

ISO CylindersWide range and fast delivery













WIDE RANGE: Our ISO Cylinders take standardisation to another level

SMC presents you our full range of standards-complying cylinders: tie-rod, compact and round crimped body cylinders which observe standards ISO 15552, ISO 6431, ISO 21287 and ISO 6432 respectively.

Nevertheless, in SMC, standard does not mean basic and we provide our ISO standard cylinders with additional features so they can adapt to your more particular demands:

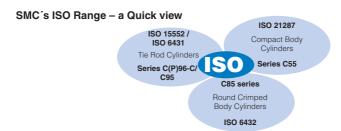
- Wide range of mounting accessories It is possible to mount the cylinders practically everywhere
- Many options available as standard: ATEX compliant to be used in potentially explosive atmospheres, high and low temperature resistance or intermediate strokes, among others (detailed information in the inside). **Because the applications are not always standard.**

FAST DELIVERY: SMC is close to you with ISO

Close to you with Standard ISO - Immediate Shipping & Fast Delivery - At our European Central Warehouse placed in Antwerp we stock more than 1300 standard ISO Cylinder references (detailed information in the inside).

Close to you with Semi-customised ISO - Production time: from 3 to 5 days* - Our newly opened Czech Republic Factory counts with the most modern facilities and highly qualified personnel to adapt our ISO range to your requirements (detailed information in the inside).

Close to you with Customised ISO - Production time: from 1 to 6 days* - If you require a fully customised ISO, SMC's local facilities will adapt any of our ISO range to your specific demands (detailed information in the inside).



ISO 15552- C96-C & CP96-C Series - ISO 6431 - C95 Series - Profile & Round Tube Tie-Rod Cylinder The ISO available with more standard entires.

The ISO cylinder with more standard options

With an easy adjustment of the cushion valve and a maximum flexibility for auto switch mounting on all four sides, C(P)96-C-C95 series achieve the best performance for both standard and specific applications. It can even be used in extreme environments or special conditions, for example: in smooth movements at low pressure, explosive atmospheres, places at high or low temperatures, dusty environments and areas subject to water splashing, among others.

ISO 21287 – C55 Series – Compact Body cylinder When space is a problem

If you don't find any cylinder that fits in that small place, C55 series is your solution. Designed in bores from \varnothing 20 to \varnothing 100, it now offers an improved and flush auto switch mounting possibilities with slide in grooves which can accommodate auto switches on all four cylinder sides without the need for auto switch brackets. There is also an option for explosive atmosphere.

ISO 6432 – C85 Series – Round Crimped Body cylinder A clean profile for dusty environments

The lightweight C85 has a unique rod packing design that prevents the entry of dust and its effectiveness of the seal is such that it is suitable for use in dusty environments, regardless of whether the environments are at high or low temperatures, or if you need to move slowly or work in explosive atmospheres.

* depending on model and quantity



ISO Cylinder, Series Variations and Index

										Bor	e siz	e [mi	m]							Standard	Maximum	T_
	Series	Туре	Action	8	10	12	16	20	25	32	40	50	63	80	100	125	160	200	250	stroke	stroke	Page
			Double acting, Single rod								•	•	•	•	•	•*				Up to 800 mm	Up to 2000 mm	
		Standard	Double acting,	-						•	•	•	•	•	•	•*				Up to	Up to	1
	CP96-C		Double rod Double acting,	_												_				800 mm	2000 mm	-
		N D : "	Single rod							•	•	•	•	•	•					Up to 800 mm	Up to 800 mm	
		Non-Rotating	Double acting, Double rod							•	•	•	•	•	•					Up to	Up to	1
			Double rod Double acting,	-						•	•					•*				800 mm Up to	800 mm Up to	4
		Standard	Single rod	<u> </u>							•		•		•					800 mm	1900 mm	4
			Double acting, Double rod							•	•	•	•	•	•	•*				Up to 800 mm	Up to 1900 mm	
	C96-C		Double acting, Single rod							•	•	•	•	•	•					Up to 800 mm	Up to 800 mm	
		Non-Rotating	Double acting,												•					Up to	Up to	1
ISO 15552 Tie-Rod Cylinder			Double rod								•	•	•	•	•					800 mm	800 mm	
		Smooth	Double acting, Single rod							•	•	•	•	•	•	•*				Up to 800 mm	Up to 1000 mm	
SO 15552 Rod Cylind			Double acting,	-						•	•	•	•	•	•	•				Up to	Up to 2000 mm	
30 1 30d		Standard	Single rod Double acting,	-											•	•				800 mm Up to	Up to	1
Tie-I	55-CP96		Double rod	_							•	•	•	•	•					800 mm	1000 mm	
	(ATEX)		Double acting, Single rod							•	•	•	•	•	•					Up to 800 mm	Up to 800 mm	
		Non-Rotating	Double acting, Double rod				************			•	•	•	•	•	•					Up to	Up to	1
			Double acting,	-												•				800 mm Up to	800 mm Up to	-
		Standard	Single rod	_						•	•	•	•	•	•	•				800 mm	2000 mm	6
	55-C96 (ATEX)		Double acting, Double rod							•	•	•	•	•	•	•				Up to 800 mm	Up to 1000 mm	
			Double acting,							•	•	•	•	•	•					Up to	Up to	
		Non-Rotating	Single rod Double acting,	-																800 mm Up to	800 mm Up to	-
			Double rod	_						•	•	•	•	•	•					800 mm	800 mm	
		Smooth	Double acting, Single rod							•	•	•	•	•	•	•				Up to 800 mm	Up to 1000 mm	
	CP96-C	and C96-C - Rel	ated products																			7
	C95																					
3431 30d 1der	55-C95	Standard	Double acting, Single rod														•	•	•	_	Up to 2400 mm	8
ISO 6431 Tie-Rod Cylinder	(ATEX)																					
	C95 - Re	lated products																				9
			Double acting, Single rod	•	•	•	•	•	•											Up to 300 mm	Up to 1000 mm	
		Standard	Double acting,	•	•	•		•	•											Up to	Up to	1
		Standard	Double rod Single acting,	-																300 mm Up to	500 mm Up to	-
inde	C85		Single rod	•	•	•	•	•	•											150 mm	150 mm	10
cyli	000		Double acting, Single rod	•	•	•	•	•	•											Up to 300 mm	Up to 1000 mm	
.32 3ody		Non-Rotating	Single acting,	-					•											Up to	Up to	1
ISO 6432 nped Boc			Single rod Double acting,																	150 mm Up to	150 mm Up to	
ISO 6432 Round Crimped Body cylinder		Direct Mount	Single rod	•	•	•	•	•	•											160 mm	1000 mm	11
) pt			Double acting, Single rod	•	•	•	•	•	•											Up to 300 mm	Up to 1000 mm	
Rour	55-C85	Standard	Double acting,	-		•	•	•	•											Up to	Up to	12
	(ATEX)		Double rod Double acting,																	300 mm Up to	500 mm Up to	- 12
		Non-Rotating	Single rod	•	•	•	•	•	•											300 mm	1000 mm	
	C85 - Re	lated products																				13
	C55		D 11																			14
pact pact	55-C55	Standard	Double acting, Single rod					•	•	•	•	•	•	•	•					Up to 150 mm	Up to 150 mm	
ISO 21287 Compact cylinder	(ATEX)																					15
	C55 - Re	lated products																				16
Relate	d products	3																				17
Other	non-ISO cy	linders																				18
		es C96 and CP9																				1

^{*} Available for series C96 and CP96 only.



