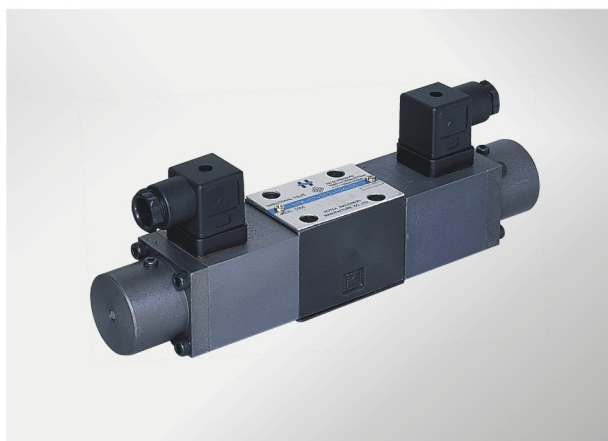


# Proportional directional valve

A.5.1



This product is a direct-action valve with one or two proportional solenoids to control the flow rate and directions in the hydraulic system.

## Technical specification

Specification	02	03	
Maximum pressure (MPa)	31.5		
Return pressure (MPa)	<16		
Maximum flow (l/min)	17	50	
Hysteresis (%)	6		
Repeatability (%)	<3		
-3dB Frequency response(Hz)	5	3	
Rated current (mA)	800、1500		
Filtration accuracy (um)	≤20		
Hydraulic fluid	Mineral oil, phosphate-ester		
Viscosity (mm <sup>2</sup> /s)	2.8~100		
Fluid temp. (°C)	-20~70		
Coil resistance (Ω)	19.5		
Weight (Kg)	2-Position	1.9	2.6
	3-Position	3.8	4.5
Cleanliness	Filter is recommended for the highest fluid pollution degree; the lowest specific filtration resistance according to ISO 4406 (C) 20/18/15.		

## Model instruction

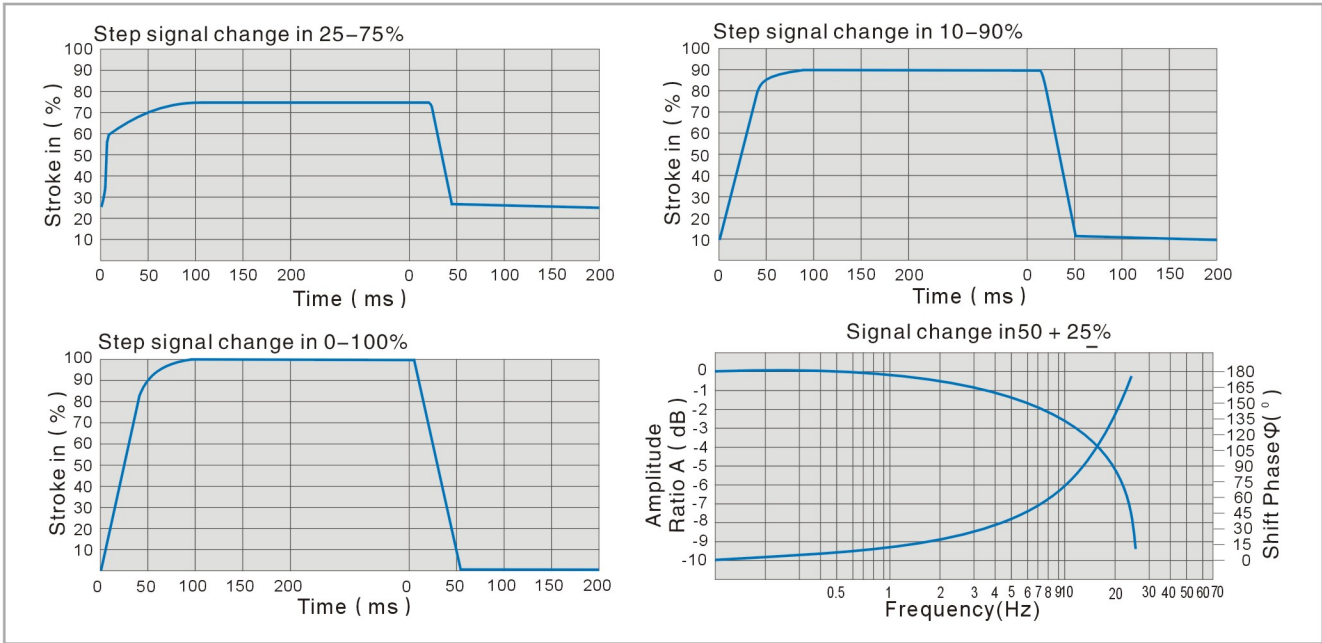
<b>BFW</b> — * — * — * — <b>50</b> *		Remarks
Proportional directional valve		Design serial number
Specification 02 DN 6 03 DN 10		Nominal flow (based on 1MPa pressure drop) 02 Specification 8 8 l/min 13 13 l/min 17 17 l/min 03 Specification 18 18 l/min 27 27 l/min 50 50 l/min
Symbol		

