

DN04 Modular Pilot Check Valve

Technical specification



DN	4
Max. working pressure (MPa)	31.5
Max. Flow (L/min)	30
Working fluid	Mineral oil;phosphate-ester
Fluid temp. (°C)	-20~70
Viscosity (mm²/s)	2.8~500
Opening pressure (MPa)	a 0.2 b 0.4
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.

Model description

HYAM2CP - * - * / * 10 *

Dn04 Modular pilot check valve

A A Pipeline
B B Pipeline
W AB Pipeline

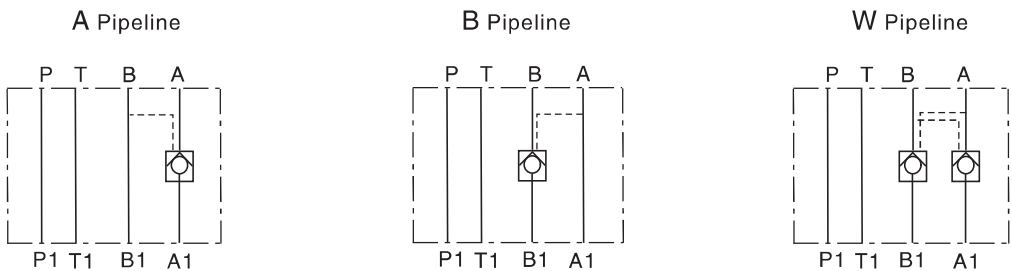
Opening pressure
a 0.2MPa
b 0.4MPa

Remarks

Serial number

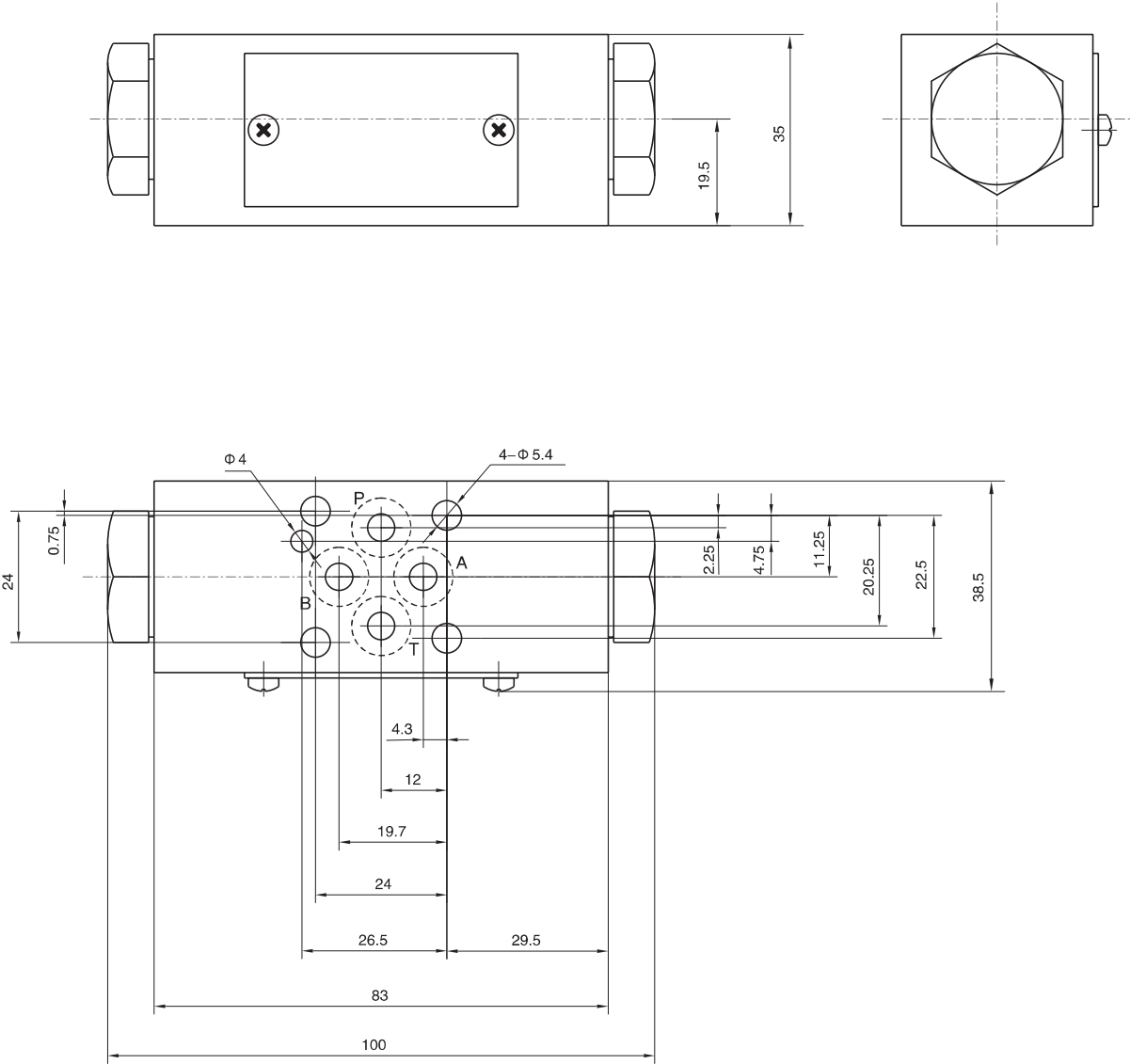
Seal material
Omit NBR Seals
V FPM Seals

