

# 2port pilot operated solenoid valve for compressed air Compact air blow valve EXA Series

2 PORT PILOT OPERATED SOLENOID VALVE FOR COMPRESSED AIR EXA SERIES





2 port pilot operated solenoid valve for compressed air

# **EXA** Series

•NC (normally closed) type

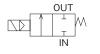
Port size: Push-in joint Φ6, Φ8, Φ10, Φ12

Diaphragm structure



## JIS symbol

NC (normally closed) type

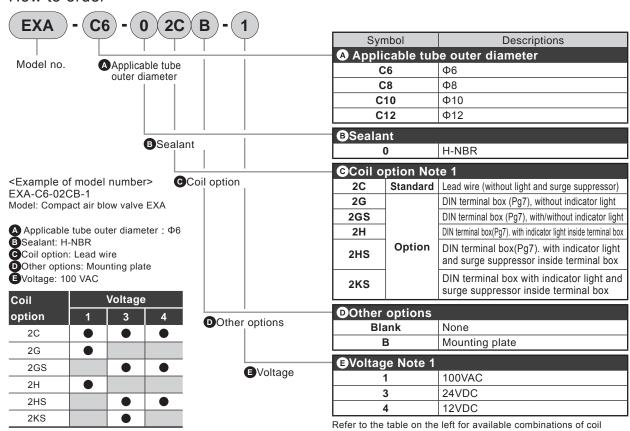


# **Specifications**

EXA-C6	EXA-C8	EXA-C10	EXA-C12	
	Compressed air			
	0.01 1	to 0.7		
	0.	.7		
	1.0	05		
	0 to 55 (to b	e unfrozen)		
	-5 to	55		
Does no	ot contact water, co	orrosive or flamma	ble gas.	
	Pilot operated diaphragm structure			
	2 or less			
	2 or	less		
Free				
Push-in joint Φ6	Push-in joint Φ8	Push-in joint Φ10	Push-in joint Φ12	
1.6	3.0	3.3	3.6	
0.45	0.33	0.26	0.20	
56	57	68	69	
100VAC(50/60Hz), 24VDC,12VDC Note 1				
1.2				
0.6				
В				
Protective structure (IEC standards: 529) Lead wire type: IPX0, with DIN terminal box: IPX5			x: IPX5	
	Push-in joint Φ6 1.6 0.45 56	Compre	Compressed air	

Note 1: Voltage fluctuation range is ±10% Note 2: Plus 20g for DIN terminal box.

#### How to order

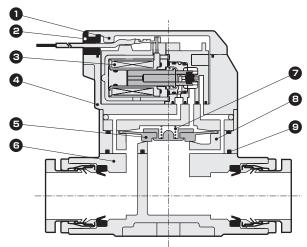


options and voltage

Select from the circle mark above.



# Internal structure and parts list

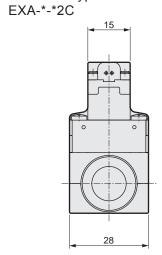


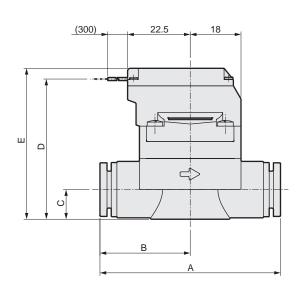
No.	Parts name		Material
1	Guard (Note 1)	PBT	РВТ
2	Bush	NBR	Nitrile rubber
3	Coil assembly	-	1-
4	Stuffing	PPS	Polyphenylene sulfide
5	Diaphragm assembly	IH-NIKR/PPS	Hydrogenated nitrile rubber/ polyphenylene sulfide
6	Main body	PBT	РВТ
7	Spring	sus	Stainless steel
8	Valve body	PBT	РВТ
9	Gasket	H-NBR	Hydrogenated nitrile rubber

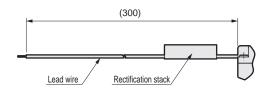
Note 1: PA66, polyamide will be used if DIN terminal box is attached.

