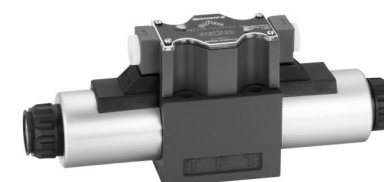


WE10-3X series wet-type solenoid operated directional valves

【 Product Features 】

1. Direct-acting solenoid operational direction valve as standard type.
2. Installation area by DIN24 340 type A and CETOP-RP 121H
3. DC or AC wet-type solenoid that can be arbitrary rotation and with detachable coil.
4. Coil can be replaced without oil.
5. Equipped with manual emergency operation push rod.

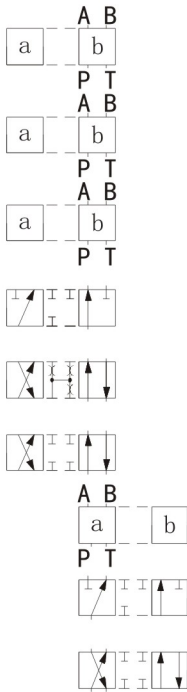


【 Model Code 】

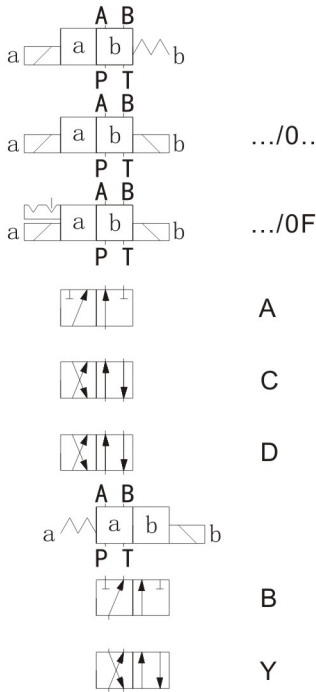
4	WE	10	E	3X		C	D24	N	L				L
3channel=3 4channel=4													
Solenoid operated directional valves													
Drift diameter : 10=10 diameter													
Code Symbol:													
30~39 series =3X (30~39: installation and linkage Size remain the same)													
O=no spring-return OF=no spring-return , with positioning No marks=Spring-return													
Solenoid thread linkage: =C													
D12 D24=DC 12V 24V A110 A220=AC 110V/50Hz 220V/50Hz R110 R220=RAC 110V 220V													
With self-locking manual emergency push rod = NP With manual push rod =N													
H: DIN43650 plug L:DIN43650 plug (with lamp) F: DEUTSCH, protection class IP69K/Deutsch A: AMP, protection class IP67/AMP Junior-Timer D: double lines B: terminal box													
No marks=no cartridge choke B08=orifice Φ0.8mm B12=orifice Φ1.0mm B12=orifice Φ1.2mm													
Nitrile butadiene rubber seal=no marks V=viton seal													
The coating of the valve body H: black L: blue													

