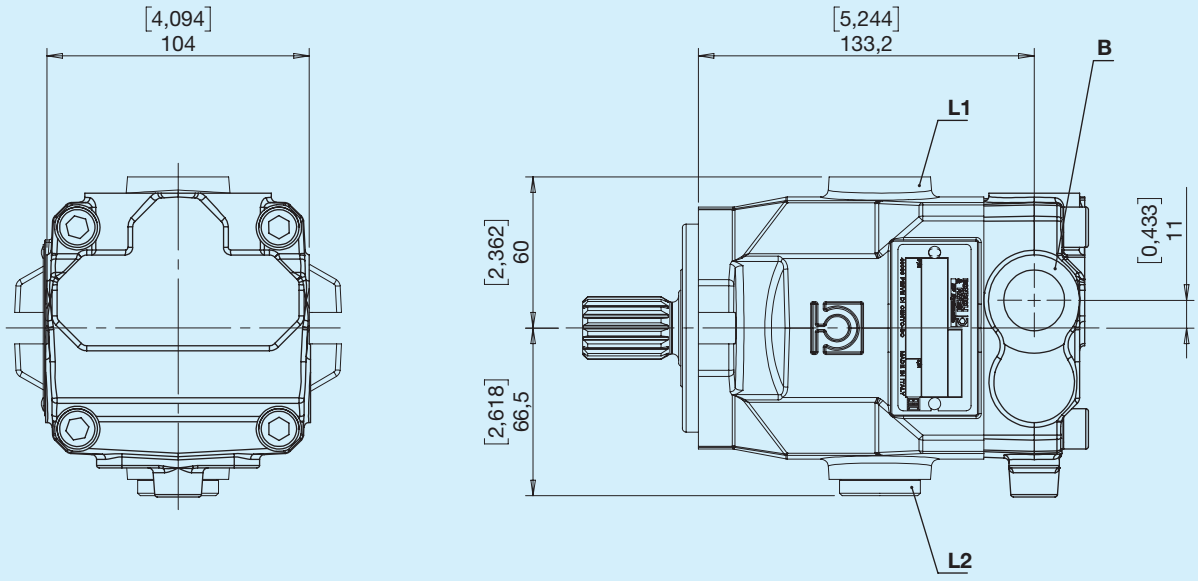


Hydraulic diagram

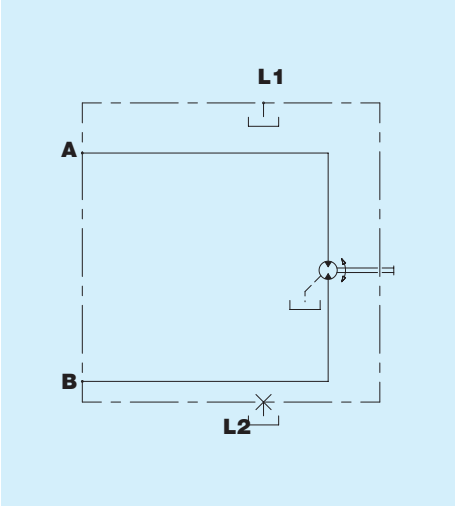


A,B - Use
L1, L2 - Drain port

2 Opposite sideways

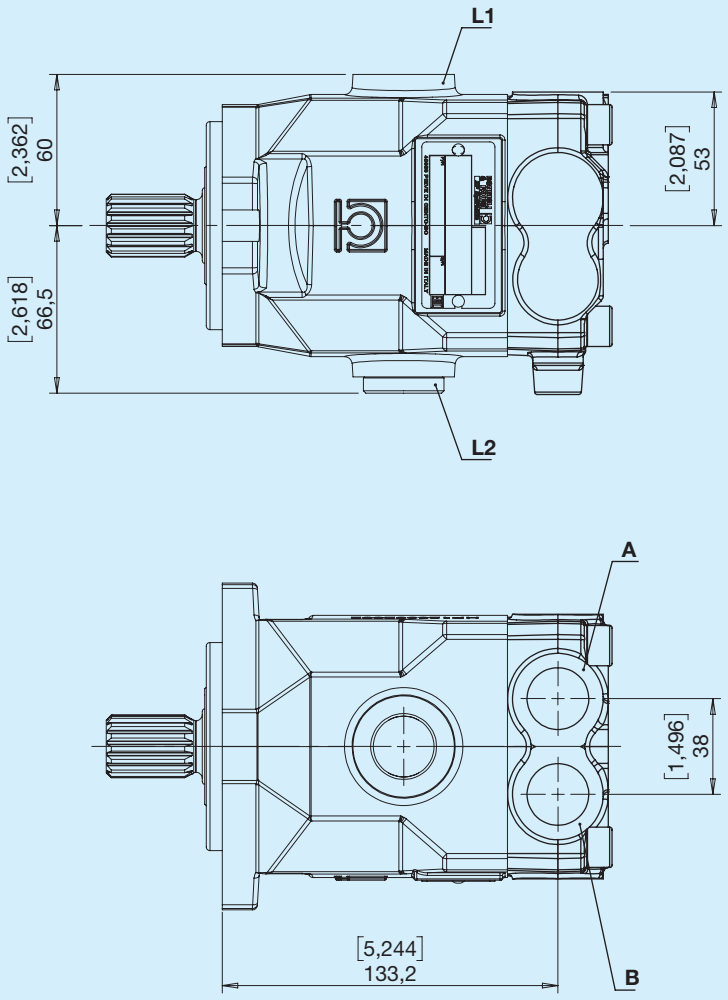


Hydraulic diagram

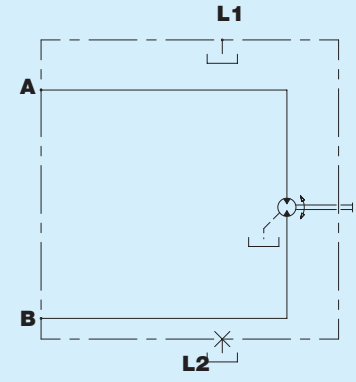


A,B - Use
L1, L2 - Drain port

3 Coupled sideways



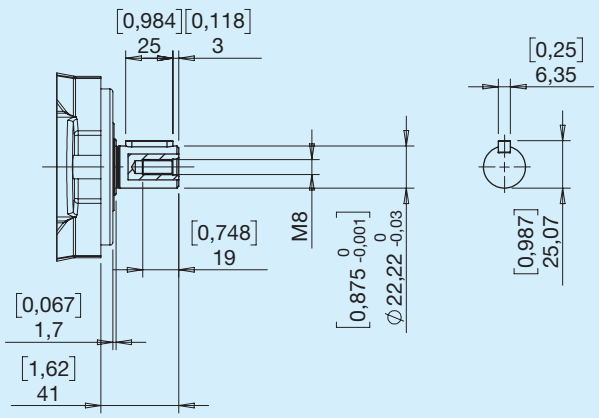
