

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.

Symbol
-XC3

15 Special Port Location

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

Applicable Series

Series	Description	Model	Action	Note	Vol. no. (for std model)	
CJ2	Standard type	CJ2-Z	Double acting, Single rod	Except w/ rail mounting type auto switches, w/ air cushion		
	Non-rotating rod type	CJ2K-Z	Double acting, Single rod			
	Smooth cylinder	CJ2Y-Z	Double acting, Single rod			
CM2	Air cylinder	CM2-Z1	Double acting, Single rod	Except with air cushion		
	Standard type	CM2-Z	Double acting, Single rod Single acting (Spring return/extend)			
		CM2W-Z	Double acting, Double rod			
	Air-hydro type	CM2H-Z	Double acting, Single rod			
	Non-rotating rod type	CM2K-Z	Double acting, Single rod Single acting (Spring return/extend)			
		CM2KW-Z	Double acting, Double rod			
	Direct mount type	CM2R-Z	Double acting, Single rod			
	Direct mount type, Air-hydro type	CM2HR-Z	Double acting, Single rod			
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod			
	Smooth cylinder	CM2Y-Z	Double acting, Single rod			
End lock cylinder	CM2	Double acting, Single rod	Except with air cushion			
Low speed cylinder	CM2X-Z	Double acting, Single rod				
CG1	Air cylinder	CG1-Z1	Double acting, Single rod			
MB	Standard type	MB	Double acting, Single rod			
		MBW	Double acting, Double rod			
	Non-rotating rod type	MBK	Double acting, Single rod			
MB1	Standard type	MB1	Double acting, Single rod			
		MB1W	Double acting, Double rod			
MB1	Non-rotating rod type	MB1K	Double acting, Single rod		Web Catalog	
		MB1KW	Double acting, Double rod			
CA2	Standard type	CA2T-Z	Double acting, Single rod	It can only be selected for "-XC3BC," "-XC3CD," and "-XC3DA" products with a trunnion bracket.*		
		CA2WT-Z	Double acting, Double rod			
		CA2	Double acting, Single rod			Excludes the "-XC3BC," "-XC3CD," and "-XC3DA"***
		CA2W	Double acting, Double rod			Excludes the "-XC3BC," "-XC3CD," and "-XC3DA"***
CS1	Standard type	CBA2	Double acting, Single rod			
	Low friction type	CS1	Double acting, Single rod			
CS2	Standard type	CS1□Q	Double acting, Single rod	Applicable to ø125 to ø160		
	Smooth cylinder	CS2	Double acting, Single rod			
RHC	High power cylinder	CS2Y	Double acting, Single rod	Applicable to ø125 to ø160		
RSQ	Stopper cylinder	RHC	Double acting	Applicable to ø20 to ø40		
			RSQ-Z			Double acting with spring installed Single acting
		RSQ*	Double acting			ø12 only
			Double acting with spring installed Single acting			ø12 only ø12 only
RSG	Stopper cylinder	RSG	Double acting			
			Double acting with spring installed			
			Single acting			
CL1	Locked up cylinder	CL1	Double acting, Single rod			
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.

** 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 "-XC3□□" 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.

How to Order



Specifications: Same as standard type. Special port location

- 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, B, C and D.

Port Location

Series	Corresponding symbol of mounting bracket (Positional relationships)	
CJ2	<p>* Viewed from the rod side, the ports are rendered A, B, C, and D, in the clockwise direction.</p>	<p>* 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.</p>
CM2	<p>* 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.</p>	<p>* 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.</p>
CG1	<p>* 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.</p>	<p>* 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.</p>

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

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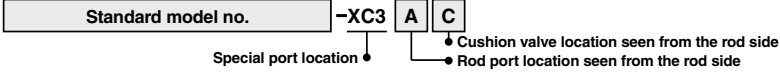


15 Special Port Location

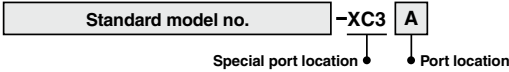
Symbol
-XC3

How to Order

MB, MB1, CA2, CS1, CS2, CNA2, CL1



RSQ-Z, RSQ, RSG



* 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 CA2-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

- 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 as those of the existing CA2 series product.

