

EUROLINE AXIAL PISTON

PVC1

VARIABLE DISPLACEMENT
AXIAL-PISTON PUMP
WITH LS -CONTROL SYSTEM

Features:

Energy saving, fuel economy
and better usage of diesel
engine power

Long-term operation due to
low overall loads

Exclusion of system overheating
and increasing of its service

Low noise



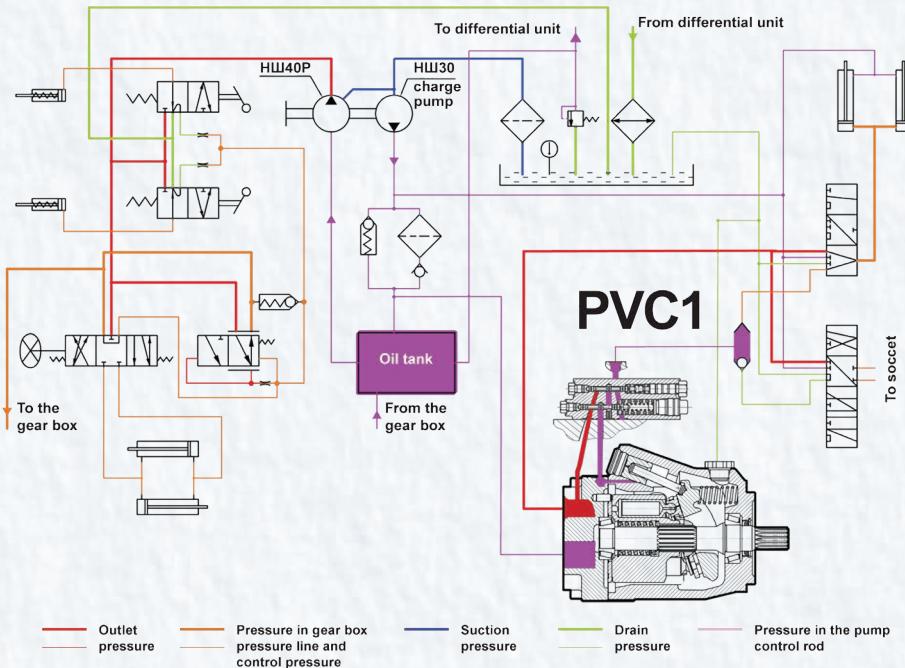
Specification:

	PVC1.28	PVC1.45	PVC1.63	PVC1.85
Displacement, ccm	28,0	45,0	63,0	85,0
Maximum speed, min ⁻¹	3200	2900	2700	
Rated speed, min ⁻¹		2150	2000	
Rated flow, l/min	58,0	93,0	118,4	159,8
Minimum flow, l/min	13,2	21,0	29,4	39,6
Maximum inlet pressure, bar			4	
Maximum outlet pressure, bar			250	
Rated pressure, bar			210	
Weight (without fluid), kg	12,5	17,5	22,5	26,5

Load Sensing system advantages:

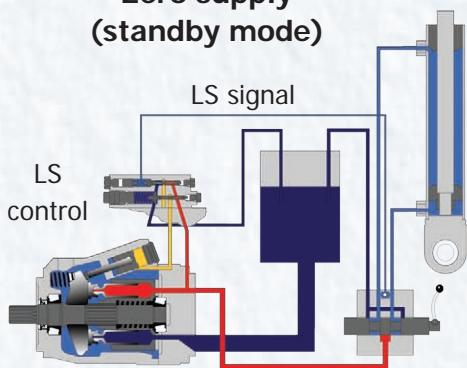
- The load and pressure in the system are controlled through the constant adjustment of the flow of the pump that match the flow requirement in each moment.
- As the LS system works independently there is no need to adjust the flow as the load changes.
- LS - system includes the flow and pressure control.

