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. (℃)	−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 $\beta_{10} \geqslant 75$.

Model description

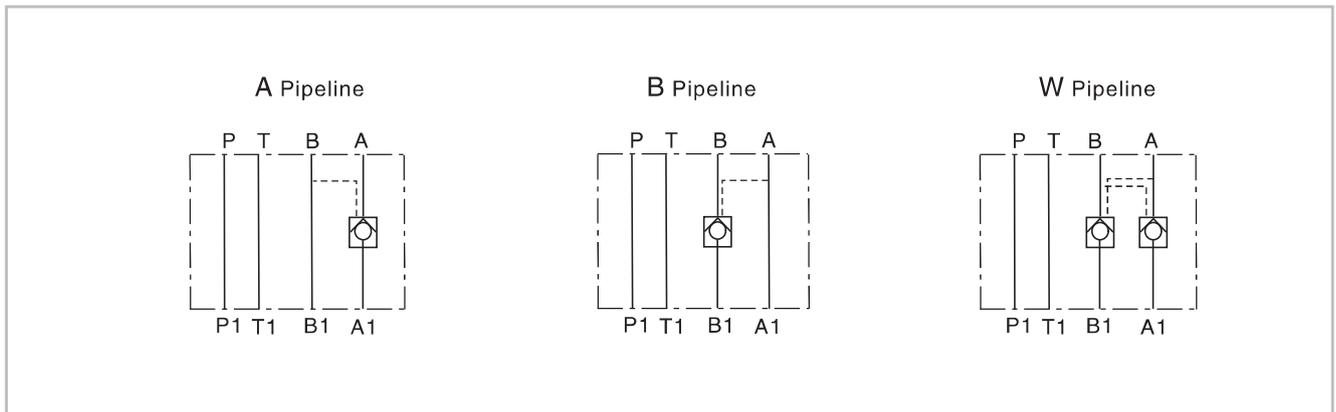HYAM2CP – ＊ – ＊ / ＊ 10 ＊

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

A Pipeline

P T B A

P1 T1 B1 A1

B Pipeline

P T B A

P1 T1 B1 A1

W Pipeline

P T B A

P1 T1 B1 A1

DN04 Modular Pilot Check Valve

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 β$_{10}$≥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 HYWE4 – ＊ – ＊ ＊ ＊ / ＊ ＊ 50 ＊