Code symbol



DN04 Modular Pilot Check Valve

External dimensions



DN04 Solenoid Valve

Technical specification



Specification		04
Max. working pressure (MPa)	Port P、A、B	25
	Port T	10
Max. Flow (L/min)	25	
Working fluid	Mineral oil;phosphate-ester	
Fluid temp. (℃)	-20~70	
Viscosity (mm ² /s)	2.8~100	
Working voltage (V)	DC 12	DC 24
Insulation grade	IP55	
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS1638.It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.	

Solenoid valve is controlled by the solenoid to move the spool, so as to control the oil flow direction. It could be used in hydraulic system directly, control the oil on/off; also could be used as pilot valve, to control other valves.

Model description

4 4Port	4	HYWE4	-	*	-	*	*	*	/	*	*	50	*	Remarks
DN04 Solenoid valve														Serial number
Spool type Details refer to symbol list														Seal material Omit NBR Seals V FPM Seals
Vdtage D12 DC12V D24 DC24V														Omit without damping 08 Φ0.8 Damping 10 Φ1.0 Damping 12 Φ1.2 Damping
Z5L Square connector with light Z6 Wire box type														Omit without hand emergency N9 with concealed hand emergency

DN04 Solenoid Valve

Code symbol

Spring return

3C2		2B2B		2B2BL		2B2	
3C3		2B3B		2B3BL		2B3	
3C4		2B4B		2B4BL		2B2L	
3C6		2B6B		2B6BL		2B3L	

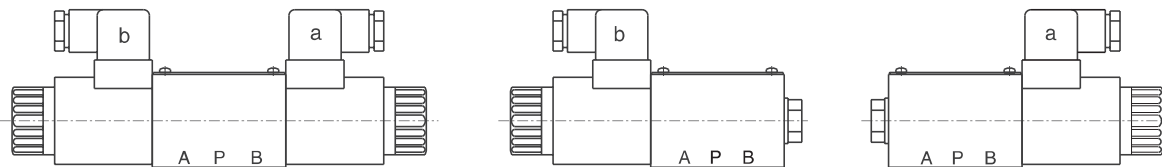
With detent

	2D2
	2D3

No spring return and no detent mechanical positioning

	2N2
	2N3

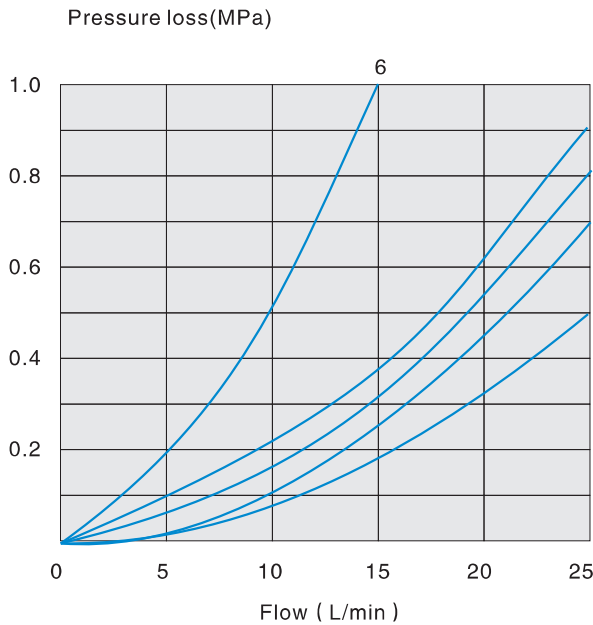
Name of solenoid



1. a When movement a, P→A B→T
2. b When movement b, P→B A→T
3. Oil flow in the opposite direction with the above-mentioned movement for 3C5, 3C6symbol Valve.

