

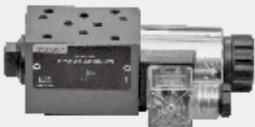


2.15

4/2 way isolator valve

Type Z4WE6...L3X

Size 6
Up to 315 bar
Up to 40 L/min



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Features

- Solenoid operated directional spool valve is the standard version
- Porting pattern to DIN 24 340 form A, ISO 4401 and CETOP-RP 121 H,
- Free-flow through ports P and T in all switched positions
- Sandwich plate valve
- Wet pin AC or DC solenoids
- Hand override, (optional)

Function and configuration

Type Z4WE6 Isolator valves are solenoid operated directional spool valves. They control the flow connection and isolating of flow.

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

In the de-energized condition the control spool (3) is held in the neutral or initial position by means of return springs (4) (except for pulse valves). The control spool (3) is actuated via wet pin solenoids (2).

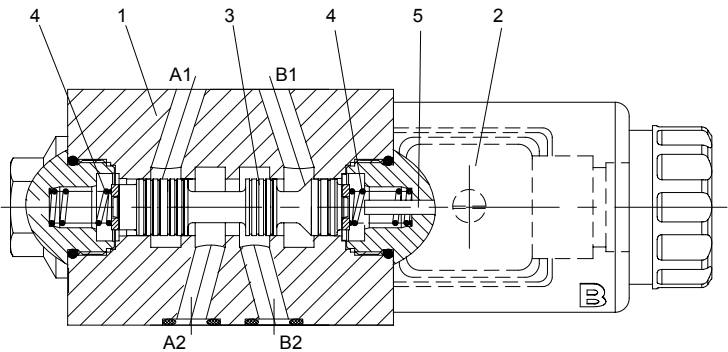
To ensure satisfactory operation care should be taken that the solenoid pressure chamber is filled

with oil.

The force of the solenoids (2) acts via the push rod (5) on the control spool (3), control spool (3) is pushed from its neutral position to the required position. Then port A1, A2, B1 and B2 can be either connected or disconnected. P and T always flow freely.

When solenoid (2) is de-energised, the control spool (3) is returned to its neutral position by means of the return springs (4).

An optional hand override allows movement of the control spool without energizing the solenoid.



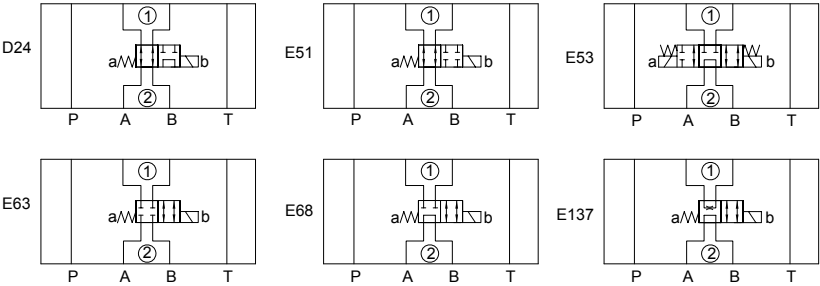
Ordering code

Z4WE		6	-	L3X	/	E			N			*			
Isolator valve													Further details in clear text		
Nominal size 6		= 6												No code =	NBR seals
Symbols e.g. D24, E63 etc.													V =	FKM seals	
Series L30 to L39 (L30 to L39: unchanged installation and connection dimensions)			= L3X										Z4 =	Electrical plug without lamp (Not suit rectification AC)	
													Z5L =	Electrical plug with lamp	
High performance solenoid			=E										N=	With override button	
													G24 =	24V DC	
													W220R=	Plug rectification 220V	
													W110R=	Plug rectification 110V	
													Other voltage see Technical data		

Notes: If use AC electric source, the rectification AC is recommended.

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Symbols (① =valve side, ② = sub-plate side)



Technical data

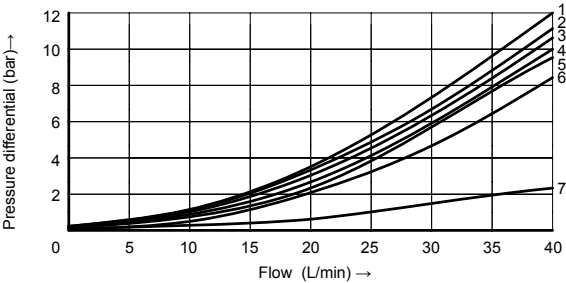
Fixing position			Optional
Environment temperature range			-30 to +50 (NBR seals)
			-20 to +50 (FKM seals)
Weight	Single solenoid	kg	1.5
	Double solenoids	kg	2.0
Max.operating pressure	Port A, B, P	bar	315
	Port T	bar	210 (DC), 160 (AC)
Max. flow			40 L/min
Fluid			Mineral oil suitable for NBR and FKM seal
			Phosphate ester for FKM seal
Fluid temperature range			-30 to +80 (NBR seal)
			-20 to +80 (FKM seal)
Viscosity range			2.8 to 500 mm ² /s
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 50/60Hz
Usable voltage			V	12, 24, 96, 110, 205, 220
Voltage tolerance (nominal voltage)			%	+10~ -15
Power consumption (DC)			W	30
Holding power (AC)			VA	-
Switch-on power (AC)			VA	50
				220
Duty			Continuous	
Switched time		ON	ms	20 to 45
		OFF	ms	10 to 20
Accord with ISO 6403			ms	10 to 25
Switched frequency			times/h	15 to 40
				to 15000
				to 7200
Preventive grade according to DIN 40050			IP65	