4 4Port

DN04 Solenoid valve

Spool type
Details refer to symbol list

Vdtage
D12   DC12V
D24   DC24V

Z5L   Square connector with light
Z6   Wire box type

Remarks

Serial number

Seal material
Omit NBR Seals
V   FPM Seals

Omit without damping
08   Φ0.8   Damping
10   Φ1.0   Damping
12   Φ1.2   Damping

Omit   without hand emergency
N9 with concealed hand emergency
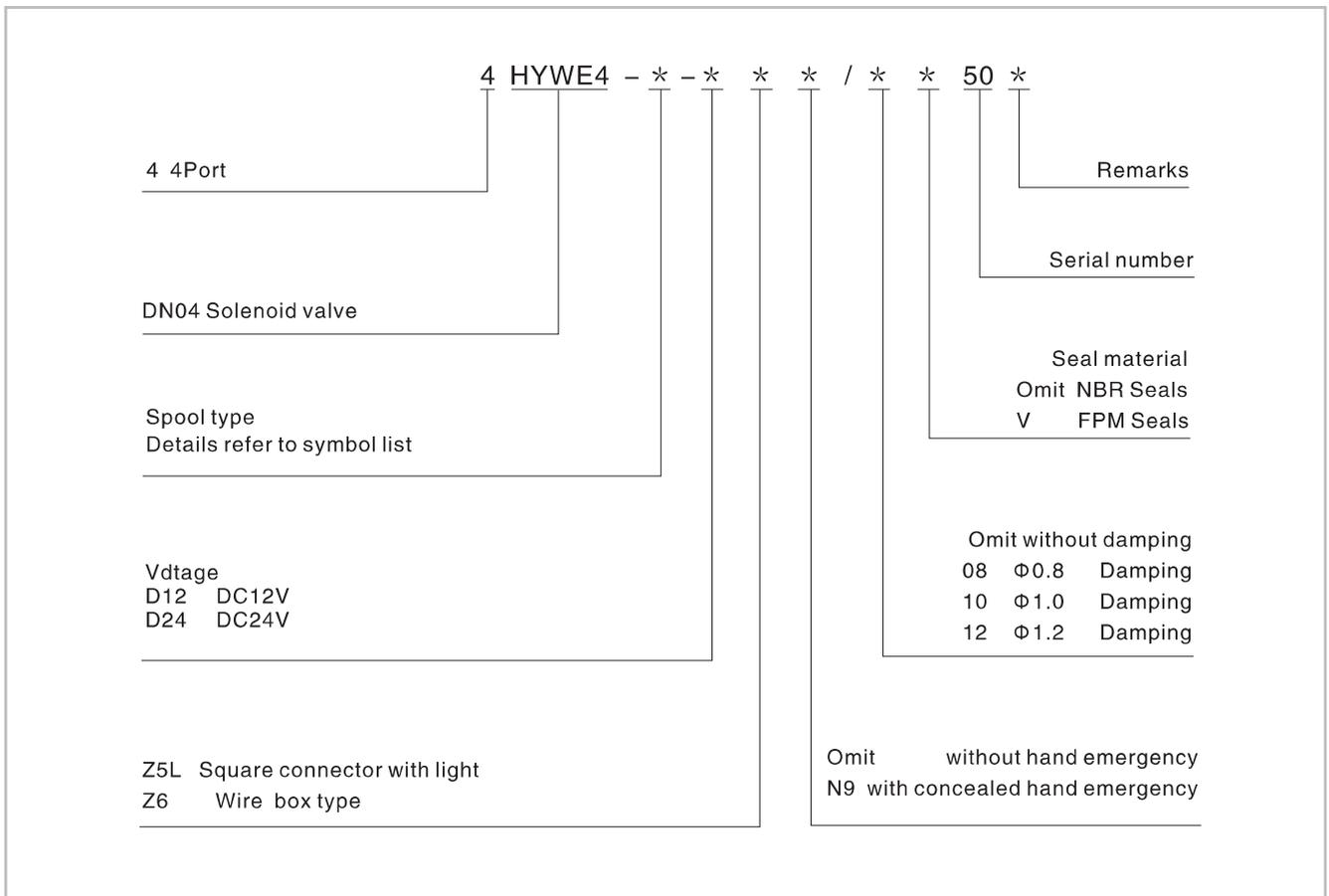
DN04 Solenoid Valve

Code symbol

Spring return

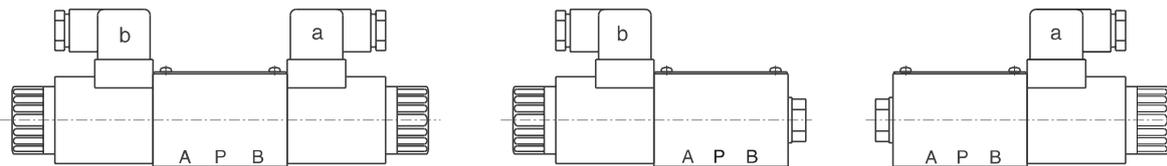|							
3C2		2B2B		2B2BL		2B2	
3C3		2B3B		2B3BL		2B3	
3C4		2B4B		2B4BL			
3C6		2B6B		2B6BL			