【 spool symbol 】

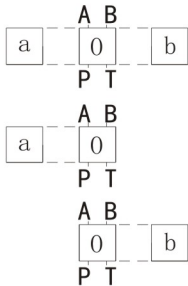
TRANSITION SPOOL



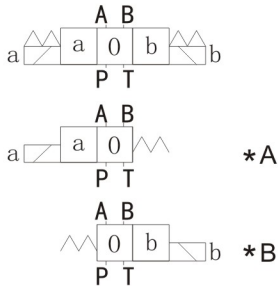
SLIDE VALVE SPOOL



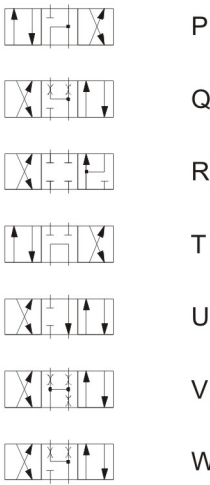
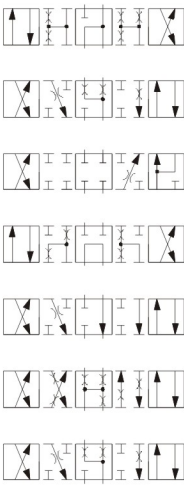
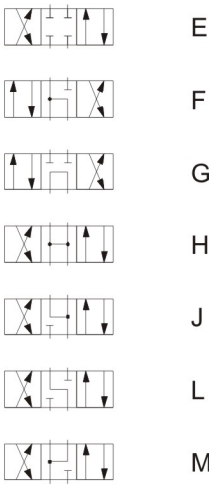
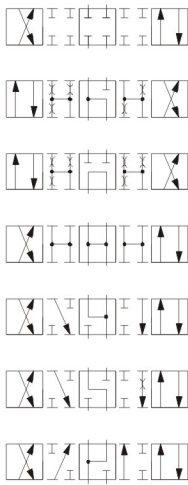
TRANSITION SPOOL



SLIDE VALVE SPOOL



☆ spool symbol with core a or b then code should be XA or XB
for example: spool E with core posifion a ,then code should be EA



P
Q
R
T
U
V
W

【 Technical Data 】

General data			
Mounting position		anywhere	
Operating temperature		℃	-30~+50 (nitrile rubber seal)
			-20~+50 (fluorous rubber seal)
weight	Single solenoid valve	kg	4.3 (DC) ; 3.5 (AC)
	Double solenoid valve	kg	6.0 (DC) ; 4.9 (AC)

