-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)



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)

Symbol -XC88

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

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	Note	Vol. no. (for std model)
MB	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	•	•	•		
CQ2	Long stroke	CQ2-Z	Double acting, Single rod	•	•	_		
	Anti-lateral load	CQ2□S-Z	Double acting, Single rod	•	•	_		Web Catalog
MGP	Compact guide cylinder	MGPM-Z	Double acting	•	•	•	ø32-ø100 only	
MK2T	Rotary clamp cylinder	MK2T	Double acting	_	•	•	ø32-ø63 only	
CKG1	Clamp cylinder	CKG1-Z	Double acting, Single rod	•	•	•		
CKGI	Clamp cylinder	CKGA	Double acting, Single rod	•	•	•	ø80 and ø100 only	

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

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

^{*} The current product MGP-XC89 is equivalent to -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)

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

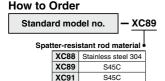
Symbol

-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



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

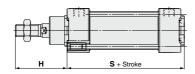
Bore size	ø32, ø40, ø50, ø63, ø80, ø100
Port thread type	Rc
Max. manufacturable stroke	See right side.
Rod boot	None
Cushion	Air cushion
Dimensions	See below.
Additional specifications	Same as standard type
· · · · · · · · · · · · · · · · · · ·	

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	XC91		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 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

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-	Grease
no.	S45C	Stainless steel 304		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.

How to Order

Standard model no. — XC							
Spatter-resistant rod material							
	XC88	Stainless st	eel 304				
	XC89	S450					
	XC91 S45C						

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

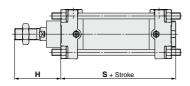
Max. manufacturable stroke

(mm)

Bore size	Max. manufacturable stroke ^{Note 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	3, 89 XC91		XC35	
(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

SMC

- -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

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.

-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



XC88	Stainless steel 304
XC89	S45C
XC91	S45C

Made to Order

Part		Piston rod material Hard chrome 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 bracks				
Туре	Pneumatic				
Mounting bolt for the through-hole type	Not included				
Dimensions	See below.				
Additional specifications	Same as standard type				

Long stroke

Specifications

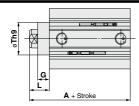
Mounting brackets	Excludes the compact foot bracket						
Туре	Pneumatic						
Cushion	Rubber bumper						
Dimensions	See below.						
Additional specifications	Same as standard type						

Anti-lateral load

Specifications

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

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



										(mm)	
		XC88, 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: S45C)



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

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

Symbol -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

Applicable Series

Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)
MGP	Compact guide cylinder	MGPM-Z	Double acting	•	•	•	Web Catalog

Made to Order

Part no.	Guide roo	n rod/ d material me plating)	Coil s	craper	Lube-r	Grease for				
	S45C	Stainless steel 304	Rod side	Head side	Rod side	Head side	welding			
-XC88	_	•	•	_	•	_	•			
-XC91	•	_	•	_	•	_	•			
-XC88W	_	•	•	•	•	•	•			
-XC89W	•	_	•	•	•	•	•			
-XC91W	•	_	•	•	•	_	•			

^{*} The current product MGP-XC89 is equivalent to -XC91

Specifications

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

How to Order

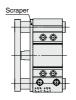
Standard model no.	- XC88W
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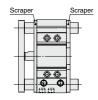
Spatter-resistant rod material

XC88: Single side scraper	Stainless steel 304
XC91: Single side scraper	S45C
XC88W: Both sides scraper	Stainless steel 304
XC89W: Both sides scraper	S45C
XC91W: Both sides scraper	S45C

Single side scraper

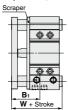
Both sides scraper





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

Single side scraper (-XC88, -XC91)

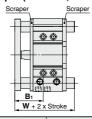


(IIIII)								
Bore size	XC88		XC91		XC35			
(mm)	B ₁	W Note 1)	B ₁	W Note 1)	B ₁	W Note 1)		
32	53	85	53	85	53	85		
40	54	85	54	85	54	85		
50	62	98.5	62	98.5	62	98.5		
63	62	98.5	62	98.5	62	98.5		
80	78	114.5	78	114.5	78	114.5		
100	71	136.5	71	136.5	71	136.5		

^{*} At 0 stroke

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

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



Bore size	XC88W XC89W		XC91W		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



-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

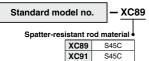
Series	Description	Model	Action	XC89	XC91	Vol. no. (for std model)
МК2Т	Rotary clamp cylinder	MK2T	Double acting	•	•	Web Catalog

Made to Order

Part no.	Piston rod material (Hard chrome plated)	Coil scraper Lube- retainer		Grease for welding	
	S45C		retainer	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.

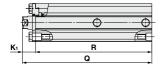
How to Order



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		
	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)

Bore size		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)

XC89			XC91					
Q	R	K 1	Q	R	K 1			
_	_	_	_	_	_			
_	_	_	_	_	_			
266	242.5	23.5	254.5	242.5	12			
269	246	23	256	246	10			
	_ _ _ _ _ 266	Q R	Q R K1 266 242.5 23.5	Q R K1 Q - - - - - - - - 266 242.5 23.5 254.5	Q R K1 Q R - - - - - - - - - - 266 242.5 23.5 254.5 242.5			





- -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

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

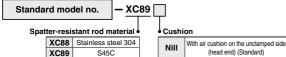
- CKG1 series (Magnetic Field Resistant Auto Switch Rod Mounting Type
- CKG1 series General Purpose Auto Switch Band Mounting/Rod Mounting

Applicable Series

XC91

- tpp://dia.com									
Series	Description	Model	Action	XC88	XC89	XC91	Vol. no. (for std model)		
CKG1	Clamp cylinder	CKG1-7	Double action. Single rod.	•	•	•	Web Catalog		

How to Order



S450

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).

With air cushion on both ends

Made to Order

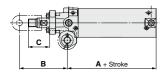
		Piston rod material (Hard chrome plated)		Coil	Lube-	Grease for
		S45C	Stainless steel 304	scraper	retainer	welding
Ī	-XC88	_	•	•	•	•
ŀ	-XC89	•	_	•	•	•
	-XC91	-XC91 ●		•	_	•

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	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 (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	
Ī	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

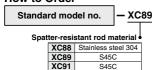
With coil scraper and grease for welding

■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

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)

-XC89

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

VO

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

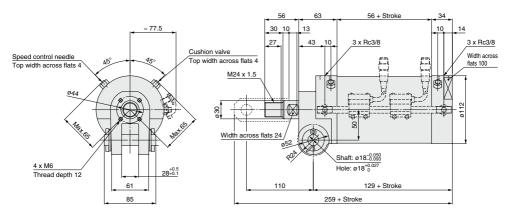
-XC91

With coil scraper and grease for welding

80 to Ø100

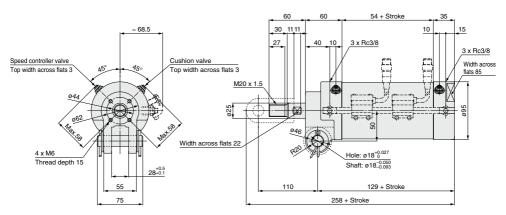
CKGA100-XC88/XC89

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



CKGA80-XC88/XC89

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



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.