Series CP96-C ISO 15552



Series C96-C ISO 15552



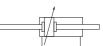
ISO Standard [ISO 15552]. Tie rod cylinder Standard / Non Rotating / Smooth type **Double Acting, Single/Double Rod** Series C(P)96-C Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

- · Light weight
- Easy and fine adjustment of the air cushion valve
- Integrated funtion of the air cushion and the bumper
- Minimum piston rod deflection
- Wide range of made to order specifications
- Strokes up to 2000 mm
- Operating piston speed up to 1000 mm/s
- ATEX compliant version for explosive atmospheres
- Possible to mount directly round D-M9□ auto switches on the 4 surfaces of the CP96-C

Standard Double Acting Single rod



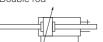
Standard Double Acting Double rod



Non-rotating Double Acting Single rod



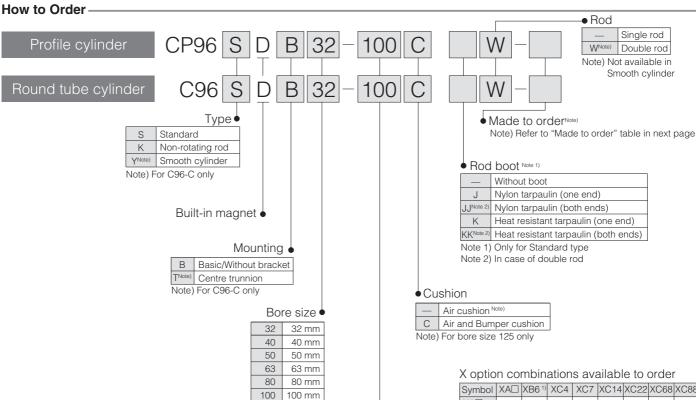
Non-rotating Double Acting Double rod



Smooth cylinder Double Acting Single rod







125 mm Note) For C(P)96 only

Stroke

		Singl	e rod	Doub	le rod	C(P)96K ^{Note)}	C96YNote
Bore size [mm]	Standard stroke [mm]	CP96 ^{Note)} Max. stroke	C96 ^{Note)} Max. stroke	CP96Note) Max. stroke	C96 ^{Note)} Max. stroke	Max. stroke	Max. stroke
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000	1000	2000	1000	500	800
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000	1900	2000	1900	500	800
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000	1900	2000	1900	600	1000
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000	1900	2000	1900	600	1000
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000	1900	2000	1900	800	1000
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000	1900	2000	1900	800	1000
125	_	2000	2000	1000	1000	_	1000

Intermediate strokes are available Note) Please consult with SMC for longer strokes

Symbol XA XB6 XC4 XC7 XC14 XC22 XC68 XC88											
Symbol	XA□	XB6 1)	XC4	XC7	XC14	XC22	XC68	XC88			
XA□											
XB6 1)	•										
XC4	•	Х									
XC7	• 3)	•	•								
XC14	• 3)	•	•	Х							
XC22	•	_	Χ	•	• 2)						
XC68	• 3)	•	•	•	• 2,3)	•					
XC88	•	_	_	•	• 2)	•	_				
XC89	•	_		•	• 2)	•	•	_			

- •: Combination possible to produce
- X: Combination possible to produce but contact with SMC -: Combination not produced
- Note 1) Only for without magnet type
- Note 2) If XC14A (trunnion next to the rod end) or XC14B (trunnion next to the head end) are required, the X combination is considered as Standard
- Note 3) These X option combinations also available for Smooth cylinder

If you want to order a combination of non Simple Special options, just add the X options by alphabetical order at the end of the part number, for example: XC7C22 or XC14AC68





Made to order-

Symbol	Details	How to order	C96S-C	CP96S-C	C96Y-C
_	Standard		•	•	_
_	Smooth cylinder		T -	_	•
XA0~30	Change of rod end shape	Please use SMC's simple special system and configurators	•	•	•
XC14	Change of trunnion bracket position	Please use SMC's simple special system and configurators	•	_	•
XB6	Heat resistant cylinder (-10~150 °C)	$C(P)96S\square\square-\square C\square(W)-XB6^{Note 7)}$	•	•	_
XB7	Cold resistant cylinder (-40~70 °C)	C96SB□-□C□-XB7 ^{Note 7)}	•	_	_
XC4 ^{Note 1)}	With Heavy Duty Scraper (protection against particles)	C(P)96SD□□-□C□(W)-XC4	•	•	_
XC7	Tie rod, cushion valve, and tie rod nut, made of stainless steel	C(P)96SD□□-□C□(W)-XC7	•	•	•
XC10 ^{Note 2,3)}	Dual stroke cylinder / Double rod type (back to back)	C(P)96SD□□-□+□C-XC10	•	•	•
XC11Note 4,5)	Dual Stroke Cylinder/Single Rod Type (in line)	C(P)96SD□□-□+□C-XC11	•	•	_
XC22	Fluoro rubber seals (for chemical splashes)	C(P)96SD□□-□C□(W)-XC22	•	•	_
XC35	With Coil Scraper (when frost, weld spatter or others adhere to rod)	C(P)96SD□□-□C□(W)-XC35	•	•	_
XC65 ^{Note 6)}	Made of Stainless Steel (Combination of -XC7 and -XC68)	C(P)96SD□□-□C□(W)-XC65	•	•	•
XC68Note 6)	Piston rod, and rod end nut made of stainless steel	C(P)96SD□□-□C□(W)-XC68	•	•	•
XC88	Spatter resistant coil scraper, Lube-retainer, Grease for welding (Piston rod: Stainless steel 304)	C(P)96SD□□-□C□(W)-XC88	•	•	_
XC89	Spatter resistant coil scraper, Lube-retainer, grease for welding (Piston rod: S45C)	C(P)96SD□□-□C□(W)-XC89	•	•	_

Note 1) Up to Ø 100

Note 2) Not possible with clevis and trunnion mounting type

Note 3) XC10 is not possible for double rod cylinder

Note 4) XC11 in a double rod cylinder, please consult SMC

Note 5) Not possible with trunnion mounting type

Note 6) Maximum strokes differ from the standard in the single rod types. In CP96-C - Ø 32: 1800, in CP96-C and C96-C - Ø 40 to Ø 100: 1700 and in CP96 and C96 - Ø 125: 1600

Note 7) Not possible with the built in magnet type, so do not add the "D" in the part number

Specifications-

Standard / Non Rotating type

0 71										
Bore size [mm]	32	40	50	63	80	100				
Action	Double acting									
Fluid			А	ir						
Proof pressure 1.5 MPa										
Max. operating pressure 1.0 MPa										
Min. operating pressure 0.05 MPa										
Ambient and fluid temperature					No free (No freezi	٠,				
Lubrication		No	t required	d (Non-luk	oe)					
Operating piston speed 50 to 1000 mm/s										
Cushion	Air	cushion c	n both er	nds + Bur	nper cust	nion				
Non-Rotating accuracy ±0.5° ±0.3°										

Smooth type

Bore size [mm]	32	40	50	63	80	100				
Action	Double acting									
Fluid			А	ir						
Proof pressure			1.05	MPa						
Max. operating pressure			0.7	MPa						
Min. operating pressure	0.02	MPa	0.01 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)									
Operating piston speed	5 to 500 mm/s									
Cushion	Air cushion on both ends + Bumper cushion									
Allowable leakage rate	0.5 l/min (ANR)									

Availability: Stocked items for fast delivery & Manufacturing (European and Local)

Stocked items for fast delivery

Part Number	Stroke (□)
CP96SDB32-□C	25, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 400, 500
CP96SDB40-□C	25, 30, 40, 50, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 400, 500
CP96SDB50-□C	25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 500
CP96SDB63-□C	25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 500
CP96SDB80-□C	25, 30, 40, 50, 60, 70, 80, 100, 125, 150, 160, 200, 250, 300, 320, 400, 500
CP96SDB100-□C	25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 500
CP96SDB125-□	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500

Stocked items could be subject to change without prior notice

Stocked items for fast delivery

Part Number	Stroke (□)
C96SDB32-□C	25, 50, 80, 100, 125, 160, 200, 250, 320
C96SDB40-□C	25, 50, 80, 100, 125, 160, 200, 250, 320
C96SDB50-□C	25, 50, 80, 100, 125, 160, 200, 250, 320
C96SDB63-□C	25, 50, 80, 100, 125, 160, 200, 250, 320
C96SDB80-□C	25, 50, 80, 100, 125, 160, 200, 250, 320
C96SDB100-□C	25, 50, 80, 100, 125, 160, 200, 250, 320

