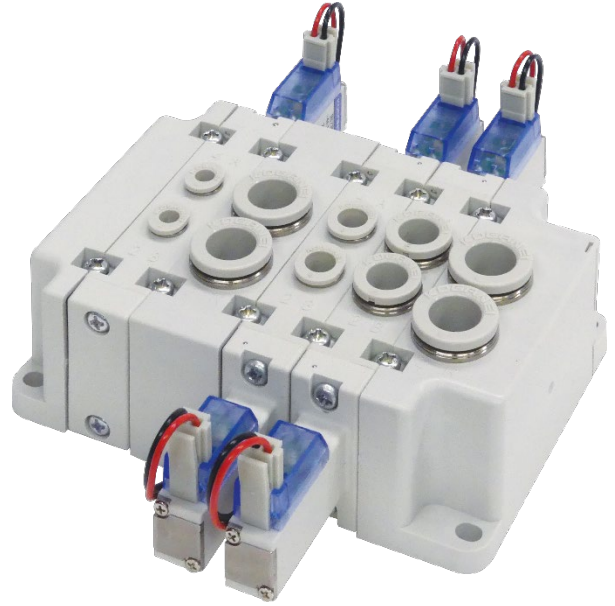


5-port Manifold Solenoid Valve

IBZR Series

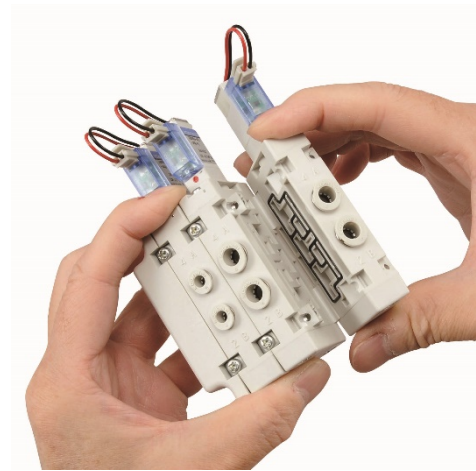


QUICK DELIVERY BY EASY ASSEMBLY

Simple configuration. Fitting 5/32", 1/4", 5/16", 4, 6, 8 mm. Single and double solenoid.

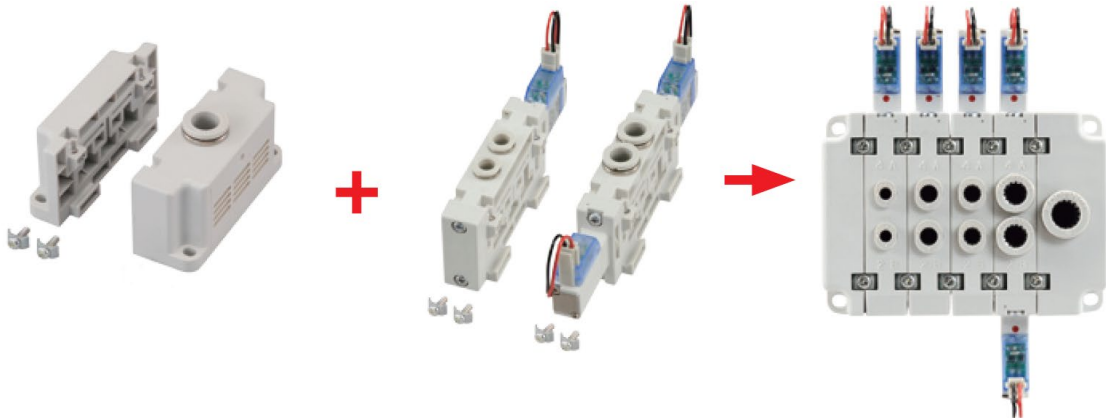
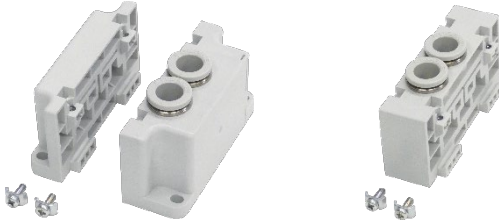
COST & SPACE SAVING

All plastic body. Thin and light weight.



