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## DIRECTIONAL VALVES

# DG4V SOLENOID DIRECTIONAL VALVE

## ORDERING CODE

DG4V	3	2C	M	D24	L	40
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Design Number

H: DIN43650 Type Plug  
L: DIN43650 Type Plug with Lamp  
F: Deutsch Protection degree IP69K  
A: AMP Junior-Timer, protection degree IP66  
D: with two lead wires  
B: with terminal box

Electrical options and features

D24= DC24V    D12= DC12V  
A110 A220= AC11V/50HZ AC220V/50HZ  
R220= RAC 110V 220V

Slide valve spool

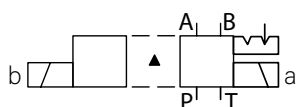
Terminal Size:  
3= NG6  
5= NG10

Series code:  
D= directional valves  
G= soleplate / integrated package installation  
4= solenoid control  
V= rated voltage 35MPa

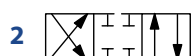
# DG4V SOLENOID DIRECTIONAL VALVE

## SPOOL SYMBOLS

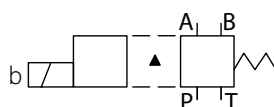
### DOUBLE SOLENOID VALVE TWO POSITION WITH DETENT



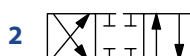
DG4V-3(S)-\*N



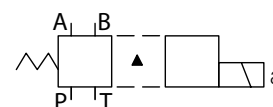
### SINGLE SOLENOID VALVE SOLENOID IN CHAMBER A



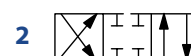
DG4V-3(S)-\*A



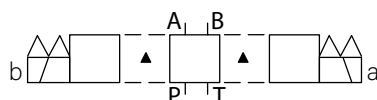
### SINGLE SOLENOID VALVE SOLENOID IN CHAMBER B



DG4V-3(S)-\*AL

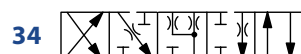
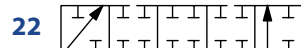
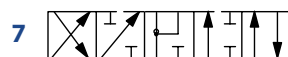
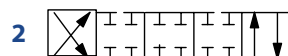
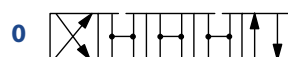


### DOUBLE SOLENOIDS VALVE SPRING CENTRING

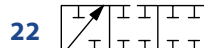
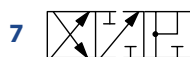
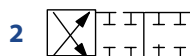
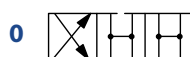


☆ ▲ ONLY INSTANTANEOUS SITUATION

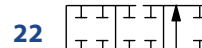
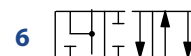
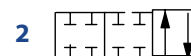
DG4V-3(S)-\*C



DG4V-3(S)-\*B/F



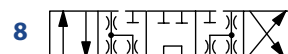
DG4V-3(S)-\*BL/FL



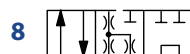
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☆ " 8 IS THE SPECIAL SPOOL

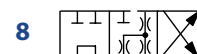
DG4V-3(S)-8C



DG4V-3(S)-8BL



DG4V-3(S)-8B



## DG4V3 Type Solenoid Directional Valve

### GENERAL DATA

The total weight of one solenoid valve (with two solenoids)	kg	2.30
The total weight of one solenoid valve (with one solenoid)	kg	1.69
The total weight of one solenoid valve (with two solenoids)		Optional position
The total weight of one solenoid valve (with one solenoid)	°C	-20~+50 (adopt NBR seal ring )

### HYDRAULIC DATA

Maximum working oil pressure Oil port P、A and B	MP a	35
The highest dynamic oil pressure T cavity can bear	MP a	15.5
The highest static oil pressure T cavity can bear	MP a	21
Rated flow	l/min	38
Maximum flow	l/min	50
Liquid medium		Mineral hydraulic oil, Phosphate hydraulic oil
The oil temperature range	°C	-20~+80
The oil cleanliness		ISO4572:β10≥75NAS1638: Class 9

### ELECTRICAL DATA

Voltage category	DC、RAC(coil with a rectifier component)						
Duty cycle	ED	100%					
Voltage allowable fluctuation range	%	-10~+10					
The reserving and resetting time	ms	On120 off100 (do not include RAC type)					
Maximum operating frequency	Hz	3					
Coil insulation class		H					
The maximum operating temperature coil allowed	°C	180					
Coil weight	kg	0.35					
Voltage	V	12	24	48	110	R110	R220
Power types		DC	DC	DC	DC	RC	RC
Power frequency	Hz					50/60	50/60
Power consumption	W	30	30	30	30	32	32
Coil resistance (20°C)	ohm	4.8	19.2	76.8	403	75.2	313
Operating current (20°C)	A	2.5	1.25	0.63	0.27	0.38	0.19

## DG4V5 Type Solenoid Directional Valve

### GENERAL DATA

The total weight of one solenoid valve (with two solenoids)	kg	DC: 6.55	AC:5.7
The total weight of one solenoid valve (with one solenoid)	kg	DC: 5.00	AC:4.2
The total weight of one solenoid valve (with two solenoids)		Optional position	
The total weight of one solenoid valve (with one solenoid)	°C	-20~+50 (adopt NBR seal ring )	

### HYDRAULIC DATA

Maximum working oil pressure Oil port P、A and B	MP a	31.5
The highest dynamic oil pressure T cavity can bear	MP a	16
The highest static oil pressure T cavity can bear	MP a	16
Rated flow	l/min	80
Maximum flow	l/min	120
Liquid medium		Mineral hydraulic oil, Phosphate hydraulic oil
The oil temperature range	°C	-20~+80
The oil cleanliness		ISO4572:β10≥75NAS1638: Class 9

### ELECTRICAL DATA

Voltage category		DC	AC	RAC(coil with a rectifier component)				
Duty cycle	ED	100%						
Voltage allowable fluctuation range	%	-10~+10						
The reserving and resetting time	ms	On:160	Off:120	on:25	Off:30	on:160	Off:along	
		with the change of phase angle					when electric disconnects	
Coil insulation class		Class B			Class H		Class B	
The maximum operating temperature coil allowed	℃	135			180		135	
Coil weight	kg	1.0			0.7		1.0	
Voltage	V	12		24	110	220		
Power rate	Hz				50	50	50/60	50/60
Power consumption	W	38	38	38	40	40	40	40
Coil resistance (20℃)	ohm	38	15.2	319	28	55	59.5	238
Operating current (20℃)	A	3.15	1.58	0.35	0.22	0.42	0.47	0.24