## Code symbol

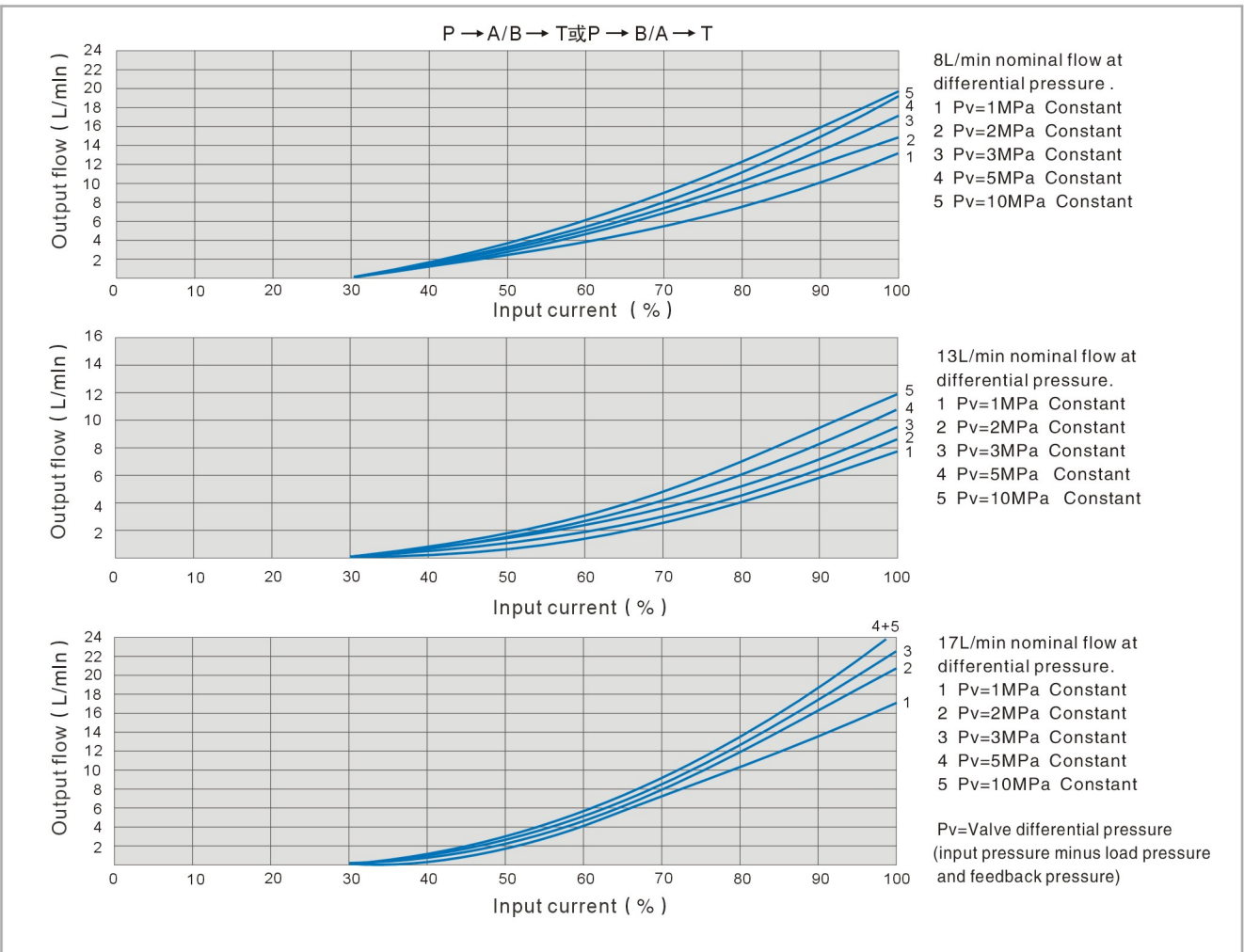
<b>3C2</b> <b>3C2 (1)</b>		<b>3C40</b> <b>3C40 (1)</b>	
<b>2B2B</b>		<b>2B40B</b>	
For functional symbol 3C2(1) and 3C40(1) P → A: Qvmax    B → T: Qvmax/2    P → B: Qvmax/2    A → T: Qvmax			

