-XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: Š45C)



Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)
 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC88

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

With coil scraper and grease for welding

Applicable Series

Series	Description	Model	Action	XC88	XC89	XC91	Note	Vol. no. (for std model)
МВ	Air cylinder	MB-Z	Double acting, Single rod	•	•	•	ø32-ø100 only	
CA2	Air cylinder	CA2-Z	Double acting, Single rod	•	•	•		
Compact cylinder CQ2-Z Double acting, Single rod		•	•	•		1		
CQ2	Long stroke	CQ2-Z	Double acting, Single rod	•	•	_		
	Anti-lateral load	CQ2□S-Z	Double acting, Single rod	•	•	_		
	Compact guide cylinder	MGPM-Z	Double acting	•	-*	•		Wah Catalan
MGP		MGPL-Z	Double acting	_	_	•	ø32-ø100 only	Web Catalog
		MGPA-Z	Double acting	_	_	•		
MK2T	Rotary clamp cylinder	MK2T	Double acting	_	•	•	ø32-ø63 only	
		CKG1-Z1	Double acting, Single rod	•	•	•		
CKG1	Clamp cylinder	CKG1-Z	Double acting, Single rod	•	•	•		
		CKGA	Double acting, Single rod	•	•	•	ø80 and ø100 only	

Common Specifications: MB, CA2, CQ2, MK2T, CKG1

Part no.		d material me plating)	Coil scraper	Lube-retainer	Grease for welding	
	S45C	Stainless steel 304	scraper		for welding	
-XC88	_	•	•	•	•	
-XC89	•	-	•	•	•	
-XC91	•	_	•	_	•	

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

Specifications: MGP

Part no.		de rod material me plating)	Coil scraper		Lube-retainer		Grease for
raitiio.	S45C	Stainless steel 304	Rod side	Head side	Rod side	Head side	welding
-XC88	_	•	•	_	•	_	•
-XC91	•	_	•	_	•	_	•
-XC88W	_	•	•	•	•	•	•
-XC89W	•	_	•	•	•	•	•
-XC91W	•	_	•	•	•	_	•

^{*} There is no "-XC89" part number suffix as the specifications are the same as those of the "-XC91."



-XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: \$45C)



MB-XC88/XC89/XC91

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

63 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C) -XC89

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

Symbol

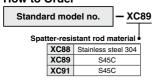
-XC88

With coil scraper and grease for welding

Applicable Series

Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)
MB	Air cylinder	MB-Z	Double acting, Single rod	•	•	•	Web Catalog

How to Order



Made to Order

Part	Piston rod material (Hard chrome plated		Coil	Lube-	Grease	
no.	S45C	Stainless steel 304	scraper	retainer	for welding	
-XC88	_	•	•	•	•	
-XC89	•	_	•	•	•	
-XC91	•	_	•	_	•	

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

Specifications

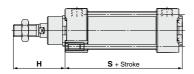
Bore size	ø32, ø40, ø50, ø63, ø80, ø100
Port thread type	Rc
Max. manufacturable stroke	See right side.
Rod boot	None
Cushion	Air cushion
Dimensions	See below.
Additional specifications	Same as standard type

Max. manufacturable stroke

Bore size (mm)	Max. manufacturable stroke
32	1000
40	1000
50	1000
63	1000
80	1000
100	1000

Manufacture of intermediate strokes is possible.(Spacers are not used.) Produced upon receipt of order.

Dimensions (Other dimensions are the same as the standard type.)



						(mm)	
Bore size	XC8	8, 89	XC	91	XC	XC35	
(mm)	Н	S	Н	S	Н	S	
32	50	88	47	88	47	88	
40	61	88	58	88	58	88	
50	67	98	67	98	67	98	
63	67	98	67	98	67	98	
80	82	118	81	118	81	118	
100	82	118	81	118	81	118	

* At 0 stroke





-XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod; S45C)

-XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: \$45C)



CA2-XC88/XC89/XC91

Symbol

52 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

-XC89

-XC91

54 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)
With coil scraper and grease for welding

Applicable Series

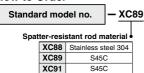
Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)
CA2	Air cylinder	CA2-Z	Double acting, Single rod	•	•	•	Web Catalog

