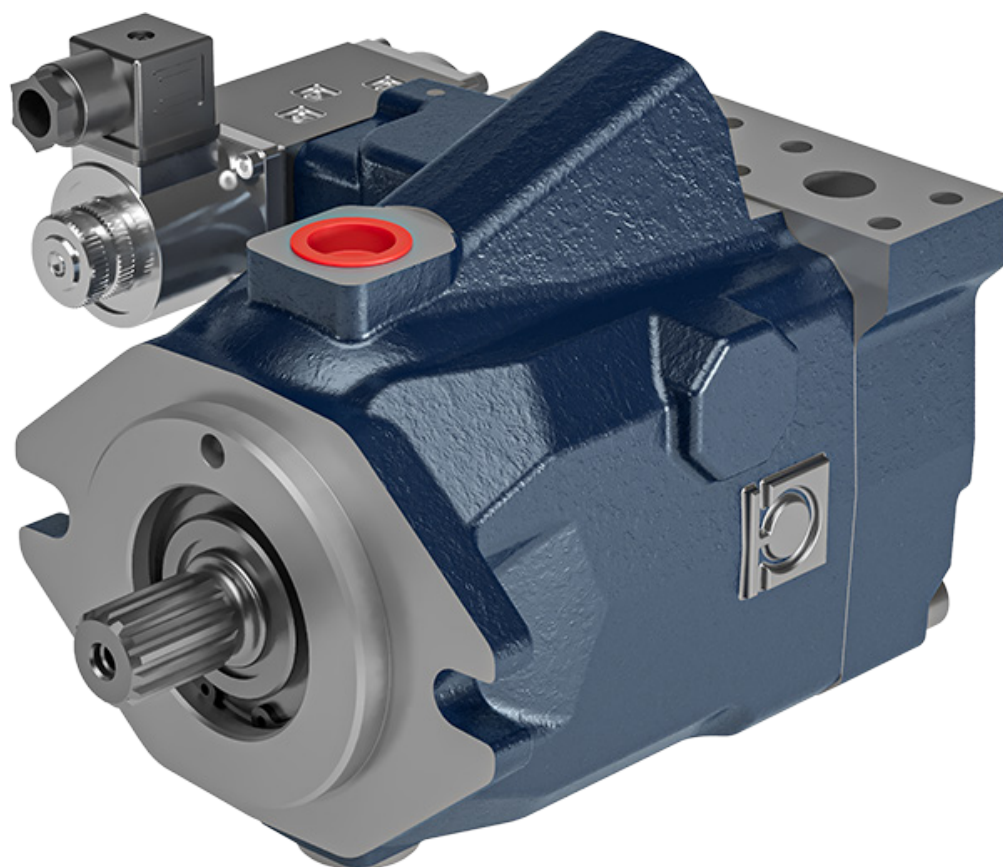
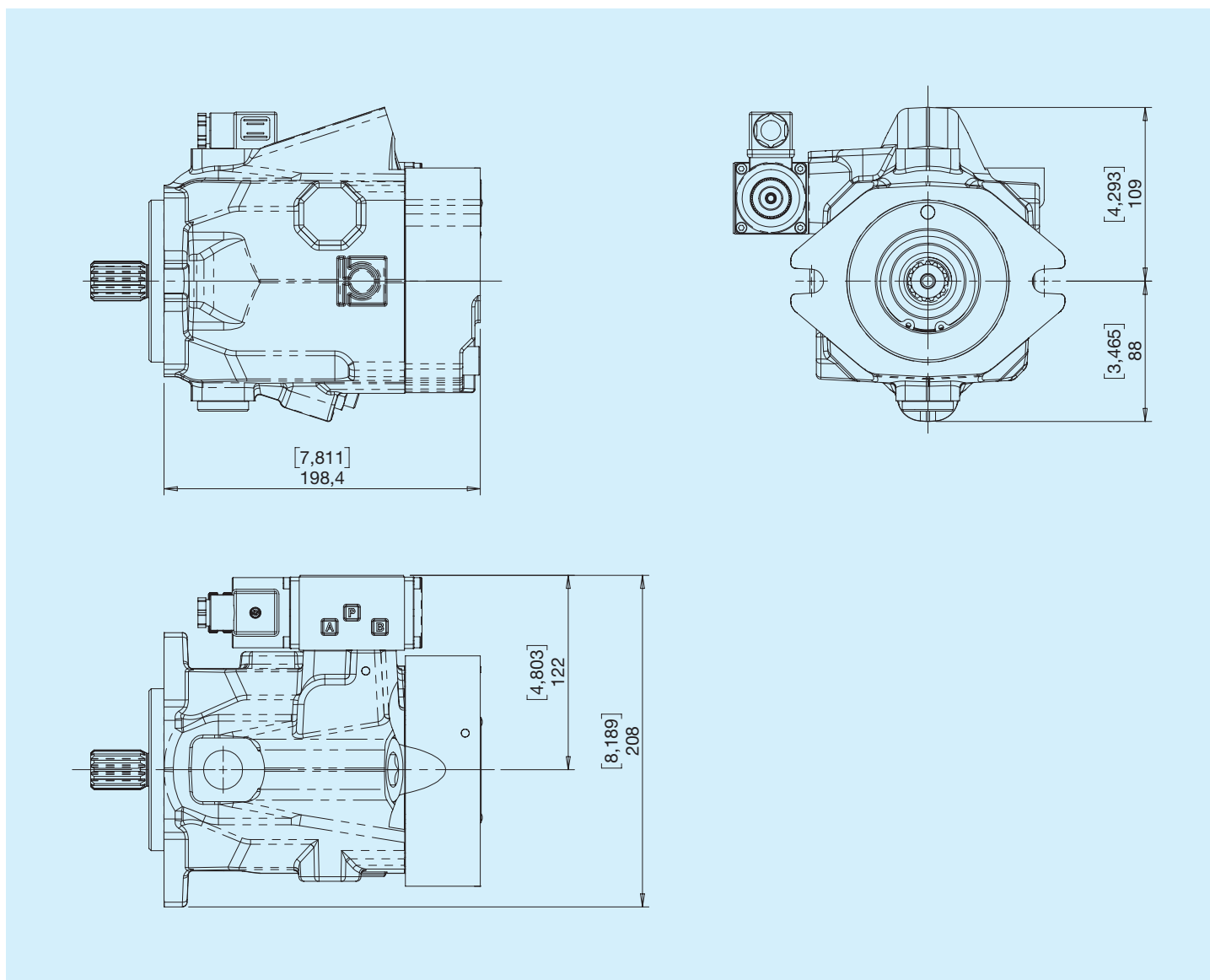