Stocked items could be subject to change without prior notice

European Manufacturing

- 3 days Production:
- Intermediate strokes
- Longer than standard strokes

5 days Production:

- Non Rotating cylinder
- Double rod cylinder
 Double rod + Non Rotating cylinder
 Smooth cylinder
- ATEX compliant version
- Change of rod end shape XA0~30
- Heat resistant cylinder (-10 ~ 150 °C) XB6
- Cold resistant cylinder (-40 ~ 70 °C) XB7
- Tie rod, cushion valve and tie rod nut made of stainless steel - XC7
- Piston rod and rod end nut made of stainless steel -XC68

Local Manufacturing

(from 1 to 6 days Production): Customised C(P)96-C

For emergency orders or other delivery dates, please consult with SMC For orders up to 10 pcs, delivery dates are a guideline



Series CP96-C ISO 15552

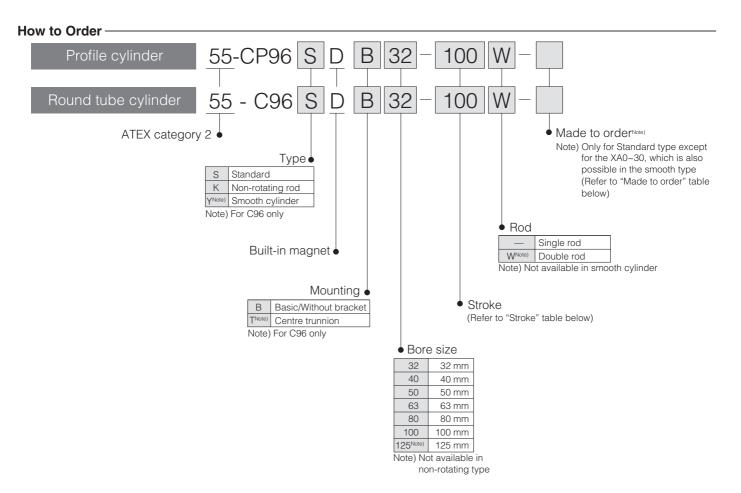


Series C96-C ISO 15552



ATEX compliant version (ATEX directive category 2)-

Classification	With magnet type D	(
II 2 GD c	T 85 °C (T5) Ta -10 °C to 40 °C T 105 °C (T4) Ta 40 °C to 60 °C	



Stroke

		Singl	e rod	Doub	le rod	-C(P)96K ^{Note)}	C96YNote)	
Bore size [mm]	Standard stroke [mm]	CP96 ^{Note)} Max. stroke	C96 ^{Note)} Max. stroke	CP96 ^{Note)} Max. stroke	C96 ^{Note)} Max. stroke	Max. stroke	Max. stroke	
32	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000	1000	1000	1000	500	800	
40	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500	2000	1900	1000	1000	500	800	
50	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000	1900	1000	1000	600	1000	
63	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600	2000	1900	1000	1000	600	1000	
80	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000	1900	1000	1000	800	1000	
100	25, 50, 80, 100, 125, 160, 200, 250, 320, 400, 500, 600, 700, 800	2000	1900	1000	1000	800	1000	
125	_	2000	2000	1000	1000	_	1000	

Intermediate strokes are available

Note) Please consult with SMC for longer strokes

Made to order -

Symbol	Details	How to order	C96	CP96
_	Standard		•	•
XA0~30	Change of rod end shape	Please use SMC's simple special system and configurators	•	•
XC14	Change of trunnion bracket position	Please use SMC's simple special system and configurators	•	_
XC4 ^{Note 1)}	With Heavy Duty Scraper (protection against particles)	C(P)96SD□□-□□(W)-XC4	•	•
XC7	Tie rod, cushion valve, and tie rod nut, made of stainless steel	C(P)96SD□□-□□(W)-XC7	•	•
XC22	Fluoro rubber seals (for chemical splashes)	C(P)96SD□□-□□(W)-XC22	•	•
XC68 ^{Note 2)}	Piston rod, and rod end nut made of stainless steel	C(P)96SD□□-□□(W)-XC68	•	•

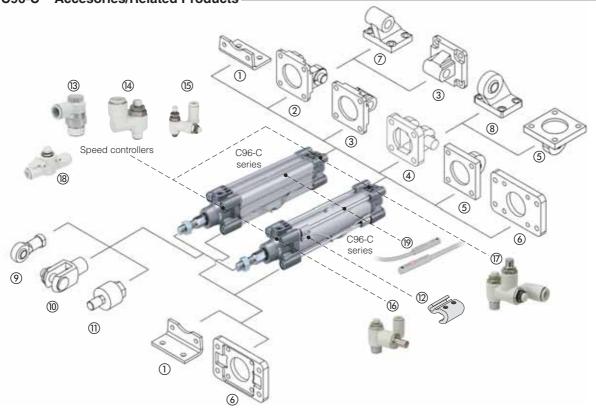
Note 1) Up to Ø 100

Note 2) The maximum strokes differ from the standard in the single rod types. In CP96 – Ø 32: **1800**, in CP96 and C96 – Ø 40 to Ø 100: **1700** and in CP96 and C96 – Ø 125: **1600**





CP96-C and C96-C - Accesories/Related Products



	1)	2	3	4	(5)	6	7	8	9	10	11)	12
Bore size [mm]	Foot (Supplied with two pieces and 4 screws)	Female head end clevis (Corresponds to E accessory) (Supplied with bolt, safety device and 4 screws)	Male head end clevis (Supplied with 4 screws)	Female head end clevis (for ES accessory) (Supplied with bolt, safety device and 4 screws)	Male head end clevis with ball joint (Supplied with 4 screws)	with 4 screws)	end clevis	Angled head end clevis with ball joint	Piston rod ball joint (ISO 8139)	Rod clevis (ISO 8140) (Supplied with bolt and safety device)		Auto switch mounting bracket (C96 only)
32	L5032	D5032	C5032	DS5032	CS5032	F5032	E5032	ES5032	KJ10D	GKM10-20	JA30-10-125	BMB5-032
40	L5040	D5040	C5040	DS5040	CS5040	F5040	E5040	ES5040	KJ12D	GKM12-24	JA40-12-125	DIVIDO-032
50	L5050	D5050	C5050	DS5050	CS5050	F5050	E5050	ES5050	KJ16D	GKM16-32	JA50-16-150	BA7-040
63	L5063	D5063	C5063	DS5063	CS5063	F5063	E5063	ES5063	KJ16D	GKM16-32	JA50-16-150	BA7-040
80	L5080	D5080	C5080	DS5080	CS5080	F5080	E5080	ES5080	KJ20D	GKM20-40	JAH50-20-150	DA7.000
100	L5100	D5100	C5100	DS5100	CS5100	F5100	E5100	ES5100	KJ20D	GKM20-40	JAH50-20-150	BA7-063
125 Note 1)	L5125	D5125	C5125	DS5125	CS5125	F5125	E5125	ES5125	KJ27D	GKM30-54	JA125-27-200	BA7-080