Made to Order

Part			d material me plated)		Lube- retainer	Grease
no.	S45C	Stainless steel 304	for welding			
-XC8	8	_	•	•	•	•
-XC8	9	•	_	•	•	•
-XC9	1	•	_	•	_	•

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

How to Order



Specifications

Bore size	ø40, ø50, ø63, ø80, ø100
Tubing material	Aluminum tube
Port thread type	Rc
Max. manufacturable stroke	See right side.
Rod boot	None
Cushion	Air cushion
Dimensions	See below.
Additional specifications	Same as standard type

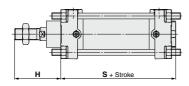
Max. manufacturable stroke

(mm)

Bore size	Max. manufacturable strokeNote 1)
40	1000
50, 63	1000
80, 100	1000

Note 1) For details about applicable maximum stroke, refer to the model selection table on the **Web Catalog**.

Dimensions (Other dimensions are the same as the standard type.)



						(mm)
Bore size	XC8	8, 89	XC	91	XC	35
(mm)	Н	S	Н	S	Н	S
40	56	95	51	95	51	95
50	60	101	58	101	58	101
63	60	112	58	112	58	112
80	73	133	71	133	71	133
100	74	143	72	143	72	143

^{*} At 0 stroke



- -XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)
- -XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)
- -XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: \$45C)



CQ2-XC88/XC89/XC91

Symbol

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC89

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

-XC91

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

With coil scraper and grease for welding

■ CDQ2 series Standard

■ CDQ2 series Long Stroke

■ CDQ2 S series Anti-lateral Load

Applicable Series

Series	Description	Model	Action	Note	XC88	XC89	XC91
	Compact cylinder	CQ2-Z	Double acting, Single rod	With auto	•	•	•
CQ2	Long stroke	CQ2-Z	Double acting, Single rod	switch magnet	•	•	_
	Anti-lateral load	CQ2□S-Z	Double acting, Single rod	only	•	•	_

How to Order



XC91

nt rod material				
ainless steel 304				
S45C				
SAEC				

Made to Order

Part		d material me plated)	Coil	Lube-	Grease	
no.	S45C	Stainless steel 304	scraper	retainer	welding	
-XC88	_	•	•	•	•	
-XC89	•	_	•	•	•	
-XC91	•	_	•	_	•	

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

Standard

Specifications

Bore size	ø32, ø40, ø50, ø63, ø80, ø100		
Mounting brackets	Excludes the compact foot bracket		
Туре	Pneumatic		
Mounting bolt for the through-hole type	Not included		
Dimensions	See below.		
Additional specifications	Same as standard type		

Long stroke

Specifications

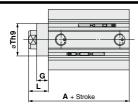
-p					
Mounting brackets	Excludes the compact foot bracket				
Туре	Pneumatic				
Cushion	Rubber bumper				
Dimensions	See below.				
Additional specifications	Same as standard type				

Anti-lateral load

Specifications

Mounting brackets	Excludes the compact foot bracke			
Dimensions	See below.			
Additional specifications	Same as standard type			

Dimensions (Other dimensions are the same as the standard type.)



										(mm)
			XC88	8, 89			XC91			
Bore size		Α								
(mm)	Standard	Long stroke	Anti-lateral load	G	L	Th9	A	G	L	Th9
32	50	67.5	60	10	17	23 - 0.052	45	5	12	23 - 0.052
40	56.5	77	66.5	10	17	28 _ 0.052	51.5	5	12	28 _ 0.052
50	58.5	78.5	68.5	10	18	35 _ 0.062	53.5	5	13	35 _ 0.062
63	64	80	74	10	18	35 - 0.062	59	5	13	35 - 0.062
80	73.5	91	83.5	10	20	43 _ 0.062	68.5	5	15	43 _ 0.062
100	85	102.5	95	10	22	59_0.074	80	5	17	59 _ 0.074

-XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod; Stainless steel 304)

-XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: \$45C)



MGP-XC88(W)/XC89W/XC91(W)

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC89

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

With coil scraper and grease for welding

Applicable Series

Series	Description	Model	Action	XC88(W)	XC89	XC91(W)	Note	Vol. no. (for std model)
		MGPM-Z		•	-*	•		
MGP	Compact guide cylinder	MGPL-Z	Double acting	_	_	•	ø32 to ø100 only	Web Catalog
		MGPA-Z		_	_	•		

Made to Order

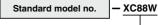
made to Graci							
Part no.	Piston rod/ Guide rod material (Hard chrome plating)		Coil scraper		Lube-r	Grease for	
	S45C	Stainless steel 304	Rod side	Head side	Rod side	Head side	welding
-XC88	_	•	•	_	•	_	•
-XC91	•	_	•	_	•	_	•
-XC88W	_	•	•	•	•	•	•
-XC89W	•	_	•	•	•	•	•
-XC91W	•	_	•	•	•	_	•

^{*} There is no "-XC89" part number suffix as the specifications are the same as those of the "-XC91."