# Proportional directional valve

## 02 Model characteristic curves (Measured at $v=36 \times 10^{-6} \text{ m}^2/\text{S}$ $t=50^\circ\text{C}$ )

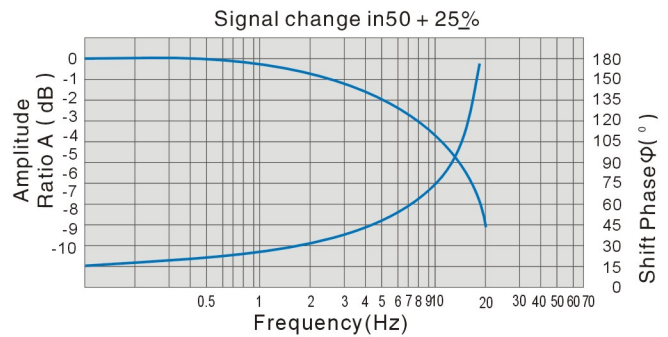
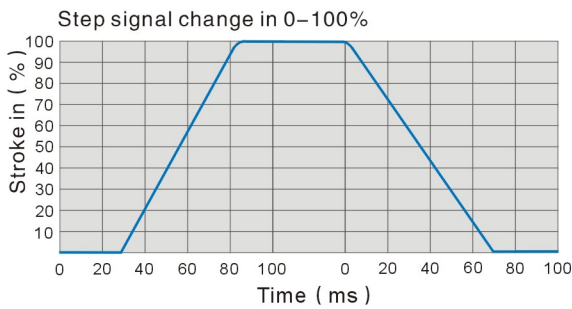
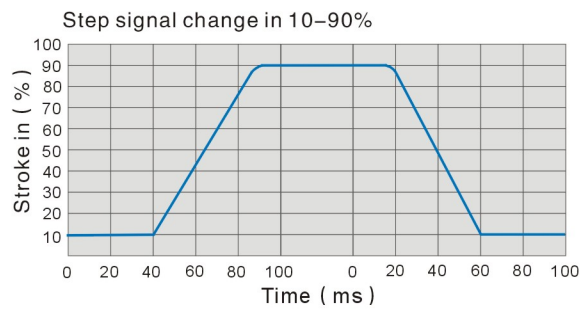
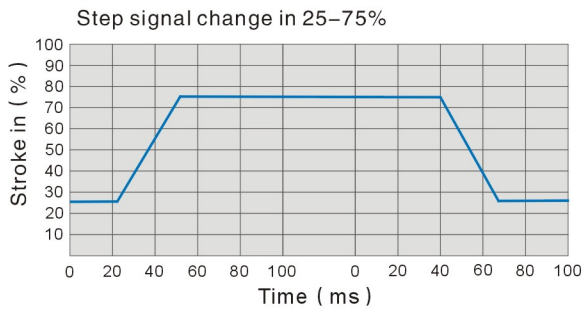


## 02 Model characteristic curves (Testing Condition $v=36 \times 10^{-6} \text{ m}^2/\text{S}$ $t=50^\circ\text{C}$ )

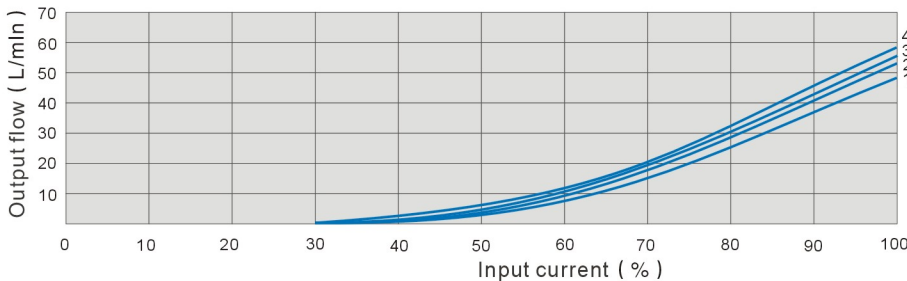
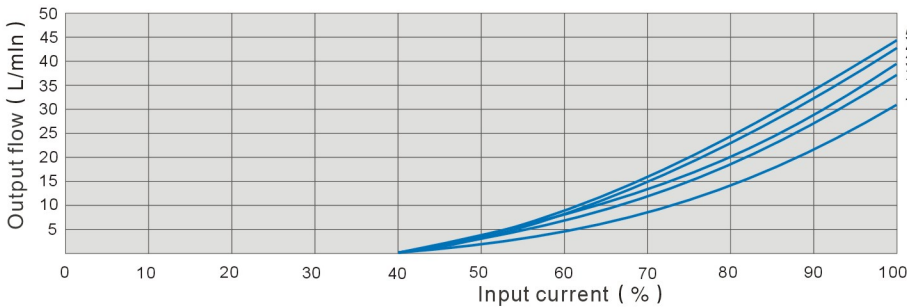
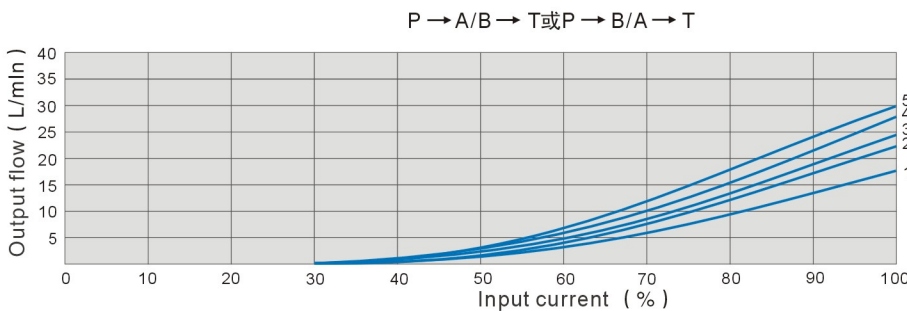


