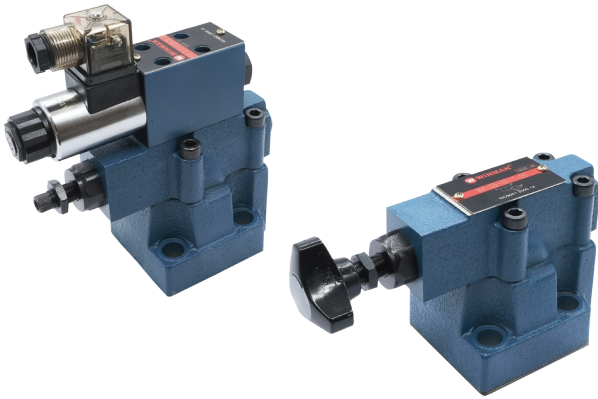


UNLOADING RELIEF VALVE



Technical Specification

Specification	03	06	10
Maximum working pressure (Bar)	315		
Max. Flow (L/min)	10%	40	80
	7%	60	120
Working fluid	Mineral oil; phosphate-ester		
Fluid temp. (°C)	-20~70		
Viscosity (mm²/s)	12~380		
Working press (Bar)	50	100	200
Cleanliness	The maximum allowable cleanliness of the oil should be according to 9th degree of Standard NAS 1638. It is suggested that the minimum filter rating should be $\beta_{10} \geq 75$.		

WX/WXW valve is a pilot-operated unloading valve. Its function is to switch two states in hydraulic system, by adjusting handle to set the working pressure or unloading pressure. Pump will be unloading automatically by controlling electrical magnetic.

Model description

WX * * - * - * * - * * / * * * * / * / * * 50 *															Remarks
Unloading Relief Valve															Serial number
Omit: Without solenoids directional valve W : With solenoids directional valve															Seal material Omit : NBR Seals V : FPM Seals
Pilot operated valve Omit : Pilot operated without main cartridge (not marked diameter) C : Pilot operated with main cartridge (marked diameter)															Pilot operated drainage port thread Omit : G1/4" M: M14X1.5
Specification 03 : DN 10 06 : DN 20 10 : DN 30															Omit No damping ²⁾ 08 : Φ 0.8 Damping 10 : Φ 1.0 Damping 12 : Φ 1.2 Damping
Working pressure 50 : to 50 Bar 100 : to 100 Bar 200 : to 200 Bar 315 : to 315 Bar															Omit : without push rod emergency ³⁾ N9: with concealed push rod emergency
A : Always closed ¹⁾ B : Always open															Z5L Square connector with light ⁴⁾
1 Rotary knob 2 Sleeve with hexagon and protective cap															Working voltage ⁵⁾ D12 DC12V D24 DC24V A110 AC110V A220 AC220V B110 (A110V Rectified) B220 (A220V Rectified)
Omit : Intl cntrl intl disch Y : Intl cntrl extl disch															Switching differential pressure (P→A) 10 on average 17 on average

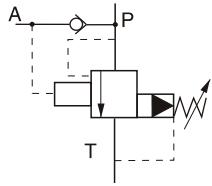
Explanation : 1.1) ,2), 3), 4), 5) is used in WXW solenoids relief valves

2 2) damping is fixed at the B oil port of the solenoids directional valves

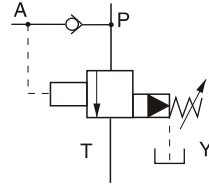
UNLOADING RELIEF VALVE

Code Symbol

WX..

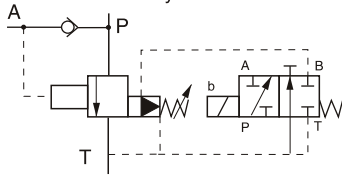


WX..W..

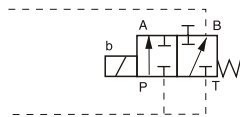


WXW..

Always close

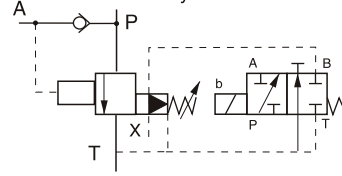


Always open

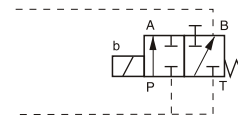


WXW..W..