Specifications

Bore size		ø32, ø40, ø50, ø63, ø80, ø100		
Max. operating	XC88, XC91	0.12 MPa		
pressure	XC88W, XC89W, XC91W	0.14 MPa		
Dimensio	ns	See below.		
Additional specifications		Same as standard type		

How to Order



Spatter-resistant rod material

Symbol	Scraper mounting position	Rod material		
XC88	Single side scraper	Stainless steel 304		
XC91	Single side scraper	S45C		
XC88W		Stainless steel 304		
XC89W	Both sides scraper	S45C		
XC91W		S45C		

Single side scraper

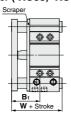
Both sides scraper





Dimensions (Other dimensions are the same as the standard type.)

Single side scraper (-XC88, -XC91)

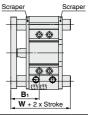


						(111111)
Bore size	XC	XC88		291	XC35	
(mm)	B ₁	W Note 1)	B ₁	W Note 1)	B ₁	W Note 1)
32	53	85	53	85	53	85
40	54	85	54	85	54	85
50	62	98.5	62	98.5	62	98.5
63	62	98.5	62	98.5	62	98.5
80	78	114.5	78	114.5	78	114.5
100	71	136.5	71	136.5	71	136.5

At 0 stroke

Note 1) W dimensions are for 50 stroke or less.

Both sides scraper (-XC88W, -XC89W, -XC91W)



Bore size	XC88W XC89W		XC	91W	XC35W	
(mm)	B ₁	W	B ₁	W	B ₁	W
32	53	82.5	53	82.5	53	82.5
40	54	89	54	89	54	89
50	62	95	62	95	62	95
63	62	100	62	100	62	100
80	78	120.5	78	120.5	78	120.5
100	71	143	71	143	71	143

* At 0 stroke



-XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: Š45C)



MK2T-XC89/XC91

Symbol -XC89

63 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

With coil scraper and grease for welding

Applicable Series

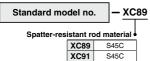
Series	Description	Model	Action	XC89	XC91	Vol. no. (for std model)
МК2Т	Rotary clamp cylinder	MK2T	Double acting	•	•	Web Catalog

Made to Order

Part no.	Piston rod material (Hard chrome plated)	Coil scraper	Lube- retainer	Grease for welding
-XC89	•	•	•	•
-XC91	•	•	_	•

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

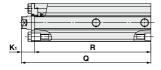
How to Order



Specifications

Bore size	ø32, ø40, ø50, ø63
Dimensions	See below.
Additional specifications	Same as standard type

Dimensions (Other dimensions are the same as the standard type.)



Clamp stroke: 10 mm

Bore size	XC89			XC91		
Dore Size	Q	R	K 1	Q	R	K 1
32	156	140	16	148	140	8
40	160.5	144	16.5	151.5	144	7.5
50	_	_	_	_	_	_
63	_	_	_	_	_	_

Clamp stroke: 20 mm

(mm)

(mm)

Dava sina	XC89			XC91		
Bore size	Q	R	K 1	Q	R	K 1
32	176	160	16	168	160	8
40	180.5	164	16.5	171.5	164	7.5
50	202.5	179	23.5	191	179	12
63	205	182	23	192	182	10

Clamp stroke: 50 mm

(mm)

					()		
Bore size		XC89			XC91		
Dore Size	Q	R	K 1	Q	R	K 1	
32	_	_	_	_	_	_	
40	_	_	_	_	_	_	
50	266	242.5	23.5	254.5	242.5	12	
63	269	246	23	256	246	10	





- -XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)
- -XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)
- -XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)



