

Itahydraulic

Power Tecnology



Electric Relief Valve



Technical specification

Specification	03	06	10
Max. working pressure(MPa)	31.5		
Max. flow(L/min)	250	500	650
Working fluid	Mineral oil, phosphate-ester		
Fluid temp.(°C)	-20 ~ 70		
Viscosity(mm ² /s)	10 ~ 800		
Working Press(MPa)	5	10	20 31.5 35
Weight(Kg)	Y	2.6	3.5 4.4
	YW	3.8	4.7 5.6

Function Instruction

The relief valve is a pressure control valve. It maintains constant pressure at inlet by discharging excess fluid in the system.
Solenoids relief valve is a combination of electromagnetic directional valve and pilot-operated pressure relief valve, it is used to control or unload multi-stage pressure in 4 hydraulic system.

Model Description

Y x x - x x - x x / x x x x / x x 50 *

Relief valve

- Omit without solenoids directional valve
- W With solenoids directional valve
- Omit Pilot operated valve
- C Pilot operated without main cartridge (not marked diameter)
- Pilot operated with main cartridge (marked diameter)

Specification

Subplate Type	Pipe Type	
		Screw thread connector
03 10 NS10	10 10 DN10	G 1/2" or M22x1.5
	15 15 DN15	G 3/4" or M27x2
06 20 NS20	20 20 DN20	G 1" or M33x2
	25 25 DN25	G 1" 1/4 or M42x2
10 30 NS30	30 30 DN30	G 1" 1/2 or M48x2