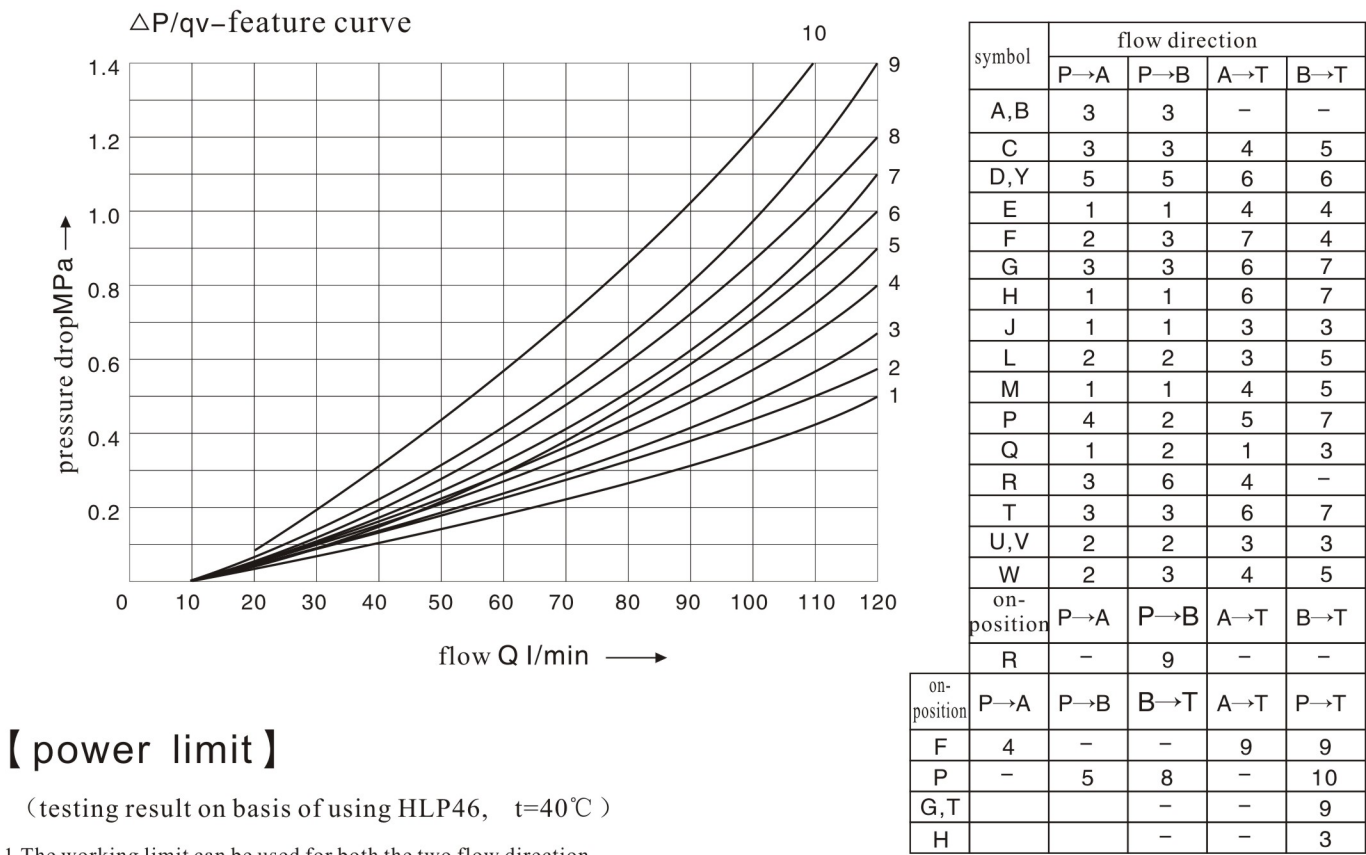
Hydraulic Data				
Maximum operating voltage	fluid port	P、A、B	MPa	31.5
Hydraulic fluid port T MPa				21 (DC) : 16 (AC) When working pressure exceeds the allowable pressure, valves with the sign bit A,B must use T as oil drain port
Maximum flow rate			l/min	120
Flux areas (when in the median)	Type Q	mm ²	11 (A/B→T) ; 10.3 (P→A/B)	
	Type W	mm ²	2.5(A/B→T)	
	Type Q	mm ²	2.5(A/B→T)	
Hydraulic oil 1、 suitable for nitrile rubber and fluoro rubber seal				Mineral oil (HL,HLP) by DIN51 524 Rapid biological solution oil by VDMA24 568
Fluoro seal only				HETG 1) ; HEPG 2) ;HEES 3)
The oil temperature range			℃	-30~+80 (nitrile rubber seal) -20~+80 (rubber seal)
Viscosity range			mm ² /s	2.8-500
Oil cleanliness				The highest oil pollution level by NAS11639 Class 9 recommend minimum filter filtration precision β10≧75

Electric data			
Voltage category		DC	AC(50HZ)
Supply voltage	V	12, 24, 48, 96, 110, 220V	110, 220
Allowable voltage tolerance	%	+10~-15	
Power consumption	W	36	-
Holding current	A	-	0.42(220V)
Starting current	A	-	1.40(220V)
Working system	ED%	100	
Reversing time	ms	145~160	15~25
Resetting time	ms	120~130	20~30
Switching time	times/h	≦15000	≦7200
Protection class by DIN 40050		IP65(AMP: IP66)	Deutsch:IP69k
Maximum coil temperature	℃	135℃ (class B)	180℃ (class H)

NOTICE: 1) The reversing time of RAC is close to DC , but the resetting time is longer and random.