Example of hydraulic circuit for tractors

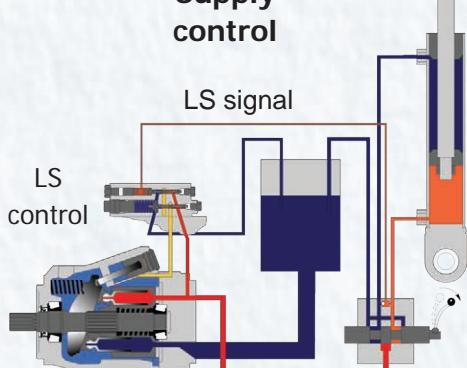


Supply and pressure control (LS)

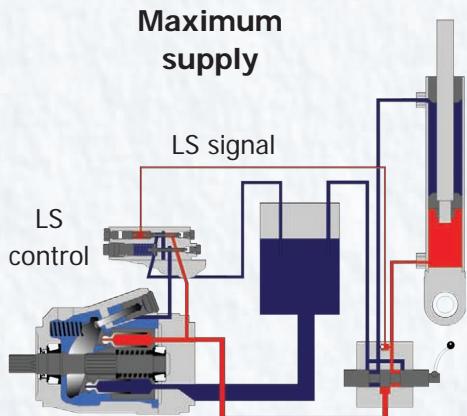
Zero supply (standby mode)



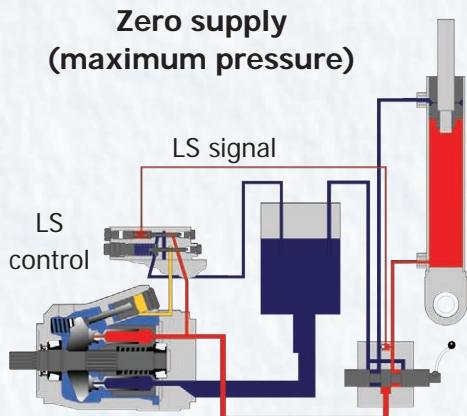
Supply control



Maximum supply

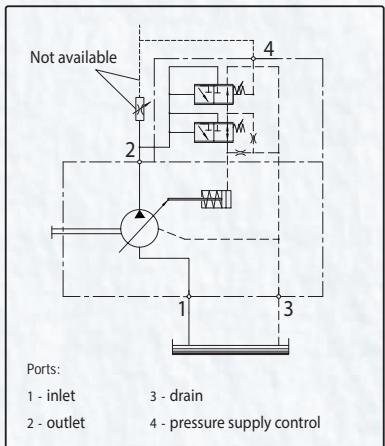


Zero supply (maximum pressure)