G G Pipe type connection-G Screw
G2 M Pipe type connection-M Screw

Pipe grade

- 5 to 5MPa
- 10 to 10MPa
- 20 to 20MPa
- 31.5 to 31.5MPa
- 35 to 35MPa

A Always close ¹⁾
B Always open

1 Handle
2 Setting screw with outside hexagon and boot cap
3 Handle with lock

Remarks

Serial number

Seal material

NBR	Omit NBR seals
V FPM	V FPM seals

Pilot operated drainage port thread

Omit	G1/4"
2	M14X1.5

2) Omit No damping

08	Ø0.8	Damping
10	Ø1.0	Damping
12	Ø1.2	Damping

3) N9 Omit without emergency push rod
With emergency push rod

4) Z4 Standard connector
Z5 Large connector
Z5L Large connector with light

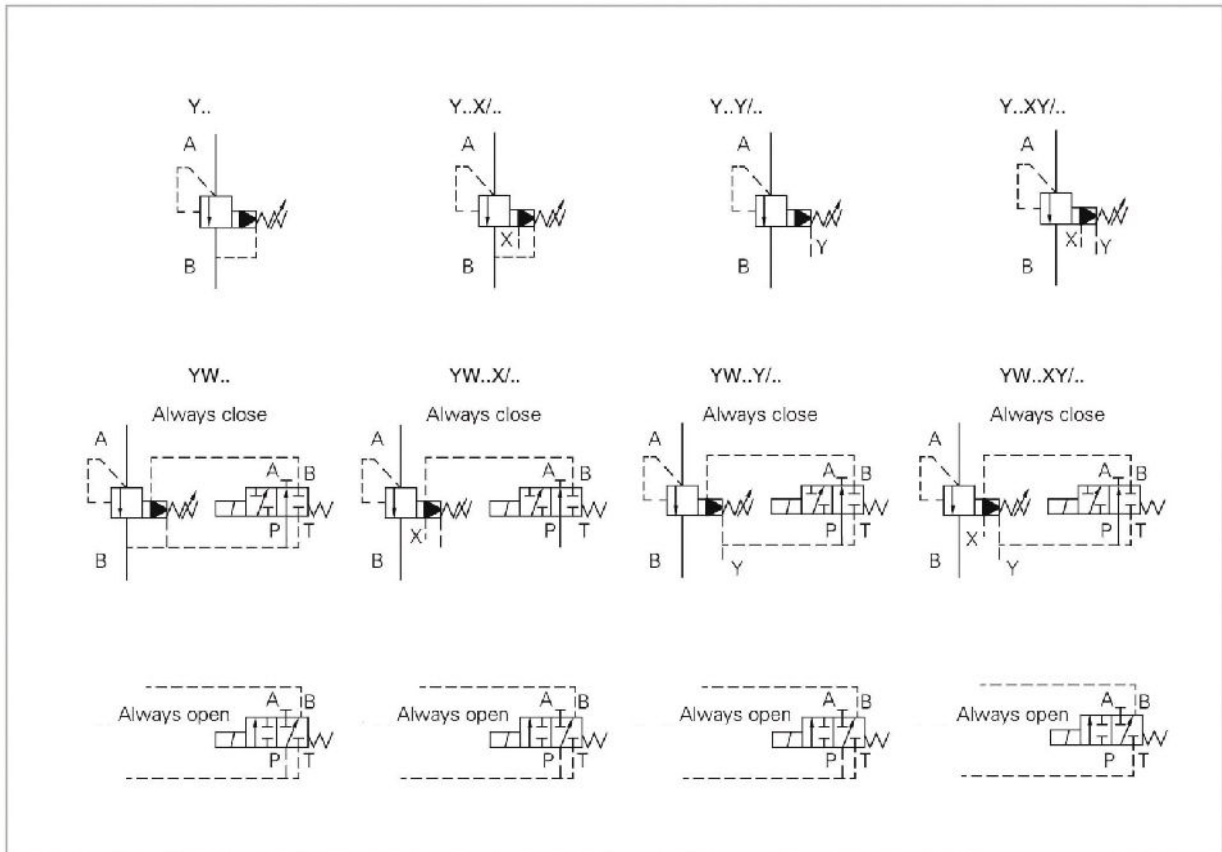
5) Working voltage

D12	DC12V
D24	DC24V
A110	AC110V
A220	AC220V
B110	B110V Rectified
B220	B220V Rectified

6) Omit Standard Type
U the minimum setting pressure is lower type

Omit Intl cntrl intl drain
X Extl cntrl intl drain
Y Intl cntrl extl drain
X Y Extl cntrl extl drain

Code Symbol

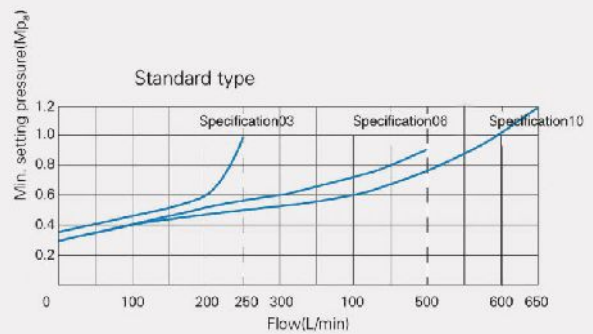
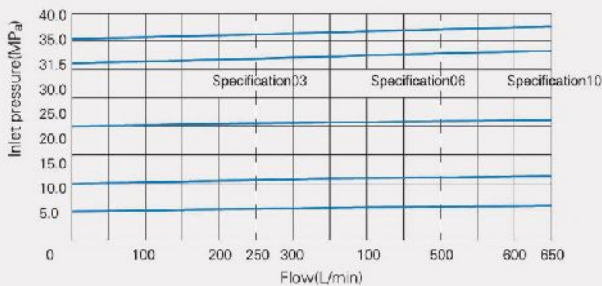


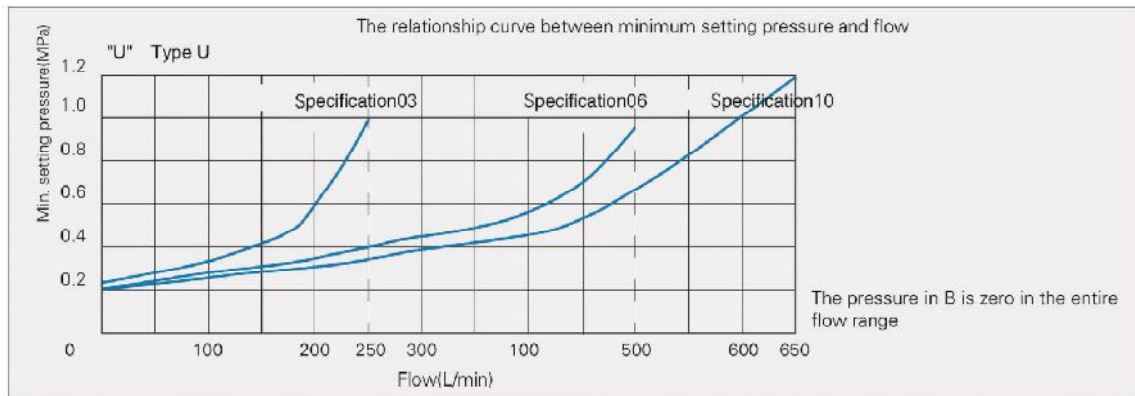
Performance Curve

Test under $v=41\text{mm}^2/\text{s}$ and $t=50^\circ\text{C}$

The curve is at external, zero pressure, the pilot oil drain freely, if internal drain, the inlet pressure should add port B pressure in the curve.

The relationship curve between minimum setting pressure and flow





Unit dimensions: Threaded connection (nominal dimensions in mm)