【feature curve】

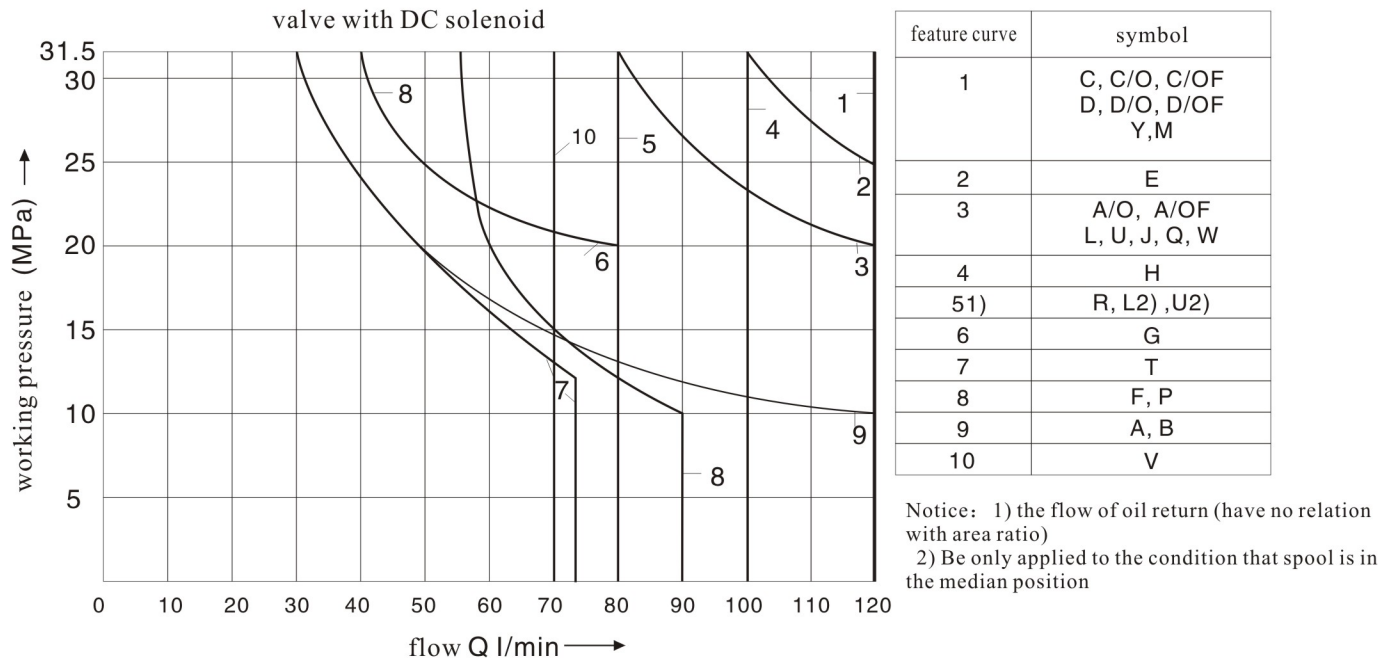
(testing result on basis of using HLP46, t=40℃)