_		(13)	(14)	(15)	(6)	177	-	18		(9)		
Bore size	Ø	Speed controller	Speed controller	Dual speed	Air saving valve Air saving valve		Bore size	Speed controller		Auto switch		
[mm]	tube	elbow type	universal type	controller	Pressure valve	Flow valve	[mm]	\sim	n-line type	Solid state ty	pe - 2 colour ir	ndication
[]		Part number	Part number	Part number	Part number	Part number		Ø tube	Part No. Note 2)	Part No.	Wiring	Cable
	3,2	AS2201F-01-23A	AS2301F-01-23				32	1	AS2002F-04	D-M9BWL	2 wire	3 m
	4	AS2201F-01-04SA	AS2301F-01-04S	_		_		4	A52002F-04	D-M9PWL	3 wire PNP	3 m
32	6	AS2201F-01-06SA	AS2301F-01-06S	ASD330F-01-06S	_			6	AS2052F-06	D-M9PWSAPC	M8-3pin PNP	0.5 m
	8	AS2201F-01-08SA	AS2301F-01-08S	ASD330F-01-08S				Н		For ATEX Note	3)	
	4	AS2201F-02-04SA	AS2301F-02-04S	_				8	AS2052F-08	D-M9BWL-588	2 wire	3 m
	6	AS2201F-02-06SA	AS2301F-02-06S	ASD430F-02-06S	ASR430F-02-06S	ASQ430F-02-06S		6	AS3002F-06	D-M9PWL-588	3 wire PNP	3 m
40, 50	8	AS2201F-02-08SA	AS2301F-02-08S	ASD430F-02-08S	ASR430F-02-08S	ASQ430F-02-08S	40, 50	8	AS3002F-08	D-M9PWSAPC-588	M8-3pin PNP	0.5 m
	10	AS2201F-02-10SA	AS2301F-02-10S	ASD430F-02-10S	ASR430F-02-10S	ASQ430F-02-10S		10	AS3002F-10			
	12	_	AS2301F-02-12S	ASD430F-02-12S	ASR430F-02-12S	ASQ430F-02-12S		12	AS3002F-12			
	6	AS3201F-03-06SA	AS3301F-03-06S	ASD530F-03-06S	ASR530F-03-06S	ASQ530F-03-06S		6	AS3002F-06		Reed type	
00.00	8	AS3201F-03-08SA	AS3301F-03-08S	ASD530F-03-08S	ASR530F-03-08S	ASQ530F-03-08S	00	8	AS3002F-08	Part No.	Wiring	Cable
63, 80	10	AS3201F-03-10SA	AS3301F-03-10S	ASD530F-03-10S	ASR530F-03-10S	ASQ530F-03-10S	63	10	AS4002F-10	D-A93L	2 wire	3 m
	12	AS3201F-03-12SA	AS3301F-03-12S	ASD530F-03-12S	ASR530F-03-12S	ASQ530F-03-12S		12	AS4002F-12	D-A93SAPC	M8-3pin	0.5 m
100,	10	AS4201F-04-10SA	AS4301F-04-10S	ASD630F-04-10S	ASR630F-04-10S	ASQ630F-04-10S	80, 100,	10	AS4002F-10	For ATEX Note	3)	
125 Note 1)	12	AS4201F-04-12SA	AS4301F-04-12S	ASD630F-04-12S	ASR630F-04-12S	ASQ630F-04-12S	125	12	AS4002F-12	D-A93L-588	2 wire	3 m

Note 1) Only available for series C96 and CP96
Note 2) Ø 125: Can also use a large flow in-line type speed controller: AS420-04
Note 3) When mounting an auto switch on a 55-series (Category 2) model, the ATEX class of the cylinder with auto switch changes to Category 3, which is the same class as the auto switch. Auto switch only conforms to Category 3. (II 3GD EEx nA II T5x -10 °C ≤ Ta ≤ +60 °C IP67)

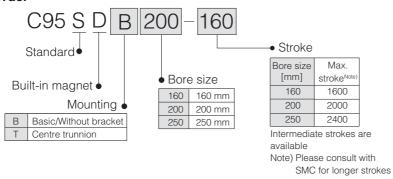


Series C95 ISO 6431

ISO/VDMA Standard [ISO 6431]. Tie rod cylinder Standard type Double Acting, Single Rod Series C95 Ø 160, Ø 200, Ø 250 Double acting, Single rod

- Strokes up to 2400 mm
- Operating piston speed up to 500 mm/s
- ATEX compliant version for explosive atmospheres
- Auto switch tie rod mounting

How to Order-



Specifications

Bore size [mm]		160	200	250			
Action			Double acting				
Fluid			Air				
Proof pressure			1.5 MPa				
Max. operating pressure			1.0 MPa				
Min. operating pressure	Min. operating pressure			0.05 MPa			
	Without auto switch	-10 to 70 °CNote) (No freezing)					
Ambient and fluid temperature	With auto switch	-10	-10 to 60 °C (No freezing)				
Lubrication	Lubrication			Not required (Non-lube)			
Operating piston speed	50 to 500 mm/s						
Cushion		Both ends (Air cushion)					

Note) ATEX version: -10 to 60 °C (No freezing)

Availability: Stocked items for fast delivery & Manufacturing (Local)

Stocked items for fast delivery

Part Number	Stroke (□)					
CP95SDB160-□	100, 125, 200, 250, 320, 400, 500					
CP95SDB200-□	100, 200					
Stacked items applied to abanga without prior notice						

Stocked items could be subject to change without prior notice

For emergency orders or other delivery dates, please consult with SMC For orders up to 10 pcs, delivery dates are a guideline

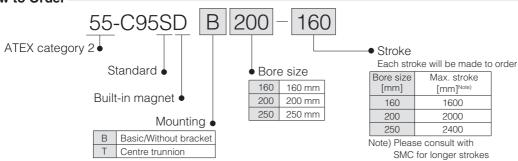
Local Manufacturing

(from 1 to 6 days Production): Customised C95

ATEX compliant version (ATEX directive category 2)-

Classification		(€
II 2 GD c	95 °C (T5) Ta -10 °C to 40 °C 115 °C (T4) Ta 40 °C to 60 °C	

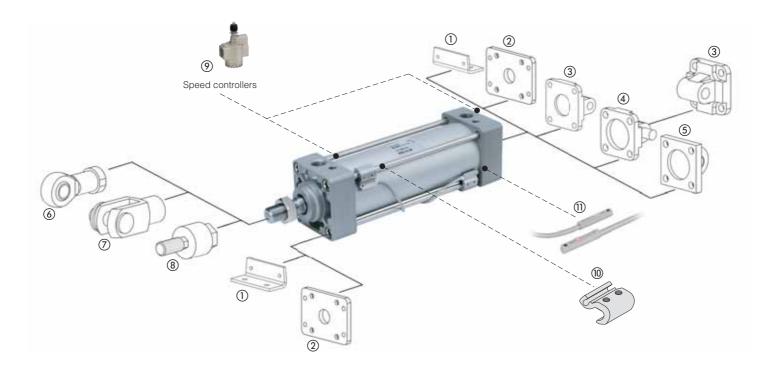








C95 - Accesories/Related Products -



	1	2	3	4	(5)	6	7	8	9	10
Bore size [mm]	Foot (Supplied with two pieces and 4 screws)		Single rear clevis (Supplied with 4 screws)	bolt, safety	Male head end clevis with ball joint (Supplied with 4 screws)	Piston rod ball joint (ISO 8139)	Rod clevis (ISO 8140) (Supplied with bolt and safety device)	Floating joint	Speed controller Large flow in-line type	Auto switch mounting bracket
160	L5160	F5160	C5160	D5160	CS5160	KJ36D	GKM35-54	JA160-36-200	AS500-06	BS5-160
200	L5200	F5200	C5200	D5200	CS5200	KJ36D	GKM35-54	JA160-36-200	AS500-06	BS5-160
250	L5250	F5250	C5250	D5250	CS5250	KJ42D	GKM40-84	_	AS600-10	BT-20

-			11)		
Bore size	Solid state 2-	colour indication	Reed auto switch		
[mm]	2 wire	3 wire PNP	M8-3pin PNP	2 wire	M8-3pin
. ,	3 m cable	3 m cable	0.5 m cable	3 m cable	0.5 m cable
160, 200	D-M9BWL	D-M9PWL	D-M9PWSAPC	D-A93L	D-A93SAPC
250	D-J59WL	D-F5PWL	D-F5PWSAPC	D-A54L	_

For ATEX Note:

ı	160, 200	D-M9BWL-588	D-M9PWL-588	D-M9PWSAPC-588	D-A93L-588	D-A93SAPC-588
ı	250	D-J59WL-588	D-F5PWL-588	D-F5PWSAPC-588	D-A54L-588	_

Note) When mounting an auto switch on a 55-series (Category 2) model, the ATEX class of the cylinder with auto switch changes to Category 3, which is the same class as the auto switch. Auto switch only conforms to Category 3. (II 3GD EEx nA II T5x $^{-10}$ °C \leq Ta \leq +60 °C IP67)



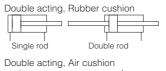
Series C85 ISO 6432

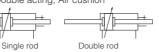
ISO Standard [ISO 6432]. Round Crimped Body Cylinder Standard / Non-rotating Type

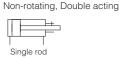
Double/Single Acting, Single/Double Rod Series C85

Ø 8, Ø 10, Ø 12, Ø 16, Ø 20, Ø 25

- Special rod seal gives high resistant to dusty environments
- Strokes up to 1000 mm
- High speed actuation, up to 1500 mm/s
- ATEX compliant version for explosive atmospheres

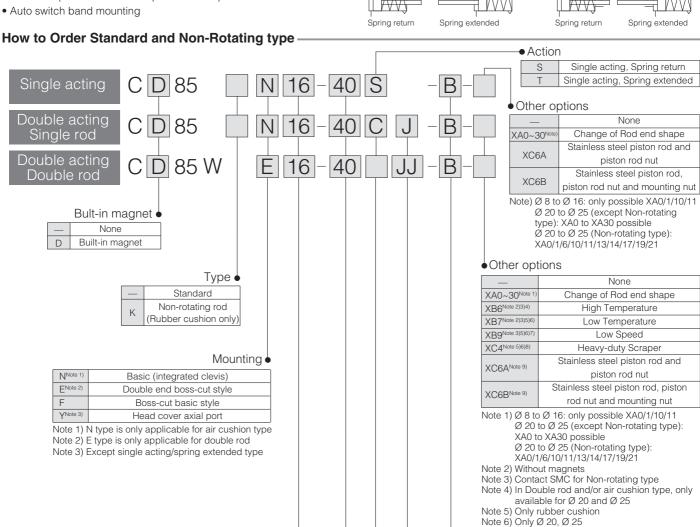












◆Bore size Stroke Stroke Double acting Single acting Bore size Max. stroke [mm] Standard stroke Max. stroke [mm] Standard stroke [mm]N Standard Non-rotating Double rod [mm] [mm]Note: 8^{Note 1} 200 10, 25, 40, 50, 80, 100 100 100 10 10, 25, 40, 50 12 10, 25, 40, 50, 80, 100, 200 200 16 125, 160, 200 10, 25, 40, 50, 80, 10, 25, 40, 50, 80, 100, 150 20

1000

500

25 125, 160, 200, 250, 300 Note 1) Not available with air cushion

Note 2) Other strokes available on request

Note 3) When exceeding the standard stroke range, it will be available as made to order (X2018)



Note 8) Not applicable for Non-rotating type Note 9) In air cushion type, only Ø 10, 12 and 16

_	Without auto switch
В	Band mounting

◆Rod boot (only Ø 20, Ø 25)

_	Without rod boot
J	Nylon tarpaulin (one side)
K	Heat resistant tarpaulin (one side)
JJ ^{Note)}	Nylon tarpaulin (both sides)
KK ^{Note)}	Heat resistant tarpaulin (both sides)

Note) In case of double acting/double rod



Note 7) Only single rod

possible

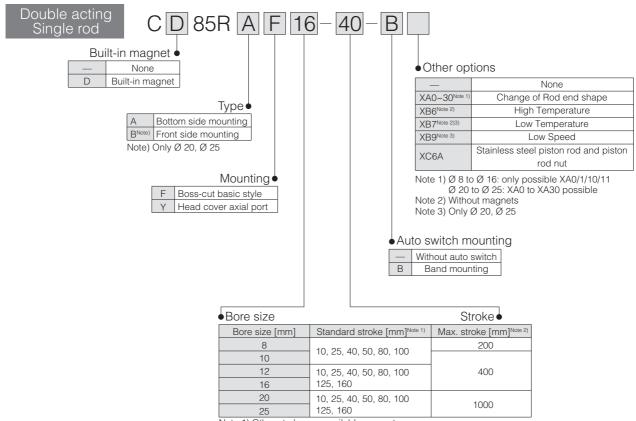
_	Rubber cushion (Standard)						
	Air cushion (Only "N" execution,						
	bores 10 to 25 mm)						



100, 125, 150



How to Order Direct Mount Type-



Note 1) Other strokes on available request

Note 2) For exceeding the standard stroke range, it will be available as a special order (X2018)

Specifications -

Standard / No	n-rotating	type							
Bore size	8	10	12	16	20	25			
Action		[Double/Sir	gle Acting	g, Single/D	ouble Roc	d		
Fluid				А	ir				
Proof pressure				1.5	MPa				
Max. operating	pressure			1.0	MPa				
Double Acting	Spring return	0.4.MD	0.00	MD	0.05 MD	0.05 MPa			
Min. operating pressure	Spring extended	0.1 MPa	0.08	MPa	0.05 MPa	0.08 MPa			
Single Acting Min. operating	Spring return	0.22 MPa	0.18 MPa		0.13 MPa	0.18 MPa			
pressure	Spring extended	U.ZZ IVII a			U. IS IVII a	0.23 MPa			
Ambient and fl temperature	uid	-20 to 80 °C (Built-in magnet: -10 to 60 °C) No freezing							
Cushion		Rubber cushion, Air cushion (Only "N" execution, bores 10 to 25 mm), (Non-rotating and Single Acting: Rubber cushion only)							
Lubrication		Not required. Use turbine oil Class 1 ISO VG32, if lubricated							
Piston speed				50 to 15	00 mm/s				
Allowable	Rubber cushion	0.02 J	0.03 J	0.04 J	0.09 J	0.27J	0.4 J		
kinetic energy	Air cushion	_	0.17 J	0.19 J	0.4 J	0.64 J	0.93 J		
Non-rotating ac	ccuracy ±1°30′ ±1°30′ ±1° ±1° ±0°42′ ±0°42′				±0° 42'				

Direct mount type

Bore size [mm]	8	10	12	16	20	25		
Action	Double Acting, Single Rod							
Fluid			Air					
Proof pressure			1.5 M	Pa				
Max. operating pressure		1.0 MPa						
Min operating pressure	0.1 MPa 0.08 MPa			0.05 MPa				
Ambient and fluid temperature	-20	-20 to 80 °C (Built-in magnet: −10 to 60 °C)						
Cushion		Rubb	er bumpe	r (Standa	rd)			
Lubrication	Not requ	Not required. If necessary, turbine oil no. 1 ISO VG32 is recommended						
Piston speed	50 to 1500 mm/s							
Allowable kinetic energy	0.02 J	0.03 J	0.04 J	0.09 J	0.27J	0.4 J		



Availability: Stocked items for fast delivery & Manufacturing (European and Local) -

Stocked items for fast delivery

	•	
Part Number (Without auto switch)	Part Number (With auto switch)	Stroke (□)
C85N8-□	CD85N8-□-B	10, 25, 40, 50, 80, 100
C85N8-□*	CD85N8-□*-B	10, 25, 50
C85N10-□	CD85N10-□-B	10, 25, 40, 50, 80, 100
C85N10-□C	CD85N10-□C-B	10, 25, 40, 50, 80
C85N10-□*	CD85N10-□*-B	10, 25, 50
C85N12-□	CD85N12-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200
C85N12-□C	CD85N12-□C-B	10, 25, 40, 50, 80, 100, 125, 160, 200
C85N12-□*	CD85N12-□*-B	10, 25, 50
C85N16-□	CD85N16-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200
C85N16-□C	CD85N16-□C-B	10, 25, 40, 50, 80, 100, 125, 160, 200
C85N16-□*	CD85N16-□*-B	10, 25, 50
C85N20-□	CD85N20-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300
C85N20-□C	CD85N20-□C-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300
C85N20-□*	CD85N20-□*-B	10, 25, 50, 100
C85N25-□	CD85N25-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300
C85N25-□C	CD85N25-□C-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300
C85N25-□*	CD85N25-□*-B	10, 25, 50
	CD85WE16-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200
	CD85WE20-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300
	CD85WE25-□-B	10, 25, 40, 50, 80, 100, 125, 160, 200, 250, 300

