

Part number:

HYDROMA

HYDRAULICKÉ SYSTÉMY

**HIDROMA
SISTEMS**

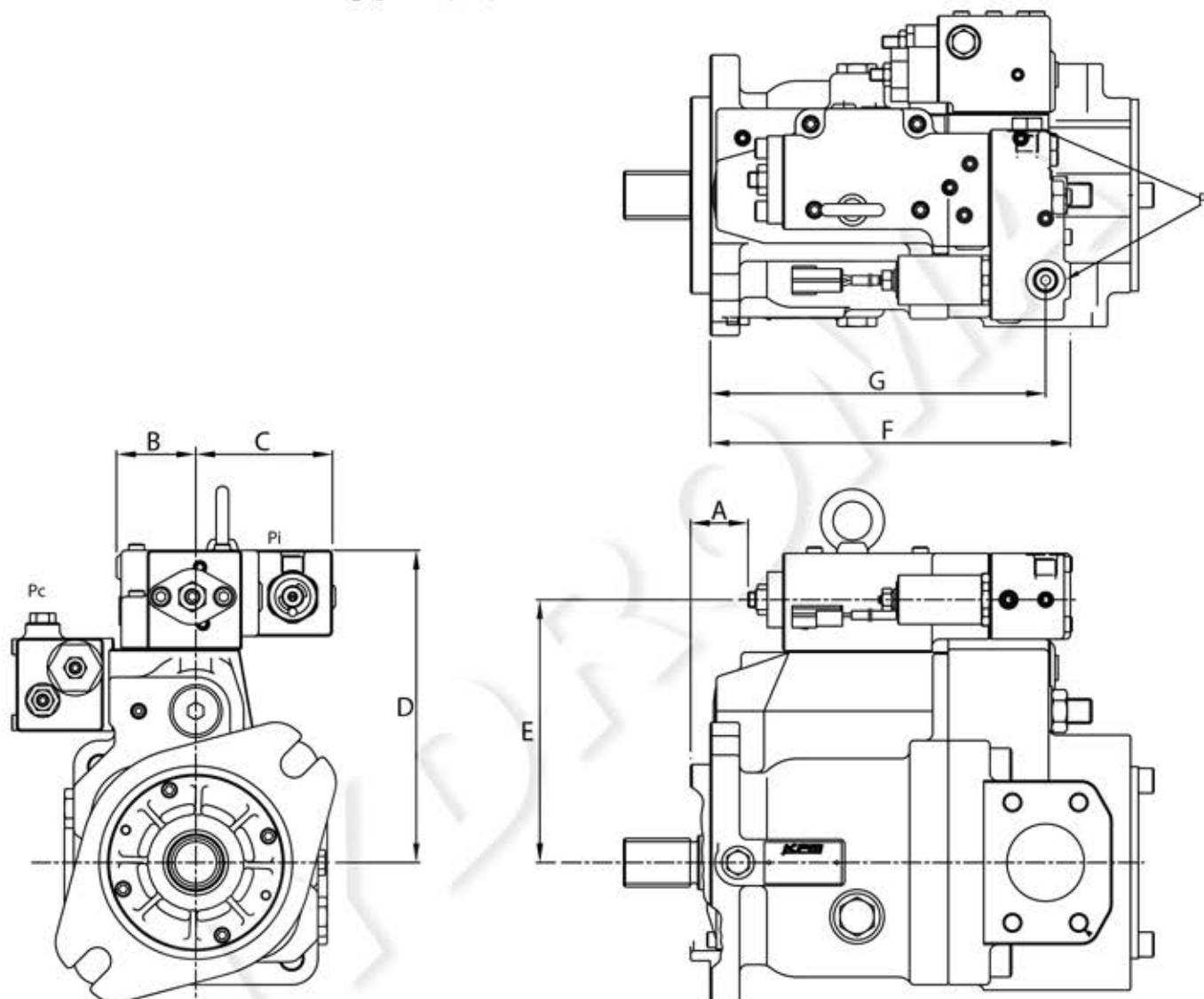
UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