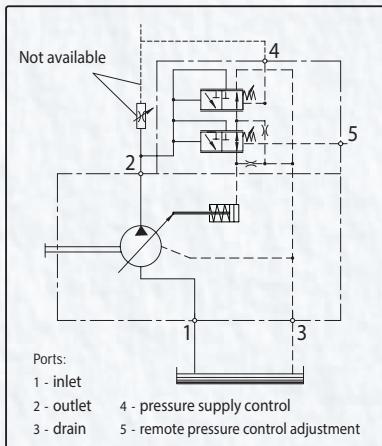
Supply and pressure control

RPD

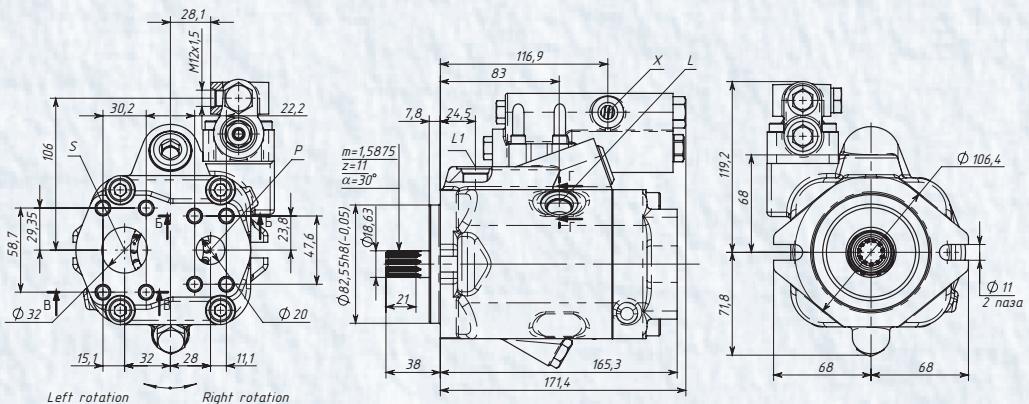


Remote supply and pressure control

RPDY

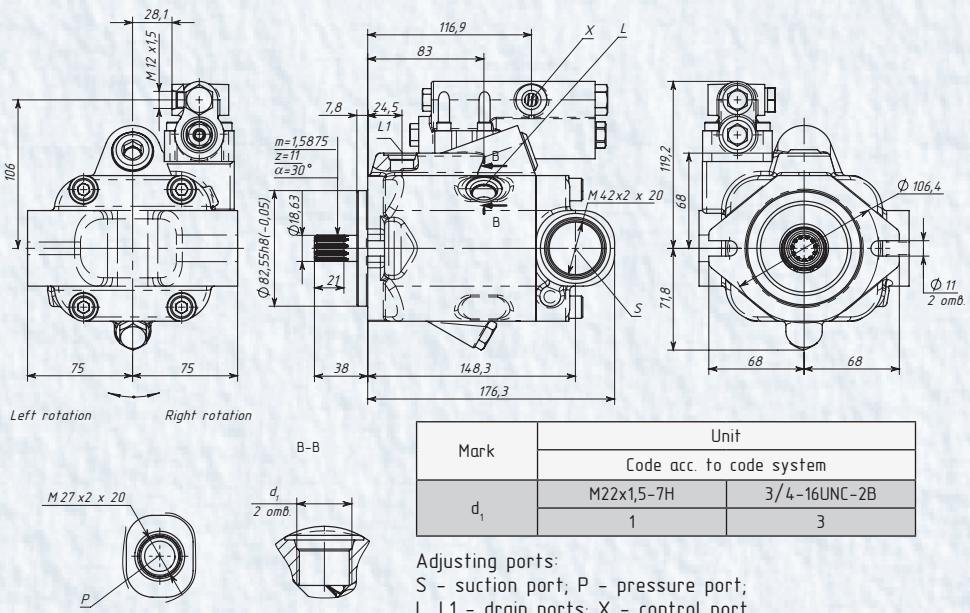


Axial-piston pump with LS control system PVC1.28



Adjusting ports:
 S - suction port; P - pressure port;
 L, L1 - drain ports; X - control port.

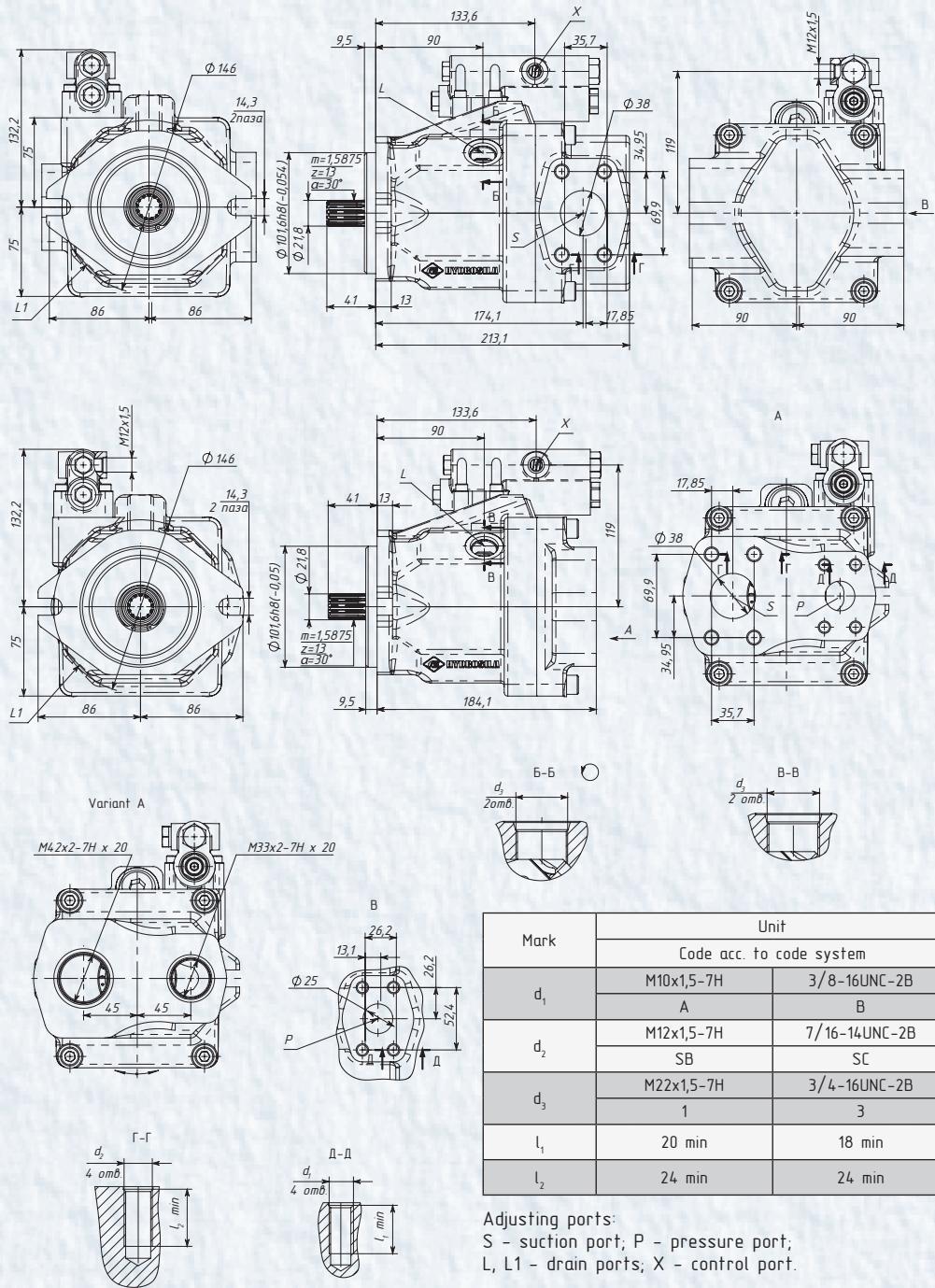
Mark	Unit	
	Code acc. to code system	
d_1	M10x1,5-7H	3/8-16UNC-2B
	A	B
d_2	M12x1,5-7H	7/16-14UNC-2B
	SA	SC
d_3	M22x1,5-7H	3/4-16UNC-2B
	1	3
l_1	17 min	19 min
l_2	17 min	20 min