# Proportional directional valve

## 03 Model characteristic curves (Measured at $v=36 \times 10^{-6} \text{ m}^2/\text{S}$ $t=50^\circ\text{C}$ )



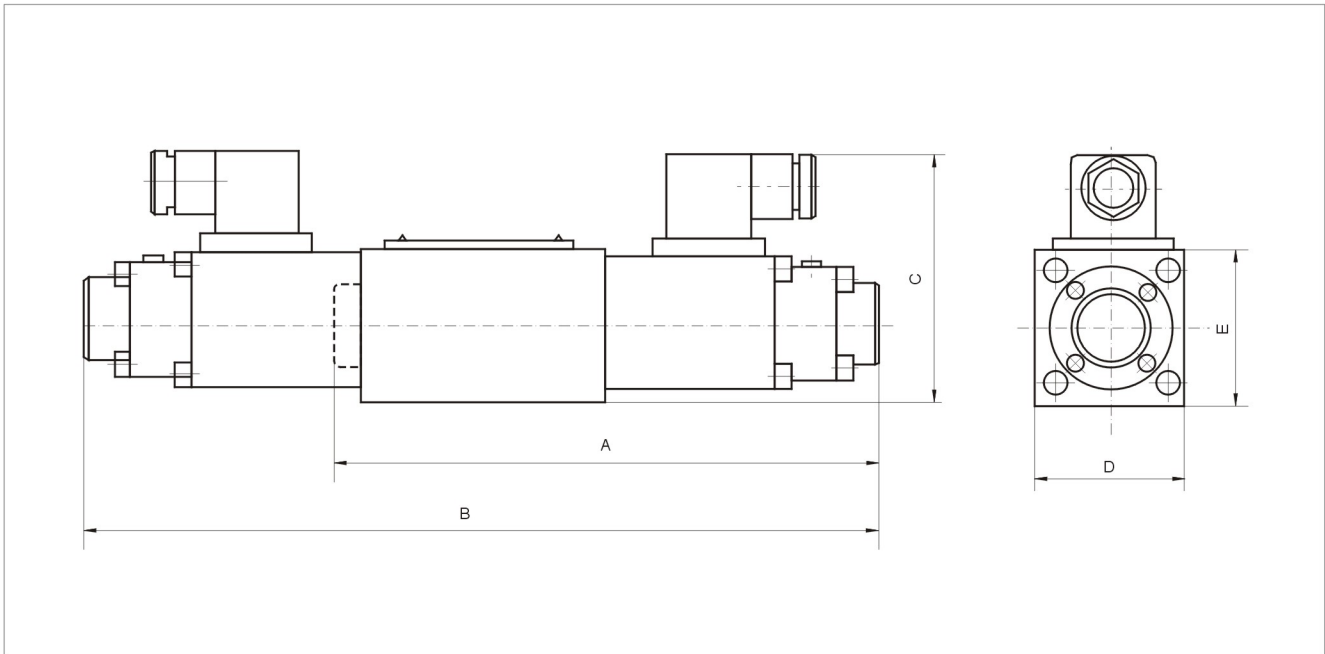
## 03 Model characteristic curves (Measured at $v=36 \times 10^{-6} \text{ m}^2/\text{S}$ $t=50^\circ\text{C}$ )



Pv=Valve differential pressure (input pressure minus load pressure and feedback pressure)

# Proportional directional valve

## External dimensions



Specification	A	B	C	D	E
BFW-02	171	250	78	47	47
BFW-03	205	285	100	70	68

## Plate size