Stocked items could be subject to change without prior notice

- *: Action S: Single action, spring return
 - T: Single action, spring extend

European Manufacturing

3 days Production:

• Intermediate strokes

5 days Production:

- Longer than standard strokes X2018
- Non Rotating cylinder
- Double rod cylinder
- ATEX compliant version
- Change of rod end shape XA0~30
- Heat resistant cylinder (-10 ~ 150 °C) XB6
 Cold resistant cylinder (-40 ~ 70 °C) XB7
- Low speed cylinder XB9
- Stainless steel piston rod and piston rod nut XC6A
- Stainless steel piston rod, piston rod nut and mounting nut - XC6B

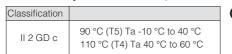
Local Manufacturing

(from 1 to 6 days Production): Customised C85

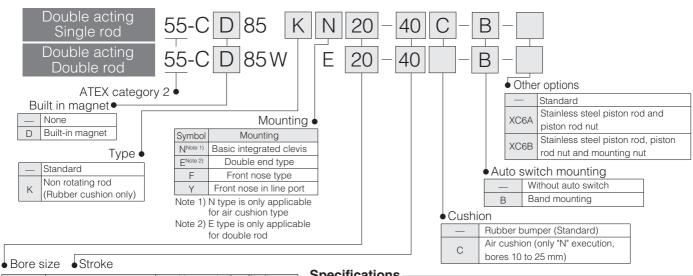
For emergency orders or other delivery dates, please consult with SMC

For orders up to 10 pcs, delivery dates are a guideline

ATEX compliant version (ATEX directive category 2) -



How to Order



Max. stroke [mm]Note 3 Bore size

[mm]	Standard Stroke [mm]*****	Standard	Non-rotating	Double rod	
8 ^{Note 1)}	10 05 40 50 00 100	200	100	100	
10	10, 25, 40, 50, 80, 100	400	100	100	
12	10, 25, 40, 50, 80, 100,	400	200	200	
16	125, 160, 200		200	200	
20	10, 25, 40, 50, 80, 100,	1000	1000	500	
25	125, 160, 200, 250, 300	1000	1000	300	

Note 1) Not available with air cushion

Note 2) Other strokes available on request

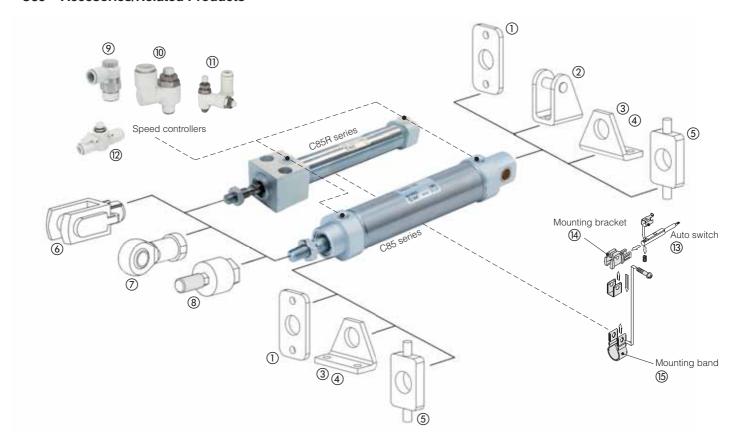
Note 3) For exceeding the standard stroke range, it will be available as made to order (X2018)

Specifications —						
Bore size [mm]	8	10	12	16	20	25
Action	Double acting					
Fluid			А	ir		
Proof pressure			1.5 [MPa		
Max. operating pressure			1.0 [MPa		
Min. operating pressure	0.1 MPa	0.08	MPa		0.05 MPa	
Ambient and fluid temperature	-10 to 60 °C (no freezing)					
Cushion	Rubber bumper, Air cushion (Except for Ø 8)					
Lubrication	Not required (Non lube)					
Piston speed	50 to 750 mm/s Rubber bumper, 50 to 1000 mm/s Air cushion					
Non-rotating accuracy	±1° 30′	±1° 30′	±1°	±1°	±0° 42'	±0° 42'





C85 - Accesories/Related Products



	1	2	3	4	(5)	6	7	8
Bore size [mm]	Front/Rear Flange	Clevis	Foot (1pc)	Foot (2 pcs ^{Note)})	Front/Rear Trunnion	Rod clevis (ISO8140) (Supplied with bolt and safety device)	ball joint (ISO8139)	Floating joint
8	C85F10	C85C10	C85L10A	C85L10B	C85T10	GKM4-8	KJ4D	JA10-4-070
10								
12	C85F16	C85C16	C85L16A	C85L16B	C85T16	GKM6-10	KJ6D	JA15-6-100
16	0001 10	000010	COOLTON	COOLIOD	000110	GINIVIO-10	INJUD	0A10-0-100
20	C85F25	C85C25	C85L25A	C85L25B	C85T25	GKM8-16	KJ8D	JA20-8-125
25	0001 20	000020	COULZUA	COOLZOD	000120	GKM10-20	KJ10D	JA30-10-125

1		9	10	(11)
Bore ø tube		Speed controller elbow type	Speed controller universal type	Dual speed controller
[mm]		Part number	Part number	Part number
8, 10	3.2	AS1201F-M5-23A	AS1301F-M5-23	_
12, 16	4	AS1201F-M5-04A	AS1301F-M5-04	ASD230F-M5-04
12, 10	6	AS1201F-M5-06A	AS1301F-M5-06	ASD230F-M5-06
	3.2	AS2201F-01-23A	AS2301F-01-23	_
	4	AS2201F-01-04SA	AS2301F-01-04S	_
20, 25	6	AS2201F-01-06SA	AS2301F-01-06S	ASD330F-01-06S
	8	AS2201F-01-08SA	AS2301F-01-08S	ASD330F-01-08S
	10	AS2201F-01-10SA	_	_

Note) 2 pcs with mounting nut 1 pc

-		12
Bore size	Ø	Speed controller
[mm]	tube	in-line type
[111111]		Part number
8, 10	3.2	AS1002F-23
12, 16	4	AS1002F-04
	6	AS1002F-06
	3.2	AS1002F-23
20	4	AS2002F-04
20	6	AS2052F-06
	8	AS2052F-08
	4	AS2002F-04
25	6	AS2052F-06
	8	AS2052F-08

(3)				
	Auto switch			
Solid state ty	/pe - 2 colour ir	ndication		
Part No.	Wiring	Cable		
D-M9BWL	2 wire	3 m		
D-M9PWL	3 wire PNP	3 m		
D-M9PWSAPC	M8-3pin PNP	0.5 m		
For ATEX Note	e 2)			
D-M9BWL-588	2 wire	3 m		
D-M9PWL-588	3 wire PNP	3 m		
D-M9PWSAPC-588	M8-3pin PNP	0.5 m		

Reed type Note 1)				
Part No.	Wiring	Cable		
D-A93L	2 wire	3 m		
D-A93SAPC	M8-3pin	0.5 m		
For ATEX Note 2)				

I OI / II L/I				
D-A93L-588	2 wire	3 m		
D-A93SAPC-588	M8-3pin	0.5 m		

14)	(15)
Mounting bracket	Mounting Band
	BJ2-008
	BJ2-010
BJ3-1	BJ2-012
D03-1	BJ2-016
	BM2-020
	BM2-025