CKG1-XC88/XC89/XC91

Symbol

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

-XC89

neduces spatter adresion and improves durability by the use of the coll scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

With coil scraper and grease for welding

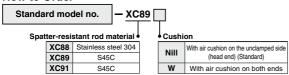
CKG1 series (Magnetic Field Resistant Auto Switch Rod Mounting Type

■ CKG1 series General Purpose Auto Switch Band Mounting/Rod Mounting

Applicable Series

Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)
CKG1	Clamp cylinder	CKG1-Z1	Double acting, Single rod	•	•	•	Web Catalog
CKGI	Clamp Cylinder	CKG1-Z	Double acting. Single rod	•	•	•	Web Catalog

How to Order



Note) The dimensions of the product with the air cushion on both ends are the same as those of the product with the air cushion on the unclamped side (head end).

Made to Order

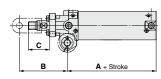
Part	Piston ro (Hard chro	me plated) Coil		Lube-	Grease	
no.	S45C	Stainless steel 304	scraper	retainer	tor welding	
-XC88	_	•	•	•	•	
-XC89	•	_	•	•	•	
-XC91	•	_	•	_	•	

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

Specifications/CKG1-Z, CKG1-Z1 common

Bore size	ø40, ø50, ø63
End bracket	I, IA, Y, YA
Option	Mounting brackets "B," "D," "L," and "K" are not available.
Dimensions	See below.
Additional specifications	Same as standard type

Dimensions/CKG1-Z, CKG1-Z1 common (Other dimensions are the same as the standard type.)



						(mm)
Bore size	XC88, 89			XC91		
(mm)	Α	В	С	Α	В	С
40	78	97	43	78	97	52
50	78	97	43	78	97	52
63	78	97	43	78	97	52

* At 0 stroke

- -XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)
- -XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)
- -XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: \$45C)



CKGA-XC88/XC89/XC91

Symbol

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

63 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC89

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

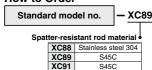
With coil scraper and grease for welding

■CKGA series (Rod Mounting)

Applicable Series

	Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)
	CKG1	Clamp cylinder	CKGA	Double acting, Single rod	•	•	•	Web Catalog

How to Order



Specifications

Bore size	ø80, ø100				
Dimensions	Same as standard type				
Additional specifications	Same as standard type				

Made to Order

Part		d material me plated)	Coil scraper	Lube- retainer	Grease for welding
no.	S45C	Stainless steel 304			
-XC88	_	•	•	•	•
-XC89	•	_	•	•	•
-XC91	•	_	•	_	•

Note) Use the -XC91 in a place where the distance from the welding portion is far and the spatter scattering is minimized.

- -XC88: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod; Stainless steel 304)
- -XC89: Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)
- -XC91: Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)



CKGA-XC88/XC89/XC91

Symbol

62 Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: Stainless steel 304)

-XC88

Spatter Resistant Coil Scraper, Lube-retainer, Grease for Welding (Piston rod: S45C)

-XC89

Reduces spatter adhesion and improves durability by the use of the coil scraper, Lube-retainer and grease for welding.

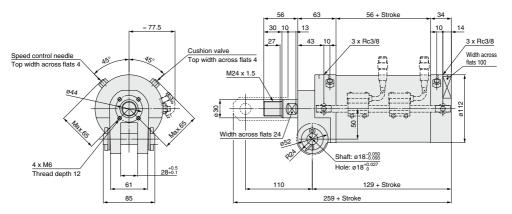
64 Spatter Resistant Coil Scraper, Grease for Welding (Piston rod: S45C)

-XC91

With coil scraper and grease for welding

Bore Size Ø80 to Ø100

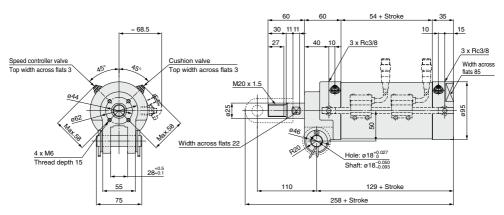
With auto switch (D-P4DWS ...).



CKGA80-XC88/XC89

With auto switch (D-P4DWS

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The specifications of the end bracket (double knuckle joint with pins) are the same as those of the standard model.

Comparison of the Dimensions of Each Series

The -XC88/XC89/XC91 and standard product have the same dimensions.