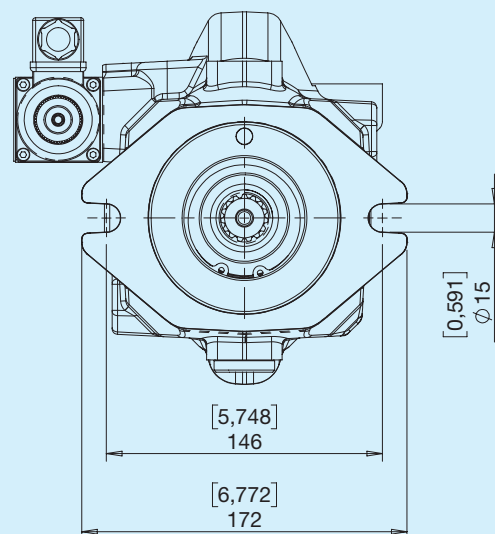
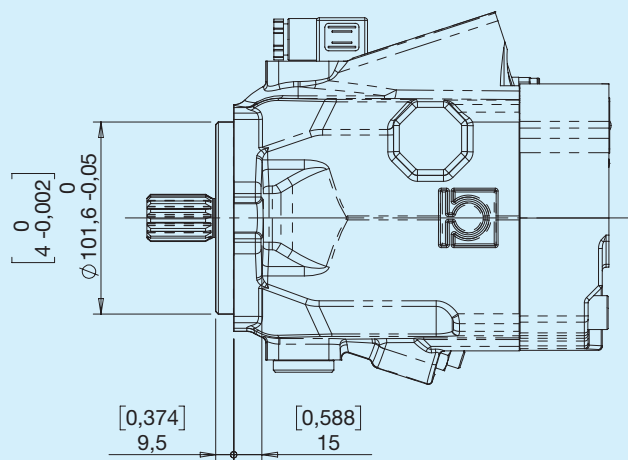


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF CLOSED CIRCUIT AXIAL PISTON PUMPS AND MOTORS.

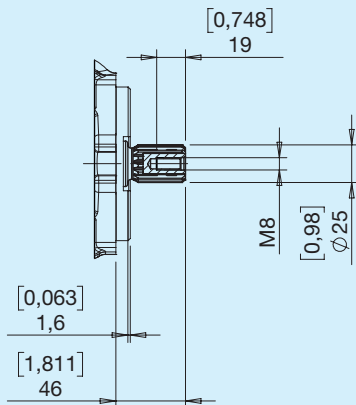


HPV4A	Theoretical displacement		Swash plate	Pressure						Rotational speed			Weight	
				continue		intermittent		peak		MIN (max V) min ⁻¹	MAX (min V) min ⁻¹	MIN min ⁻¹	kg	lbs
	cm³	in³		bar	psi	bar	psi	bar	psi					
34	34	2.08	18	250	3625	330	4785	400	5800	3600	4000	500	23	50.6
46	46	2.81	19	250	3625	330	4785	400	5800	3600	4000	500	23	50.6
50	50	3.05	18	250	3625	330	4785	400	5800	3600	4000	500	23	50.6
58	58	3.54	18	250	3625	330	4785	400	5800	3600	4000	500	24	52.8
65	65	3.97	18	250	3625	300	4350	350	5075	3600	4000	500	24	52.8

