

PROPORTIONAL ELECTRO-HYDRAULIC P-Q VALVE(WFBG)



Technical Specification

Model		WFBG-02-*-*	WFBG-03-*-*	WFBG-06-250-*
Maximum pressure (Bar)		315		
Maximum Flow (L/min)		40	160	250
Flow range (L/min)		1-40	2-160	3-250
Pressure control	Rated current (mA)	800		
	Coil resistance (mA)	19.5	43.5	43.5
	P Different (Mpa)	0.6	0.6	0.7
	Hysteresis (mA)	<5	<7	<7
	Repeatability (W)	<1		
Flow control	Pressure range (Bar)	16:15-160 25:15-250 31.5:15-315	16:15-160 25:15-250 31.5:15-315	16:15-160 25:15-250 31.5:15-315
	Rated current (mA)	800		
	Coil resistance (Ω)	10	10	10
	Hysteresis (%)	<3		
	Repeatability (%)	<1		
Cleanliness		Filter is recommended for the highest fluid pollution degree;the lowest specific filtration resistance according to ISO 4406 (C) 20/18/15.		

This proportional valve adopts two electrical loops to control pressure and flow of hydraulic system respectively. Using very small pressure drop to track load pressure and control the pump pressure, it is an energy-saving valve.

Model Instruction

WFBG — * * — * — /90 — *

Proportional electro-hydraulic control P-Q valve

Remarks

Design serial number

Working pressure

160: 160Bar

250: 250 Bar

315 : 315 Bar

Z : Directly operated

Specification

02 : DN 6

03 : DN 10

06 : DN 25

Flow range :

02 Specification

20 20 l/min

40 40l/min

03 Specification

125 125l/min

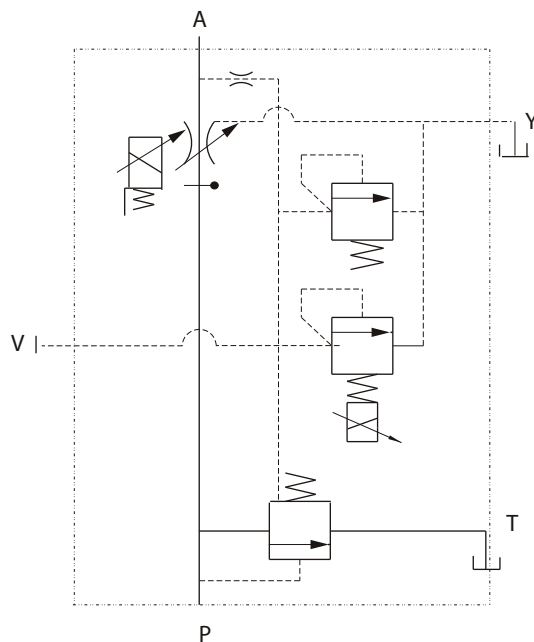
160 160l/min

06 Specification

250 250l/min

PROPORTIONA ELECTRO-HYDRAULIC CONTROL P-Q VALVE (WFBG)

Code Symbol

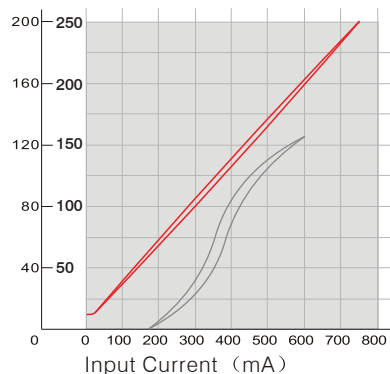


02,03,06 Characteristic Curves (Measured at $\nu=36 \times 10^{-6} \text{ m}^2/\text{S}$ $t=50^\circ\text{C}$)

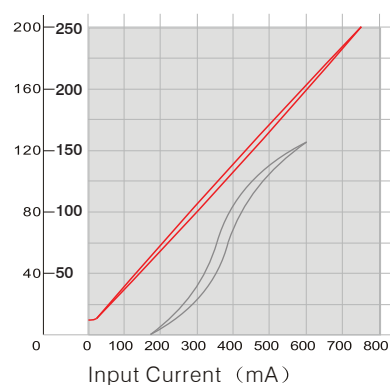
Output flow, output pressure/input current curves