# **Dimensions**

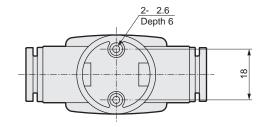
# • Lead wire type







Rectification stack is built in the lead-wire for only AC voltage.  $\label{eq:control} % \begin{center} \begin$ 



Model no.	Α	В	С	D	E
EXA-C6	52	28	8	45	48.5
EXA-C8	53	28.5	8	45	48.5
EXA-C10	62	31	11.5	51	54.5
EXA-C12	64	32	11.5	51	54.5

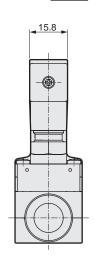
<sup>\*</sup> This drawing shows the exterior dimensions for Φ10

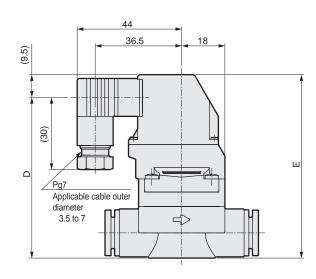


# Optional dimensions

DIN terminal box (Pg7)



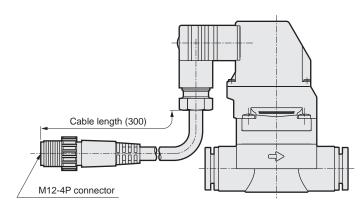


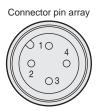


Model no.	D	E
EXA-C6	62	71.5
EXA-C8	62	71.5
EXA-C10	68	77.5
EXA-C12	68	77.5

 $<sup>^{\</sup>star}\,\text{This}$  drawing shows the exterior dimensions for  $\Phi 10$ 

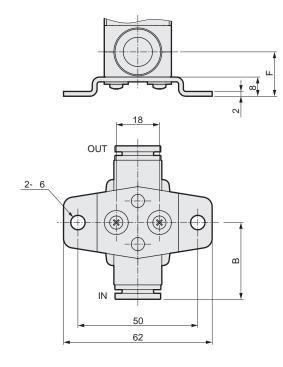
 With indicator light with DIN terminal box M12 connector lead EXA-\*-\*2KS





PIN No.	Applications
1PIN	(Does not use.)
2PIN	(Does not use.)
3PIN	Power supply-
4PIN	Power supply +

Mounting plate EXA-\*-\*\*B



Model no.	В	F
EXA-C6	28	16
EXA-C8	28.5	16
EXA-C10	31	19.5
EXA-C12	32	19.5

 $<sup>^{\</sup>star}\, This$  drawing shows the exterior dimensions for  $\Phi 10$ 

# Optional dimensions

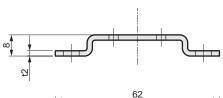
Mounting plate kit Model no.: EXA-MOUNT-PLATE-KIT

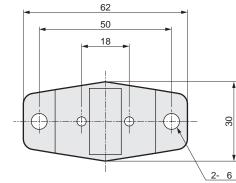
Below parts is provided as set.

• Mounting plate (below): 1 piece

• Plain washer: 2 pieces

• Set screw: 2 pieces





• Use the specified tightening torque mounting plate. Tightening torque: 0.54 to 0.66N•m



2 port pilot operated solenoid valve for compressed air

# CXU10-EXA Series



- ●N.C. (normally closed) type, diaphragm structure type
- Modular connection with 1000 Series
- •Ideal for modular component blow valves

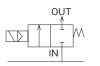




# ●ldea

# JIS symbol

NC (normally closed) type



# **Specifications**

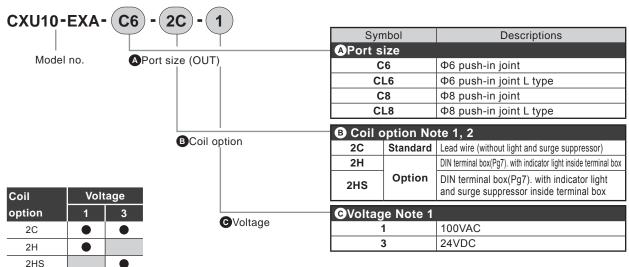
Descriptions			CXU1	D-EXA	
Working fluid		Compressed air			
Working pressure differential range	MPa		0.011	0.7	
Max. working pressure	MPa		0.	7	
Withstanding pressure	MPa		1.0	05	
Fluid temperature	°C		0 to	55	
Ambient temperature	°C		-5 to	55	
Atmosphere		Does no	ot contact water, co	orrosive or flamma	ble gas.
Valve structure		Pilot operated diaphragm structure			
Valve leakage c	:m³/min	10 or less			
Mounting attitude		Free			
Port size (IN)		None			
Port size (OUT)		Push-in joint Φ6	Push-in joint Φ6L type	Push-in joint Φ8	Push-in joint Φ8L type
C (dm <sup>3</sup> / (s/bar)) Note 2		1.	.6	3	.0
b		0.3	37	0.	32
Weight g	Note 3	98	95	98	100
<b>Electric specification</b>	ıs				
Rated voltage		100 VAC (50/60Hz), 24 VDC Note 1			
Apparent power	VA	1.2			
Power consumption W	DC	0.6			
Heat proof class		В			
Protective structure (IEC standar	ds: 529)	Lead w	rire type: IPX0, wit	h DIN terminal box	c: IPX5