B SAE B

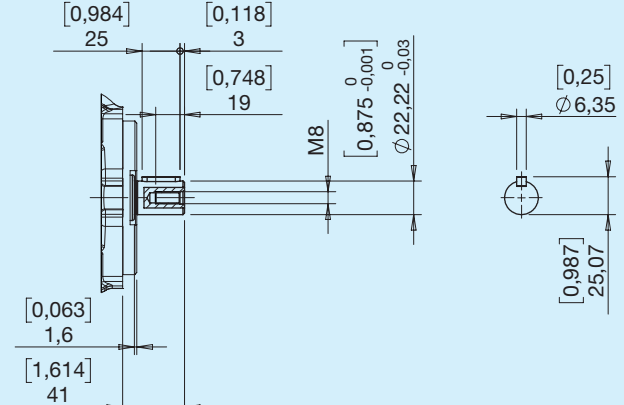


1 SAE 15T 16/32 DP



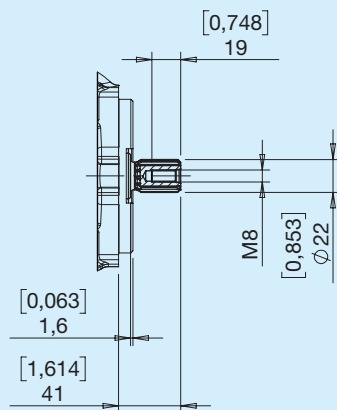
Max. torque 460 Nm

6 Cylindrical Ø22.22



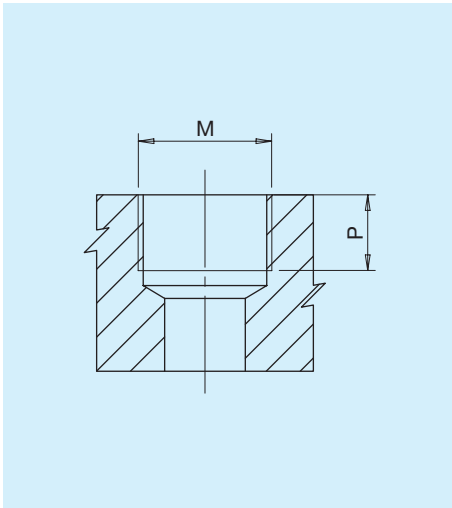
Max. torque 210 Nm

9 SAE 13T 16/32 DP



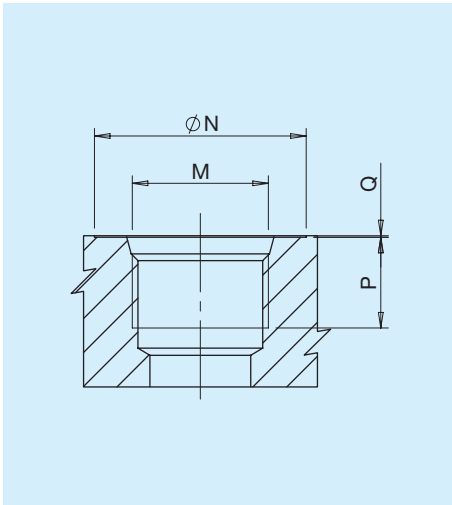
Max. torque 310 Nm

Type G



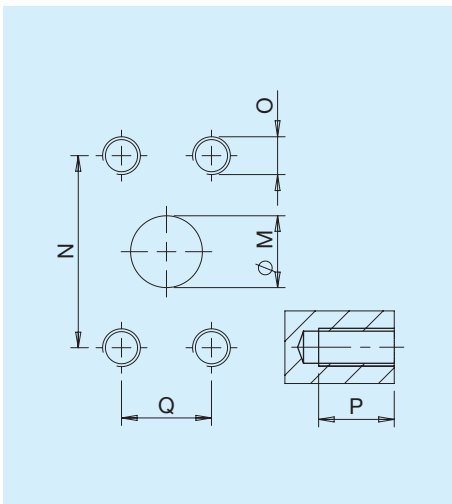
Type	M		P	
		Nm	mm	in
G1	Port ISO 1179-1 - G 1/8	8	9	0.35
G6	Port ISO 1179-1 - G 3/4	90	20	0.79

Type U



Type	Dim.	N		P		Q		M	Nm
		mm	in	mm	in	mm	in		
U2	1/4"	20	0.79	12	0.47	0.3	0.01	Port ISO 11926-1 7/16-20	17
U6	3/4"	42	1.65	20	0.79	0.3	0.01	Port ISO 11926-1-1 1/16-12	90

Type N

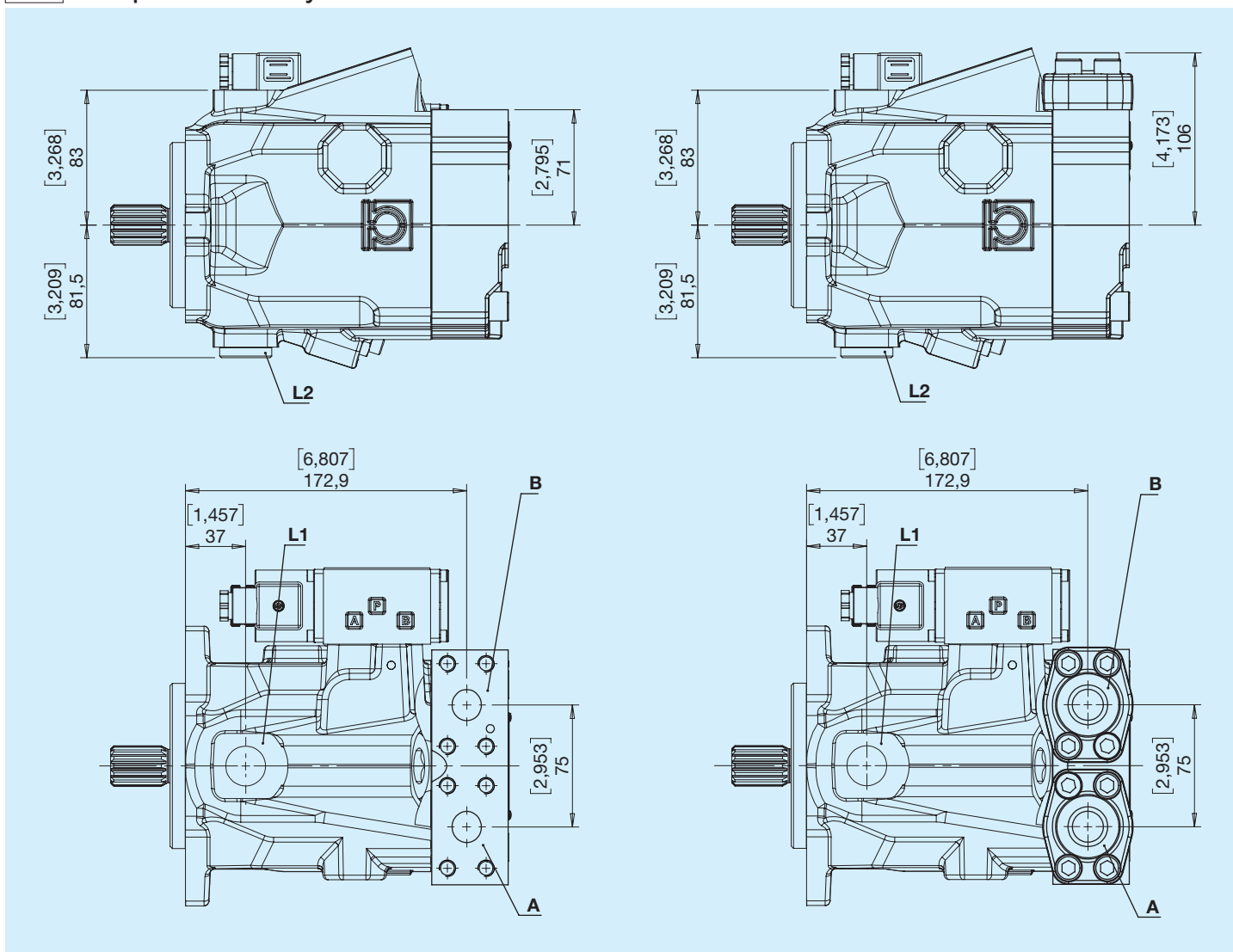


Type	M		N		Q		P		O	Nm
	mm	in	mm	in	mm	in	mm	in		
N6	19	0.75	50.8	2	23.8	0.94	20	0.79	M10	38

