

ATEX Compliant ISO Cylinder

Standard: Double Acting, Single Rod

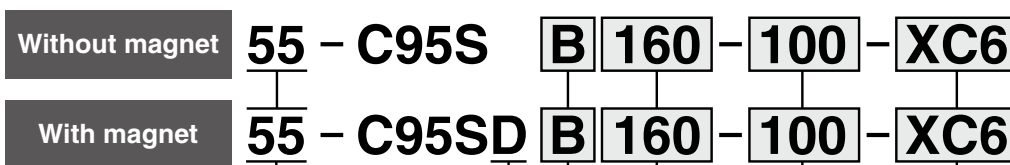
Series 55-C95

∅160, ∅200, ∅250, ∅320



CE II 2G Ex h IIC T5..T4 Gb
II 2D Ex h IIIC T91°C..T111°C Db

How to Order



ATEX category 2

Built-in magnet for auto switch

Mounting

B	Basic/without bracket
L	Axial foot
F	Rod side flange
G	Head side flange
C	Single clevis
D	Double clevis
T	Centre trunnion

Bore size

160	160 mm
200	200 mm
250	250 mm
320	320 mm

Made to Order

Nil	Standard
XA □□	Change of rod end shape
XC6	Stainless steel piston rod and rod-end nut
XC14 □*	Change of trunnion bracket mounting position

* Simple specials part no. except for XC14A or B.

Cylinder stroke

Maximum Stroke

Bore size (mm)	Standard	XC6	XC14
160	2000	1600	2000
200	2000	1600	2000
250	2400	1500	2400
320	2400	1500	2400

* Please consult with SMC for longer strokes.

Class 2 Pressure Vessel

Series C95 can not be used as the Class 2 Pressure Vessels. If the stroke exceeds the following values, the cylinder with such stroke can not be installed or used in Japan.

Bore size (mm)	Cylinder stroke (mm)
160	1987
200	998
250	813
320	495

Specifications

Bore size (mm)		∅160	∅200	∅250	∅320
Action		Double Acting, Single Rod			
Fluid		Air			
Proof pressure		1.5 MPa			
Max. operating pressure		1.0 MPa			
Min. operating pressure		0.05 MPa			
Ambient and fluid temperature		Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)			
Lubrication		Not required (Non-lube)			
Piston speed		50 to 500 mm/s			
Stroke tolerance	Up to 250 mm	+1.0 0 mm			+2.0 0 mm
	251 to 1000 mm	+1.4 0 mm			+2.4 0 mm
	1001 to 1500 mm	+1.8 0 mm			+2.8 0 mm
	1501 to 2000 mm	+2.2 0 mm			+3.2 0 mm
	2001 to 2400 mm	+2.6 0 mm			+3.6 0 mm
Cushion		Air cushion			Air cushion + Bumper cushion
Port size		G3/4	G3/4	G1	G1
Mounting		Basic, Axial foot, Rod side flange, Head side flange, Single clevis, Double clevis, Centre trunnion			

Mounting Bracket, Mounting Accessories

Description	Bore size	∅160	∅200	∅250	∅320
L	Foot	L5160	L5200	L5250	L5320
F, G	Flange	F5160	F5200	F5250	F5320
C	Single clevis	C5160	C5200	C5250	C5320
D	Double clevis	D5160	D5200	D5250	D5320
GKM	Rod clevis ⁽²⁾	GKM35-54		GKM40-84	GKM50-96
KJ	Piston rod ⁽³⁾ ball joint	KJ36D		KJ42D	KJ48D

Note 1) Accessories for each mounting bracket are as follows.

Foot, Flange, Single clevis: Mounting bolts

Double clevis: Mounting bolts, Clevis pin

Note 2) GKM according to ISO 8140 (Except GKM35-54)

Note 3) KJ according to ISO 8139

All other specifications are the same as the standard products Series C95.
[Click here](#) for details.

Refer to page 69 for applicable auto switches.

ATEX Compliant ISO Cylinder

Standard: Double Acting, Double Rod

Series 55-C95-W

ø160, ø200, ø250, ø320



CE II 2G Ex h IIC T5..T4 Gb
II 2D Ex h IIC T91°C..T111°C Db

How to Order

Without magnet 55 - C95S B 160 - 100 W - XC6

With magnet 55 - C95SD B 160 - 100 W - XC6

ATEX category 2

Built-in magnet for auto switch

Mounting

B	Basic/without bracket
L	Axial foot
F	Rod side flange
T	Centre trunnion

Bore size

160	160 mm
200	200 mm
250	250 mm
320	320 mm

Made to Order

Nil	Standard
XA□□	Change of rod end shape
XC6	Stainless steel piston rod and rod-end nut
XC14□*	Change of trunnion bracket mounting position

* Simple specials part no. except for XC14A or B.

Cylinder stroke

Maximum Stroke

Bore size (mm)	Standard	XC6	XC14
160 to 320	1200	1200	1200

* Please consult with SMC for longer strokes.

Specifications

Bore size (mm)	ø160	ø200	ø250	ø320
Action	Double Acting, Double Rod			
Fluid	Air			
Proof pressure	1.5 MPa			
Max. operating pressure	1.0 MPa			
Min. operating pressure	0.05 MPa			
Ambient and fluid temperature	Without auto switch: -10 to 70°C (No freezing) With auto switch: -10 to 60°C (No freezing)			
Lubrication	Not required (Non-lube)			
Piston speed	50 to 500 mm/s			
Stroke tolerance	Up to 250 mm	+1.0 0 mm		+2.0 0 mm
	251 to 1000 mm	+1.4 0 mm		+2.4 0 mm
	1001 to 1200 mm	+1.8 0 mm		+2.8 0 mm
Cushion	Air cushion			Air cushion + Bumper cushion
Port size	G3/4	G3/4	G1	G1
Mounting	Basic, Axial foot, Rod side flange, Centre trunnion			

Class 2 Pressure Vessel

Series C95 can not be used as the Class 2 Pressure Vessels. If the stroke exceeds the following values, the cylinder with such stroke can not be installed or used in Japan.

Bore size (mm)	Cylinder stroke (mm)
160	1987
200	998
250	813
320	495

All other specifications are the same as the standard products Series C95W. [Click here](#) for details.

Refer to page 69 for applicable auto switches.

Mounting Bracket, Mounting Accessories

Description	Bore size	ø160	ø200	ø250	ø320
L	Foot	L5160	L5200	L5250	L5320
F	Flange	F5160	F5200	F5250	F5320
GKM	Rod clevis ⁽²⁾	GKM35-54		GKM40-84	GKM50-96
KJ	Piston rod ⁽³⁾ ball joint	KJ36D		KJ42D	KJ48D

Note 1) Mounting bolts are shipped together for foot style and flange style.

Note 2) GKM according to ISO 8140 (Except GKM35-54)

Note 3) KJ according to ISO 8139