

Simple Specials: -XA1/2/6/7/11/17/18: Change of Rod End Shape

These changes are dealt with Simple Specials System. Refer to the front matter pages for details.

Symbol

3 CQS/CQ2/RQ/CLQ (ø12 to ø25): Change of Rod End Shape

-XA1/2/6/7/11/17/18

Applicable Series

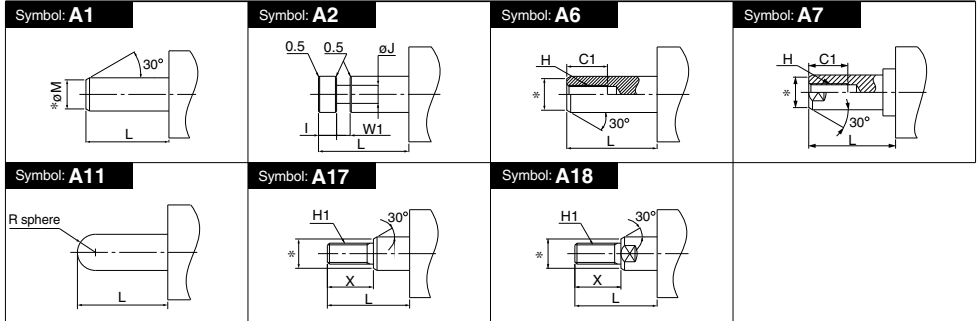
Series		Action	Symbol for change of rod end shape
CQS	Standard type	CQS Double acting, Single rod Spring acting (Spring return) ^(Note)	XA1/XA2/XA6 XA7/XA11
		CQSW Double acting, Double rod	
	Long stroke	CQS Double acting, Single rod	XA17/XA18
		CQS-S Double acting, Single rod	
	Anti-lateral load	CQSK Double acting, Single rod	XA1/XA2 XA6/XA11
		CQSKW Double acting, Double rod (Non-rotating side)	
Non-rotating rod type		CQSKW Double acting, Double rod (Round rod side)	XA1/XA2/XA6/XA7 XA11/XA17/XA18

Note) Single acting, spring extend type is available as a special order.

⚠ 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.
ø12, ø16 → D - 1 mm ø20, ø25 → D - 2 mm
- In the case of double rod, fill in the dimension when the rod is retracted.
- It is impossible to manufacture when XA17 and XA18 are the same male thread diameter as the piston rod external diameter.
- Please contact SMC separately for the piston rod end pattern part numbers other than the table above and the cases other than the manufacturing conditions.

Series		Action	Symbol for change of rod end shape
CQ2 (ø12 to ø25)	Standard type	CQ2-Z Double acting, Single rod Spring acting (Spring return)	XA1/XA2/XA6 XA7/XA11 XA17/XA18
		CQ2W-Z Double acting, Double rod	
	Axial piping type (Centralized piping type)	CQP2 Double acting, Single rod Single acting (Spring return)	XA1/XA2/XA6 XA11/XA17
		CQ2K-Z Double acting, Single rod	
	Non-rotating rod type	CQ2KW-Z Double acting, Double rod (Non-rotating side)	XA1/XA2/XA6/XA7 XA11/XA17/XA18
		CQ2KW-Z Double acting, Double rod (Round rod side)	
RQ	Standard type	RQ Double acting, Single rod	XA1/XA2/XA6/XA7 XA11/XA17/XA18
CLQ (ø20 to ø25)	With lock	CLQ Double acting, Single rod	XA1/XA2/XA6/XA7 XA11/XA17/XA18



Conditions of Manufacture

Change of rod end shape/Symbol	Single rod type	Double rod type
XA1	For ø12 øM: 3 mm or more 5 mm or less	øM: ø5 mm or less
	ø16 øM: 3 mm or more 7 mm or less	øM: ø7 mm or less
	ø20 øM: 4 mm or more 8 mm or less	øM: ø8 mm or less
	ø25 øM: 4 mm or more 10 mm or less	øM: ø10 mm or less
XA2	For ø12 øL: 4 mm or more, W1: 6 mm or less	øL: 3 mm or more, W1: 6 mm or less
	ø16 øL: 4 mm or more, W1: 6 mm or less	øL: 4 mm or more, W1: 6 mm or less
	ø20 øL: 5 mm or more, W1: 11 mm or less	øL: 5 mm or more, W1: 11 mm or less
	ø25 øL: 6 mm or more, W1: 13 mm or less	øL: 6 mm or more, W1: 13 mm or less
XA6	For ø12 H: M4 or less	H: M4 or less
	ø16 H: M6 or less	H: M6 or less
	ø20 H: M6 or less	H: M6 or less
	ø25 H: M8 or less	H: M8 or less
XA7	For ø12 H: M4 or less	H: M4 or less
	ø16 H: M5 or less	H: M5 or less
	ø20 H: M6 or less	H: M6 or less
	ø25 H: M8 or less	H: M8 or less

Change of rod end shape/Symbol	Single rod type	Double rod type
XA11	For ø12 SR3 mm only	SR3 mm or more
	ø16 SR4 mm only	SR4 mm or more
	ø20 SR5 mm only	SR5 mm or more
	ø25 SR6 mm only	SR6 mm or more
XA17	For ø12 H: M5 or more, X: 20 mm or less	H: M5 or less
	ø16 H: M6 or more, X: 22.5 mm or less	H: M6 or less
	ø20 H: M8 or more, X: 26.5 mm or less	H: M8 or less
	ø25 H: M10 or more, X: 33 mm or less	H: M10 or less
XA18	For ø12 H: M5 or more, X: 20 mm or less	H: M5 or less
	ø16 H: M6 or more, X: 22.5 mm or less	H: M6 or less
	ø20 H: M8 or more, X: 26.5 mm or less	H: M8 or less
	ø25 H: M10 or more, X: 33 mm or less	H: M10 or less