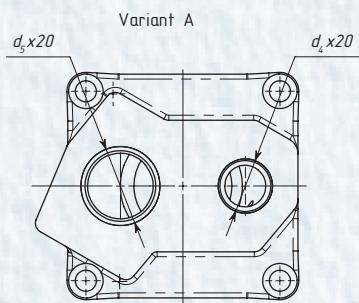
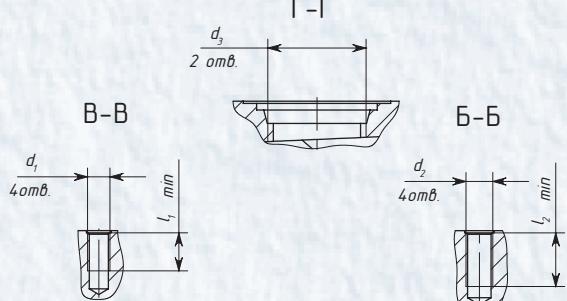
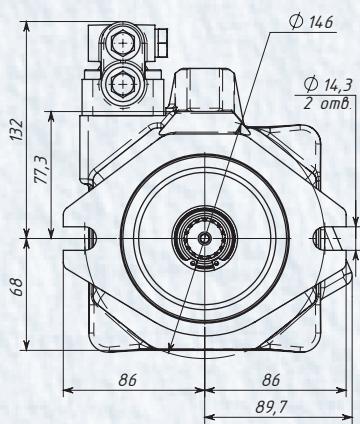
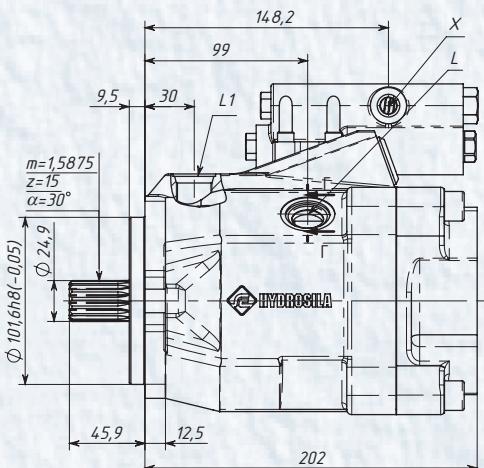
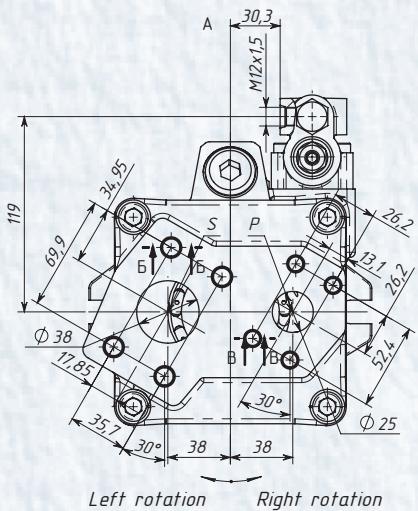
Adjusting ports:
 S - suction port; P - pressure port;
 L, L1 - drain ports; X - control port.