Hydraulic diagram



A,B - Use
L1, L2 - Drain port

1 Cylindrical Ø22.22

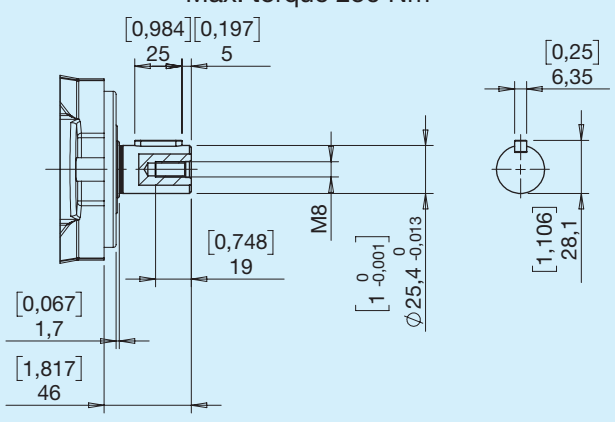
Max. torque 210 Nm



ON FLANGE SAE A

2 Cylindrical Ø25.4

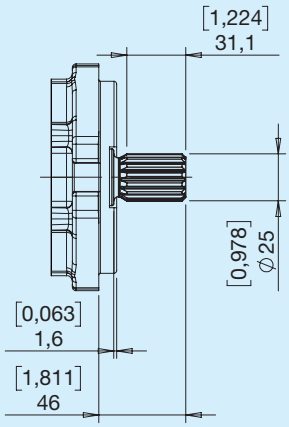
Max. torque 250 Nm



ON FLANGE SAE A

3 SAE 15T 16/32 DP

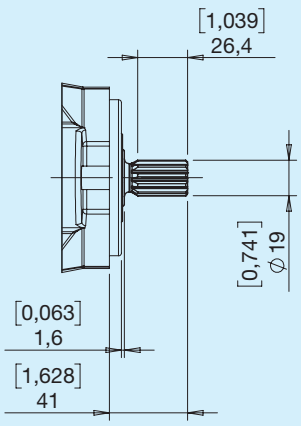
Max. torque 460 Nm



ON FLANGE SAE B

7 SAE 11T 16/32 DP

