

4/3, 4/2 and 3/2 directional valve with wet-pin AC or DC solenoid

Type WE5...

Size 5 Up to 250bar Up to 14L/min



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2.10



Features

- Directional spool valve, direct operated by solenoid is the standard version

- Wet pin AC or DC solenoid
- Sub-plate mounting

Max. flow (L/min) \rightarrow

Speelsymbol	Pressure rating (bar)		
Spool symbol	50	100	250
A, B, C, N, E, F, H, J, L, M, Q, R, U, W	14	14	12
G	10	10	9

Function and configuration

Type WE directional valves are wet pin AC or DC solenoid operated directional spool valves. They control the start, stop and direction of flow.

The directional valves mainly consist of housing (1), one or two solenoids (2), the control spool (3), one or two return springs (4).

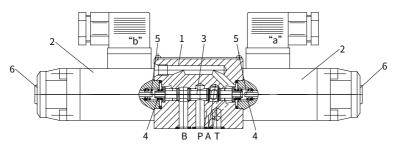
When solenoid is de-energised, the control spool (3) is held by the return springs in the central position or initial position (except for impulse spool). The control spool is controlled by the wet pin solenoid (2).

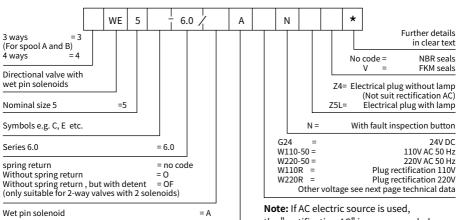
In order to ensure trouble-free functioning, care should be taken to ensure that the pressure chamber of the solenoid is filled with oil.

The control spool (3) is moved to the expected position by solenoid (2) and pushing rod (5), and this gives free-flow from P to A and B to T or P to B and A to T.

When solenoid (2) is de-energised, the control spool (3) is pushed to the initial position by the return spring (4).

The solenoids may also control the control spool (3) by an optional override button (6) under the deenergised condition.

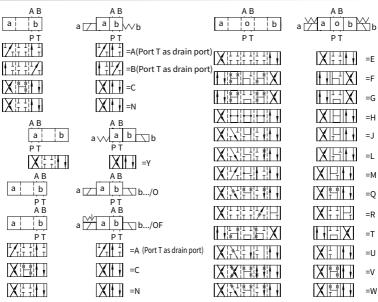




Ordering code

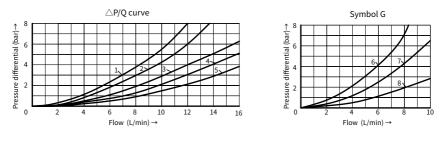
the "rectification AC" is recommended.

Symbols



Characteristic curves

(Measured at ϑ_{oil} =40°C ±5°C , using HLP46)



1 Symbol B: P → B, P → A
2 Symbol B: P → A, P → B
3 Except symbol B and R, all the others symbol: A → T
4 Except symbol B and R, all the others symbol: B → T
5 Except symbol B and R, all the others symbol: P → A, P → B, A → T
6 Symbol G: P → A, B → T
7 Symbol G: P → T, P → B
8 Symbol G: A → T

Technical data

Fixing position			Optional
Ambient temperature range		°C	-30 to +50 (NBR seal)
			-20 to +50 (FKM seal)
Waight	Vavle	kg	1.4
Weight	Sub-plate(G115/01A)	kg	0.8
	Port A,B,P	bar	250
Max.operating			60, when the operating pressure exceed the
pressure	Port T	bar	permission value, port T must be used as
			drain port for spool symbol A and B
Max. flow-rate		L/min	14
Flow cross section	Type Q	mm ²	for symbol Q 6% of nominal cross section
(switching neutral position)	Туре W	mm ²	for symbol W 3% of nominal cross section
Fluid		Mineral oil suitable for NBR and FKM seal	
			Phosphate ester for FKM seal
Fluid temperature range °C Viscosity range mm²/s		°C	-30 to +80 (NBR seal)
		-C	-20 to +80 (FKM seal)
		mm²/s	2.8 to 500
Degree of contamination			Maximum permissible degree of fluid contamination:
			Class 9. NAS 1638 or 20/18/15, ISO4406

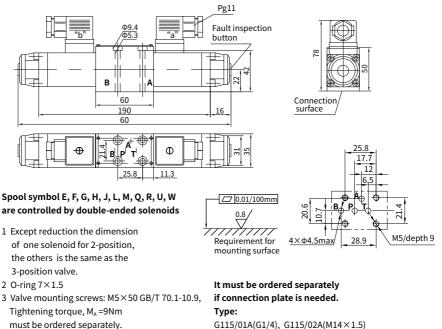
Electrical data

Type of voltage			DC	AC 50Hz
Usable voltage		V	12,24,48,96; 110,205,220	110,127,220
permissible voltage(deviation)		%	+10~ -15	
Input power		W	26	-
Current		VA	-	46
Impact current		VA	-	130
Duty		Continuous working		
Switched time	Open	ms	40	25
Accord with ISO 6403	Closed	ms	30	20
Switched frequency times/h		to 15000	to 7200	
Preventive grade according to DIN 40050		IP65		
Max. coils tamperature °C		+150		

Caution: with electrical connections the protective conductor (PE \pm) must be connected according to the relevant regulations.

Unit dimensions

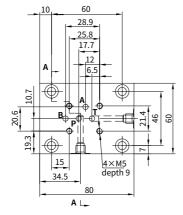
(Dimensions in mm)

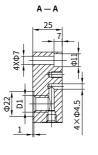


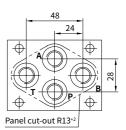
G115/01A(G1/4), G115/02A(M14×1.5)

Unit dimensions:connection sub-plate

(Dimensions in mm)







Туре	D1	Valve fixing screws	Weight(kg)
G115/01A	G1/4	M5×50 GB/T70.1-10.9	0.7
G115/02A	M14×1.5	M5×50 GB/T70.1-10.9	0.7

China +86 400 101 8889 America +01 630 995 3674

Germany +49 172 3683463





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