Mark	Unit	
	Code acc. to code system	
d_1	M22x1,5-7H	3/4-16UNC-2B
	1	3

Axial-piston pump with LS control system PVC1.45



Axial-piston pump with LS control system PVC1.63

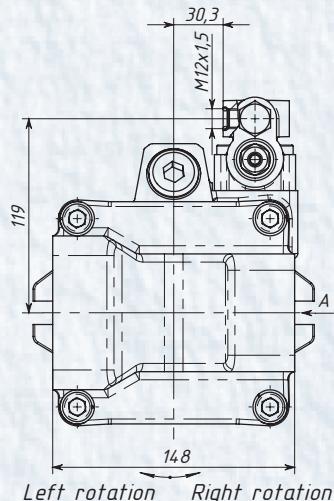
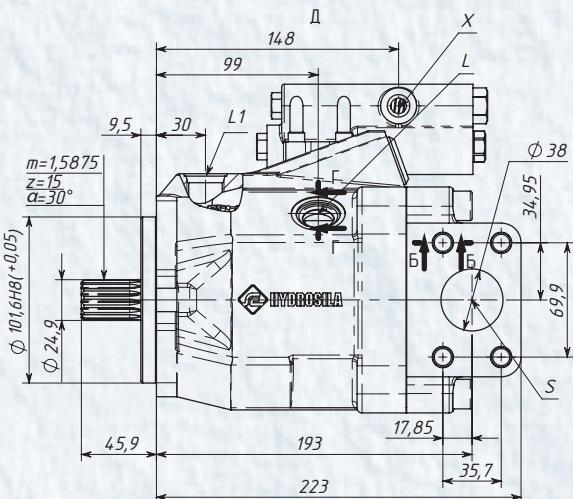
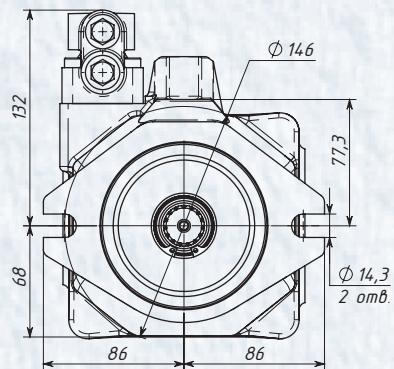


Mark	Unit	
	Code acc. to code system	
d_1	M10x1,5-7H	3/8-14UNC-2B
	A	B
d_2	M12x1,5-7H	1/2-13UNC-2B
	SB	SD
d_3	M22x1,5-7H	7/8-14UNF-2B
	1	2
d_4	M33x2	15/16-12UN-2B
	D	F
d_5	M48x2	17/8-12UN-2B
	SF	SH
l_1	17 min	18 min
l_2	20 min	22 min

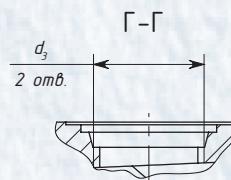
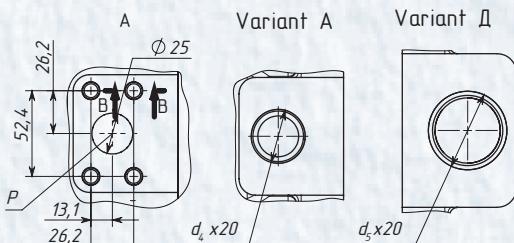
Adjusting ports:

S - suction port; P - pressure port;
L, L1 - drain ports; X - control port.