2B2L	
2B3L	

With detent

	2D2
	2D3

No spring return and no detent mechanical positioning
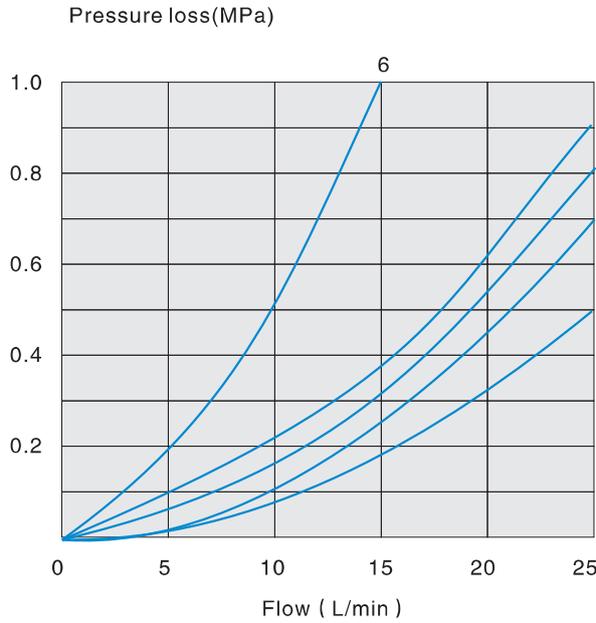
	2N2
	2N3

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.
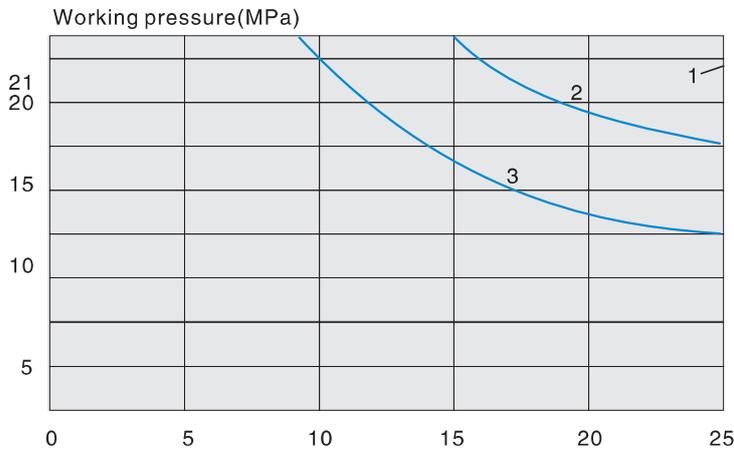
DN04 Solenoid Valve

Specification Performance curve (Measured at υ =41mm²/s and t=50℃)

Pressure loss(MPa)

Flow (L/min)

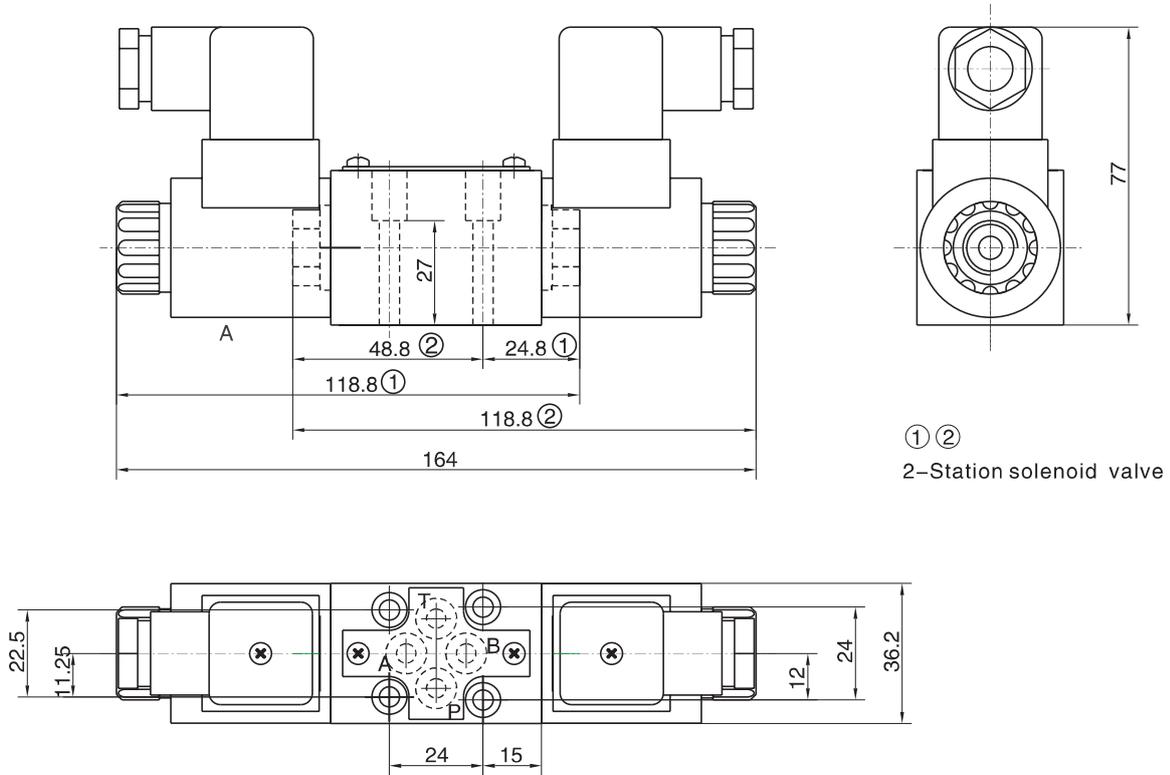| Function code	Direction				
	P→A	P→B	A→T	B→T	P→T
2B2 2B2L	5	5	4	4	–
3C2	4	4	3	3	–
3C6	3	3	4	4	6
3C3	1	1	1	1	–
3C4	5	5	3	3	–

