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# KOGANEI

## ACTUATORS GENERAL CATALOG

# CYLINDER JOINTS CYLINDER ROD ENDS CONTENTS

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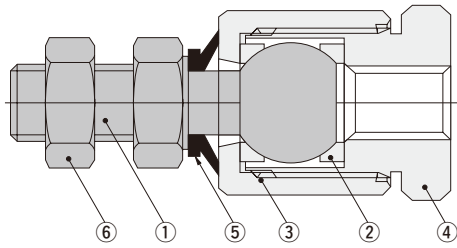
**Caution**

Before use, be sure to read the "Safety Precautions" on p. 57.



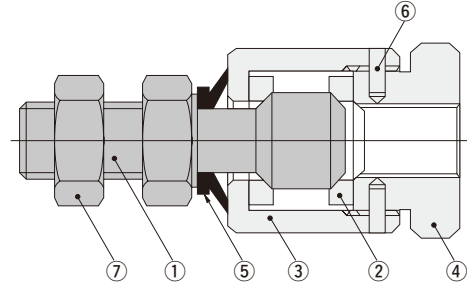
## Inner Construction, Major Parts and Materials

### ● CJ-3×0.5, CJ-4×0.7, CJ-5×0.8



No.	Parts	Materials	Remarks
①	Stud	Steel	Nickel plated
②	Ring	Steel	—
③	Case	Brass	Nickel plated
④	Socket	Brass	
⑤	Dust seal	Synthetic rubber	NBR
⑥	Nut	Mild steel	Zinc plated

### ● CJ-6×1~CJ□-14×1.5

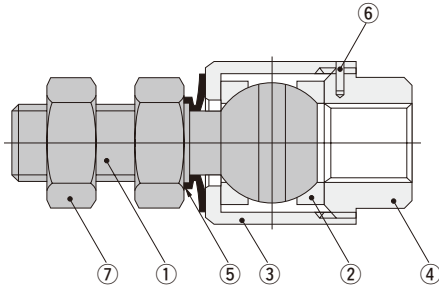


The diagram shows CJ□-8×1~14×1.5.

No.	Parts	Materials	Remarks
①	Stud	Steel	Nickel plated
②	Ring	Special steel	—
③	Case	Steel (Brass)	Nickel plated
④	Socket	Steel (Brass)	
⑤	Dust seal	Synthetic rubber	NBR
⑥	Pin	Special steel	It is not available in CJ-6×1.
⑦	Nut	Mild steel	Zinc plated

Note: Inside the parentheses, “( )” is for CJ-6×1.

### ● CJ□-18×1.5~CJ□-26×1.5



No.	Parts	Materials	Remarks
①	Stud	Steel	Nickel plated
②	Ring	Special steel	—
③	Case	Steel	Nickel plated
④	Socket	Steel	Nickel plated
⑤	Dust seal	Synthetic rubber	NBR
⑥	Pin	Special steel	—
⑦	Nut	Mild steel	Zinc plated

## Mass

kg [oz.]

Item	Size	kg [oz.]			
		3×0.5	4×0.7	5×0.8	6×1
Cylinder joint alone		0.011 [0.39]	0.012 [0.42]	0.023 [0.81]	0.025 [0.88]

kg [lb.]