Axial-piston pump with LS control system PVC1.63

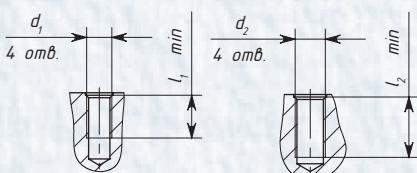


Left rotation Right rotation



Б-Б

Б-Б

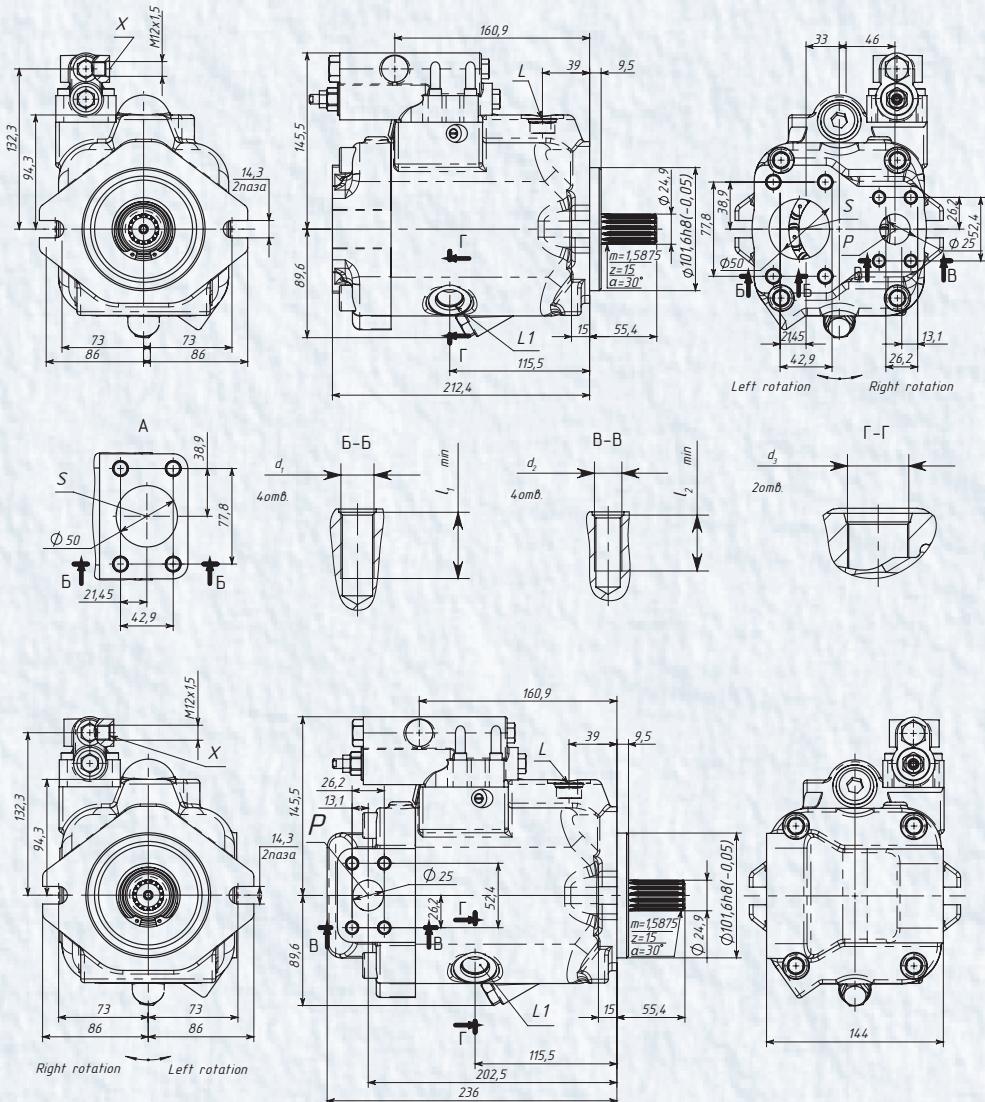


Mark	Unit	
	Code acc. to code system	
d₁	M10x1,5-7H	3/8-16UNC-2B
	A	B
d₂	M12x1,5-7H	1/2-13UNC-2B
	SB	SD
d₃	M22x1,5-7H	3/4-16UNF-2B
	1	3
d₄	M33x2	15/16-12UN-2B
	D	F
d₅	M48x2	17/8-12UN-2B
	SF	SH
l₁	17 min	18 min
l₂	17 min	22 min

Adjusting ports:

S - suction port; P - pressure port;
L, L1 - drain ports; X - control port.

Axial-piston pump with LS control system PVC1.85



Adjusting ports:
 S - suction port; P - pressure port;
 L, L1 - drain ports; X - control port.

EUROLINE
AXIAL PISTON

Mark	Unit	
	Code acc. to code system	
d_1	M12x1.5-7H	1/2-13UNC-2B
	SB	SD
d_2	M10x1.5-7H	3/8-16UNC-2B
	A	B
d_3	M22x1.5-7H	7/8-16UNF-2B
	1	2
l_1	24 min	24 min
l_2	20 min	20 min