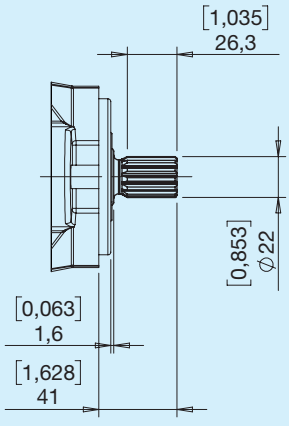
Max. torque 160 Nm



ON FLANGE SAE A

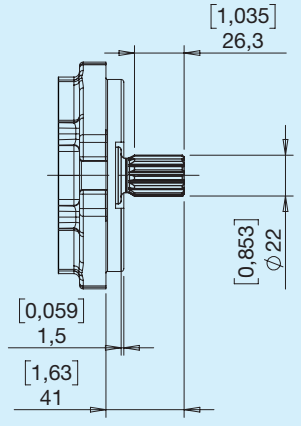
6 SAE 13T 16/32 DP

Max. torque 310 Nm



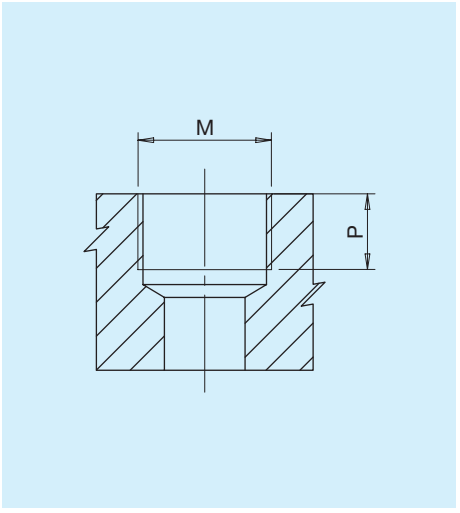
ON FLANGE SAE A

Max. torque 310 Nm



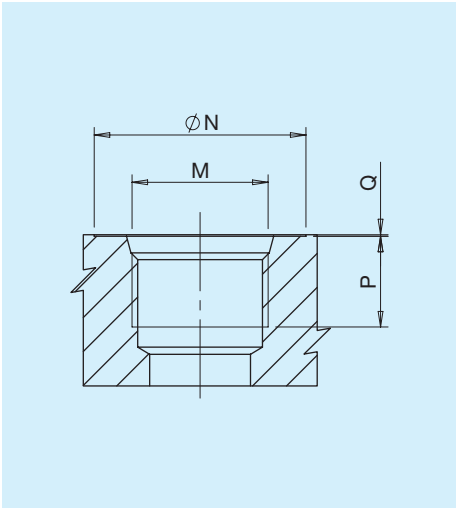
ON FLANGE SAE B

Type G



Type	M		P	
		Nm	**mm**	**in**