【power limit】

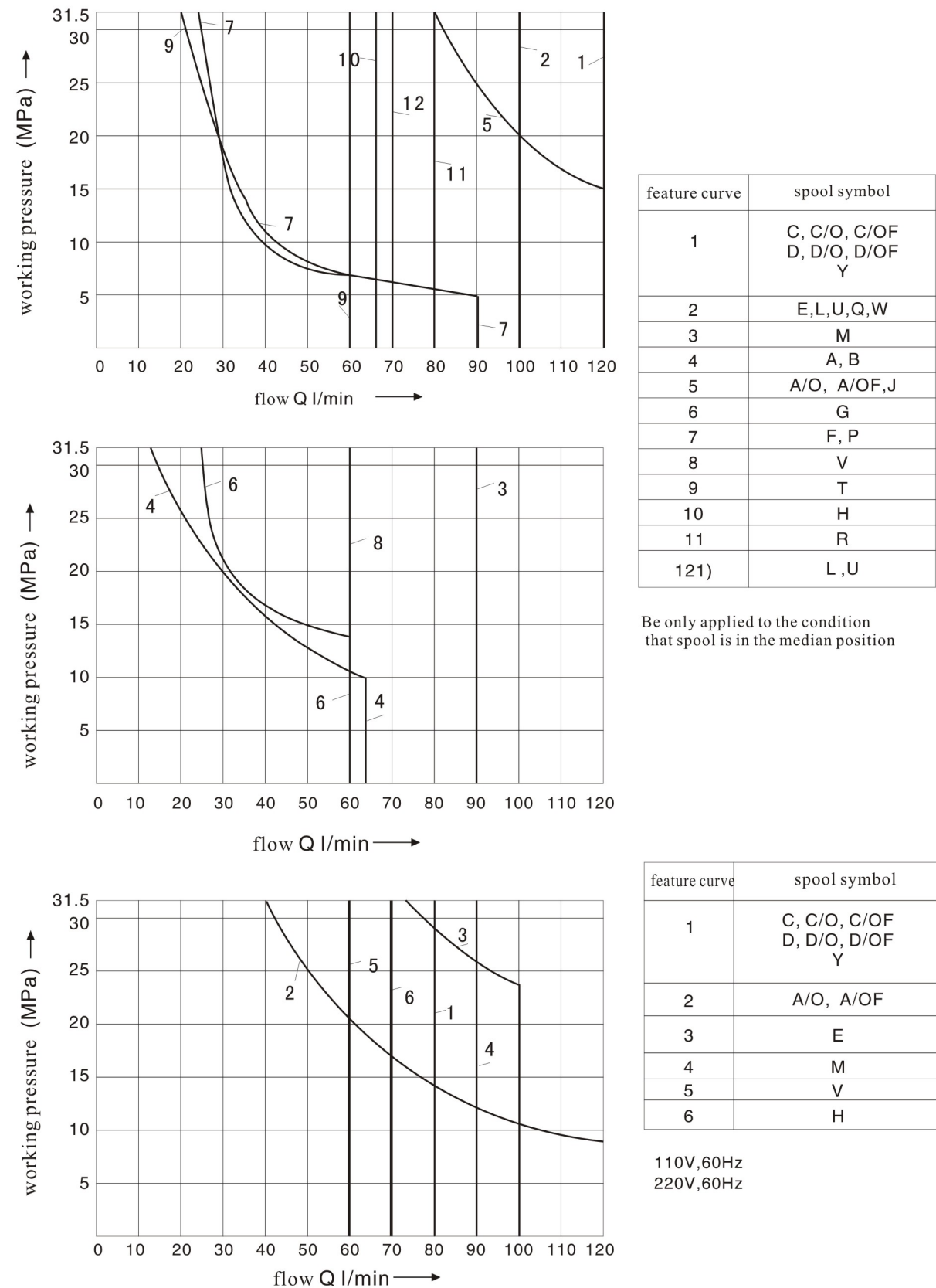
(testing result on basis of using HLP46, t=40℃)

- 1.The working limit can be used for both the two flow direction
(For example: Flow return from B to T, at the same time, flow from P to A)
- 2.Power limit tested when solenoid is at working temperature, under voltage 10%, and port T have no back pressure.
- 3.When unidirectional flow (if flow from P to A, port B closed) , due to the fluid power in the valve, the allowed reverse power limit will drop obviously .



【power limit】

(testing result on basis of using HLP46, t=40℃)