DN04 Solenoid Valve

Specification Performance curve (Measured at $v=41\text{mm}^2/\text{s}$ and $t=50^\circ\text{C}$)

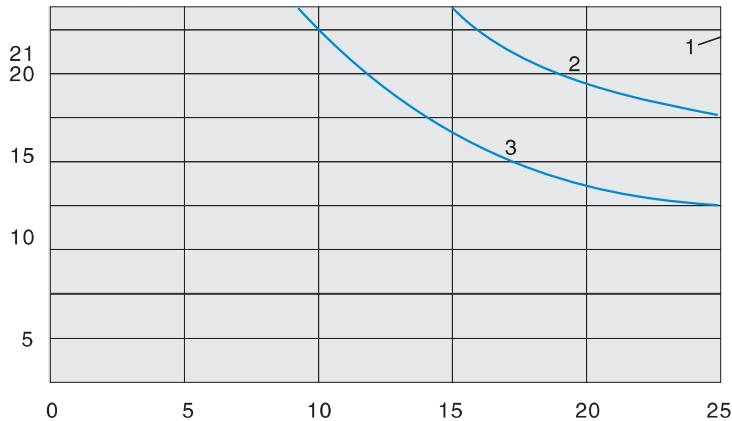


Function code	Direction				
	P→A	P→B	A→T	B→T	P→T
2B2 2B2L	5	5	4	4	–
3C2	4	4	3	3	–
3C6	3	3	4	4	6
3C3	1	1	1	1	–
3C4	5	5	3	3	–

Specification Working limits

With regard to the four–way valve, the normal flow data as shown is get from the regular use of two directions of the flow (e.g.P to A,and simultaneous return flow from B to T). See tables. If only one flow direction is needed, for example: When a four port valve which is closed up port A or port B, used as a three–way valve, the Maximum flow may be very small in the serious condition.
(The working limits for directional valves have determined by using solenoids at their operating temperature, 10% under voltage and with no pre–loading of the tank)

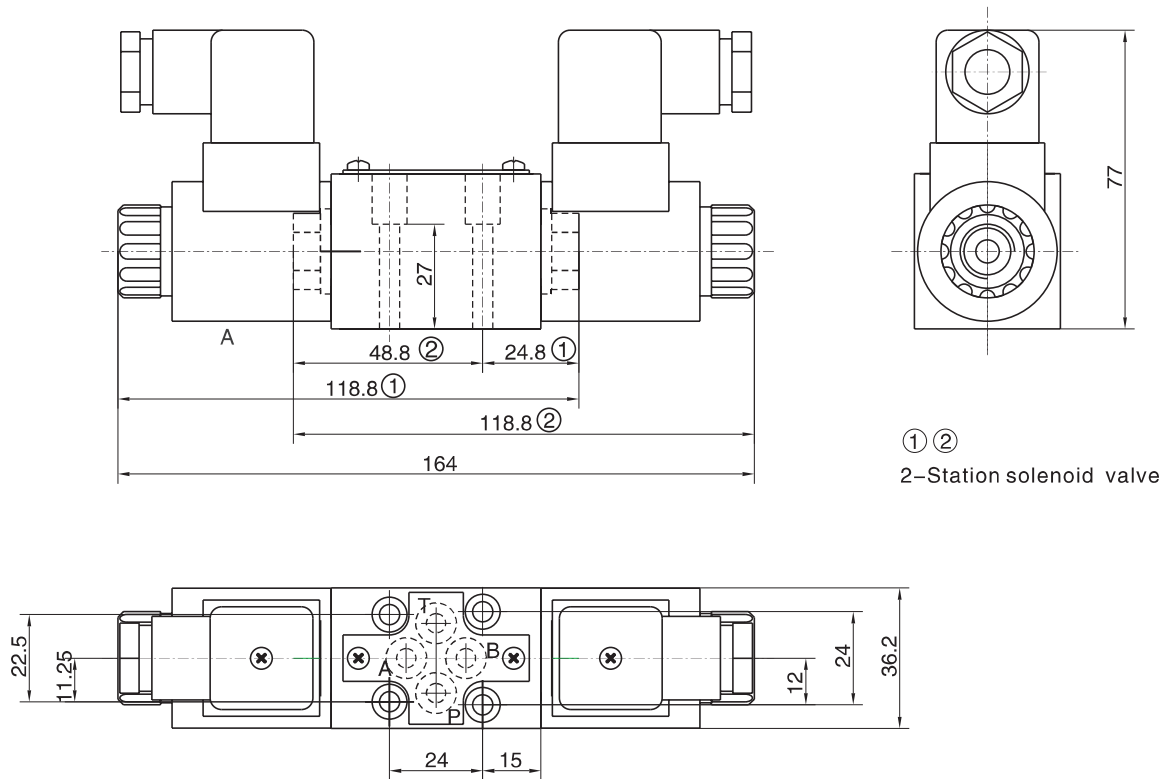
Working pressure(MPa)