G6	Port ISO 1179-1 - G 3/4	90	18	0.71

Type U

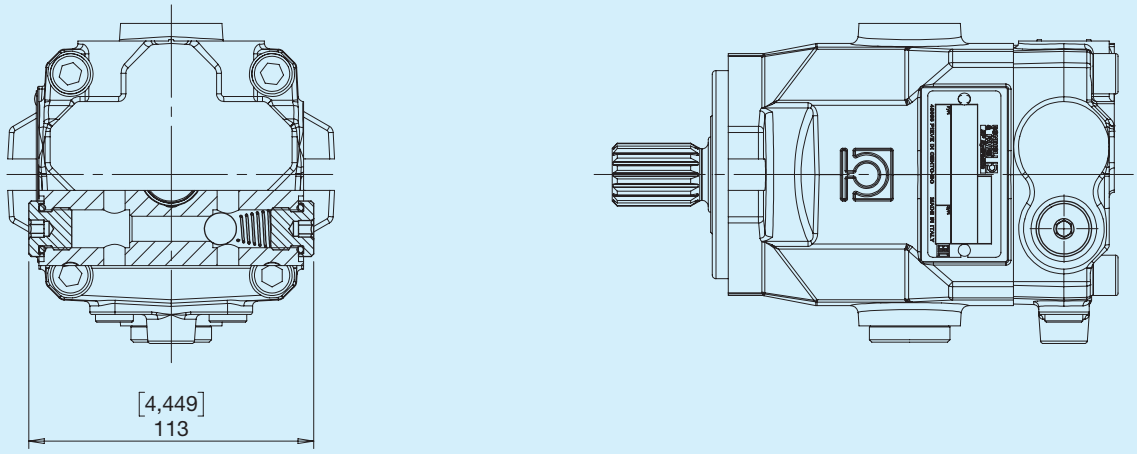


Type	Dim.	N		P		Q		M	
		mm	**in**	**mm**	**in**	**mm**	**in**		**Nm**
U6	3/4'	42	1.65	18	0.71	0.3	0.01	Port ISO 11926-1-1 1/16-12	90

Combinations

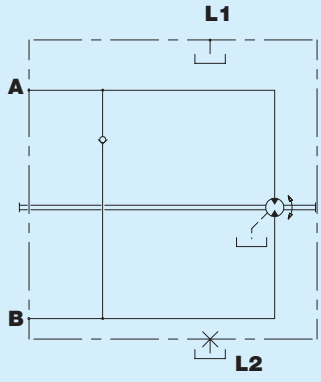
Type	Inlet/outlet **A-B**	Drain port **L1-L2**	Drain port (op.) **L3**
R	G6	G6	G6
U	U6	U6	U6