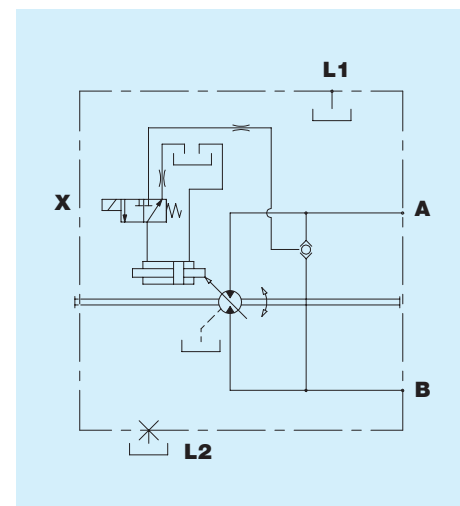
Combinations

Type	Input/Output A-B	Drain port L1-L2	Drain port (op.) L3	Pilot pressure X
G	G6	G6	G6	G1
U	U6	U6	U6	U2
N	N6	G6	G6	G1
M	N6	U6	U6	U2

A Coupled sideways

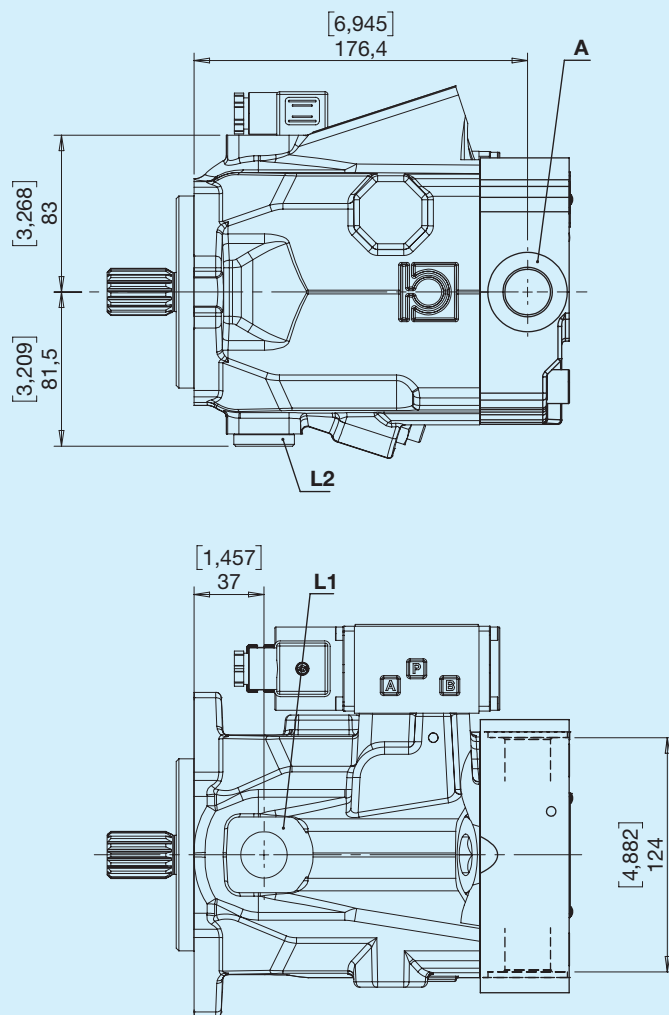


Hydraulic diagram



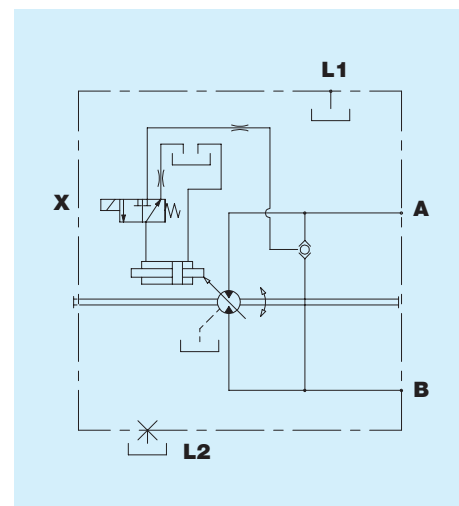
A,B - Use
