

## Multistage Electro-hydraulic Pilot Relief Valve

Model: DB2U...5X



**ГИДРООТВЕТ**  
доступная гидравлика

- ◆ Size 10 to 32
- ◆ Maximum working pressure 350 bar
- ◆ Maximum working flow 600 L/min

### Contacts

Function description, sectional drawing	02
Models and specifications	03
Functional symbols	04
Technical parameters	04
Characteristic curve	05
Component size	06-08

### Features

- Subplate mounting
- Threaded connection
- Cartridge connection
- Two-stage pressure setting
- Controlled by solenoid directional valve
- Pressure adjusting forms:
  - Rotary knob
  - Internal hexagon screw with protective cap
  - Lockable rotary knob with scale



Functional symbols

Supply and drain internal	DB2U...H.../...		DB2U...D.../...	
Supply external and drain internal	DB2U...H.../...X		DB2U...D.../...X	
Supply internal and drain external	DB2U...H.../...Y		DB2U...D.../...Y	
Supply and drain external	DB2U...H.../...XY		DB2U...D.../...XY	

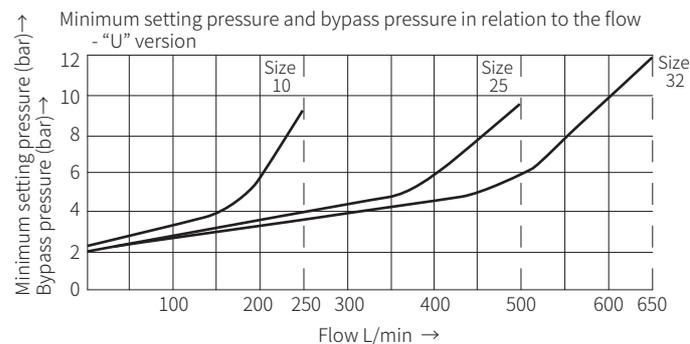
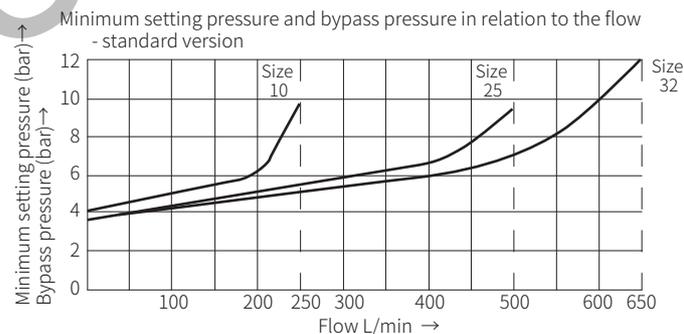
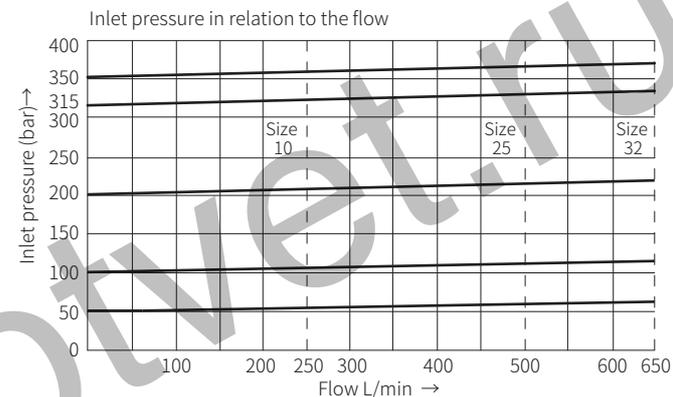
Technical parameters

Size		10	15	20	25	30
Flow (L/min)	threaded connection valve	200	400	600		
	subplate mounting valve	200	400	600		
Working pressure	Mpa	Port A, B, X to 35				
Port Y back pressure	Mpa	to 31.5				
Minimum setting pressure	Mpa	Related to flow, see characteristic curve				
Maximum setting pressure	Mpa	35				
Medium		Mineral hydraulic oil or phosphate hydraulic oil				
Viscosity range	mm <sup>2</sup> /s	10 to 800				
Working medium temperature range	°C	-30 to +80 (NBR seal) -20 to +80 (FKM seal)				
Solenoid valve characteristic		See 4WE6 solenoid valve				

Characteristic curve

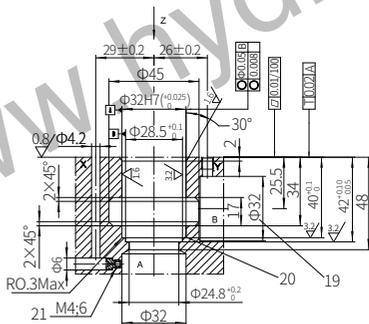
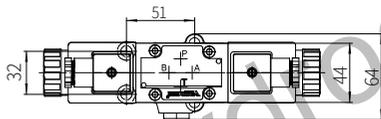
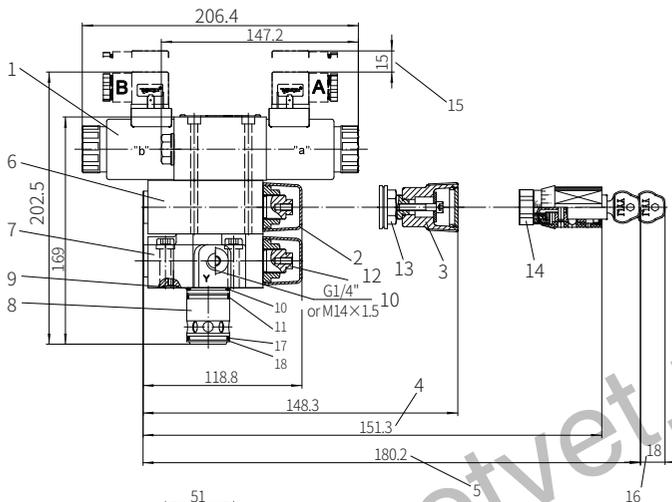
(Measured when using HLP46,  $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$ )

The curve was measured at zero pressure for externally controlled oil leakage. For internal control oil return, the pressure at port B is added to the command value.

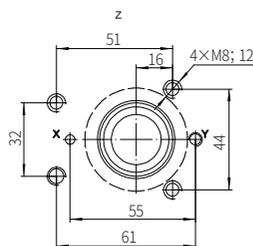




with (DBC2U10 or 30) or without (DBC2U)



Required surface finishing of mating components



- 1 Solenoid directional valve (type H, type D, optional)
- 2 Adjustment form "2"
- 3 Adjustment form "1"
- 4 Adjustment form "3"
- 5 Adjustment form "7"
- 6 Secondary pilot valve
- 7 Primary pilot valve
- 8 Main spool
- 9 O ring 9.25x1.78
- 10 O ring 28x2.65
- 11 O ring 28x1.8

- 12 External hexagon screw S=10
- 13 Hexagon nut S=24
- 14 External hexagon screw S=24
- 15 Space required to remove the plug
- 16 Space required to remove the key
- 17 O ring 27.3x2.4
- 18 Retainer ring 32x28.4x0.8
- 19 The Φ32 hole can intersect Φ45 hole at any position
- 20 The retainer ring and O-ring should be installed in this hole before install main spool
- 21 Throttle must be ordered separately

Valve fixing screw  
M8x40-10.9 grade GB/T70.1-2000  
Tightening torque  $M_A=34.3\text{Nm}$   
it must be ordered separately  
if connection subplate is needed  
G51/01(G1/4"); G51/02 (M14x1.5)