Output flow (L/min) ———

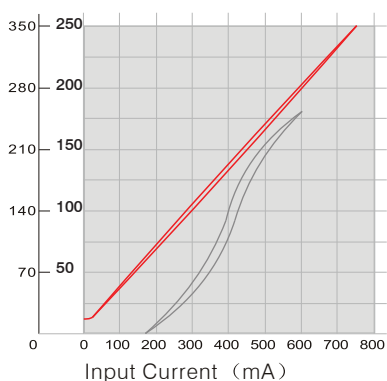
Output pressure (Bar) ———



WFBG-02/40-25



WFBG-03/160-25

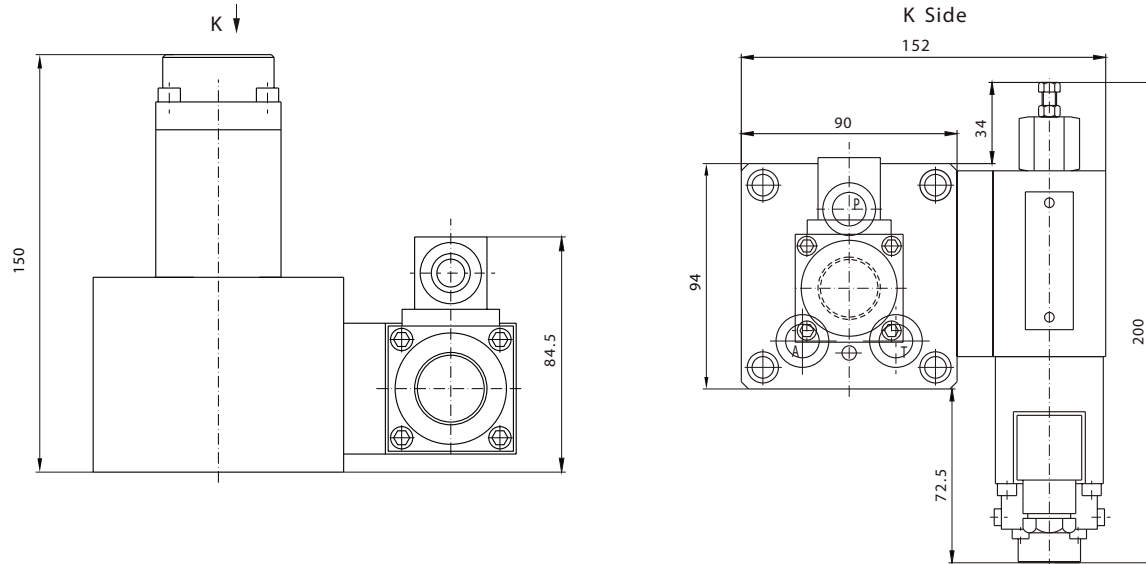


WFBG-06/250-25

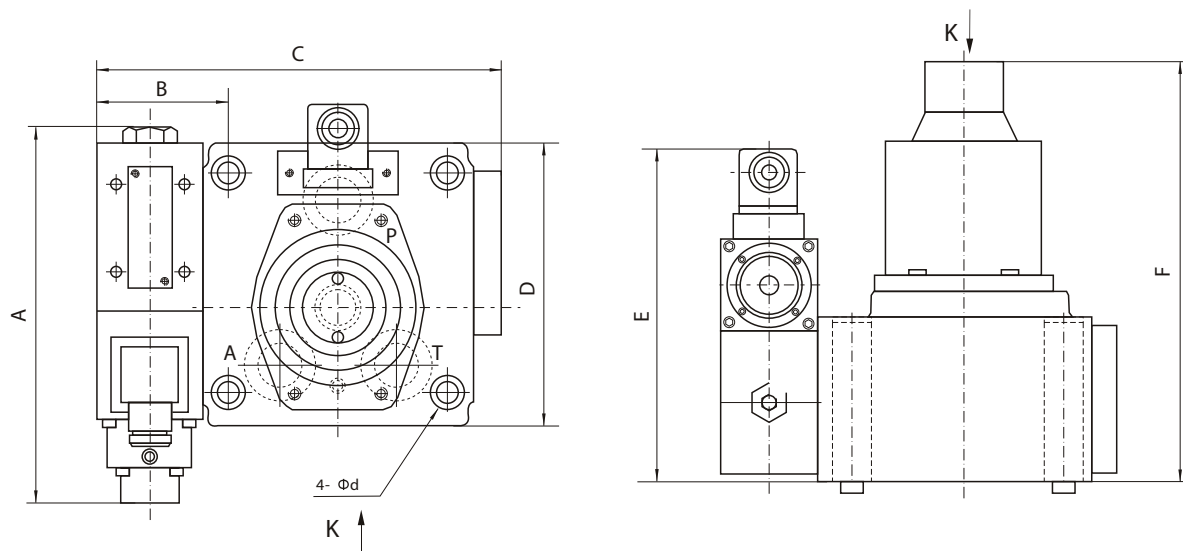
PROPORTIONAL ELECTRO-HYDRAULIC CONTROL P-Q VALVE (WFBG)