NEW
Products

EXHAUST PIPING BLOCK AVAILABLE



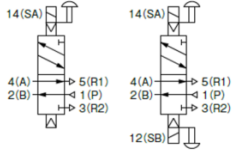
Order code

Valve



Valve specification

- 4E1 : 5 ports, 2 positions, single solenoid
- 4E2 : 5 ports, 2 positions, double solenoid



Valve outlet type

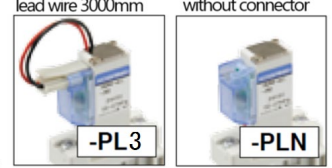
- J42 : ϕ 4mm quick fitting
- J62 : ϕ 6mm quick fitting
- J82 : ϕ 8mm quick fitting
- J5/32 : 5/32 quick fitting
- J1/4 : 1/4 quick fitting
- J5/16 : 5/16 quick fitting

Wire specification

- L type plug connector lead wire 300mm
- L type plug connector lead wire 1000mm



- L type plug connector lead wire 3000mm
- L type plug connector without connector



Model code

Valve specification

Valve outlet type

Wire specification

Voltage

IBZR8

-4E1
-4E2

-J42 -J5/32
-J62 -J1/4
-J82 -J5/16

-PL -PL3
-PL1 -PLN

DC24V

Valve & Manifold



Valve specification

- 4E1 : 5 ports, 2 positions, single solenoid
- 4E2 : 5 ports, 2 positions, double solenoid
- PJ : Intermediate piping block 1(P) 10mm
- PJ3/8 : Intermediate piping block 1(P) 3/8
- PJJ : Intermediate piping block 1(P), 3(R) 10mm
- PJ3/8J : Intermediate piping block 1(P), 3(R) 3/8

Valve specification

- Blank : Direct mounting
- DN : DIN rail mounting



Piping block specification

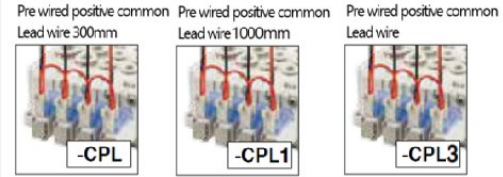
- Blank : ϕ 10 quick fitting 1(P)
- J3/8 : 3/8 quick fitting 1(P)
- J : ϕ 10 quick fitting 1(P).3(R)
- J3/8J : 3/8 quick fitting 1(P).3(R)

Valve outlet type

- J42 : ϕ 4mm quick fitting
- J62 : ϕ 6mm quick fitting
- J82 : ϕ 8mm quick fitting
- J5/32 : 5/32 quick fitting
- J1/4 : 1/4 quick fitting
- J5/16 : 5/16 quick fitting

Wire specification

- L type plug connector lead wire 300mm
- L type plug connector lead wire 1000mm
- L type plug connector lead wire 3000mm
- L type plug connector without connector



Manifold format

N : Finished product has each valve connected

NS : Semi-finished product before each valve is connected

Model

Number of valves

Manifold format

Mounting

Piping block

Stations

Models

Valve specification

Valve outlet type

Wiring

Voltage

Manifold model

Model of mounted valve

IBZR8M

1
⋮
20 (16)

N
NS

Blank
-DN

Blank
-J3/8
-J
-J3/8J

stn. 1
⋮
stn. □

IBZR8

-4E1
-4E2

-J42 -J5/32
-J62 -J1/4
-J82 -J5/16

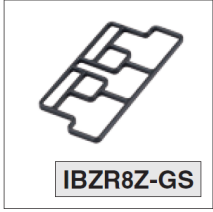
-PL -PLN
-PL1 -CPL

DC24V

-PJ -PJJ (If an intermediate piping block is
-PJ3/8 -PJ3/8J mounted on the specified station)

Additional parts

Gasket



(Units: 1)

Set of brackets and mounting screws



(Units: 2 piece set)

Din rail



DIN - □

Rail length

125 : 125mm	325 : 325mm
150 : 150mm	350 : 350mm
175 : 175mm	375 : 375mm
200 : 200mm	400 : 400mm
225 : 225mm	425 : 425mm
250 : 250mm	450 : 450mm
275 : 275mm	475 : 475mm
300 : 300mm	500 : 500mm

End block (left-right set)