L1, L2 - Drain port

L Opposite sideways



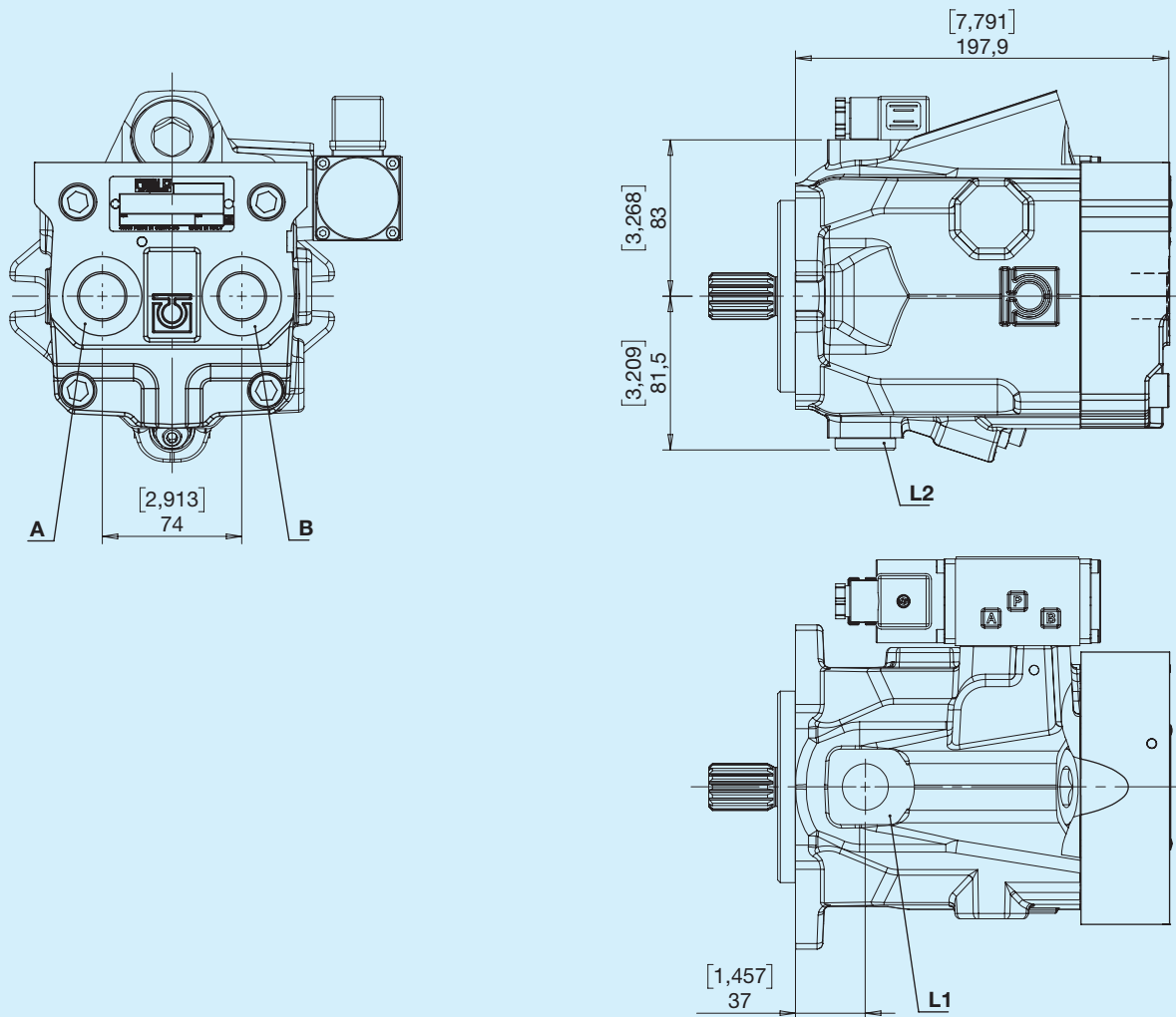
Not available in version N6

Hydraulic diagram



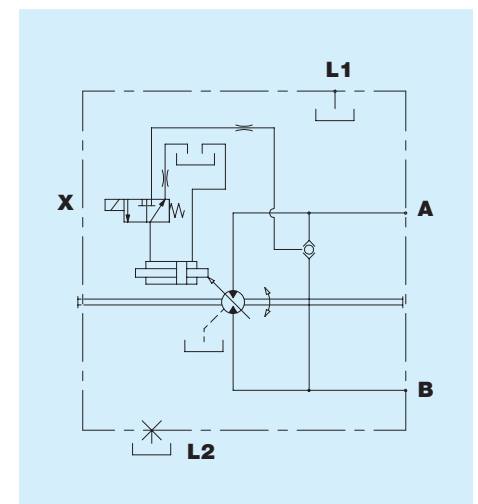
A,B - Use
L1, L2 - Drain port

P Rear



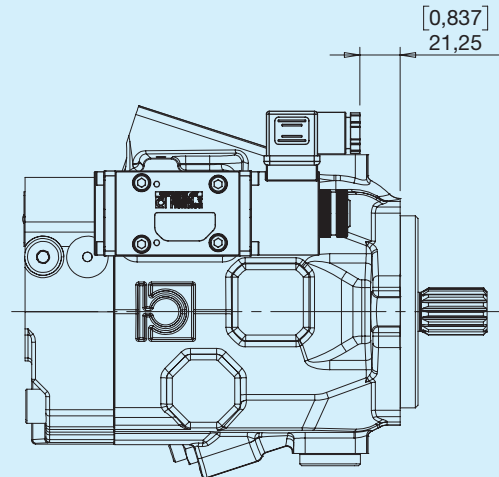
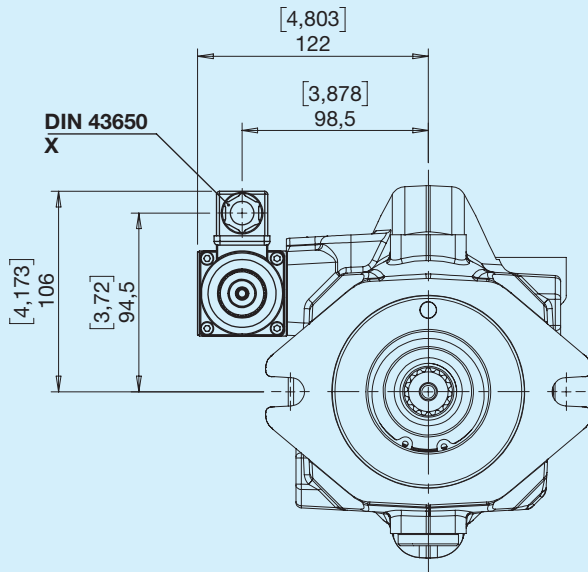
Not available in version N6