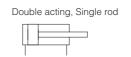
Note 1) D-A93 type cannot be mounted on bore sizes \emptyset 8, \emptyset 10 and \emptyset 12 Note 2) When mounting an auto switch on a 55-series (Category 2) model, the ATEX class of the cylinder with auto switch changes to Category 3, which is the same class as the auto switch. Auto switch only conforms to Category 3. (II 3GD EEx nA II T5x -10 °C \leq Ta \leq +60 °C IP67)

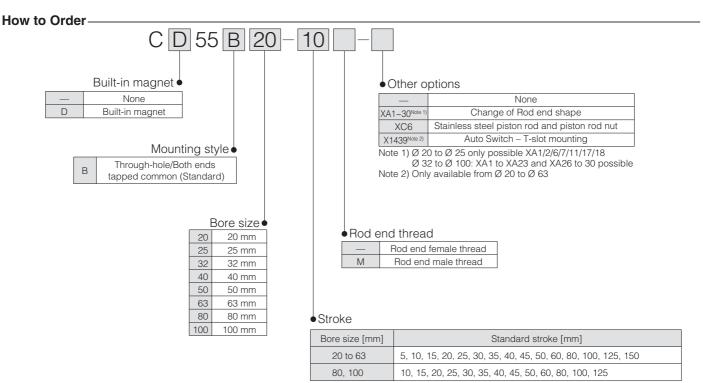


Series C55 ISO 21287

ISO Standard [ISO 21287]. Compact Cylinder Standard type Double Acting, Single Rod Series C55 Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

- Strokes up to 150 mm
- Operating piston speed up to 500 mm/s
- ATEX compliant version for explosive atmospheres
- Possible to mount directly round D-M9□ auto switches on the 4 surfaces
- Tapped body with through holes for easy mounting
- Female and male rod threads available





Note) Intermediate strokes by using an exclusive body are available. Order example: C55B32-47

Specifications

Туре		Pneumatic (Non-lube)
Action		Double acting, Single rod
Fluid		Air
Proof pressure		1.5 MPa
Maximum operating pr	ressure	1.0 MPa
Minimum operating pro	accura	0.05 MPa (Ø 20 to Ø 63)
I will ill fluin operating pro	essure	0.03 MPa (Ø 80, Ø 100)
	Without	-10 to 70 °C ^{Note)}
Ambient and fluid	auto switch	(No freezing)
temperature	With auto	-10 to 60 °C
	switch	(No freezing)
Cushion		Rubber bumper on both end
Distantance d	Ø 20 to Ø 63	50 to 500 mm/s
Piston speed	Ø 80, Ø 100	50 to 300 mm/s

Note) ATEX version: -10 to 60 °C (No freezing)





Availability: Stocked items for fast delivery & Manufacturing (European and Local) -

Stocked items for fast delivery

Part Number	Stroke (□)
C*55B20-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B20-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B25-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B25-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B32-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B32-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B40-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B40-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B50-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B50-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B63-□	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B63-□M	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125, 150
C*55B80-□	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125
C*55B80-□M	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125
C*55B100-□	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125
C*55B100-□M	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 80, 100, 125

Stocked items could be subject to change without prior notice

D: with

European Manufacturing

5 days Production:ATEX compliant version

- Auto switch T-slot mounting -X1439
- Change of rod end shape -XA1~30
- Stainless steel piston rod and piston rod nut -XC6

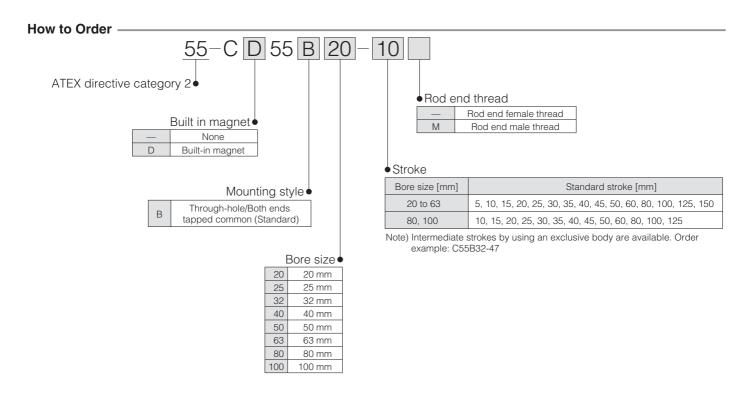
Local Manufacturing

(from 1 to 6 days Production): Customised C55

For emergency orders or other delivery dates, please consult with SMC For orders up to 10 pcs, delivery dates are a guideline

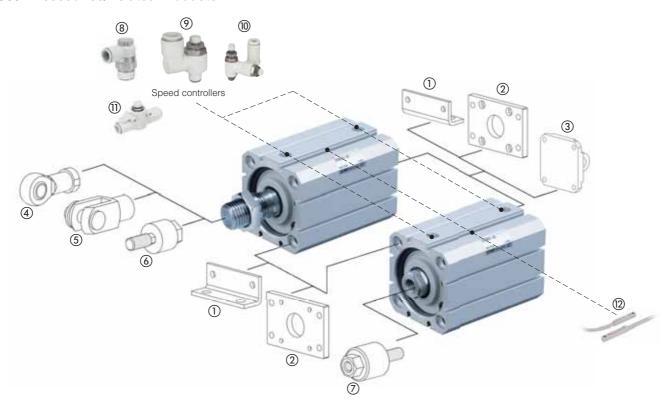
ATEX compliant version (ATEX directive category 2) -

Classification		(€	3
II 2 GD c	85 °C (T5) Ta -10 °C to 40 °C 105 °C (T4) Ta 40 °C to 60 °C		



^{*} Auto switch -: without

C55 - Accesories/Related Products



	1	2	3	4	(5)	6	7
Bore size [mm]	Foot (Supplied with 2 pieces and 4 screws)	Flange (Supplied with 4 screws)	Single clevis (Supplied with 4 screws)	Piston rod ball joint (ISO8139)	Rod clevis (ISO8140) (Supplied with bolt and safety device)	Floating joint for male thread	Floating joint for female thread
20	C55-L020	C55-F020	C55-C020	KJ8D	GKM8-16	JA20-8-125	JB25-6-100
25	C55-L025	C55-F025	C55-C025	KJ8D	GKM8-16	JA20-8-125	JB25-6-100
32	C55-L032	C55-F032	C55-C032	KJ10D	GKM10-20	JA30-10-125	JB40-8-125
40	C55-L040	C55-F040	C55-C040	KJ10D	GKM10-20	JA30-10-125	JB40-8-125
50	C55-L050	C55-F050	C55-C050	KJ12D	GKM12-24	JA40-12-125	JB63-10-150
63	C55-L063	C55-F063	C55-C063	KJ12D	GKM12-24	JA40-12-125	JB63-10-150
80	C55-L080	C55-F080	C55-C080	KJ16D	GKM16-32	JA50-16-150	-
100	C55-L100	C55-F100	C55-C100	KJ16D	GKM16-32	JA50-16-150	-

			1		1		
D	(8)		(9)		(10)		
Bore size	Speed controller		Speed controller		Dual speed		
[mm]		elbow type		universal type		controller	
[11111]	Ø tube	Part number	Ø tube	Part number	Ø tube	Part number	
	3.2	AS1201F-M5-23A	3.2	AS1301F-M5-23	3.2	-	
20, 25	4	AS1201F-M5-04A	4	AS1301F-M5-04	4	ASD230F-M5-04	
	6	AS1201F-M5-06A	6	AS1301F-M5-06	6	ASD230F-M5-06	
	3.2	AS2201F-01-23A	3.2	AS2301F-01-23	3.2	-	
	4	AS2201F-01-04SA	4	AS2301F-01-04S	4	-	
32, 40	6	AS2201F-01-06SA	6	AS2301F-01-06S	6	ASD330F-01-06S	
	8	AS2201F-01-08SA	8	AS2301F-01-08S	8	ASD330F-01-08S	
	10	AS2201F-01-10SA	10		10		
50, 63 80, 100	-	-	-	-	-	-	