Note 1: Voltage fluctuation range is ±10%

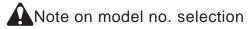
Note 2: Effective sectional area S and sonic conductance C are converted as  $S = 5.0 \times C$ .

Note 3: Models with DIN terminal box weighs +20g more.

# How to order



Select from the circle mark above.



Refer to the above table for available combinations of coil options and voltage.

Contact CKD for models with M12 connector cable.

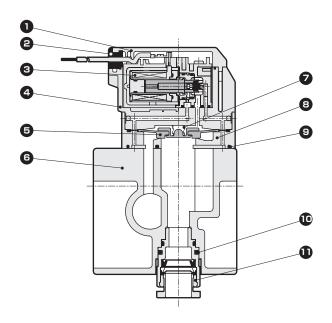
Refer to "Air unit CXU Series (No.CC-901)". Because this product is a valve air unit of CXU Series.



#### Internal structure•external dimensions

# Internal structure and parts list

#### CXU10-EXA

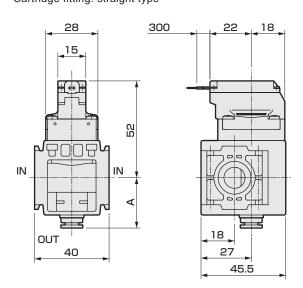


No.	Parts name		Material
1	Guard (Note 1)	PBT	РВТ
2	Bush	NBR	Nitrile rubber
3	Coil assembly	-	1-
4	Stuffing	PPS	Polyphenylene sulfide
5	Diaphragm assembly	H-NBR/PPS	Hydrogenated nitrile rubber/ polyphenylene sulfide
6	Body	PA66	Polyamide resin
7	Spring	sus	Stainless steel
8	Valve body	PBT	PBT
9	Gasket	H-NBR	Hydrogenated nitrile rubber
10	Pin	sus	Stainless steel
11	Fitting		

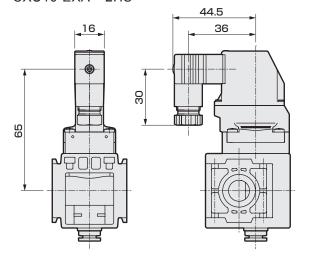
Note 1:PA66, polyamide will be used if DIN terminal box is attached.

# **Dimensions**

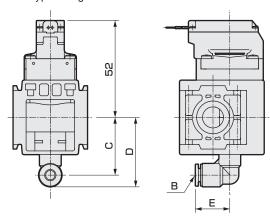
 Grommet lead wire type CXU10-EXA-\*-2C-\* Cartridge fitting: straight type



 With DIN terminal box (Pg11) type CXU10-EXA-\*-2HS-\*



#### Elbow type fitting



## Option dimensions

Option	Α	В	С	D	Е
C6	27	Push-in joint Ф6	-	-	-
CL6	-	Push-in joint Ф6	31	37	18.5
C8	27	Push-in joint Ф8	-	-	-
CL8	-	Push-in joint Ф8	32	39	21



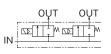
2 port pilot operated solenoid valve for compressed air Manifold model no.

