

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



## 15 Special Port Location

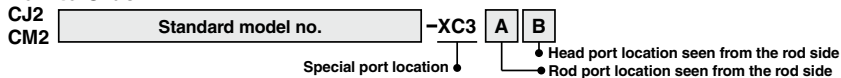
Compared with the standard type, a cylinder which changes the connection port location of rod/head cover and the location of cushion valve.

### 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	②-1 From P. 46		
	Non-rotating rod type	CJ2K-Z	Double acting, Single rod				
	Smooth cylinder	CJ2Y-Z	Double acting, Single rod	Except w/ rail mounting type auto switches			
CM2	Standard type	CM2-Z	Double acting, Single rod		②-1 From P. 172		
			Single acting (Spring return/extend)				
	Air-hydro type	CM2W-Z	Double acting, Double rod				
		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			Except with air cushion	
	Direct mount type, Air-hydro type	CM2RH-Z	Double acting, Single rod				
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod			Except air cushion	
Smooth cylinder	CM2Y-Z	Double acting, Single rod					
End lock cylinder	CBM2	Double acting, Single rod					
Low speed cylinder	CM2X-Z	Double acting, Single rod					
MB	Standard type	MB	Double acting, Single rod	②-1 From P. 392			
		MBW	Double acting, Double rod				
	Non-rotating rod type	MBK	Double acting, Single rod				
		MBKW	Double acting, Double rod				
MB1	Standard type	MB1	Double acting, Single rod	②-1 From P. 440			
	Non-rotating rod type	MB1K	Double acting, Single rod				
CA2	Standard type	CA2	Double acting, Single rod	②-1 From P. 470			
		CA2W	Double acting, Double rod				
	End lock cylinder	CBA2	Double acting, Single rod				
CS1	Standard type	CS1	Double acting, Single rod	②-1 From P. 530			
	Low friction type	CS1□Q	Double acting, Single rod				
CS2	Standard type	CS2	Double acting, Single rod	②-1 From P. 568			
	Smooth cylinder	CS2Y	Double acting, Single rod				
RHC	High power cylinder	RHC	Double acting, Single rod	②-3 From P. 351			
RSQ	Stopper cylinder	RSQ-Z	Double acting	②-3 From P. 560			
			Double acting with spring installed				
		RSQ*	Single acting				
			Double acting		ø12 only		
RSG	Stopper cylinder	RSG	Double acting with spring installed	②-3 From P. 560			
			Single acting		ø12 only		
		CL1	Locked up cylinder		CL1	Double acting, Single rod	②-2 From P. 830
			Cylinder with lock		CLS	Double acting, Single rod	
CNA2	Cylinder with lock	CNA2	Double acting, Single rod	②-2 From P. 922			
MXH	Compact slide	MXH-Z	Double acting	②-2 From P. 19			

\* The RSQ is the same shape as the current product.

### How to Order



Specifications: Same as standard type.

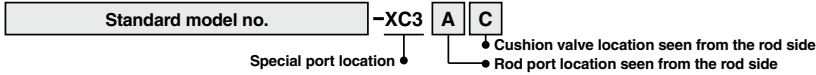
\* For port location, refer to the following diagrams and show the symbols of A, B, C and D.

### Port Location

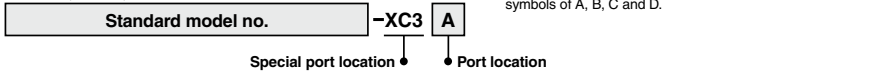
Series	Corresponding symbol of mounting bracket (Positional relationships)	
CJ2 CM2	<p>Position relation between clevis and port</p> <p>* Viewed from the rod side, the ports are rendered A, B, C, and D, in the clockwise direction.</p>	<p>* Viewed from the rod side, with the clevis positioned as shown in the diagram, the ports are rendered A, B, C, and D, in the clockwise direction.</p>
	1. Positional relationships between port and cushion valve cannot be changed.	2. Cylinder with cushion of CJ2 (CJ2-A) is not available for -XC3.