K3VL PUMPS

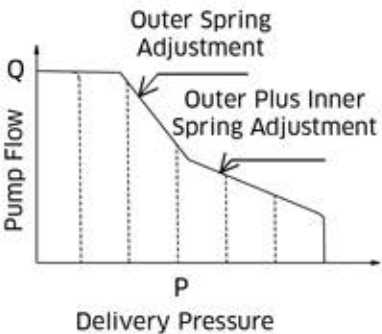
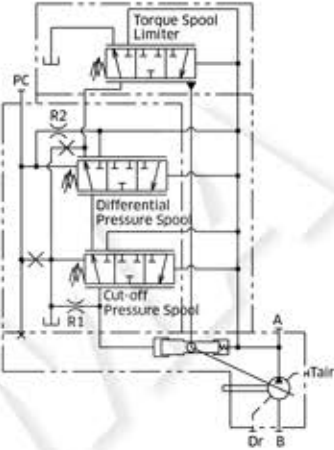
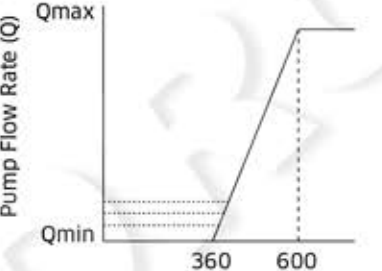
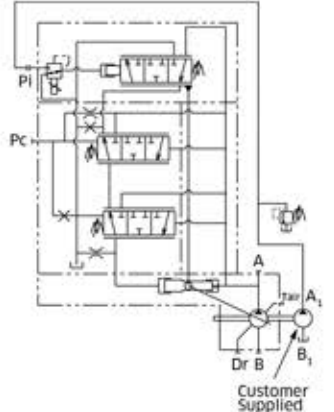
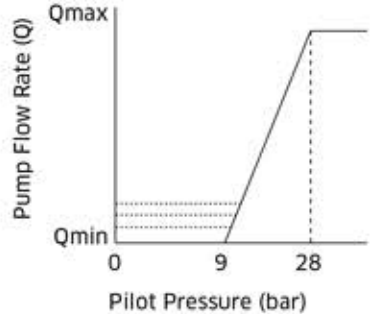
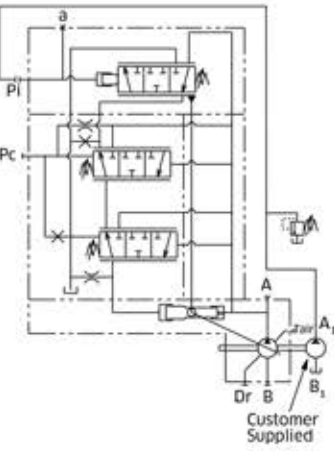
Electrical & Hydraulic Displacement Control Installation (Type Q0, E*)



Installation Dimensions (mm)

Pump Size	A	B	C	D	E	F	G
K3VL45/60	21	52	90	187	157	226	210
K3VL80	25	59	83	202	172	233	217
K3VL112/140	38	64	78	244	214	247	231
K3VL200(H)	57	61	80	258	229	257	249

Functional Description of Regulator (cont)

Regulator Code	Control Curves	Hydraulic Circuit
<p>P0/1 Pressure Cut-off with Torque Limiting</p> <p>P0/1 control functions as previously noted. In response to a rise in delivery pressure the swashplate angle is reduced, restricting the input torque. This regulator prevents excessive load against the prime mover.</p> <p>Note: By connecting the Pc port to a remote pressure control, variable pump pressure control can be achieved.</p>	 <p>Outer Spring Adjustment</p> <p>Outer Plus Inner Spring Adjustment</p> <p>Pump Flow Q</p> <p>Delivery Pressure P</p>	
<p>/1-E0 Electrical Displacement Control</p> <p>Varying the input current signal to the pump controller's electronic proportional pressure reducing valve (PPRV) allows the user to control the pump displacement. As the current signal to the PPRV increases, the pump displacement increases proportionally.</p> <p>Note: An external pressure supply of 40 bar is required at the Pi Port (50 bar max).</p>	 <p>Pump Flow Rate (Q)</p> <p>Qmax</p> <p>Qmin</p> <p>360 600</p> <p>Input Current (mA) of Proportional Pressure Reading Valve</p>	 <p>Customer Supplied</p>
<p>/1-Q0 Pilot Operated Displacement Control</p> <p>Varying the input pressure signal to the Pi port allows the user to control the pump displacement. As the pressure signal to the Pi increases, the pump displacement increases proportionally.</p> <p>Note: An external pressure supply of up to 40 bar is required at the Pi Port (50 bar max).</p>	 <p>Pump Flow Rate (Q)</p> <p>Qmax</p> <p>Qmin</p> <p>0 9 28</p> <p>Pilot Pressure (bar)</p>	 <p>Customer Supplied</p>

Installation (cont)

Electrical and Pilot Operated Displacement Control (Type E0, E1, E2, E3 & Q0)

Type E0 - In order for the electronic displacement control to function, a pilot pressure of 40 bar must be supplied to the Pi port on the regulator. A gear pump attached to the rear of the K3VL pump or an external pressure source can be used to provide the required pilot pressure.

Type Q0 - In order for the Q0 displacement control to function, a variable pilot pressure between 0 and 40 bar is required to be supplied to the Pi port on the regulator.

Proportional Pressure Reducing Valve Specification

Maximum Pilot Pressure : 50 bar (if higher pressure
required contact KPM UK)

Max Flow: : 10 l/min

Hydraulic oil : Mineral oil

Oil temp range : -20~+90°C

Viscosity range : 5~500 cSt

Electrical Specifications

	E0, E1, E2 24V DC	E3 12V DC
Rated Current	700 mA	1,400 mA
Recommended Dither	80 Hz/200 mAp-p	80 Hz/200 mAp-p
Coil Resistance	17.5 Ω	3.2 Ω
Ambient Temperature Range	-30 ~+95°C	-30 ~+95°C
Water Resistance	According to JIS D 0203 S2 SAE J575	According to JIS D 0203 S2 SAE J575
IP Rating	IPX6	IPX6