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,
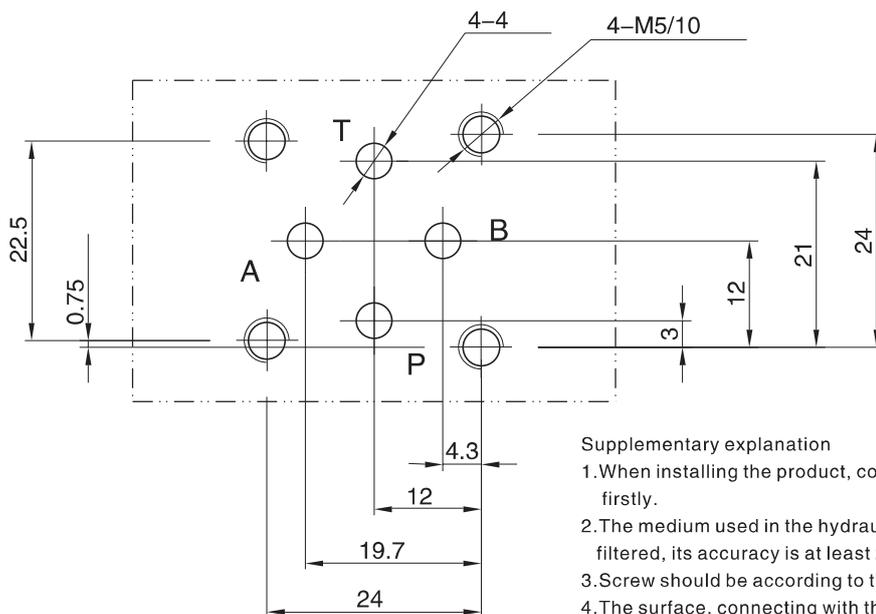10% under voltage and with no pre−loading of the tank)

Working pressure(MPa)

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

DN04 Solenoid Valve

OEM
HYDRAULICS

External dimensions

27

A

48.8 ②   24.8 ①

118.8 ①

118.8 ②

164

77

① ②

2–Station solenoid valve

22.5

11.25

T

B

A

P

24   15

36.2

24

12

F.2.4

Size of subplate

4–4   4–M5/10

T

B

A

P

22.5

0.75

21

24

12

3

4.3

12

19.7

24

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 μ m.

3.Screw should be according to the parameters in catalogue.