_		111
Bore	Sp	peed controller in-line type
[mm]	Ø tube	Part number
	3.2	AS1002F-23
20	4	AS2002F-04
20	6	AS2052F-06
	8	AS2052F-08
25, 32	4	AS2002F-04
	6	AS2052F-06
	8	AS2052F-08
40, 50	6	AS3002F-06
	8	AS3002F-08
	10	AS3002F-10
	12	AS3002F-12
	6	AS3002F-06
	8	AS3002F-08
63	10	AS4002F-10
	12	AS4002F-12
80. 100	10	AS4002F-10
00, 100	12	AS4002F-12

1		12						
		Auto switch						
4	Solid state type - 2 colour indicatio							
	Part No.	Wiring	Cable					
1	D-M9BWL	2 wire	3 m					
1	D-M9PWL	3 wire PNP	3 m					
1	D-M9PWSAPC	M8-3pin PNP	0.5 m					
1	For ATEX Note)							
1	D-M9BWL-588	2 wire	3 m					
1	D-M9PWL-588	3 wire PNP	3 m					
1	D-M9PWSAPC-588	M8-3pin PNP	0.5 m					
1								

Reed type					
Wiring	Cable				
2 wire	3 m				
M8-3pin	0.5 m				
For ATEX Note)					
2 wire	3 m				
M8-3pin	0.5 m				
	Wiring 2 wire M8-3pin 2 wire				

Note) When mounting an auto switch on a 55-series (Category 2) model, the ATEX class of the cylinder with auto switch changes to Category 3, which is the same class as the auto switch. Auto switch only conforms to Category 3. (II 3GD EEx nA II T5x -10 °C ≤ Ta ≤ +60 °C IP67)



More Related Products

More Related Products

Series KQ2 - Fittings

 Easy and quick assembly with less labour costs and high flexibility



Series GUM/GUL - Guide Units

 External guides for cylinders with bores from 12 to 100



Series SY - 5 Port Solenoid Valves

- Unique all-purpose solenoid valve
- Up to 125 bore cylinders
- Outsanding flow while compact
- Plug-in metal base type available



Series AR - Regulator

 Port sizes from M5 to 1" and set pressure range from 0.05 to 0.85 MPa



Series TU - Tubing

Good flexibility and available in 29 different colours



Series VBA - Booster Regulator

Increase factory air pressure by up to 4 times



Series VFS - 5 Port Solenoid Valves

- For big bore cylinders
- Up to 300 bore cylinders



Series IR - Precision Regulator

 For instrumentation applications with a selectable pressure range from 0.005 to 0.8 MPa



Series RB - Shock Absorbers

 Wide range and automatic adjustment to the most appropriate absorption performance



Series AV - Soft Start-up Valve

 Gradually increases supply pressure during start up and rapidly exhausts air when the supply air is shut off



Series SY/SYJ - 3 Port Solenoid Valves

- Suitable to operate single acting cylinders
- High flow with low power consumption



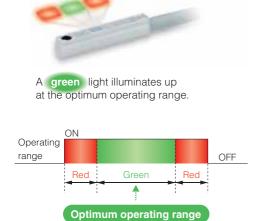
Series ITV - Electro-Pneumatic Regulator

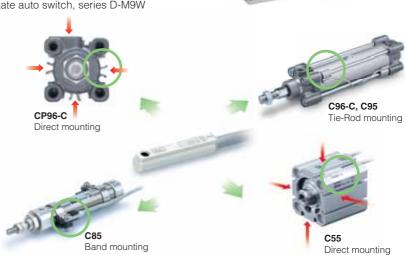
 Stepless control of air pressure proportional to an electrical signal with set pressure range from 0.005 to 0.9 MPa



Small auto switch mountable on all types

Perfect for use with our easy to set 2-colour indication solid state auto switch, series D-M9W





Other non-ISO cylinders

Other non-ISO cylinders that may suit your needs

Series CG1-Z Round cylinder



The Most Flexible Round Cylinder

When you need a round cylinder with many options...

- Shorter and cleaner than equivalent tie-rod cylinder
- Female and male rod end thread
- Grease for food processing equipment
- PTFE grease
- Non-rotating Rod
- Direct mount
- Direct mount / Non-rotating Rod
- Low friction
- With end lock
- With one-touch fittings
- Air-hydro type
- Clean series
- Copper free
- Water resistant

Bores: Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

Standard strokes: from 25 to 300 mm (Maximum stroke up to 1500 mm)

Series CG3 Round cylinder. Short type



The Most Compact Round Cylinder -

If space, weight or cleanliness is a challenge...

- Space saving
- Light weight
- Clean profile
- Female and male rod end thread

Bores: Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

Standard strokes: from 25 to 300 mm

Series CG5-S Stainless Steel Round cylinder



The Cleanest Round Cylinder -

For use in environments with water splashing such as food processing machines...

- Special scraper as standard prevents water from entering the cylinder
- All external parts (including mounts) are made from Stainless Steel (SUS304)
- Two types of seal material NBR or FKM can be selected
- Extended service life as it can be disassembled for replacement of seals

Bores: Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100

Standard strokes: from 25 to 300 mm (Maximum stroke up to 1500 mm)



Series CQ2-Z Compact cylinder



The Most Flexible Compact Cylinder -

If you need the special to be standard...

- Female and male rod end thread
- Non-rotating Rod
- Axial Piping
- Anti-lateral Load
- With end lock
- Water Resistant
- Smooth Cylinder
- Low-speed
- Heat resistant cylinder (-10~150 °C)
- Cold resistant cylinder (-40~70 °C)
- With heavy duty scraper
- Piston rod, rod end nut made of SUS

- With coil scraper
- Fluoro rubber for seals
- Dual stroke cylinder / Double rod type
- Dual stroke cylinder / Single rod type
- Change of rod end shape
- With boss in rod side
- With concave boss on head end
- Special port location
- With one-touch fittings
- Air-hydro type
- Clean series
- Copper and fluorine-free series

Bores: Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100, Ø 125, Ø 140, Ø 160, Ø 180, Ø 200

Standard strokes: from 5 to 300 mm

Series CQU Compact cylinder. Plate type



The Thinnest Compact Cylinder -

When you have tried everything and nothing else fit in that small space...

- Light and compact
- Allows smaller mounting pitch
- Female and male rod end thread

Bores: Ø 20, Ø 25, Ø 32, Ø 40 Standard strokes: from 5 to 100 mm

Series MGP-Z Compact Guide Cylinder



The Most Flexible and Compact Guide Cylinder-

If you need the robustness of a guide cylinder...

- Slide bearing type
- Ball bushing type
- High precision ball bushing type
- Wide type (for transferring large work pieces)
- Copper and fluorine-free series
- Change of guide rod end shape
- Low-speed
- Machining tapped hole, drilled hole and pin hole additionally
- Bottom mounting style
- Symmetrical port position
- Lateral piping type
- Heat resistant cylinder (-10~150 °C)

- Fluoro rubber for seals
- With air cushion
- With end lock
- Heavy duty guide rod
- With lock
- Clean series
- Water Resistant
- With shock absorber
- With heavy duty scraper
- With parts made of SUS
- Extension/retraction adjustable type
- With coil scraper
- Dust proof type
- With felt

Bores: Ø 12, Ø 16, Ø 20, Ø 25, Ø 32, Ø 40, Ø 50, Ø 63, Ø 80, Ø 100 Standard strokes: from 10 to 400 mm



For more information about the ISO cylinders

- Digital catalogue: www.smc.eu
 - Select the product you need
 - Validate the part number
 - Get the required information
 - PDF documentation
 - · 3D CAD
 - · Technical information
 - Stock information



- Cylinder Configurator: www.smc.eu
 - Download the Cylinder Configurator
 - Install it or execute it
 - Select the cylinder series
 - Configure the cylinder and accesories
 - Contact SMC







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