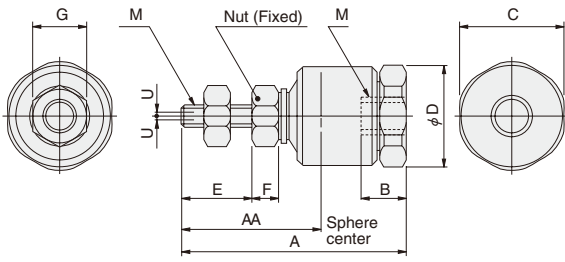
Item	Size	Short nose type (CJS)								Long nose type (CJL)							
		8×1	10×1.25	12×1.25	14×1.5	18×1.5	22×1.5	26×1.5	8×1	10×1.25	12×1.25	14×1.5	18×1.5	22×1.5	26×1.5		
Cylinder joint alone		0.05 [0.11]	0.10 [0.22]	0.20 [0.44]	0.21 [0.46]	0.36 [0.79]	0.67 [1.48]	1.27 [2.80]	0.055 [0.121]	0.105 [0.232]	0.213 [0.470]	0.24 [0.53]	0.41 [0.90]	0.75 [1.65]	1.18 [2.60]		
With foot mounting bracket		—	—	—	—	—	—	—	0.09 [0.20]	0.17 [0.37]	0.36 [0.79]	0.39 [0.86]	1.00 [2.21]	1.69 [3.73]	2.32 [5.12]		
With flange mounting bracket		0.10 [0.22]	0.21 [0.46]	0.26 [0.57]	0.47 [1.04]	0.95 [2.09]	1.93 [4.26]	2.52 [5.56]	0.090 [0.198]	0.165 [0.364]	0.272 [0.600]	0.49 [1.08]	0.95 [2.09]	1.96 [4.32]	2.57 [5.67]		

# Dimensions (mm)

## ● CJ-3×0.5, CJ-4×0.7, CJ-5×0.8



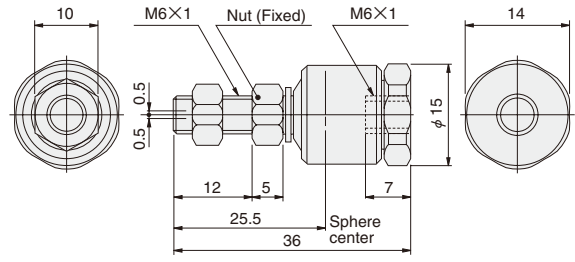
CJ1



## ● CJ-6×1



CJ1



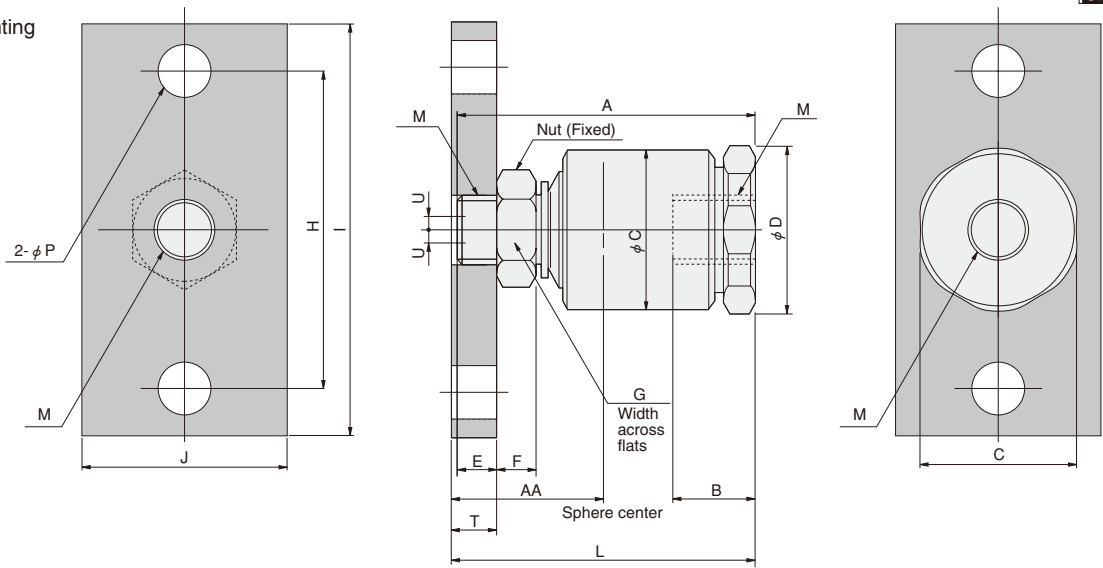
Model	M		A	B	C	D	E	F	G	AA	Allowable eccentricity U
	Nominal size	Pitch									
CJ-3×0.5	3	0.5	23	5	12	13	7	2.4	5.5	15.6	0.5
CJ-4×0.7	4	0.7	25.5	5	12	13	8.8	3.2	7	18.1	0.5
CJ-5×0.8	5	0.8	33	7	14	15	10.5	4	8	22.4	0.5