# CXU10-GEXA Series

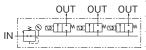
- ●NC (normally closed) type
- Order in manifolds with a regulator connected



# JIS symbol



(example) CXU10-EXA-C6-R-3-2C-3



# **Specifications**

Descriptions			CXU10-	GEXA3		
Working fluid		Compressed air				
Working pressure differential	MPa		0.011	to 0.7		
Max. working pressure	MPa		0.	.7		
Withstanding pressure	МРа		1.0	05		
Fluid temperature	°C		0 to	55		
Ambient temperature	°C		-5 to	55		
Atmosphere		Does no	t contact water, co	orrosive or flamma	ble gas.	
Valve structure		Pilot operated diaphragm structure				
Valve leakage cm <sup>3</sup> /min. (A	ANR)	10 or less				
Mounting attitude		Free				
Port size (IN)			IN: R	Rc3/8		
Port size (OUT)		Push-in joint Φ6	Push-in joint Φ6L type	Push-in joint Φ8	Push-in joint Φ8L type	
C (dm <sup>3</sup> / (s/bar)) Note 2		1.	6	3	.0	
b		0.3	37	0.	32	
<b>Electric specifications</b>						
Rated voltage		100VAC, 24VDC				
Rated electric power	VA	1.2				
Power consumption W	DC	0.6				
Heat proof class		В				
Protective structure (IEC standards	: 529)	Lead w	rire type: IPX0, wit	h DIN terminal bo	x: IPX5	

Note 1: Voltage fluctuation range is ±10%

Note 2: Effective sectional area S and sonic conductance C are converted as S  $\rightleftharpoons$  5.0 x C.

Regulator specifications					
Set pressure range	MPa	0.05 to 0.7 Note 3			
Relief		With relief mechanism			
Port size		Rc1/4			
Filter specifications	5				
Filtration rating	μm	5			
Drain capacity	cm <sup>3</sup>	12.0			
Port size		Rc1/4			

(Unit: kg)

Note 3: Set pressure range will be limited by the working pressure of CXU10-EXA.

# Weight

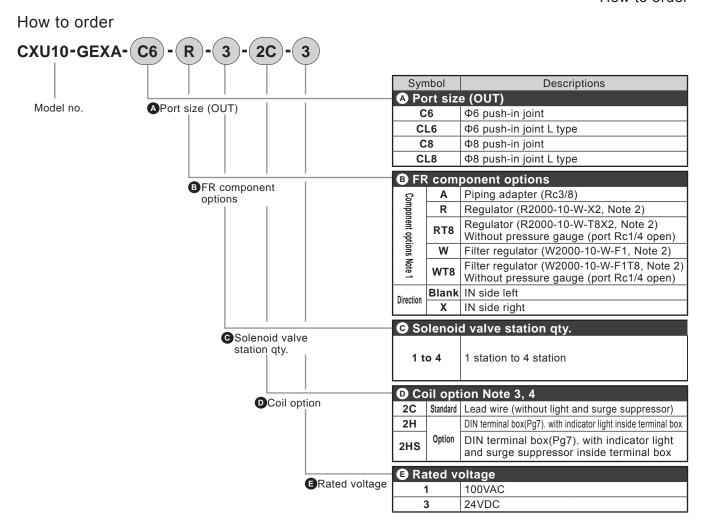
Descriptions	Descriptions
FR component (T type bracket, joiner, etc, , including)	
A: piping adapter	0.21
R: regulator	0.58
RT8: regulator (without pressure gauge)	0.57
W: Filter•regulator	0.70
WT8: Filter•regulator (without pressure gauge)	0.69
2 port solenoid valve	
CXU10-EXA (discrete valve + joiner) Note 4	0.11
Note 4: Modele with DIN terminal housesinks (00)	

Note 4: Models with DIN terminal box weighs +20g more.

Weight is calculable from FR unit and total number of 2 port valves.

Refer to "Air unit CXU Series (No.CC-901)". Because this product is a valve air unit of CXU Series.

How to order





### Note on model no. selection

Note 1: Standard filter•regulator is NC automatic drain type. Select A unless component option R, RT8, W, WT8 is selected.

Multiple FR device options cannot be selected.

Note 2: Model no. for IN side Left (FR device direction option "No symbol").

Note 3: Refer to the table on the right for available combinations of coil options and voltage.

Note 4: Contact CKD for models with M12 connector cable.

Coil	Voltage	
option	1	3
2C	•	•
2H	•	
2HS		•

Select from the circle mark above.