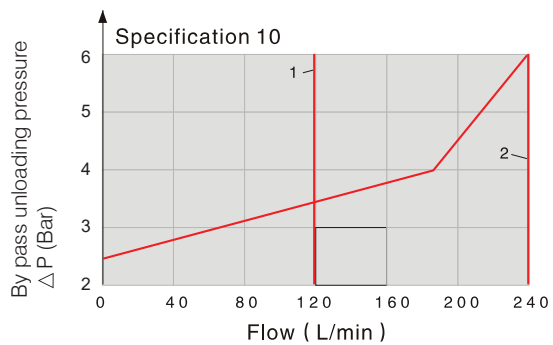
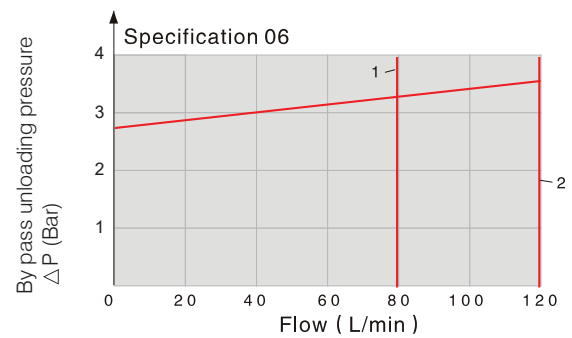
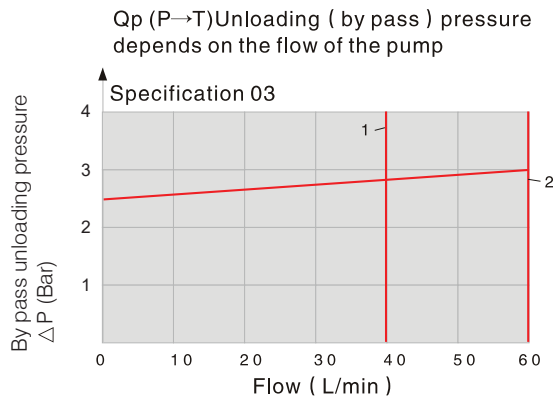
Always close



Always open



Performance Curve (Measured at: Test under $\nu=41\text{mm}^2/\text{s}$ and $t=50^\circ\text{C}$)



1. Q_{pmax} is used in type 10%

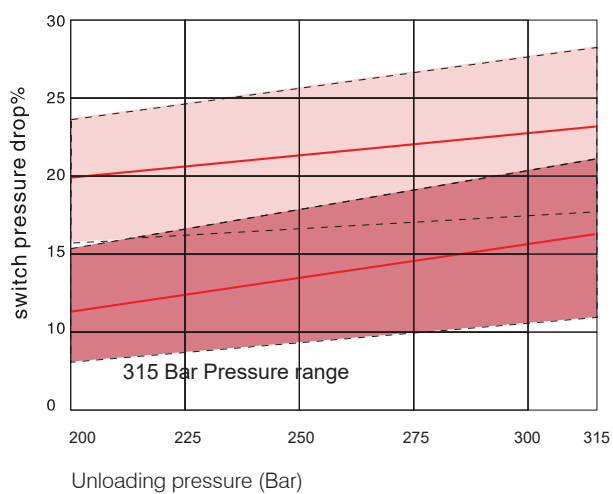
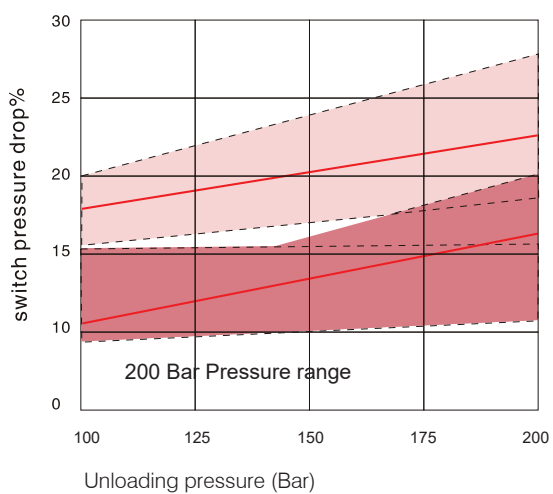
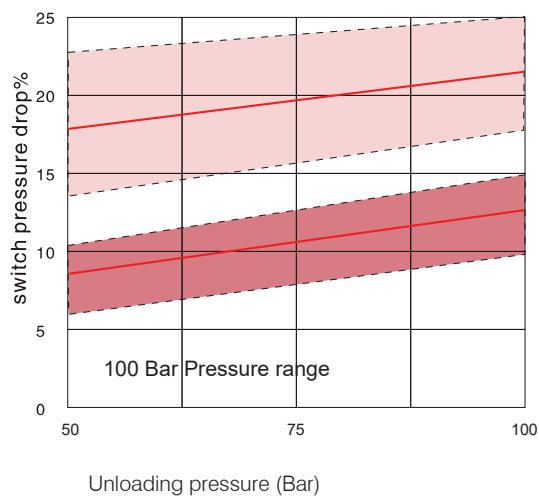
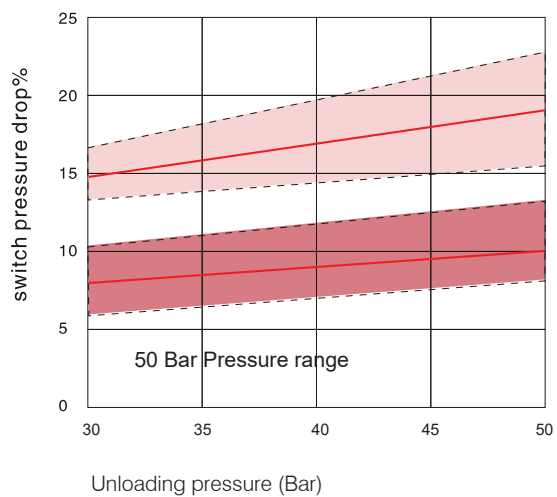
2. Q_{pmax} is used in type 17%

The characteristic curves are valid for outlet pressure $P_T=0$ for complete flow range.