## ● CJS-8×1-3, CJS-10×1.25-3, CJS-12×1.25-3, CJS-14×1.5-3



CJ2

Short nose type  
(with flange mounting bracket)



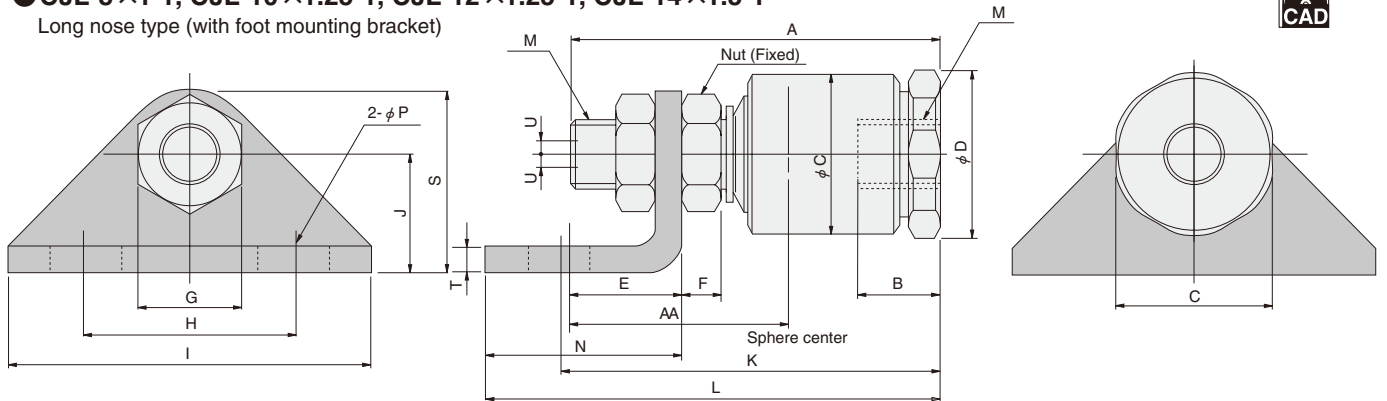
Model	M		Short nose type body								With flange mounting bracket							Allowable eccentricity U
	Nominal size	Pitch	A	B	C	D	E	F	G	AA	H	I	J	L	P	T		
CJS-8×1	8	1	38	10	19	20	4	5	12	22.5	40	52	25	40	7	6	0.5	
CJS-10×1.25	10	1.25	48	12	24	25.5	7	6	14	29.5	44	56	32	50	7	9	0.75	
CJS-12×1.25	12	1.25	59.5	16	30	32	7	7	17	34.5	44	56	32	61.5	7	9	1.0	
CJS-14×1.5	14	1.5	63.5	16	30	32	10	8	19	38.5	60	80	38	65.5	11	12	1.0	

## ● CJL-8×1-1, CJL-10×1.25-1, CJL-12×1.25-1, CJL-14×1.5-1



CJ3

Long nose type  
(with foot mounting bracket)