IBZR8Z-□

E : φ10 quick fitting
E3/8 : 3/8 quick fitting



(With 1 gasket and 2 mounting screws (bracket attached))

Intermediate piping block

IBZR8Z-□

PJ : φ10 quick fitting
PJ3/8 : 3/8 quick fitting



(With 1 gasket and 2 mounting screws (bracket attached))

Bracket for din rail



(Units: 2 piece set)

End exhaust block (left-right set)

IBZR8Z-□

1 (P), 3 (P) port quick fitting
EJ : φ10mm quick fitting
E3/8J : 3/8 quick fitting



(With 1 gasket and 2 mounting screws (bracket attached))

Intermediate exhaust piping block

IBZR8Z-□

1 (P), 3 (P) port quick fitting
PJJ : φ10mm quick fitting
PJ3/8J : 3/8 quick fitting



(With 1 gasket and 2 mounting screws (bracket attached))

Connector-related

EAZ - □

Connector specification

- P : Connector, lead wire length 300 mm [11.8 in]
- P1 : Connector, lead wire length 1000 mm [39 in]
- P3 : Connector, lead wire length 3000 mm [118 in]
- PN : Connector, without lead wire (contacts included)

Common connector assembly

EAZ - □

Connector specification

- PA : Positive common A type, connector, lead wire length 300 mm [11.8 in]
- PA1 : Positive common A type, connector, lead wire length 1000 mm [39 in]
- PA3 : Positive common A type, connector, lead wire length 3000 mm [118 in]
- PB : Positive common B type, connector, lead wire length 300 mm [11.8 in]
- PB1 : Positive common B type, connector, lead wire length 1000 mm [39 in]
- PB3 : Positive common B type, connector, lead wire length 3000 mm [118 in]
- PC : Positive common C type, connector, lead wire length 300 mm [11.8 in]
- PC1 : Positive common C type, connector, lead wire length 1000 mm [39 in]
- PC3 : Positive common C type, connector, lead wire length 3000 mm [118 in]
- CPN : Positive common, connector, without lead wire (short bar and contacts included)

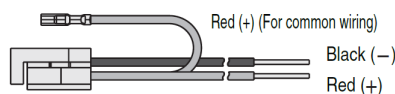
A type: EAZ-PA□*



B type: EAZ-PB□*

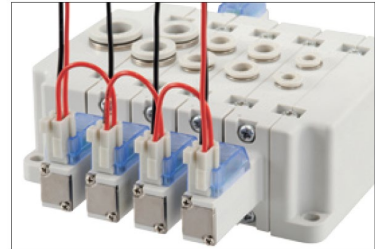


C type: EAZ-PC□*

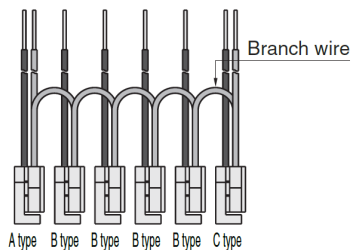


* Lead wire length
Blank: 300 mm [11.8 in]
1: 1000 mm [39 in]
3: 3000 mm [118 in]

Application example



Connection example



Specifications

Item	Model	IBZR8-4E1	IBZR8-4E2
Number of positions		2 positions	
Number of ports		5	
Valve function		Single solenoid	Double solenoid
Medium		Air	
Operation system		Internal pilot type	
Flow rate characteristics	Sonic conductance C	J42: 0.8, J62: 1.6, J82: 2	
	dm ³ /(s · bar)	J5/32: 0.8, J1/4: 1.6, J5/16: 2	
	Effective cross section area	J42: 4[0.22], J62: 8[0.44], J82: 10[0.56]	
	[CV value]	mm ² [Cv]	
		J5/32: 4[0.22], J1/4: 8[0.44], J5/16: 10[0.56]	
Connection port size		Supply port Φ10, outlet port Φ4, Φ6, Φ8	
		Supply port 3/8", outlet port 5/32", 1/4", 5/16"	
Lubrication		Not required	
Operating pressure range	MPa[psi]	0.2 to 0.7 [29 to 102]	
Proof pressure	MPa[psi]	1.05 [152]	
Operating temperature range	°C [°F]	5 to 50 [41 to 122]	
Response time [ON/OFF]	ms	15/30 or less	30 or less
Maximum operating frequency	Hz	5	
Shock resistance	m/s ² [G]	294.2 [30]	
Mounting direction		Unrestricted	