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

Modular Relief Valve

Technical specification

Specification	02	03
Max working pressure (MPa)	31.5	
Max Flow (L/min)	60	100
Working fluid	Mineral hydraulic oil; phosphate ester hydraulic oil	
Fluid temp.(℃)	−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

DY – * * – * – * / * 50 *

Modular relief valve

Size
02   DN 6
03   DN10

Relief method
P   P→T
A   A→T
B   B→T
C   A→T,B→T
D   A→B,B→A

Remark

Serial number

Seal material
omit NBR
V   FPM

1   handle
2   with hexagon and protective cap

Pressure range
5   upto 5MPa
10   upto10MPa
20   upto20MPa
31.5   upto31.5MPa

Hydraulic symbol

A

B

P   Broadside

                                    Subface

C

D   Broadface

                                    Subside
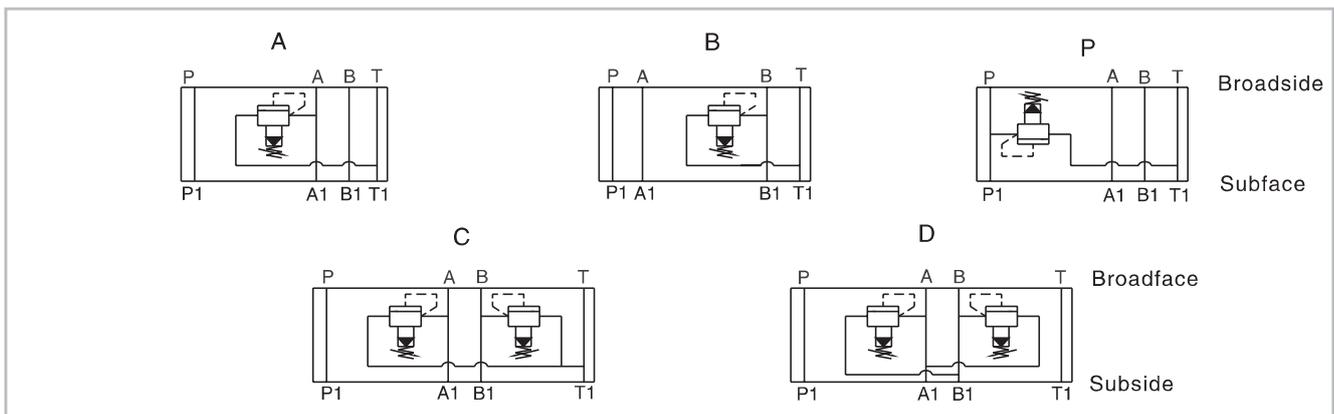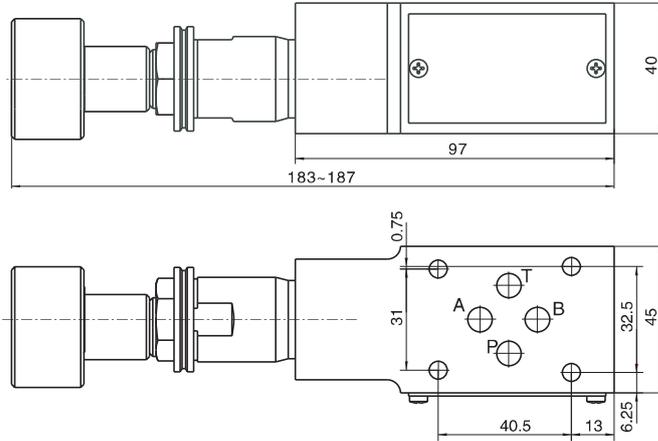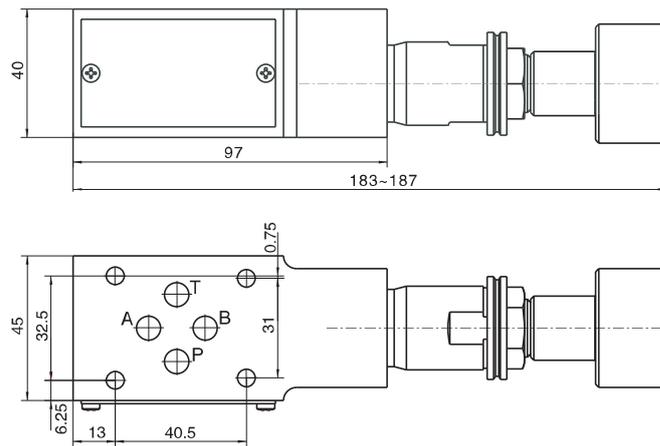
Modular Relief Valve

External dimensions

DY–02A

DY–02B,P

DY–02C，D