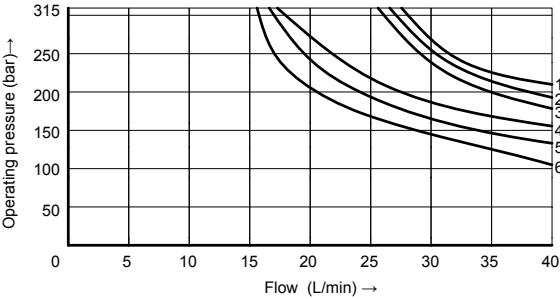
Caution: with electrical connections the protective conductor(PE \perp)must be connected according to the relevant regulations.

Characteristic curves (Measured at $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46)



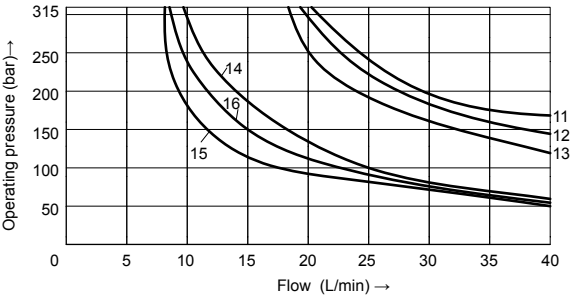
	A2 to A1	A1 to A2	B2 to B1	B1 to B2	A2 to B2	B2 to A2	T2 to T2	P2 to P1
D24	4	1	2	4	3	2	7	7
E51	3	1	1	3	-	-	7	7
E53	2	2	2	2	5	2	7	7
E63	2	5	5	3	-	-	7	7
E68	4	4	6	5	4	5	7	7
E137	1	4	3	2	5	6	7	7

Performance limit



- 1 E63 4 E51
- 2 E68 5 E137
- 3 E53 6 D24

(Measured at $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46 and 24VDC)



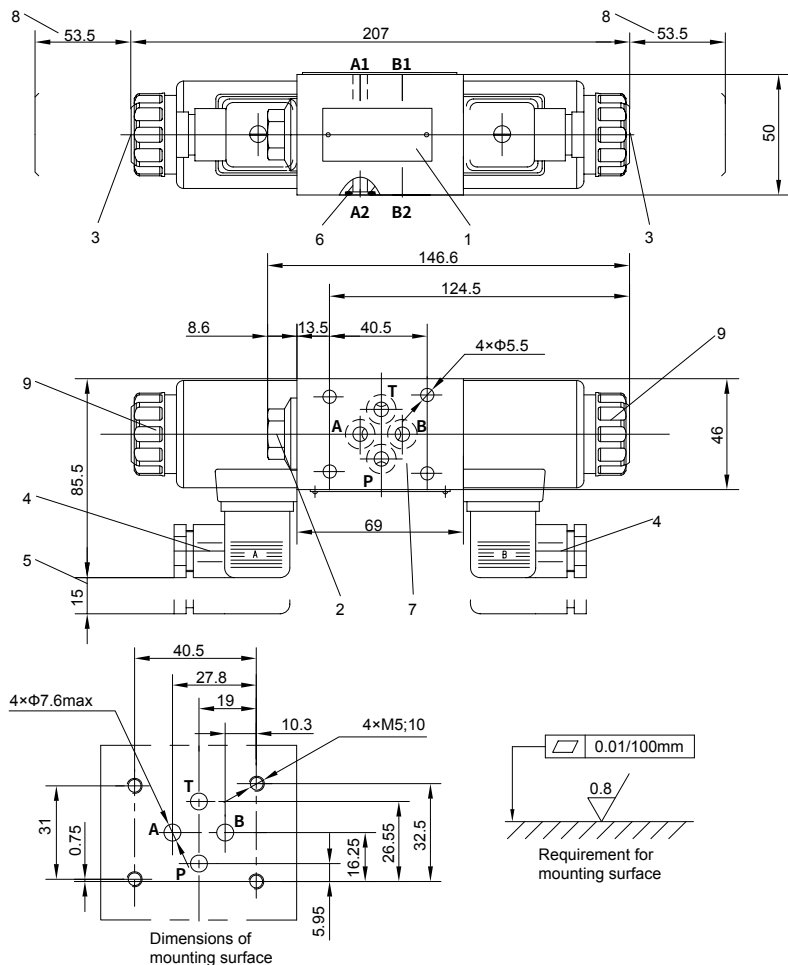
	W230-50Hz	W230-60Hz
E63	11	14
E68	12	16
E53	13	16
E137	15	15
E51	15	15
D24	15	15