Electrical Specifications

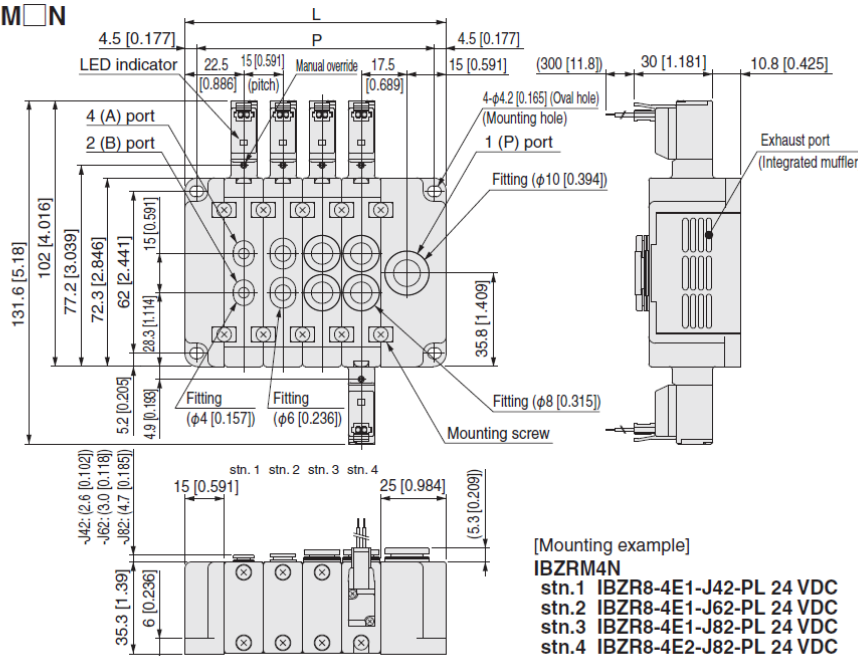
		DC24V
Applicable voltage range	V	21.6 to 26.4
Current (when rated voltage applied)	mA	23
Power consumption	W	0.55
Allowable circuit leakage current	mA	1
Type of insulation		B type
Insulation resistance	MΩ	100 or over
Color of LED indicator		Red
Surge protection (standard)		Fly wheel diode

Mass

Model	Mass
IBZR8-4E1	mm J42: 59, J62: 60, J82: 63
	in J5/32: 59, J1/4: 60, J5/16: 63
IBZR8-4E2	mm J42: 75, J62: 75, J82: 78
	in J5/32: 75, J1/4: 75, J5/16: 78
IBZR8Z-E	81
IBZR8Z-E3/8	81
IBZR8Z-PJ	50
IBZR8Z-PJ3/8	50
IBZR8Z-EJ	84
IBZR8Z-E3/8J	84
IBZR8Z-PJJ	53
IBZR8Z-PJ3/8J	53

Dimensions

IBZR8M□N



Unit dimensions

Number of units	L ^{Note}	P ^{Note}
1	55 [2.165]	46 [1.811]
2	70 [2.756]	61 [2.402]
3	85 [3.346]	76 [2.992]
4	100 [3.9]	91 [3.583]
5	115 [4.5]	106 [4.2]
6	130 [5.1]	121 [4.8]
7	145 [5.7]	136 [5.4]
8	160 [6.3]	151 [5.9]
9	175 [6.9]	166 [6.5]
10	190 [7.5]	181 [7.1]
11	205 [8.1]	196 [7.7]
12	220 [8.7]	211 [8.3]
13	235 [9.3]	226 [8.9]
14	250 [9.8]	241 [9.5]
15	265 [10.4]	256 [10.1]
16	280 [11]	271 [10.7]
17	295 [11.6]	286 [11.3]
18	310 [12.2]	301 [11.9]
19	325 [12.8]	316 [12.4]
20	340 [13.4]	331 [13]

Note: If intermediate piping blocks are mounted, add 20 mm [0.787 in] for each of the intermediate piping blocks in L and P.



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