

# Simple Specials: -XA0 to XA30: Change of Rod End Shape

The following changes are dealt with through the Simple Specials System.  
Please contact your local sales representative for more details.

Part of the CG1 series (model highlighted in red) is to be discontinued as of the end of February 2025.  
Please select the CG1-Z1 series instead.

Symbol

## 1 Change of Rod End Shape

**-XA0 to XA30**

### Applicable Series

Series			Action	Symbol for change of rod end shape	Note
CJP2	Pin cylinder	CJP2	Double acting, Single rod	XA0/1/10/11	ø6, ø10, ø16
CJ2	Standard type	CJ2-Z	Double acting, Single rod	XA0/1/10/11	
			Single acting (Spring return/extend)	XA0/1/10/11	
	Non-rotating rod type	CJ2W-Z	Double acting, Double rod	XA0/1/10/11	
		CJ2K-Z	Double acting, Single rod	XA0/1/10/11	
	With speed controller type		Single acting (Spring return/extend)	XA0/1/10/11	
		CJ2Z-Z	Double acting, Single rod	XA0/1/10/11	
		CJ2ZW-Z	Double acting, Double rod	XA0/1/10/11	
		Direct mount type	CJ2RA-Z	Double acting, Single rod	XA0/1/10/11
			Single acting (Spring return/extend)	XA0/1/10/11	
	Non-rotating rod, Direct mount type	CJ2RK-Z	Double acting, Single rod	XA0/1/10/11	
			Single acting (Spring return/extend)	XA0/1/10/11	
	Smooth cylinder	CJ2Y-Z	Double acting, Single rod	XA0/1/10/11	
CM2	Standard type	CM2-Z	Double acting, Single rod	XA0 to 30	
			Single acting (Spring return/extend)	XA0 to 30	
	Standard type (Air-hydro type)	CM2W-Z	Double acting, Double rod	XA0 to 30	
		CM2H	Double acting, Single rod	XA0 to 30	
	Non-rotating rod type	CM2WH	Double acting, Double rod	XA0 to 30	
		CM2K-Z	Double acting, Single rod	XA0,1,6,10,11,13,14,17,19,21	
		CM2KW-Z	Double acting, Double rod	XA0,1,6,10,11,13,14,17,19,21	
		CM2K-Z	Single acting (Spring return/extend)	XA0,1,6,10,11,13,14,17,19,21	
	Direct mount type	CM2R-Z	Double acting, Single rod	XA0 to 30	
	Non-rotating rod, Direct mount type	CM2RK-Z	Double acting, Single rod	XA0,1,6,10,11,13,14,17,19,21	
	Centralized piping type	CM2□□P	Double acting, Single rod	XA0 to 30	
	End lock cylinder	CBM2	Double acting, Single rod	XA0 to 30	
	Smooth cylinder	CM2Y-Z	Double acting, Single rod	XA0 to 30	
CG1	Air cylinder	CG1-Z1	Double acting, Single rod	XA0 to 30	Excludes cylinders with a rod end bracket
	Standard type	CG1-Z	Double acting, Single rod	XA0 to 30	
			CG1W-Z	Double acting, Double rod	XA0 to 30
	Standard type (Air-hydro type)	CG1H-Z	Double acting, Single rod	XA0 to 30	
	Non-rotating rod type	CG1K-Z	Double acting, Single rod	XA0 to 30	
	Direct mount type	CG1R-Z	Double acting, Single rod	XA0 to 30	
	End lock cylinder	CBG1-Z1	Double acting, Single rod	XA0 to 30	
		CBG1	Double acting, Single rod	XA0 to 30	
	Smooth cylinder	CG1Y-Z	Double acting, Single rod	XA0 to 30	
CG3	Air cylinder	CG3-Z1	Double acting, Single rod	XA0 to 30	
	Standard type	CG3	Double acting, Single rod	XA0 to 30	

