Made to Order Common Specifications: -XC3: Special Port Location



Part of the CM2-Z series (model highlighted in red) is to be discontinued as of the end of January 2025. Please select the CM2-Z1 series instead.

15 Special Port Location

Symbol -XC3

Compared with the standard type, a cylinder which changes the connection port location of rod/head cover and the location of cushion valve.

Δι	nn	lica	ble	Seri	es

Series	Description	Model	Action	Note	Vol. no. (for std model)
	Standard type	CJ2-Z	Double acting, Single rod	Except w/ rail mounting type auto switches, w/ air cushion	
CJ2	Non-rotating rod type	CJ2K-Z	Double acting, Single rod	Except w/ rail mounting type auto switches	1
	Smooth cylinder	CJ2Y-Z	Double acting, Single rod		1
	Air cylinder	CM2-Z1	Double acting, Single rod		1
		CM2-Z	Double acting, Single rod		1
	Standard type		Single acting (Spring return/extend)		1
		CM2W-Z	Double acting, Double rod		1
	Air-hydro type	CM2H-Z	Double acting, Single rod		1
	Non-rotating rod type	CM2K-Z	Double acting, Single rod		1
CM2			Single acting (Spring return/extend)		1
CIVIZ] "	CM2KW-Z	Double acting, Double rod		1
	Direct mount type	CM2R-Z	Double acting, Single rod	Except with air cushion	1
			Double acting, Single rod		1
	Non-rotating rod, Direct mount type				1
	Smooth cylinder	CM2Y-Z	Double acting, Single rod		1
	End lock cylinder	CBM2	Double acting, Single rod		1
	Low speed cylinder	CM2X-Z	Double acting, Single rod		1
CG1	Air cylinder	CG1-Z1	Double acting, Single rod		1
		MB	Double acting, Single rod		1
МВ	Standard type	MBW	Double acting, Double rod		1
		MBK	Double acting, Single rod		1
	Non-rotating rod type	MBKW	Double acting, Double rod		1
		MB1	Double acting, Single rod		1
MB1	Standard type	MB1W	Double acting, Double rod		1
	Non-rotating rod type	MB1K	Double acting, Single rod		Web Catalog
	Two it rotating roa type	CA2T-Z		It can only be selected for "-XC3BC," "-XC3CD," and "-XC3DA" products with a trunnion bracket.**	1
		CA2WT-Z		It can only be selected for "-XC3BC," "-XC3CD," and "-XC3DA" products with a trunnion bracket.**	1
CA2	Standard type	CA2	Double acting, Single rod		1
UAL		CA2W	Double acting, Double rod		1
	End lock cylinder	CBA2	Double acting, Single rod		1
	Standard type	CS1	Double acting, Single rod		1
CS1	Low friction type	CS1□Q	Double acting, Single rod		1
	Standard type	CS2	Double acting, Single rod		1
CS2	Smooth cylinder	CS2Y	Double acting, Single rod	Applicable to ø125 to ø160	1
RHC	High power cylinder	RHC	Double acting, Single rod		1
ппс	riigii powei cyllildei	nno	Double acting	Applicable to 920 to 940	1
RSQ		RSQ-Z	Double acting with spring installed		1
			Single acting		1
	Stopper cylinder	RSQ*	Double acting	ø12 only	-
			Double acting Double acting with spring installed		-
				ø12 only	-
RSG	Stopper cylinder	RSG	Single acting	ø12 only	-
			Double acting		1
			Double acting with spring installed		
	ļ	01.4	Single acting		1
CL1	Locked up cylinder	CL1	Double acting, Single rod		1
CLS	Cylinder with lock	CLS	Double acting, Single rod		
CNA2	Cylinder with lock	CNA2	Double acting, Single rod	Unlocking cams are on the same side as cushion valves.	
MXH	Compact slide	MXH-Z	Double acting		

^{*} The RSQ, MB, MB1,and CA2 are the same shape as the current product.

How to Order

CJ2 CM2 CG1 Standard model no. -XC3 A B

Special port location

Specifications: Same as standard type.

Head port location seen from the rod side
 Rod port location seen from the rod side

* For port location, refer to the following diagrams and show the symbols of A.R. C. and D.

of A, B, C and D.

Series Corresponding symbol of mounting bracket (Positional relationships)

Series	
CJ2	A Port
CM2	D (()) В
CG1	C Pos

* Viewed from the rod side, the ports are rendered A, B, C, and D, in the clockwise direction.

Position relation between clevis and port



Viewed from the rod side, with the clevis positioned as shown in the diagram, the ports are rendered A, B, C, and D, in the clockwise direction.

- Positional relationships between port and cushion valve cannot be changed.
- Cylinder with cushion of CJ2 (CJ2-A) is not available for -XC3.
- The standard product is used for CG1-XC3AA/BB/CC/DD.



^{**} For products with a non-trunnion bracket, it can only be selected for the "-XC3BC," "-XC3CD," and "-XC3DA" if the direction of the included bracket is changed. Therefore, the part number suffix "-XC3CD" is not required. For other products with a special port location, the shape and model are the same as those of the existing CA2 series product.