Hydraulic diagram



A,B - Use
L1, L2 - Drain port

E Electric 2-position 12V

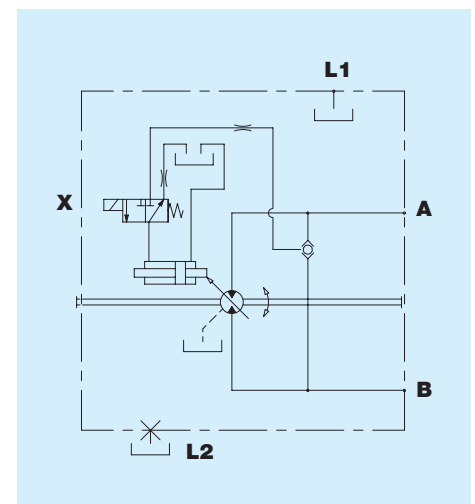


X - Solenoid valve available on request with DEUTSCH DT04-2P connectors

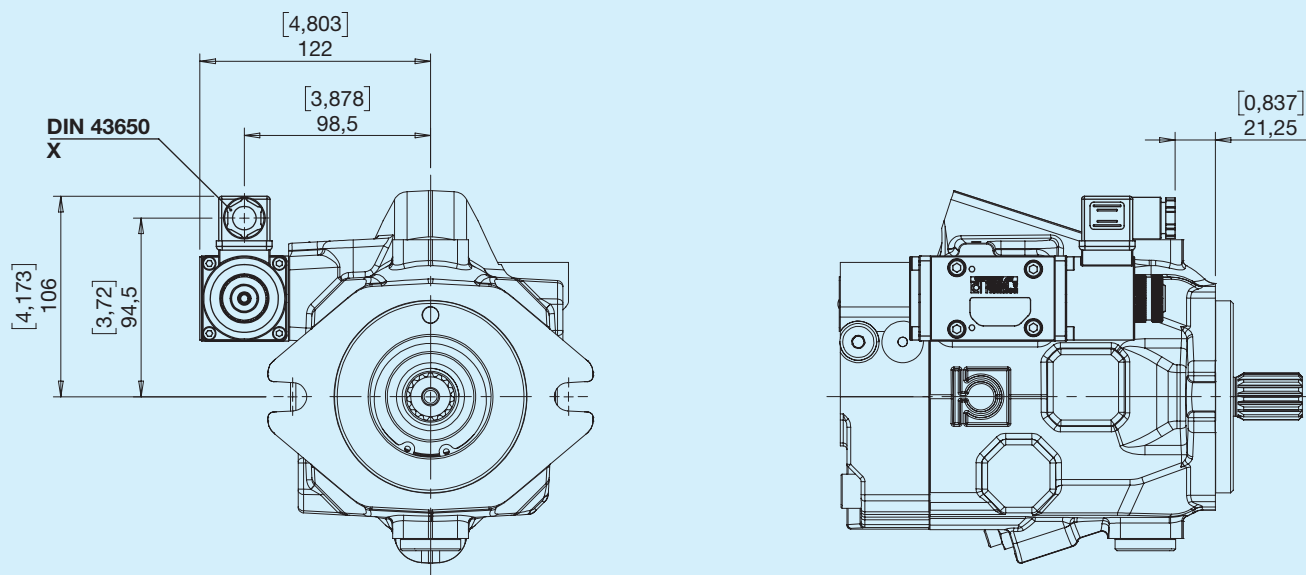
Outlet

Inlet	Rotation
Right	Right
Right	Left

Hydraulic diagram



F Electric 2-position 24V

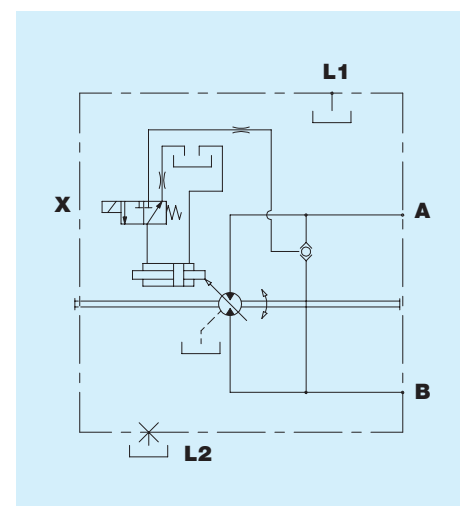


X - Solenoid valve available on request with DEUTSCH DT04-2P connectors

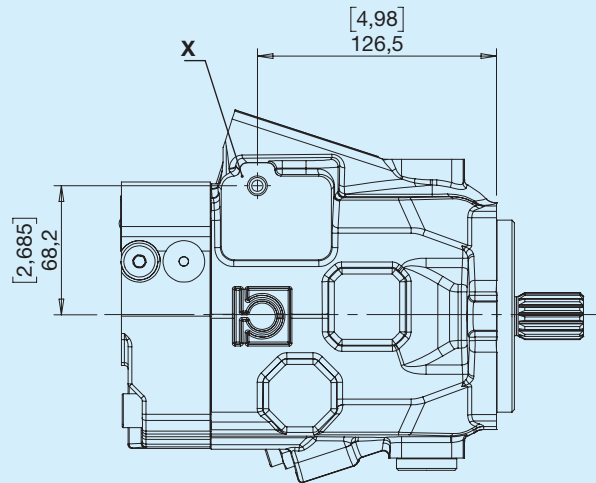
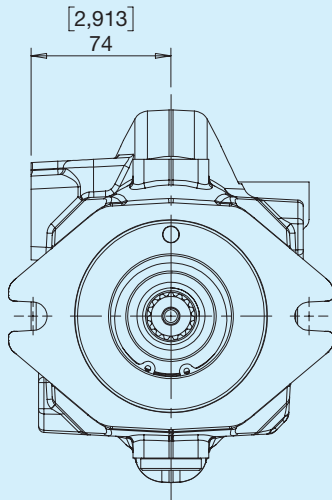
Outlet