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Series			Action	Symbol for change of rod end shape	Note
<b>MB</b>	Standard type	<b>MB-Z</b>	Double acting, Single rod	XA0 to 30	Only 1 end can be changed. A special order is required for changes to both ends.
		<b>MBW-Z</b>	Double acting, Double rod	XA0 to 30	
	Non-rotating rod type	<b>MBK-Z</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	
	With end lock type	<b>MBB</b>	Double acting, Single rod	XA0 to 30	
	Smooth cylinder	<b>MBY-Z</b>	Double acting, Single rod	XA0 to 30	
<b>MB1</b>	Standard type	<b>MB1-Z</b>	Double acting, Single rod	XA0 to 30	Only 1 end can be changed. A special order is required for changes to both ends.
		<b>MB1W-Z</b>	Double acting, Double rod	XA0 to 30	
	Non-rotating rod type	<b>MB1K-Z</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	
<b>CA2</b>	Standard type	<b>CA2-Z</b>	Double acting, Single rod	XA0 to 30	Only 1 end can be changed. A special order is required for changes to both ends.
		<b>CA2W-Z</b>	Double acting, Double rod	XA0 to 30	
	Non-rotating rod type	<b>CA2K</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	
	Standard type (Air-hydro type)	<b>CA2□H</b>	Double acting, Single rod	XA0/1/3/5 to 8/10/11/13 to 23/26 to 30	
	End lock cylinder	<b>CBA2</b>	Double acting, Single rod	XA0 to 30	
	Smooth cylinder	<b>CA2Y-Z</b>	Double acting, Single rod	XA0 to 30	
<b>CS1</b>	Standard type	<b>CS1</b>	Double acting, Single rod	XA0 to 30	
		<b>CS1W</b>	Double acting, Double rod	XA0 to 30	
	Low friction type	<b>CS1□Q</b>	Double acting, Single rod	XA0 to 30	
<b>CS2</b>	Standard type	<b>CS2</b>	Double acting, Single rod	XA0 to 30	
		<b>CS2W</b>	Double acting, Double rod	XA0 to 30	
	Long stroke	<b>CS2-V</b>	Double acting, Single rod	XA0 to 30	
	Axial centralized piping	<b>CS2□P</b>	Double acting, Single rod	XA0 to 30	
	Smooth cylinder	<b>CS2Y</b>	Double acting, Single rod	XA0 to 30	
<b>CJ5</b>	Stainless steel cylinder	<b>CJ5-S</b>	Double acting, Single rod	XA0/1/10/11	
<b>CG5</b>	Stainless steel cylinder	<b>CG5-S</b>	Double acting, Single rod	XA0 to 30	
<b>CN CL</b>	Cylinder with lock	<b>CNG</b>	Double acting, Single rod	XA0 to 30	
		<b>CNA2</b>	Double acting, Single rod	XA0 to 30	
		<b>CNS</b>	Double acting, Single rod	XA0 to 30	
		<b>CLS</b>	Double acting, Single rod	XA0 to 30	
<b>MWB</b>	Cylinder with lock	<b>MWB</b>	Double acting, Single rod	XA0 to 30	
	Lock unit	<b>MWB-UT</b>	—	XA1 to 30	Except XA2, XA9, XA12, XA24, XA25
<b>CL</b>	Fine lock cylinder	<b>CLJ2</b>	Double acting, Single rod	XA0/1/10/11	
		<b>CLM2</b>	Double acting, Single rod	XA0 to 30	
		<b>CLG1</b>	Double acting, Single rod	XA0 to 30	
<b>CL</b>	Locked-up cylinder	<b>CL1</b>	Double acting, Single rod	XA0 to 30	
<b>CV</b>	Valve mounted cylinder	<b>CVJ5</b>	Double acting, Single rod	XA0/1/10/11	
		<b>CVJ3</b>	Single acting (Spring return/extend)	XA0/1/10/11	
		<b>CVM5</b>	Double acting, Single rod	XA0 to 30	
		<b>CVM3</b>	Single acting (Spring return/extend)	XA0 to 30	
		<b>CV3</b>	Double acting, Single rod	XA0 to 30	
		<b>CVS1</b>	Double acting, Single rod	XA0 to 30	
		<b>CVM5K</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	
		<b>CVM3K</b>	Single acting (Spring return/extend)	XA0/1/6/10/11/13/14/17/19/21	
		<b>CV3K</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	ø40 to ø63
		<b>CVS1K</b>	Double acting, Single rod	XA0/1/6/10/11/13/14/17/19/21	ø40 to ø63

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Symbol

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-XA0 to XA30

### ⚠ Precautions

- SMC will make appropriate arrangements if no dimension, tolerance, or finish instructions are given in the diagram.
- Standard dimensions marked with "\*" will be as follows to the rod diameter (D).  
Enter any special dimension you desire.  
 $D \leq 6 \rightarrow D - 1 \text{ mm}$ ,  $6 < D \leq 25 \rightarrow D - 2 \text{ mm}$ ,  $D > 25 \rightarrow D - 4 \text{ mm}$
- In the case of double rod type and single acting retraction type, enter the dimensions when the rod is retracted.
- The same shape as the standard type is "A0".  
(The specifications of A0 are that only dimensions A and H are changed from the standard type. Excludes MWB-UT.)
- For the MWB-UT, there is no need to specify an H dimension.
- For the MWB-UT, to change 1 side, specify on 1 Simple Specials specification sheet, and to change both sides, specify on 2 Simple Specials specification sheets.

<b>Symbol: A0</b> 	<b>Symbol: A1</b> 	<b>Symbol: A2</b> 	<b>Symbol: A3</b> 
<b>Symbol: A4</b> 	<b>Symbol: A5</b> 	<b>Symbol: A6</b> 	<b>Symbol: A7</b> 
<b>Symbol: A8</b> 	<b>Symbol: A9</b> 	<b>Symbol: A10</b> 	<b>Symbol: A11</b> 
<b>Symbol: A12</b> 	<b>Symbol: A13</b> 	<b>Symbol: A14</b> 	<b>Symbol: A15</b> 

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-XA0 to XA30

<p>Symbol: <b>A16</b></p>	<p>Symbol: <b>A17</b></p>	<p>Symbol: <b>A18</b></p>	<p>Symbol: <b>A19</b></p>
<p>Symbol: <b>A20</b></p>	<p>Symbol: <b>A21</b></p>	<p>Symbol: <b>A22</b></p>	<p>Symbol: <b>A23</b></p>
<p>Symbol: <b>A24</b></p>	<p>Symbol: <b>A25</b></p>	<p>Symbol: <b>A26</b></p>	<p>Symbol: <b>A27</b></p>
<p>Symbol: <b>A28</b></p>	<p>Symbol: <b>A29</b></p>	<p>Symbol: <b>A30</b></p>	