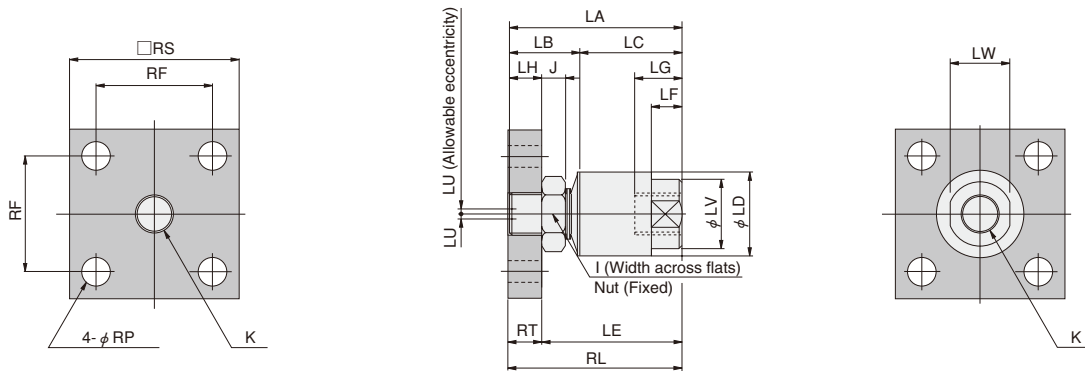


Model	M		Long nose type body								With foot mounting bracket									Allowable eccentricity U
	Nominal size	Pitch	A	B	C	D	E	F	G	AA	H	I	J	K	L	N	P	S	T	
CJL-8×1	8	1	47	10	19	20	13	5	12	30.5	26	44	15	48	59	25	9	23	3.2	0.5
CJL-10×1.25	10	1.25	57	12	24	25.5	16	6	14	37.5	26	44	19	59	71	30	9	29	5	0.75
CJL-12×1.25	12	1.25	70.5	16	30	32	18	7	17	44.5	26	44	19	70.5	82.5	30	9	29	5	1.0
CJL-14×1.5	14	1.5	72.5	16	30	32	19	8	19	46.5	36	64	22	83.5	98.5	45	11	34	6	1.5

## Dimensions (mm)

### ● CJS-18×1.5-3, CJS-22×1.5-3, CJS-26×1.5-3

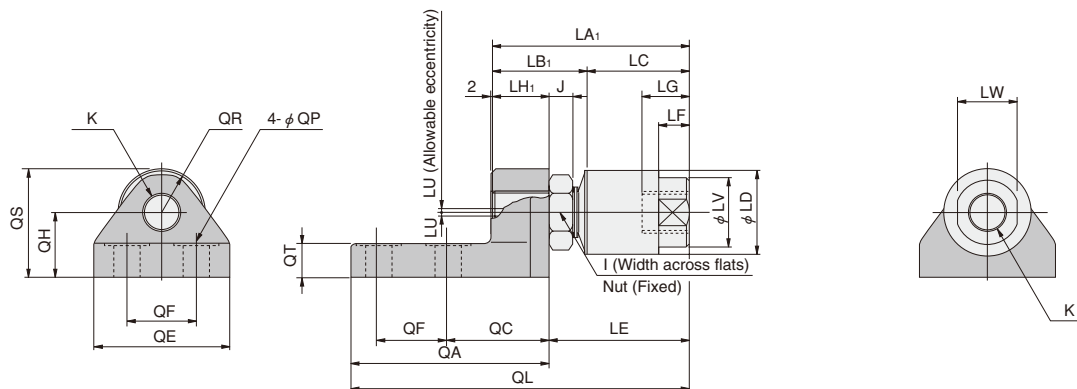
Short nose type (with flange mounting bracket)



Model	Short nose type body													With flange mounting bracket					
	I	J	K	LA	LB	LC	LD	LE	LF	LG	LH	LU	LV	LW	RF	RL	RP	RS	RT
CJS-18×1.5	27	11	M18×1.5	77	31	46	38	64	14	21	13	1.25	29	27	50	79	11	75	15
CJS-22×1.5	32	13	M22×1.5	93	38	55	49	77	16	25	16	2	34	32	62	95	14	100	18
CJS-26×1.5	36	14	M26×1.5	109	44	65	57	90	21	30	19	2.5	44	41	70	111	14	100	21