UNLOADING RELIEF VALVE

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

Switching differential pressure ($P \rightarrow A$) depending on cut-off pressure P_o (Type DA)

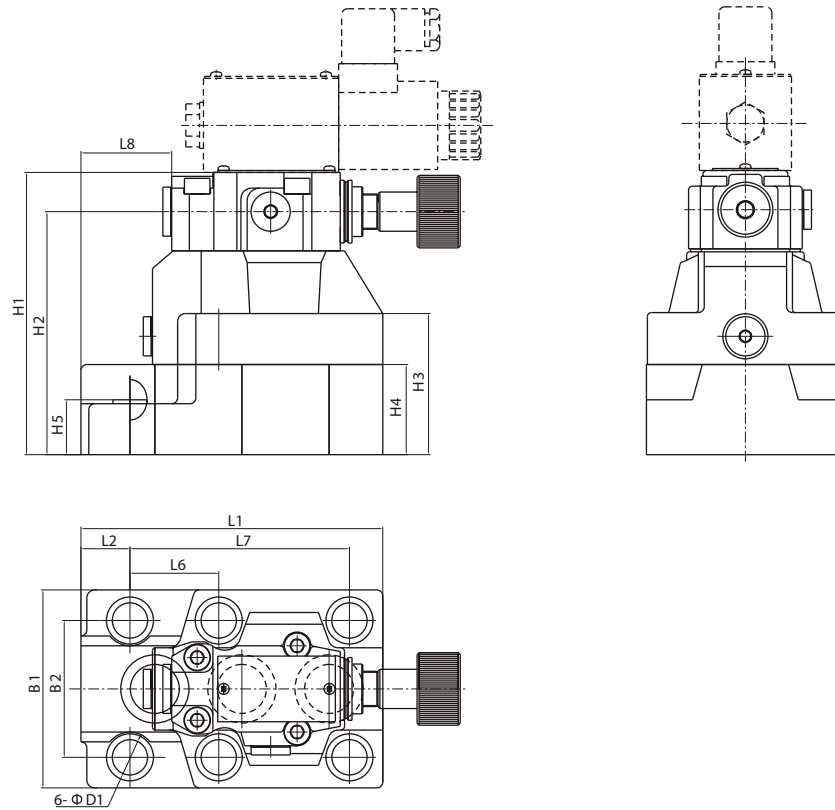


Scatter range of type 17%

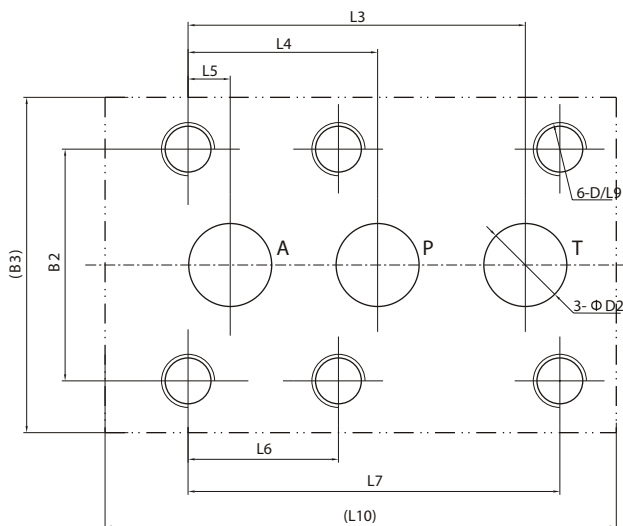
Scatter range of type 10%

UNLOADING RELIEF VALVE

06,10 External Dimensions



06,10 Subplate Mounting Size



Specification	Mounting screw	Tighten torque
WX/WXW-06	4-M16X100-10.9 2-M16X60-10.9	310Nm
WX/WXW-10	4-M18X120-10.9 2-M18X80-10.9	430Nm

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

Specification	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	B1	B2	B3	H1	H2	H3	H4	H5	D	D1	D2
WX/WXW-06	154	25	101.6	57.1	12.7	46	112.7	46.3	34	156	101	69.9	103	144	124	72	46	28	M16	18	25
WX/WXW-10	199	42	127	63.5	12.7	50.8	139.7	67.9	37	201	118.5	82.5	118.5	165	145	93	87	45	M18	20	32