(Measured at $\vartheta_{oil}=40^{\circ}\text{C} \pm 5^{\circ}\text{C}$, using HLP46 and 230VAC)

Unit dimensions

(Dimensions in mm)

Valve with DC solenoid



- 1 Nameplate
- 2 Plug for valves with one solenoid
- 3 Hand override button
- 4 Plug-in connector
- 5 Space required to remove Plug-in connector
- 6 O-ring 9.25×1.78
- 7 Porting pattern to ISO 4401 and
CETOP-RP 121 H, without pin hole
- 8 Space required to remove solenoid
- 9 Securing nut, tightening torque $M_A = 4\text{Nm}$

Valve fixing screws:

4-M5 GB/T 70.1-10.9, Tightening torque
 $M_A=8.9\text{Nm}$ must be ordered separately.

**It must be ordered separately
if connection plate is needed.**

Type:

G341/01(G1/4), G341/02 (M14×1.5)

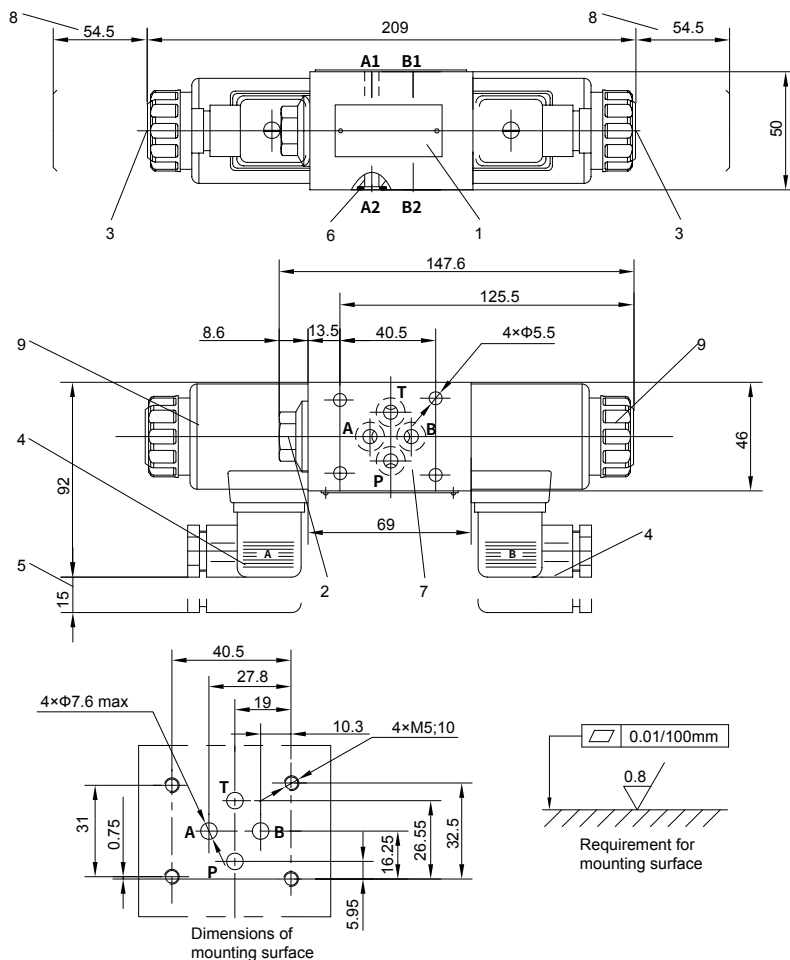
G342/01(G3/8), G342/02(M18×1.5)

G502/01(G1/2), G502/02(M22×1.5)

Unit dimensions

(Dimensions in mm)

Valve with AC solenoid



- 1 Nameplate
- 2 Plug for valves with one solenoid
- 3 Hand override button
- 4 Plug-in connector
- 5 Space required to remove Plug-in connector
- 6 O-ring 9.25×1.78
- 7 Porting pattern to ISO 4401 and CETOP-RP 121 H, without locating pin hole
- 8 Space required to remove solenoid
- 9 Securing nut, tightening torque $M_A = 4\text{Nm}$

Valve fixing screws:

4-M5 GB/T 70.1-10.9, Tightening torque $M_A = 8.9\text{Nm}$ must be ordered separately.

It must be ordered separately if connection plate is needed.

Type:

G341/01(G1/4), G341/02 (M14×1.5)
 G342/01(G3/8), G342/02(M18×1.5)
 G502/01(G1/2), G502/02(M22×1.5)