### ● CJL-18×1.5-1, CJL-22×1.5-1, CJL-26×1.5-1

Long nose type (with foot mounting bracket)



Model	Long nose type body													With foot mounting bracket										
	I	J	K	LA <sub>1</sub>	LB <sub>1</sub>	LC	LD	LE	LF	LG	LH <sub>1</sub>	LU	LV	LW	QA	QC	QE	QF	QH	QL	QP	QR	QS	QT
CJL-18×1.5	27	11	M18×1.5	88	42	46	38	64	14	21	24	1.25	29	27	89	45	60	32	28	153	11	16	47	14
CJL-22×1.5	32	13	M22×1.5	105	50	55	49	77	16	25	28	2	34	32	99	49	68	36	35	176	14	19	59.5	18
CJL-26×1.5	36	14	M26×1.5	122	57	65	57	90	21	30	32	2.5	44	41	103	53	68	36	42	193	14	21	70.5	21

## Handling Instructions and Precautions

- The cylinder joint is for air cylinders. Consult us for any use other than for the air cylinder.
- The cylinder joint stud can rotate, but primarily the cylinder joint is not designed as a rotary joint, so it should not be used as a rotary joint.
- It cannot be used again after disassembled.
- The lubricant has been filled in the body.
- The threaded depth in the cylinder rod socket should be within the value shown in the catalog. As a guide, it should be in a position about 1 or 2 rotations back from where it reaches the bottom.
- Be sure not to let any foreign objects or dust enter inside through the socket female thread before installation.

# CYLINDER ROD ENDS

Thread size M3 × 0.5 ~ M26 × 1.5

## A flexible motion ensures cylinder functions!

- Eleven types are available by thread size.  
Suitable for  $\phi 6$  [0.236in.] ~  $\phi 100$  [3.940in.] bore cylinders.
- Because it uses a fluoro plastic liner, no lubrication is required and it is maintenance free.



## Specifications

Item Model	Thread size	Applicable cylinder and bore size							The max. cylinder thrust of applicable cylinder at 0.97Mpa N [lbf.]	Allowable radial static load N [lbf.]	Mass g [oz.]
		Pen	Multi mount	Jig C (male thread specification :- B)	Slim	Twinport	DYNA	JC			
CRE-3×0.5	M3×0.5	6	6	—	—	—	—	—	27.5 [6.2]	1863.3 [419]	10 [0.35]
CRE-4×0.7	M4×0.7	10	10	—	—	—	—	—	76.5 [17.2]	3334.3 [750]	12 [0.42]
CRE-5×0.8	M5×0.8	16	16	12	—	—	—	—	195.2 [43.9]	5785.9 [1301]	18 [0.63]
CRE-6×1	M6×1	—	—	16	16 <sup>Note 1</sup>	16	—	—	305.0 [68.6]	7355.0 [1654]	26 [0.92]
CRE-8×1	M8×1	—	—	20	20, 25 <sup>Note 2</sup>	20	—	20	475.6 [106.9]	14121.6 [3175]	45 [1.59]
CRE-10×1.25	M10×1.25	—	—	25	20, 25, 32	25, 32	32	25	780.6 [175.5]	19711.4 [4432]	75 [2.65]
CRE-12×1.25	M12×1.25	—	—	—	—	—	—	—	780.6 [175.5]	23437.9 [5270]	115 [4.06]
CRE-14×1.5	M14×1.5	—	—	32, 40	40, 50, 63	40	40	32, 40	3026.3 [680.3]	25497.3 [5733]	147 [5.19]
CRE-18×1.5	M18×1.5	—	—	50, 63	—	—	50, 63	50, 63	3026.3 [680.3]	31283.2 [7034]	268 [9.45]
CRE-22×1.5	M22×1.5	—	—	80	—	—	80	80	4879.8 [1097]	48641.0 [10934]	452 [15.94]
CRE-26×1.5	M26×1.5	—	—	100	—	—	100	100	7623.7 [1714]	50504.2 [11353]	648 [22.86]

Notes: 1. For the square rod cylinders.  
2. Only for the block cylinders.