External Dimensions

WFBG-02



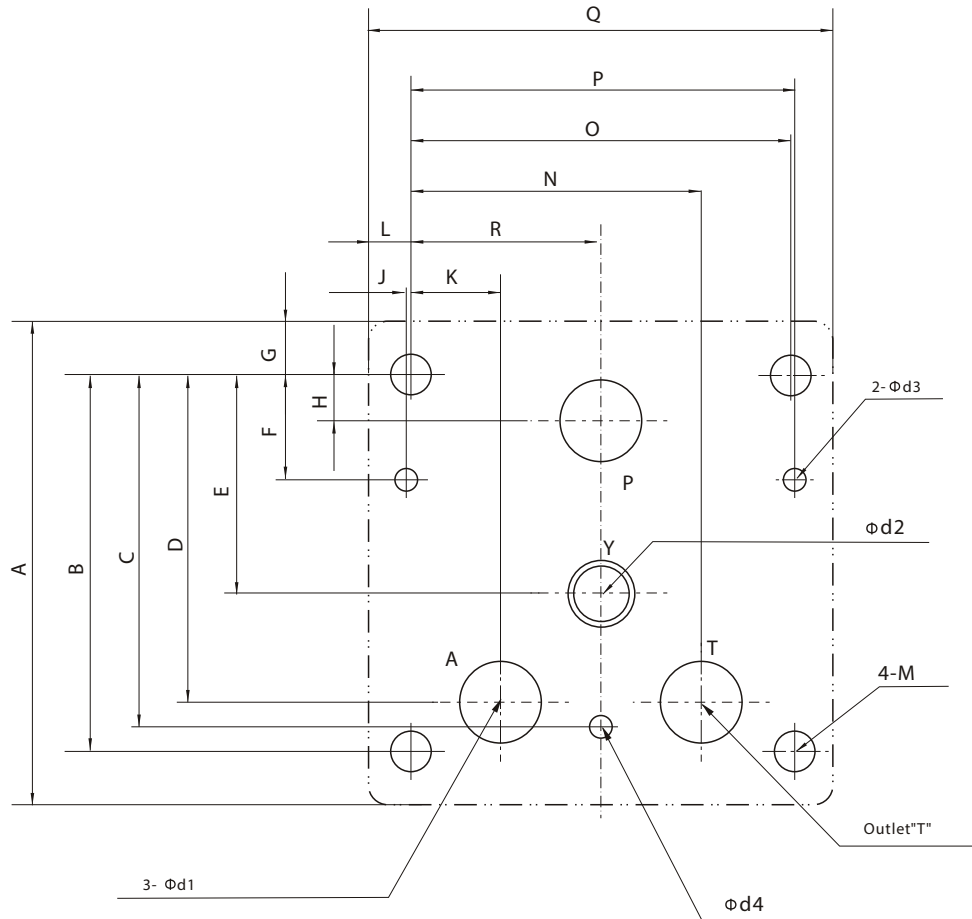
WFBG-03,06



Model	A	B	C	D	E	F	d
WFBG-03	171	61.7	188	130	171	216	11
WFBG-06	171	67	247	174	199.5	248	17.5

PROPORTIONAL ELECTRO-HYDRAULIC CONTROL P-Q VALVE (WFBG)

Plate Size



The surface, connecting with the valve, should be Ra0.8 roughness, and 0.01/100mm flatness.

Model	A	B	C	D	E	F	G	H	J	K	L	R	N	O	P	Q	M	d ₁	d ₂	d ₃	d ₄
WFBG-02	84	76	70	65	43	21.5	9	10	1	16.5	9	36	55.5	72	73	90	M8/14	14	10	7×7L	6
WFBG-03	130	101.6	95.3	88.9	59	28.6	14.2	12.7	0.8	23.8	11.7	50.8	77.8	101.6	102.4	124	M10/19	23	11	7×7L	6
WFBG-06	174	133.4	133.4	107	82.2	41.3	24	12.7	1.6	28.1	17	73.1	118.1	146.1	144.5	180	M16/30	29	14	17×10L	6.2

Note in use

- Discharge back press ≤ 2Bar
Return back press ≤ 5Bar
- Minimum stable flow under controlled pressure
Nominal size 03, 06 ≥ 10 l/min
Nominal size 10 ≥ 15 l/min
- Vent hole orientation can be adjusted freely: Put it upward to vent off the air from the piping