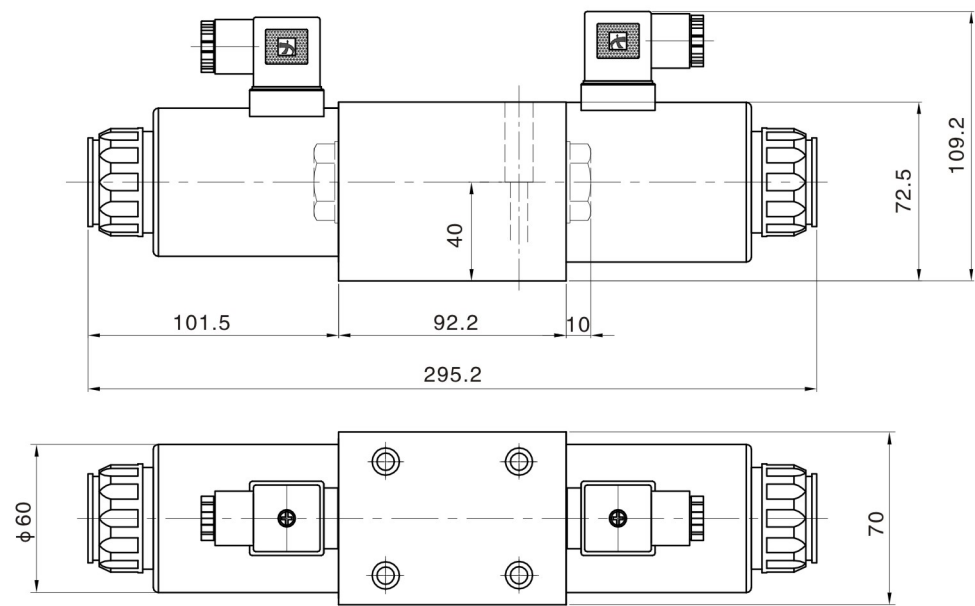


feature curve	spool symbol
1	C, C/O, C/OF D, D/O, D/OF Y
2	A/O, A/OF
3	E
4	M
5	V
6	H