Specifications: Same as standard type

Relation between Port Location and Cushion Valve Location

Series	Corresponding symbol of mounting bracket (Positional relationships)						
	Basic type	Foot type	Rod side flange type	Head side flange type	Single clevis type	Double clevis type	Center trunnion type
CA2 CS1 CNA2 CL1							
	<ol style="list-style-type: none"> 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. 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. The symbol indicated as "-XC3[A][B]" is the standard specification, and there are no part numbers A or B. Those shown above are the same as standard, other than the symbols that indicate the positions of the ports and the cushion valves. 						
CS2							
	<ol style="list-style-type: none"> 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. 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. -XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products. 						
MB MB1							
	<ol style="list-style-type: none"> 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. 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. -XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products. 						
RSQ-Z RSQ RSG	<p>In the case of standard type, the symbol for port and rod-chamfered positions are on the same surface and positioned upward. Define the port position at right to be A, and then B, C in a clockwise order.</p>						

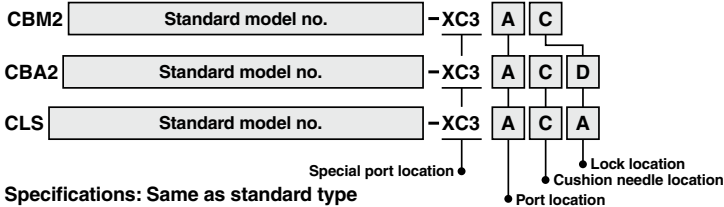
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How to Order



Specifications: Same as standard type

Relation between Port Location and Cushion Valve Location

Series	Corresponding symbol of mounting bracket (Positional relationships)	
CBM2	<p>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.</p> <p>Port A D B C Standard (AD) AC AB End lock</p> <p>Except with air cushion</p>	<p>The figures below show typical symbol examples for the double clevis type.</p> <p>AD CD BD Standard (BA) CA DA Diagrams seen from the rod side</p>
CBA2	<p>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.</p> <p>Port A D B C Standard (ABD) ACD ADB End lock Cushion valve</p>	<p>When the mounting bracket is attached, the conditions placed like below are on a basis.</p> <p>(A) (A) (A) (D) (B)(D) (B)(D) (B) Foot type (A) Rod side flange type Head side flange type (A) (A) (A) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) Single clevis type Double clevis type Center trunnion type Diagrams seen from the rod side</p>
CLS	<p>Basic type Foot type Rod side flange type Head side flange type Single clevis type Double clevis type Center trunnion type</p> <p>Lock location Port (A) (A) (A) (A) (A) (A) (A) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) (D) (B) Cushion valve (C) (C) (C) (C) (C) (C) (C)</p>	<ol style="list-style-type: none"> 1. Symbols of port and cushion valve, and lock positions, have to be looked at from the rod side as shown in the figures above. Define the upper side to be A, and then B, C, and D in a clockwise order. 2. The combination model of a port and a cushion valve is applicable when the rod and head covers are moved to the same position. 3. Part number of -XC3[A][B][A] is not available since it indicates a standard type. 4. For the rod side flange type, lock positions [B] and [D] cannot be manufactured since the brake cylinder and the mounting hole of the flange bracket interfere with each other. 5. Symbols excluding those that indicate the locations of ports and cushion valves are the same as the standard type.

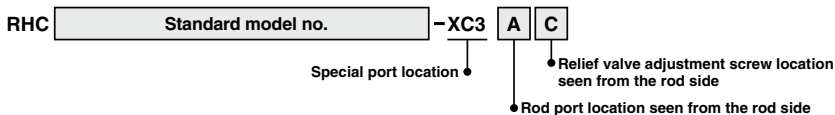
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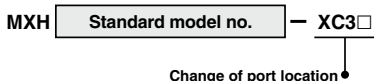
* For port location, refer to the following diagrams and show the symbols of A, B, C and D.

Specifications: Same as standard type

Relation between Port Location and Relief Valve Adjustment Screw Location

Series	Corresponding symbol of mounting bracket (Positional relationships)			
RHC	<p>Basic type</p>	<p>Foot type</p>	<p>Rod side flange type</p>	<p>Head side flange type</p>
	<p>Relief valve adjustment screw</p> <p>① As shown in the above diagram, the symbols for the positions of the ports and the relief valve adjustment screws 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 relief valve adjustment screws is applicable only when the rod cover and the head cover are changed to the same positions. ③ The symbol indicated as "-XC3 <input type="text" value="A"/> <input type="text" value="B"/>" 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 relief valve adjustment screws. ⑤ Brackets are shipped together.</p>			

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

Standard	-XC3A	-XC3B