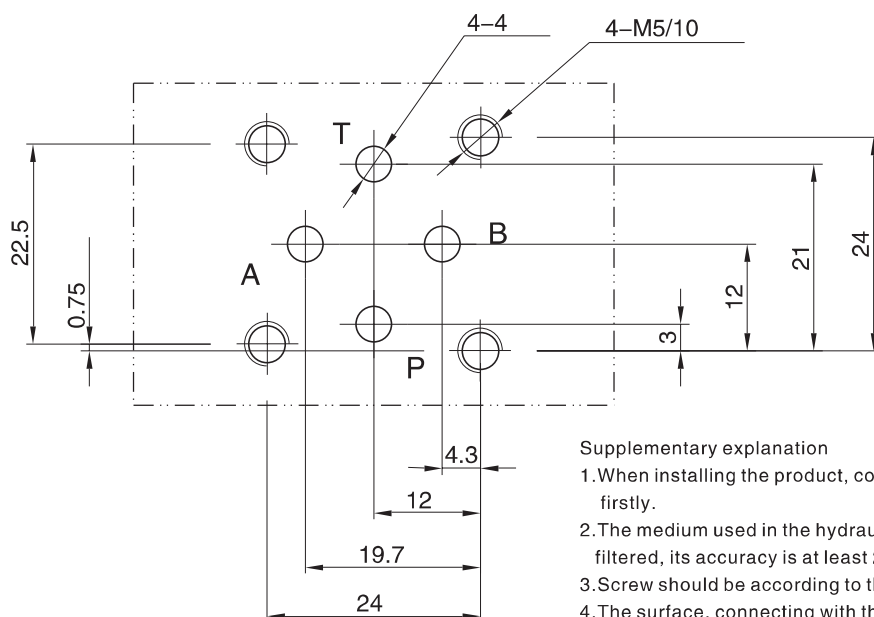
Cunoe	Spool
1	2B2 2D2 2N2 2B2L
2	3C2 3C4
3	3C6

DN04 Solenoid Valve

External dimensions



Size of subplate

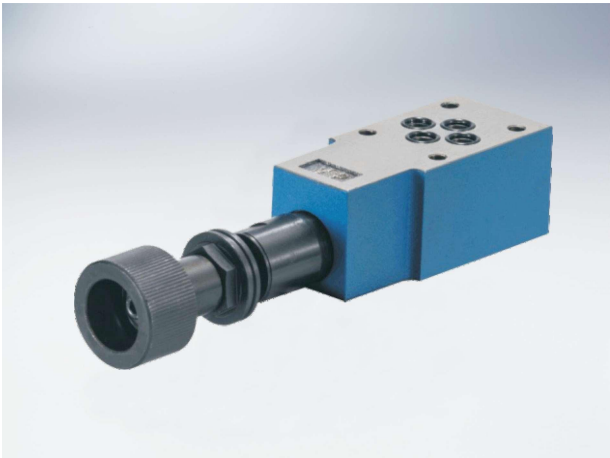


Supplementary explanation

1. When installing the product, considering horizontal position firstly.
2. The medium used in the hydraulic system must be filtered, its accuracy is at least $20 \mu\text{m}$.
3. Screw should be according to the parameters in catalogue.
4. The surface, connecting with the valve, should be $Ra0.8$ roughness, and $0.01/100\text{mm}$ flatness.