## Order Codes

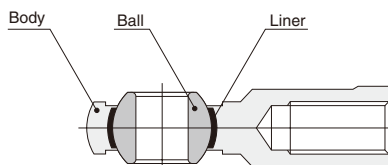
CRE —

Cylinder rod end

Thread size

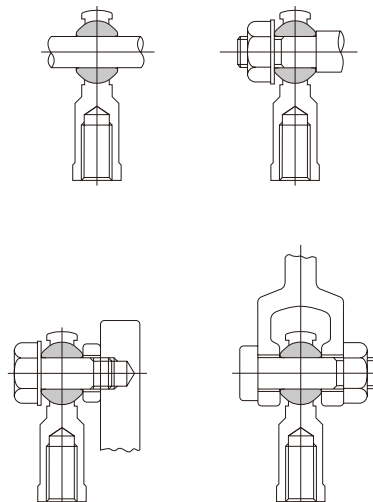
- 3 × 0.5 — M3 × 0.5 (Hole diameter for pin  $\phi 3$  [0.118in.])
- 4 × 0.7 — M4 × 0.7 (Hole diameter for pin  $\phi 4$  [0.157in.])
- 5 × 0.8 — M5 × 0.8 (Hole diameter for pin  $\phi 5$  [0.197in.])
- 6 × 1 — M6 × 1 (Hole diameter for pin  $\phi 6$  [0.236in.])
- 8 × 1 — M8 × 1 (Hole diameter for pin  $\phi 8$  [0.315in.])
- 10 × 1.25 — M10 × 1.25 (Hole diameter for pin  $\phi 10$  [0.394in.])
- 12 × 1.25 — M12 × 1.25 (Hole diameter for pin  $\phi 12$  [0.472in.])
- 14 × 1.5 — M14 × 1.5 (Hole diameter for pin  $\phi 14$  [0.551in.])
- 18 × 1.5 — M18 × 1.5 (Hole diameter for pin  $\phi 18$  [0.709in.])
- 22 × 1.5 — M22 × 1.5 (Hole diameter for pin  $\phi 22$  [0.866in.])
- 26 × 1.5 — M26 × 1.5 (Hole diameter for pin  $\phi 25$  [0.984in.])

## Inner Construction, Major Parts and Materials



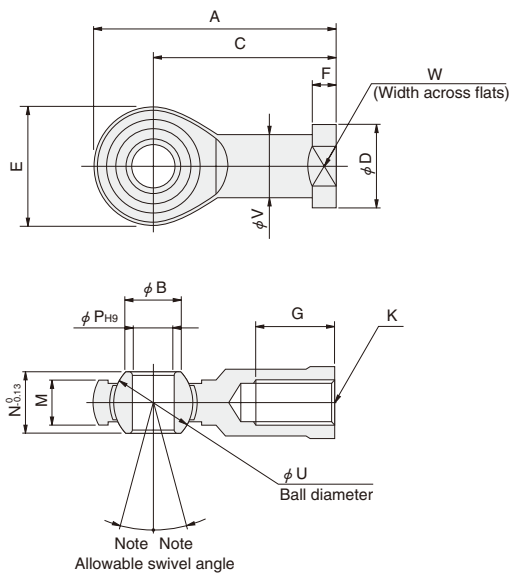
Parts	Materials
Body	Carbon steel (zinc plated)
Ball	Bearing steel (chrome plated)
Liner	Fluoro plastic