How to Order

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



RSQ-Z, RSQ, RSG



Specifications: Same as standard type

Relation between Port Location and Cushion Valve Location

Series	Corresponding symbol of mounting bracket (Positional relationships)						
CA2 CS1 CNA2 CL1	<p><b>Basic type</b></p>	<p><b>Foot type</b></p>	<p><b>Rod side flange type</b></p>	<p><b>Head side flange type</b></p>	<p><b>Single clevis type</b></p>	<p><b>Double clevis type</b></p>	<p><b>Center trunnion type</b></p>
CL1	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>The symbol indicated as "-XC3[A]B" is the standard specification, and there are no part numbers A or B.</li> <li>Those shown above are the same as standard, other than the symbols that indicate the positions of the ports and the cushion valves.</li> </ol>						
CS2	<p><b>Basic type</b></p>	<p><b>Foot type</b></p>	<p><b>Rod side flange type</b></p>	<p><b>Head side flange type</b></p>	<p><b>Single clevis type</b></p>	<p><b>Double clevis type</b></p>	<p><b>Center trunnion type</b></p>
CS2	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>-XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products.</li> </ol>						
MB MB1	<p><b>Basic type</b></p>	<p><b>Foot type</b></p>	<p><b>Rod side flange type</b></p>	<p><b>Head side flange type</b></p>	<p><b>Single clevis type</b></p>	<p><b>Double clevis type</b></p>	<p><b>Center trunnion type (Except MB1)</b></p>
MB MB1	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>-XC3AA is not available in terms of the position between port and cushion valve, since it is available in the standard products.</li> </ol>						
RSQ-Z RSQ RSG	<p><b>Standard type</b></p>	<p><b>-XC3A</b></p>	<p><b>-XC3B</b></p>	<p><b>-XC3C</b></p>	<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>		

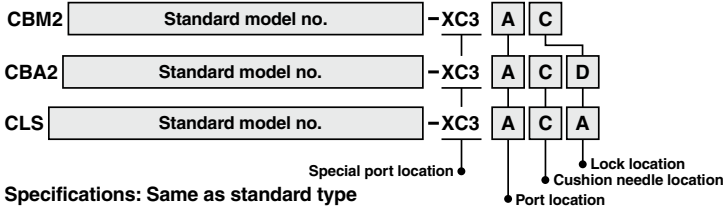


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### How to Order



Specifications: Same as standard type

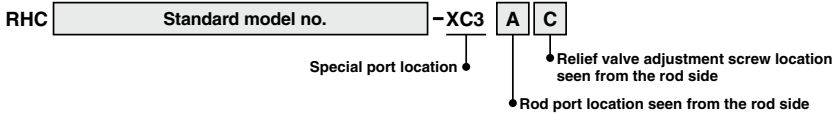
### Relation between Port Location and Cushion Valve Location

Series	Corresponding symbol of mounting bracket (Positional relationships)	
CBM2	<p>Port location 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>Standard (AD) AC AB</p> <p>Except with air cushion</p>	<p>Clevis type and trunnion type are based on the direction of clevis bracket.</p> <p>AD CD BD Standard (BA) CA DA</p> <p>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>Standard (ABD) ACD ADB</p>	<p>When the mounting bracket is attached, the conditions placed like below are on a basis.</p> <p>Single clevis type Double clevis type Center trunnion type</p> <p>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 Cushion valve</p> <p>(A) (B) (C) (D)</p>	
	<ol style="list-style-type: none"> <li>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.</li> <li>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.</li> <li>3. Part number of -XC3[A][B][A] is not available since it indicates a standard type.</li> <li>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.</li> <li>5. Symbols excluding those that indicate the locations of ports and cushion valves are the same as the standard type.</li> </ol>	

Symbol

-XC3□

### How to Order



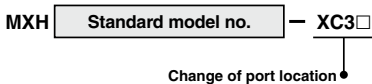
\* For port location, refer to the following diagrams and show the symbols of A, B, C and D.

### 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><b>Basic type</b></p>	<p><b>Foot type</b></p>	<p><b>Rod side flange type</b></p>	<p><b>Head side flange type</b></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[A][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