

# Simple Specials: -XC15: Change of Tie-rod Length

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

Symbol

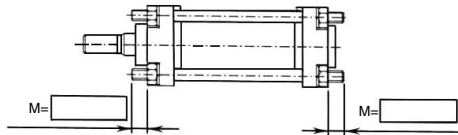
**-XC15**

## 9 Change of Tie-rod Length

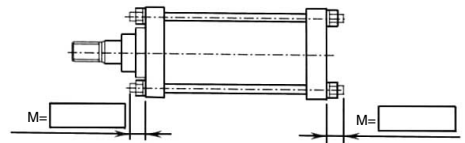
Cylinder with M dimension for tie-rod length changed from the standard length.

Series	Description	Model	Action	Note
CA2	Standard type	CA2-Z	Double acting, Single rod	
		CA2W-Z	Double acting, Double rod	
	Non-rotating rod type	CA2K	Double acting, Single rod	Applicable to ø40 to ø63
		CA2KW	Double acting, Double rod	Applicable to ø40 to ø63
	Air-hydro cylinder	CA2H	Double acting, Single rod	
	End lock cylinder	CBA2	Double acting, Single rod	
Smooth cylinder	CA2Y-Z	Double acting, Single rod		
CS1	Standard type	CS1	Double acting, Single rod	
		CS1W	Double acting, Double rod	
	Low friction type	CS1□Q	Double acting, Single rod	
CS2	Standard type	CS2	Double acting, Single rod	
		CS2W	Double acting, Double rod	
	Smooth cylinder	CS2Y	Double acting, Single rod	
CNA2	Cylinder with lock	CNA2	Double acting, Single rod	
		CNA2W	Double acting, Double rod	
		CV3	Double acting, Single rod	
CV	Valve mounted cylinder	CV3K	Double acting, Single rod	Applicable to ø40 to ø63
		CVS1	Double acting, Single rod	
		CVS1K	Double acting, Single rod	Applicable to ø40 to ø63
		CVS1K	Double acting, Single rod	Applicable to ø40 to ø63

### CA2, CNA2, CV series



### CS1, CS2 series



### ⚠ Precautions

- To order, specify the M dimension as well as the part number.
- SMC will make appropriate arrangements if no dimension, tolerance, or finish instructions are given in the diagram.
- Tie-rod length changeable range is described in the below.
- The M dimension of the bracket mounting side of Flange (F, G), Clevis (C, D) types cannot be specified.

### Tie-rod Length Changeable Range

(mm)

Model	CA2, CNA2, CV	CS1						
Bore size (mm)	All bore size	125	140	160	180	200	250	300
M Min.	0	15.5	18	20.5	22	26	32.5	
M Max.	300 <sup>(1)</sup>	270						

Note 1) The maximum value of M on the rod side for the CNA2 series is 50.

### Tie-rod Length Changeable Range

(mm)

Model	CS2							
Bore size (mm)	125		140			160		
Mounting bracket	L	B, F, G, C, D, T	L	B, F, G, C, D, T	L	B, F, G, C, D, T	L	B, F, G, C, D, T
M Min.	20	12	21	12	23	14		
M Max.	270							