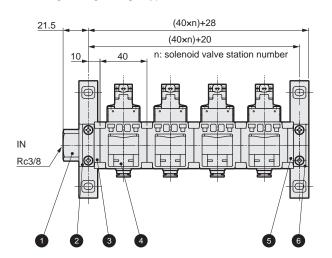
#### Internal structure

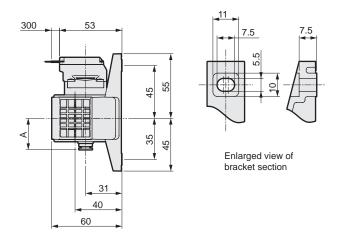
Model	Listed catalog and page no.
CXU10-EXA	Page 6
CXU10-TA	Catalog No. CC-901
CXU10-MA	Catalog No. CC-901
R2000	Catalog No. CB-024S
W2000	Catalog No. CB-024S

# CXU10-GEXA Series

## **Dimensions**

 Grommet lead wire type CXU10-GEXA-\*-A-\*-2C-\* Cartridge fitting: straight type





# Configuration table

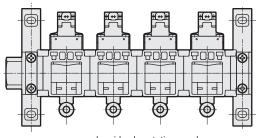
No.	Product name	Model no.
1	Piping adapter Note 1	(FR component options -A)
2	T type bracket	B110-W
3	Turn adapter	CXU10-TA-00
4	2 port pilot operated solenoid valve	CXU10-EXA-*
5	Turn adapter	CXU10-TA-00
6	Masking adapter	CXU10-MA-00-B

Note 1: The final product may differ depending on FR component options.

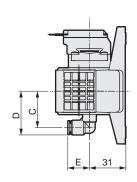
# Option dimensions

Model no.	Α	В	С	D	Е
C6	27	Push-in joint Ф6	-	-	-
CL6	-	Push-in joint Ф6	31	37	18.5
C8	27	Push-in joint Ф8	-	-	-
CL8	-	Push-in joint Ф8	32	39	21

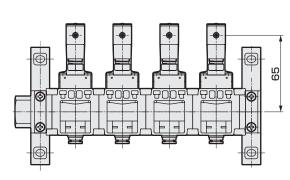
## Elbow type fitting

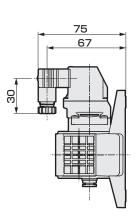


n: solenoid valve station number



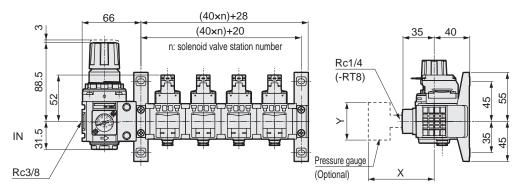
With DIN terminal box (Pg11) type CXU10-GEXA-\*-A-\*-2HS-\*





## **Dimensions**

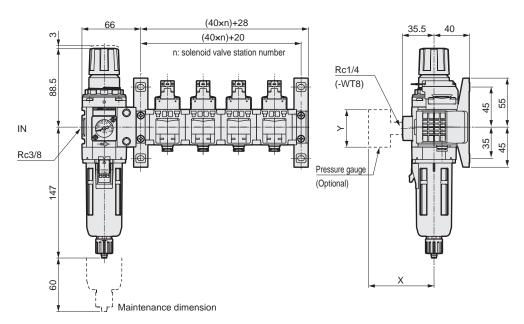
 F.R. component option: regulator type CXU10-GEXA-\*-<sup>R</sup><sub>RT8</sub> -\*-\*-\*



# Pressure gauge dimensions

•	-	
Pressure gauge (Optional)	Х	Y
G49D	(73.5)	Ф43.5
G59D	(76)	Ф52
G40D	(75.5)	Ф42.5
G50D	(75.5)	Ф52.5
G41D	(74)	Ф42
G52D	(79)	Ф52.5

 F.R. component option: filter regulator type CXU10-GEXA-\*-<sup>W</sup><sub>WT8</sub>-\*-\*-\*



## Pressure gauge dimensions

Pressure gauge (Optional)	Х	Y
G49D	(73.5)	Ф43.5
G59D	(76)	Ф52
G40D	(75.5)	Ф42.5
G50D	(75.5)	Ф52.5
G41D	(74)	Ф42
G52D	(79)	Ф52.5

 F.R. components option: reverse flow CXU10-GEXA-\*-<sup>R</sup><sub>RT8</sub> X-\*-\*-\*