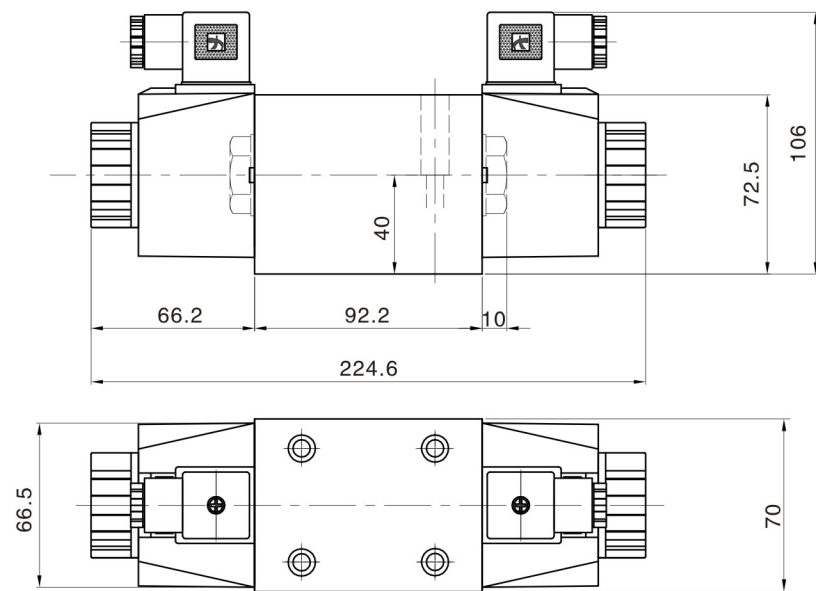
110V,60Hz
220V,60Hz

【 drawing of installation dimension 】

4WE10-DC-H

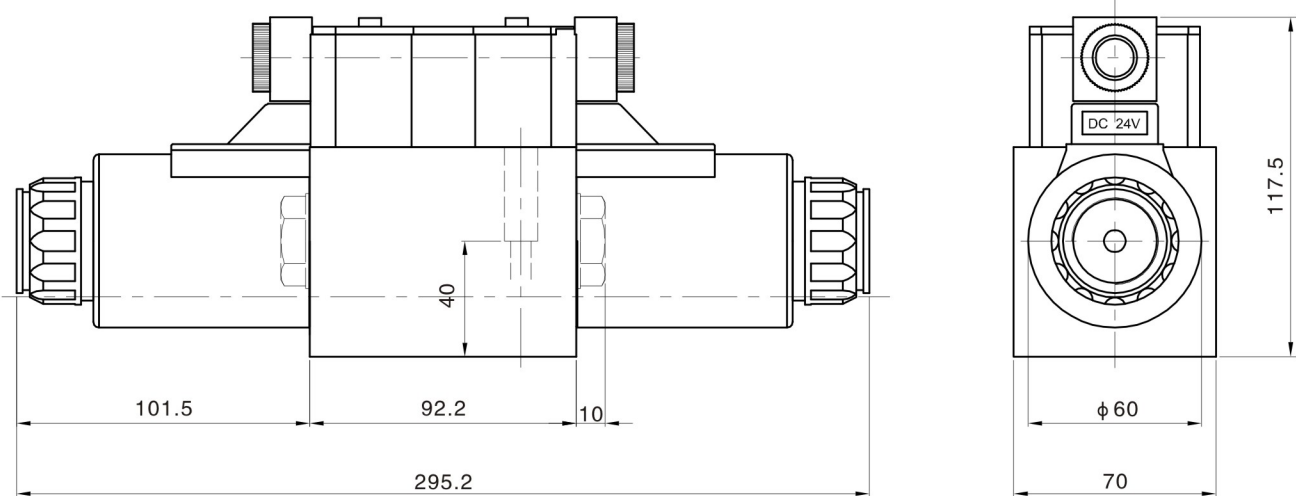


4WE10-AC-H

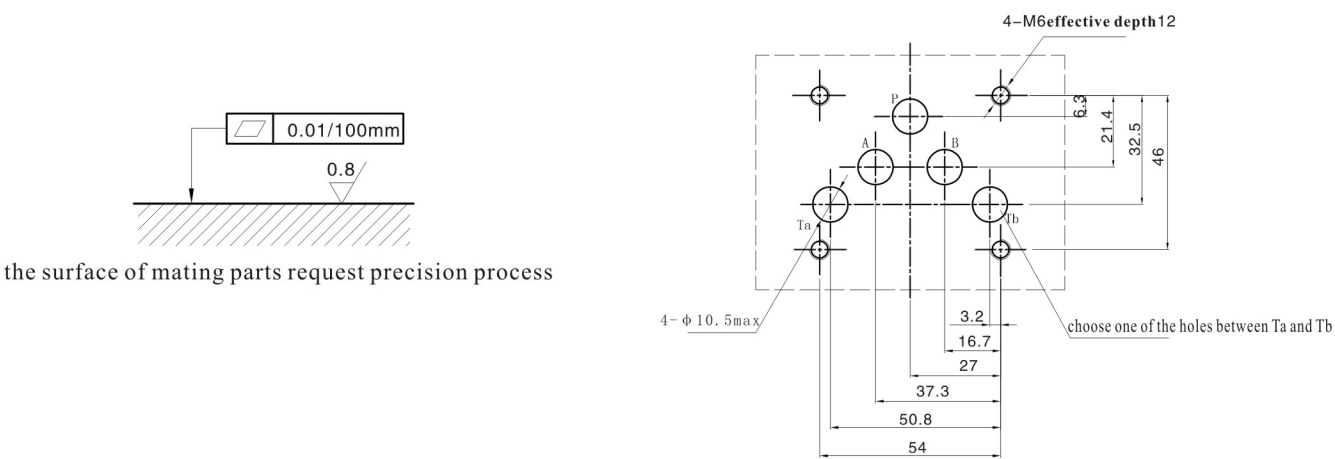
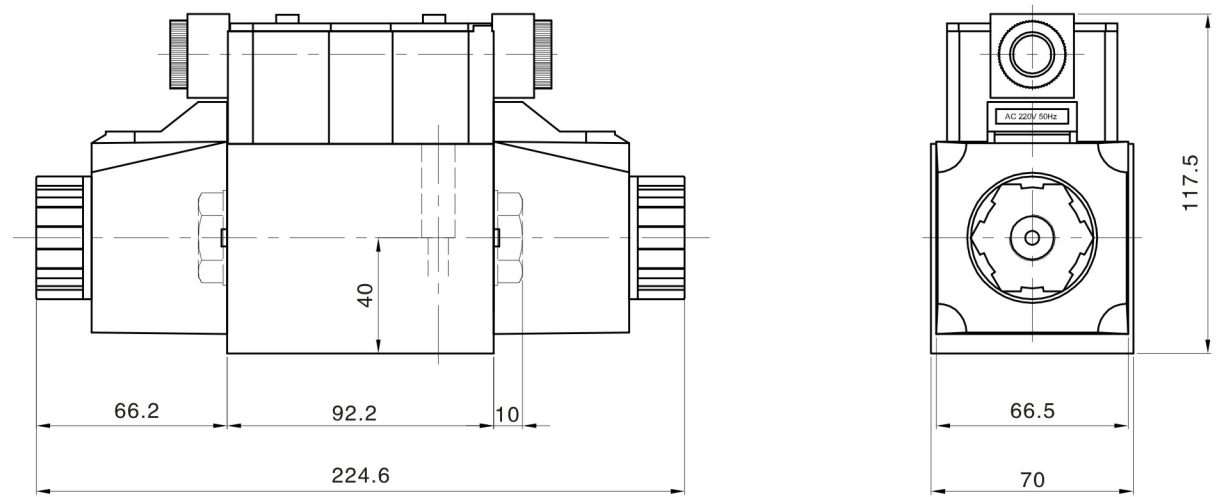