Inlet	Rotation
Right	Right
Right	Left

Hydraulic diagram



H Direct hydraulic, 2-position

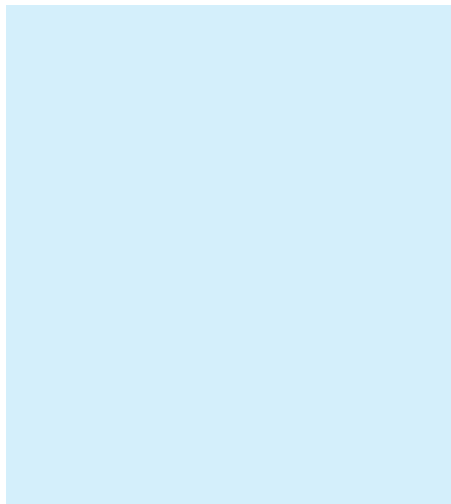


X - Pilot pressure

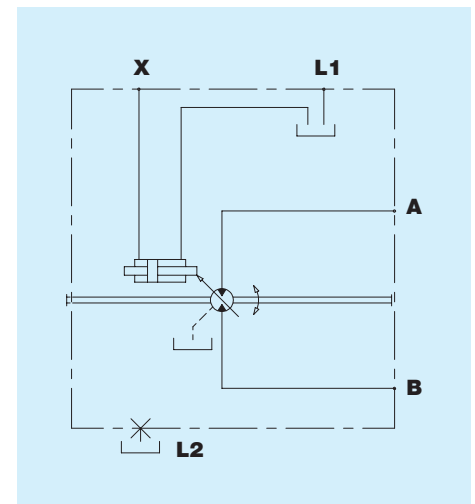
Outlet

Inlet	Rotation
Right	Right
Right	Left

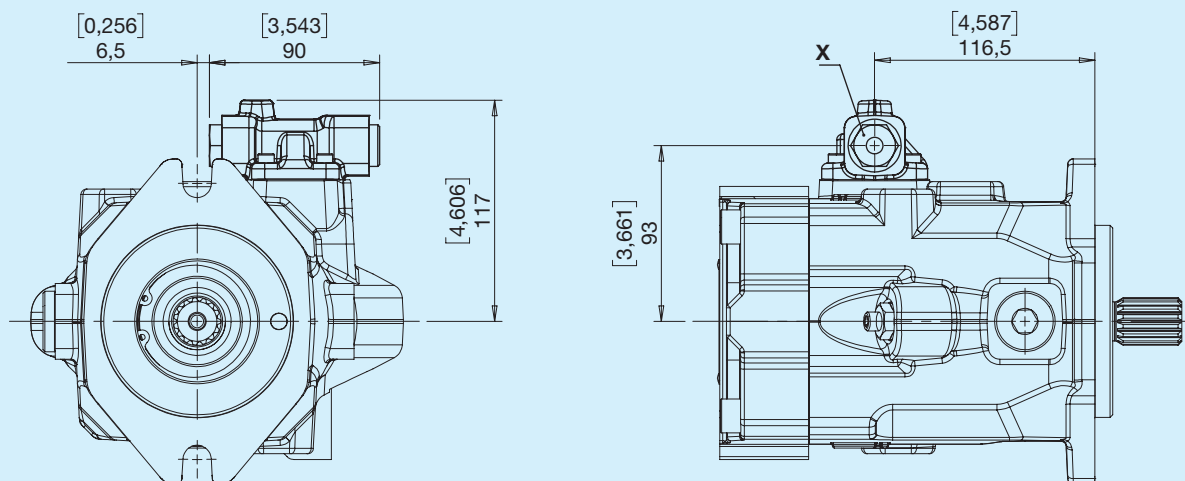
Diagram



Hydraulic diagram



K 2 position hydraulic

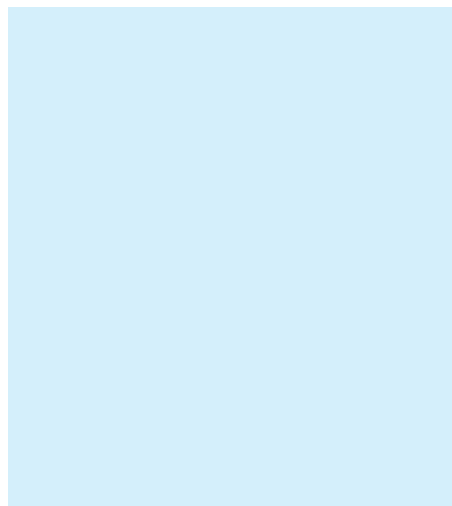


X - Pilot pressure

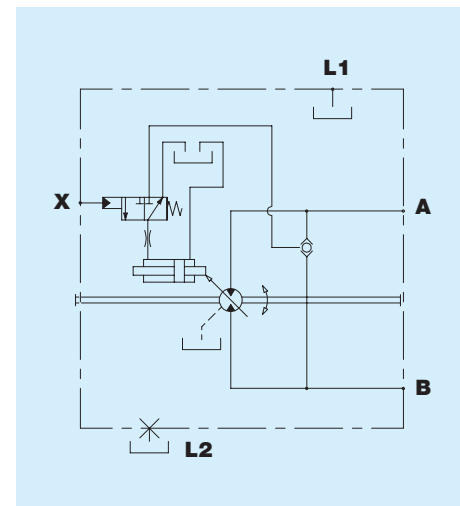
Outlet

Inlet	Rotation
Right	Right
Right	Left

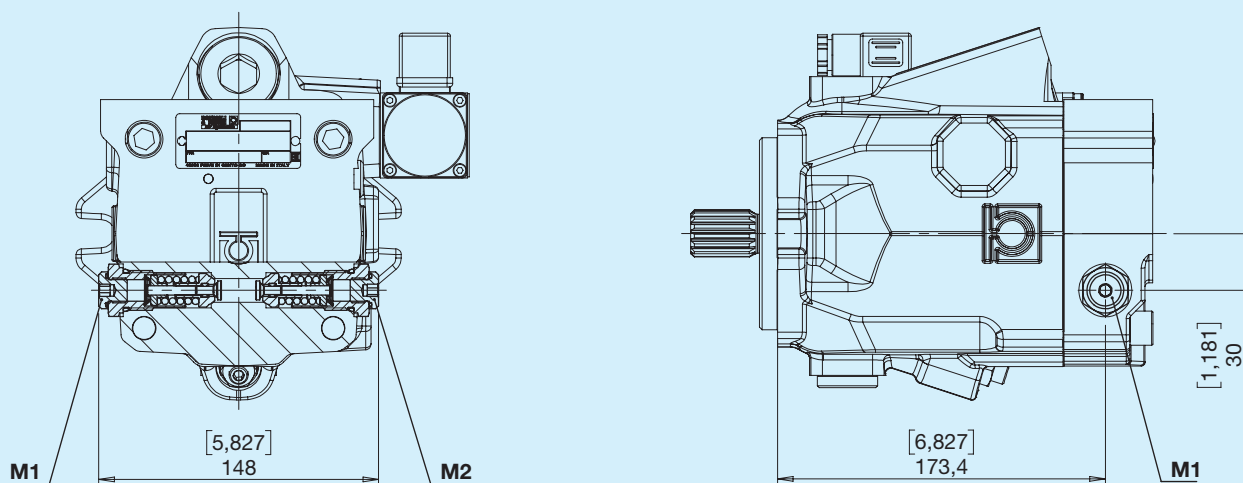
Diagram



Hydraulic diagram

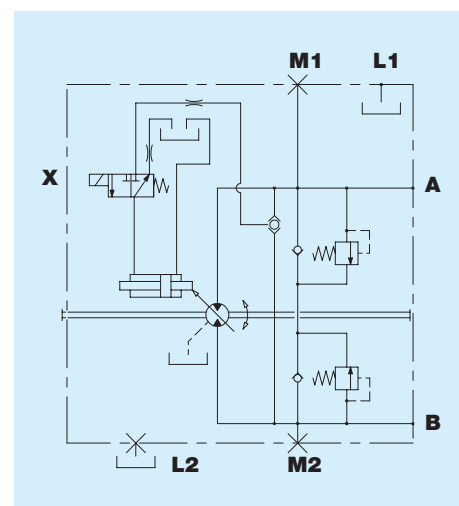


M Pressure relief valve

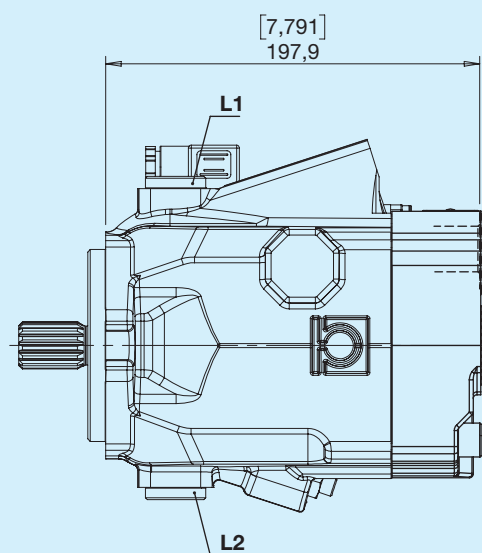
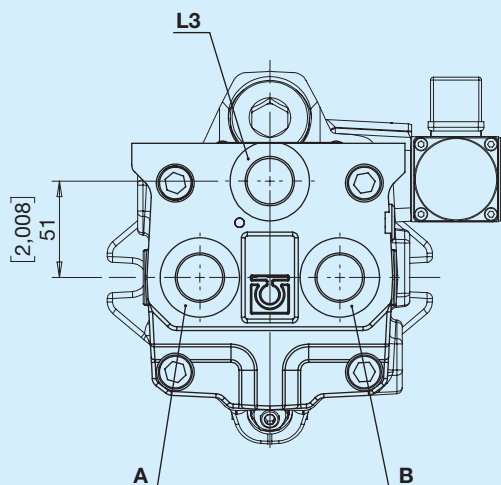


For valve calibration see ordering instructions page

Hydraulic diagram

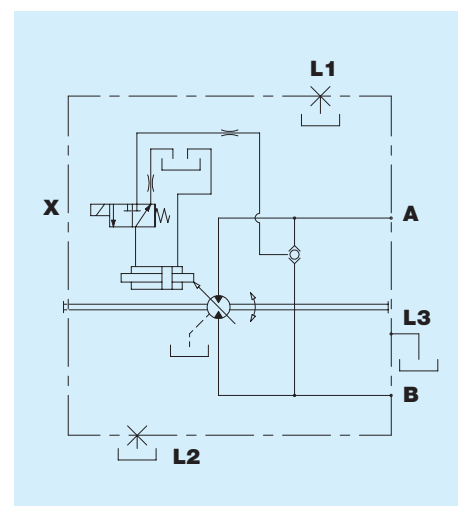


P Rear drainage

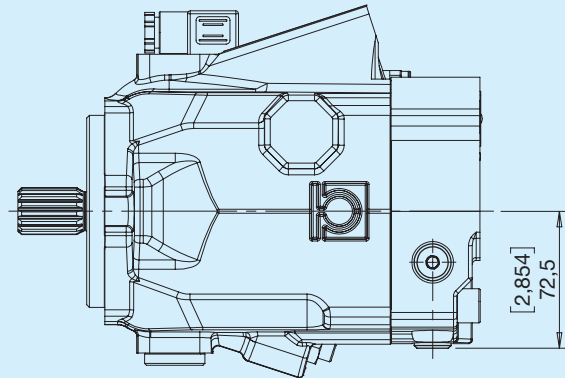
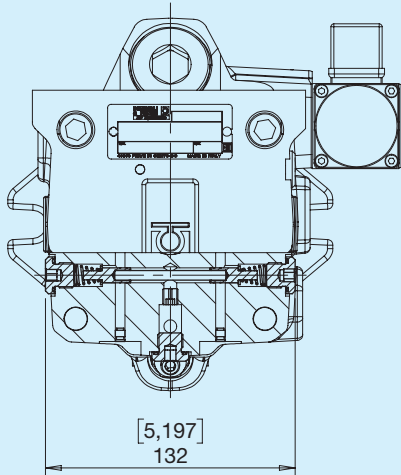


L3 - Drain port

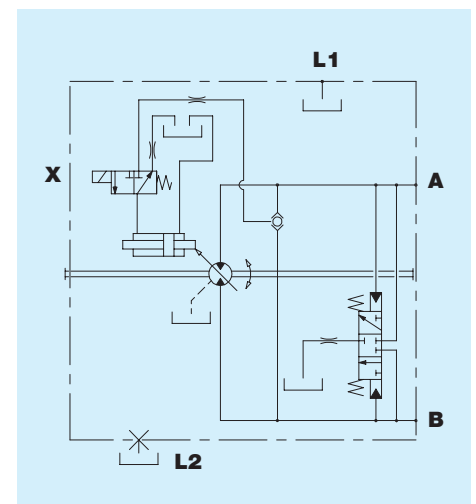
Hydraulic diagram



V Flushing valve (5-7 l/min)



Hydraulic diagram



HPV4A		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1 2		Nominal displacement														
		34					50			65						
		46					58									
3 4 5		Minimum displacement														
		...														
6		Shaft profile														
		1	SAE 15T 16/32 DP				6	Cylindrical Ø22.22				9	SAE 13T 16/32 DP			
7		Type of ports														
		G	Gas				U	Unf				N	Gas-Use SAE for ALA use only			
												M	Unf-Use SAE for ALA use only			
8		Position of ports														
		A	Coupled sideways				L	Opposite sideways				P	Rear			
9		Controls														
		E	Electric 2-position 12V				F	Electric 2-position 24V				H	Direct hydraulic, 2-position			
												K	2 position hydraulic			
10		Accessories														
		0	No option				M	Pressure relief valve				S	Multiple accessories			
		C	Painting				P	Rear drainage				V	Flushing valve			
11		Valve calibration														
		0	without valve				E	210 bar				L	300 bar			
		B	150 bar				G	250 bar				O	350 bar			
		D	180 bar				I	280 bar				P	400 bar			
12 13 14		Special versions														
		...														