Made to Order Common Specifications:



-XC3: Special Port Location



Symbol -XC3

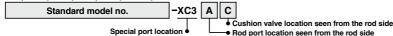
How to Order

CNA₂

CL1



Specifications: Same as standard type



* For port location, refer to the following diagrams and show the symbols of A, B, C and D.



- Note) A special port location can be selected for the CA2T-Z products listed below. . For products with a trunnion bracket, it can only be selected for the "-XC3BC,"
- "-XC3CD," and "-XC3DA."
- Part no. example) CA2T50-100Z-XC3BC

as those of the existing CA2 series product.

- For products with a non-trunnion bracket, it can only be selected for the "-XC3BC,"
- "-XC3CD," and "-XC3DA" if the direction of the included bracket is changed. * The part number suffix "-XC3 " is not required.

For products other than those listed above, the shape and model are the same

Relation between Port Location and Cushion Valve Location

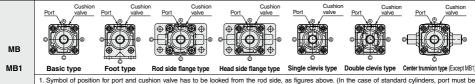
Series Corresponding symbol of mounting bracket (Positional relationships) Rod side Basic Foot Head side Single Double Center type flange type flange type clevis clevis trunnion type type type type (A (A) (A) CA₂ +) : [+ H. H. E 7,100 CS1

(Ċ) (Ċ) (C) (C) Cushion valve 1. As shown in the above diagram, the symbols for the positions of the ports and cushion valves are as follows: viewed from the rod side, the top position is rendered A;

- then, B, C, and D, in the clockwise direction. 2. The type in which the ports and the cushion valves are combined is applicable only when the rod cover and the head cover are changed to the same positions.
- 3. The symbol indicated as "-XC3 AB" is the standard specification, and there are no part numbers A or B.
- 4. Those shown above are the same as standard, other than the symbols that indicate the positions of the ports and the cushion valves

	Cushion valve Port	Cushion valve Port	Cushion valve Port	Cushion valve Port	Cushion valve Port	Cushion valve Port	Cushion valve Port
CS2							
	Basic type	Foot type	Rod side flange type	Head side flange type	Single clevis type	Double clevis type	Center trunnion type

- 1. Symbol of position for port and cushion valve has to be looked from the rod side, as figures above. (In the case of standard cylinders, port must be positioned in the upper side.) Define the upper side to be A, and then B, C, and D in a clockwise order
- 2. Model of combination between port and cushion valve is applicable only when the position of a port and a cushion valve on the rod cover and the head cover will be changed to the same position against the support bracket, as a rule
- 3. -XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products



- positioned in the upper side.) Define the upper side to be A, and then B, C, and D in a clockwise order. 2. Model of combination between port and cushion valve is applicable only when the position of a port and a cushion valve on the rod cover and the head
- cover will be changed to the same position against the support bracket, as a rule
- 3. XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products

In the case of standard type, the RSQ-Z symbol for port and rod-chamfered positions are on the same surface **RSQ** and positioned upward. Define the port position at right to be A, and then B, C in a clockwise order. RSG









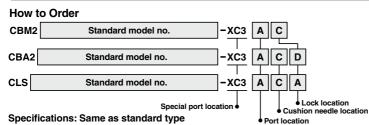
Made to Order Common Specifications:





15 Special Port Location

Symbol -XC3



Series	between Port Location and Cushion Valve Location							
CBM2	Corresponding symbol of mounting brack The port and end lock positions can be specified. Rod side port and head side port are at the same location. Symbols of lock position and port location are as the following diagrams. Port Except with air cushion Port and cushion needle are at the same rod/head position. Symbols of port location, cushion needle position and lock position are as the following diagrams. Port Standard (ABD) ACD ADB Cushion valve End lock				The figures below clevis type. AD Standard (BA	cD CA	BD DA	
CBA2					Diagrams seen from the rod side When the mounting bracket is attached, the conditions placed like below are on a basis. (A) (B) (C) (C) (C) (C) (A) (A) (A) (A) (A) (A) (B) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C			
CLS	A, and then B, C, and 2. The combination mode 3. Part number of -XC3	(C) ushion valve, ar D in a clockwise of a port and a BA is not av- type, lock posit	(C) nd lock positions, has order. a cushion valve is a ailable since it indications and D cannot be considered to the constant of the constan	oplicable when the rod are ates a standard type. It be manufactured since	(C) the rod side as shown in the dead covers are moved the brake cylinder and	ved to the same pos	(C) Define the upper side to be	

SMC

Made to Order Common Specifications:





15 Special Port Location

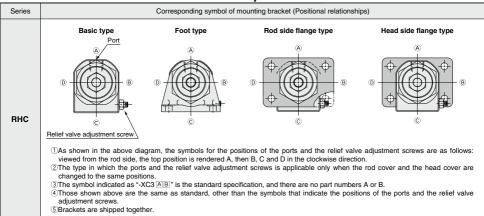
Symbol -XC3

How to Order



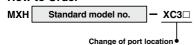
Specifications: Same as standard type

Relation between Port Location and Relief Valve Adjustment Screw Location



* For port location, refer to the following diagrams and show the symbols of A, B, C and D.

How to Order



Specifications: Same as standard type

The port location of a standard product is in the axial direction, and it is shipped as plugged on both sides. However, side ported types can be ordered. A shifting of the plugs is not required by the customer.

Relation between Port Location and Plug Location