Modular Relief Valve

Technical specification

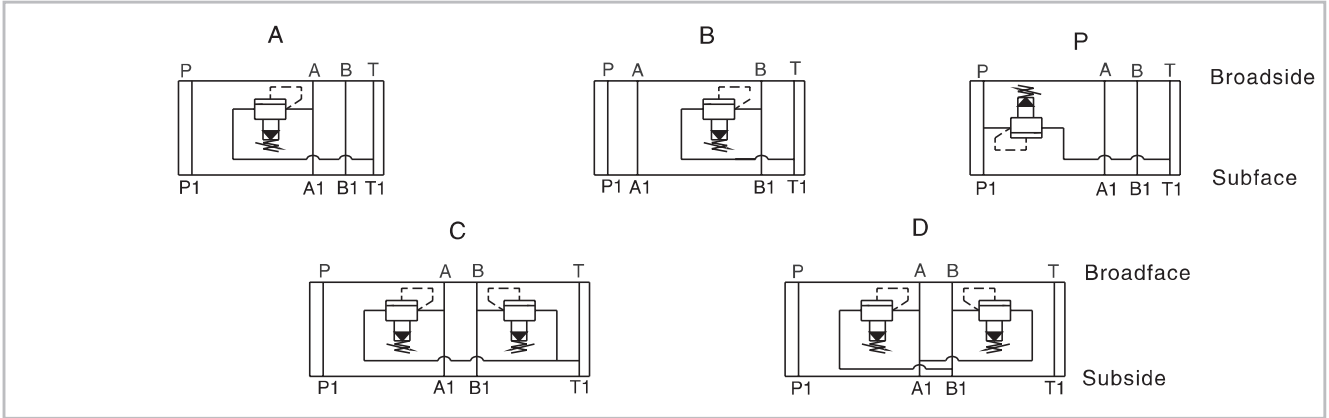


Specification	02	03
Max working pressure (MPa)	31.5	
Max F (L/min)	60	100
Working fluid	Mineral hydraulic oil; phosphate ester hydraulic oil	
Fluid temp.(°C)	-20~70	
Viscosity (Mm²/s)	10~800	
Working voltage (MPa)	5, 10, 20, 31.5	
Cleanliness	NAS1638 Class 9, recommended filtration precision Min β ≥75.	

Ordering code

Modular relief valve		DY	-	*	*	-	*	-	*	/	*	50	*	Remark
Size														Serial number
02 DN 6														Seal material
03 DN10														omit NBR
Relief method														V FPM
P P→T														1 handle
A A→T														2 with hexagon and protective cap
B B→T														Pressure range
C A→T,B→T														5 upto 5MPa
D A→B,B→A														10 upto 10MPa
														20 upto 20MPa
														31.5 upto 31.5MPa

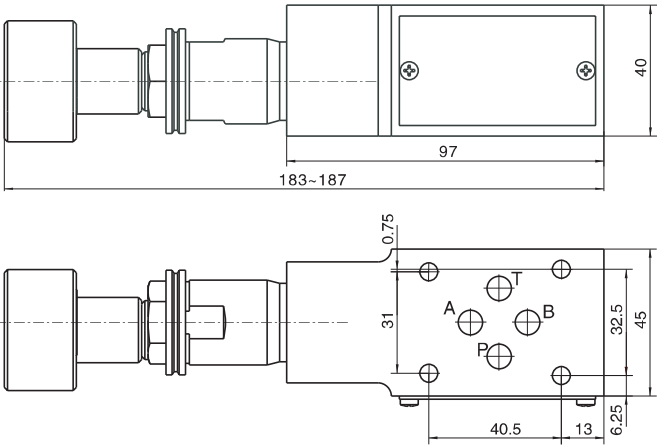
Hydraulic symbol



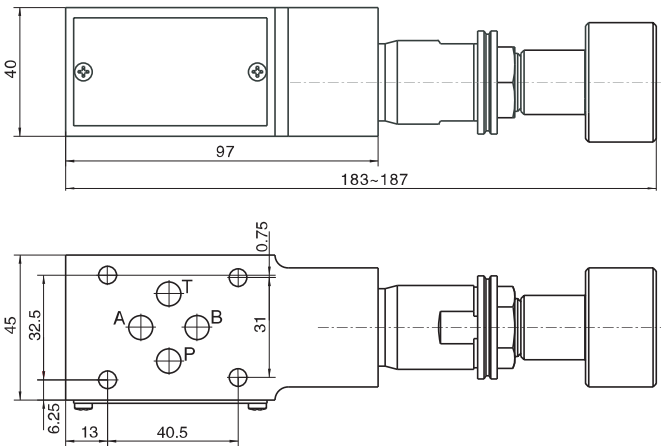
Modular Relief Valve

External dimensions

DY-02A



DY-02B,P



DY-02C, D