【 drawing of installation dimension 】

4WE10-DC-B

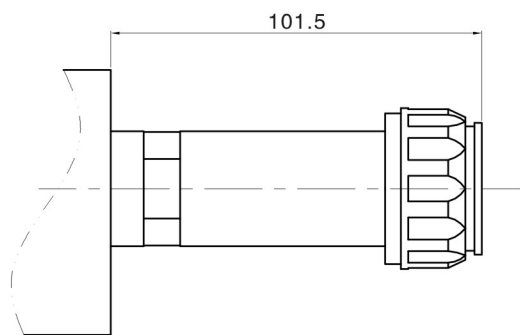


4WE10-AC-B



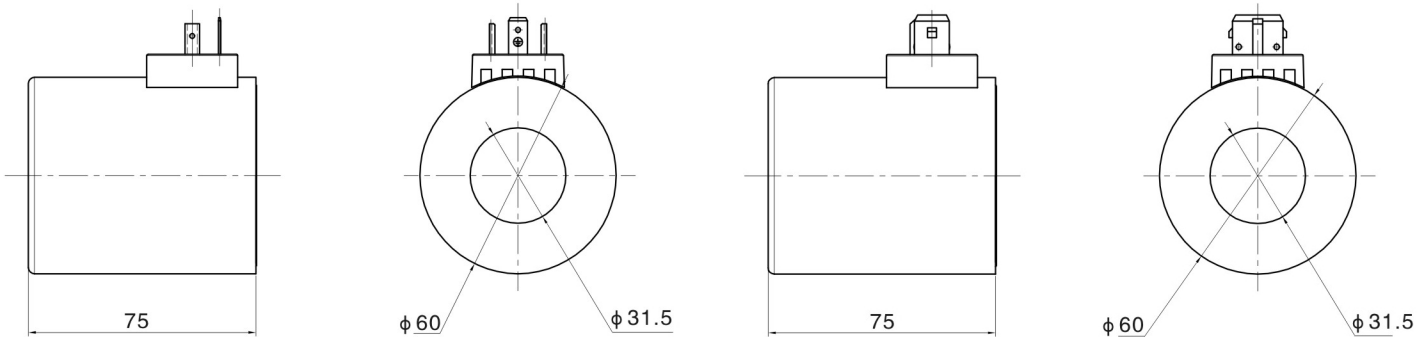
【 option of electronic connector 】

Without coil, fastening the tube and locknut on the homologous valve body, according to the different IP grade, then choose the coil with homologous structure.



Coil with connector meets
DIN43650EN175301-803 ISO4400

Coil with connector AMP, the IP grade of coil house is IP67



coil with connector
DEUTSCH DT04-2P, the IP grade of coil house is IP-69K

apply to pin type coil with connection type B