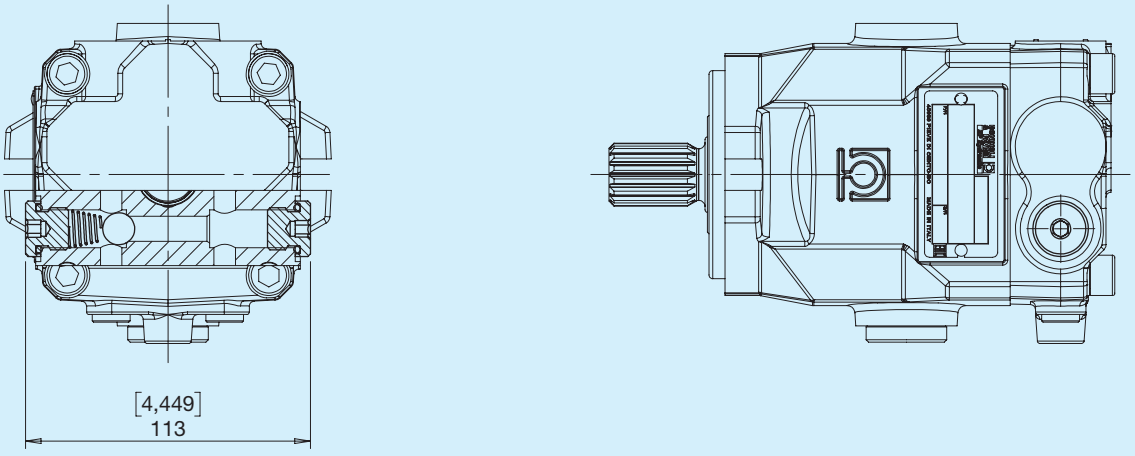
A Anticavitation valve



Anti-cavitation valve on branch A

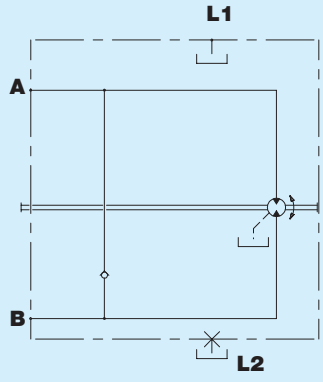
Hydraulic diagram



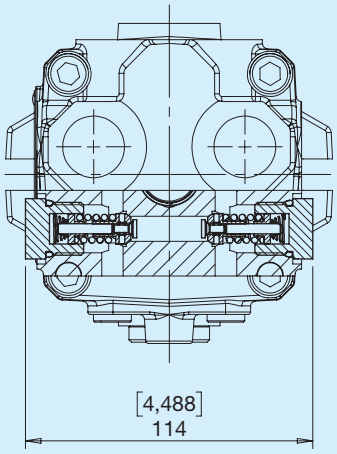


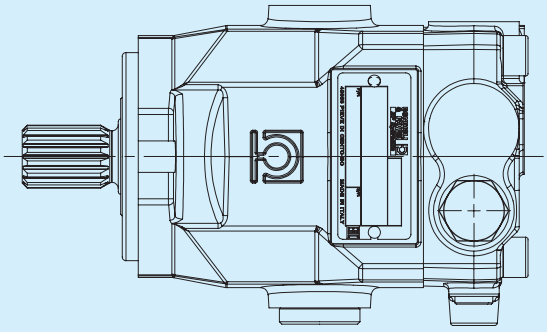
Anti-cavitation valve on branch B

Hydraulic diagram



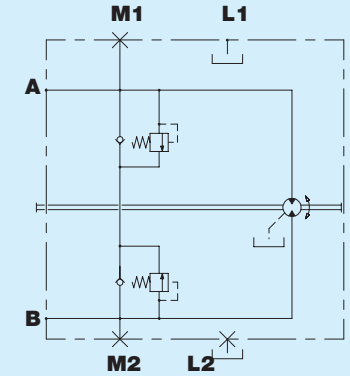
M Pressure relief valve



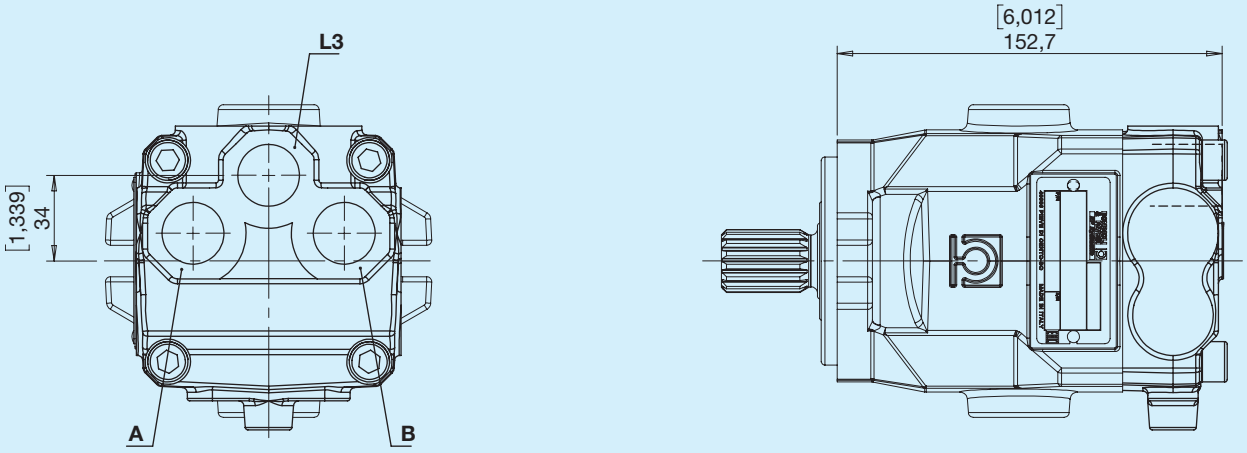


for valve calibration see ordering instructions page

Hydraulic diagram

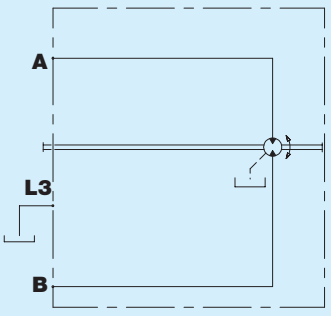


P Rear drainage

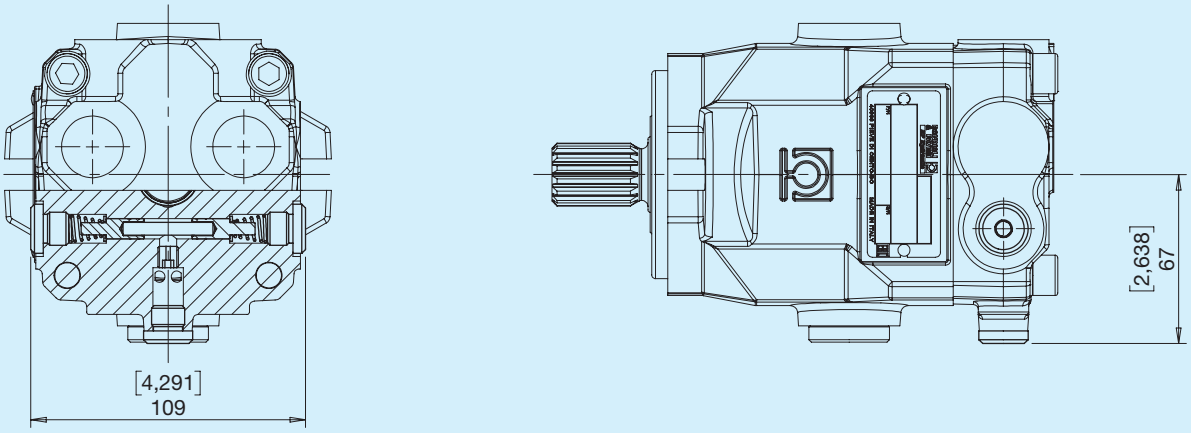


L3 - Drain port

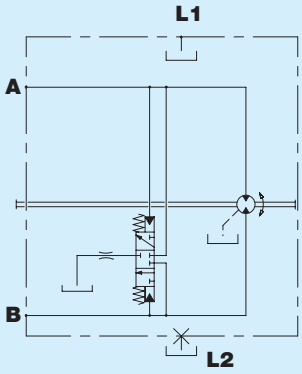
Hydraulic diagram



V Flushing valve (5-7 l/min)



Hydraulic diagram



M4MF21-37 | 1 2 | 3 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 13 14 |

1 2

Nominal displacement

21 **28** **37**

3 4

Displacement

...

5

Flanges

A SAE A **B** SAE B

6

Position of ports

1 Rear **2** Opposite sideways **3** Coupled sideways

7

Direction of rotation

B Bidirectional

8

Shaft profile

1 Cylindrical Ø22.22
2 Cylindrical Ø25.4
3 SAE 15T 16/32 DP
7 SAE 11T 16/32 DP
6 SAE 13T 16/32 DP

9

Type of ports

R Gas **U** UNF

10

Accessories

0 No option
A Anticavitation valve
C Paint
M Pressure relief and anticavitation valve
P Rear drainage
S Multiple accessories
V Flushing valve

11

Valve calibration

0 without valve
B 150 bar
D 180 bar
E 210 bar
G 250 bar
I 280 bar
L 300 bar
O 350 bar
P 400 bar
Q 420 bar
R 450 bar

12 13 14

Special versions

...