## Mounting Examples

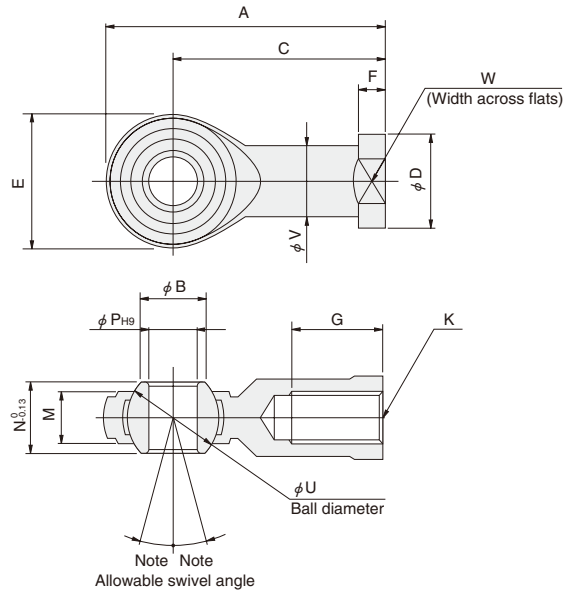
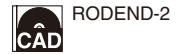


## Dimensions (mm)

### ● CRE-3×0.5~10×1.25



### ● CRE-12×1.25~26×1.5

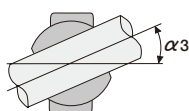
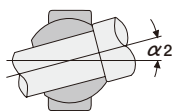
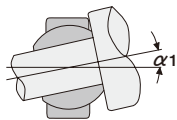


Note: The allowable swivel angle varies depending on the mating shaft. For details, see the table in Handling Instructions and Precautions.

Model	Code	A	B	C	D	E	F	G	K	M	N	P	U	V	W
CRE-3×0.5		27	5.1	20	8	14	3	6	M3×0.5	4.5	6	3	7.938	6.5	7
CRE-4×0.7		32	7.4	24	10	16	3.5	8	M4×0.7	5.2	7	4	9.525	8	8
CRE-5×0.8		35	7.7	27	11	16	4	10	M5×0.8	6	8	5	11.112	9	9
CRE-6×1		39	9	30	13	18	5	12	M6×1	6.7	9	6	12.700	10	11
CRE-8×1		47	10.4	36	16	22	5	16	M8×1	9	12	8	15.875	12.5	14
CRE-10×1.25		56	12.9	43	19	26	6.5	20	M10×1.25	10.5	14	10	19.050	15	17
CRE-12×1.25		65	15.4	50	22	30	6.5	22	M12×1.25	12	16	12	22.225	17.5	19
CRE-14×1.5		74	16.8	57	25	34	8	27	M14×1.5	14	19	14	25.400	20	22
CRE-18×1.5		92	21.8	71	31	42	10	36	M18×1.5	16.5	23	18	31.750	25	27
CRE-22×1.5		109	25.8	84	37	50	12	43	M22×1.5	20	28	22	38.100	30	32
CRE-26×1.5		122	29.6	94	42	56	12	48	M26×1.5	22	31	25	42.863	33.5	36

## Handling Instructions and Precautions

- The cylinder rod end is for the air cylinder only. Consult us for any use other than for the air cylinder.
- It cannot be disassembled.
- Because it uses a fluoro plastic liner, no lubrication is required and it is maintenance free.
- The ball rotates in any direction, but do not use the cylinder rod end exceeding allowable swivel angle. Moreover, the allowable swivel angle varies depending on the mating shaft. See the table below.



### Allowable swivel angle

Model	α 1	α 2	α 3
CRE-3×0.5	6°	20°	35°
CRE-4×0.7	6°	20°	35°
CRE-5×0.8	8°	13°	30°
CRE-6×1	8°	13°	30°
CRE-8×1	9°	13°	25°
CRE-10×1.25	9°	13°	25°
CRE-12×1.25	9°	13°	25°
CRE-14×1.5	10°	14°	24°
CRE-18×1.5	10°	14°	24°
CRE-22×1.5	10°	15°	23°
CRE-26×1.5	10°	15°	23°

