Specifications

Bore size(mm)	20	25	32	40	50	63	80	100
Fluid	Air							
Acting type	Double acting							
Maximum operating pressure	1.0MPa							
Minimum operating pressure	0.05MPa							
Ambient and fluid temperature	Without auto switch: -10°C to 70°C, With auto switch: -10°C to 60°C							
Piston speed (mm/s)	50~1000						50~700	
Buffer	Rubber bumper, Air cushion							
Stroke length tolerance	~1000: $^{+1.4}_{0}$ ~1200: $^{+1.8}_{0}$						~1000: $^{+1.4}_{0}$ ~1500: $^{+1.8}_{0}$	
Lubrication Note)	Not required (Non-lube)							
Pipe size	1/8"				1/4"		3/8"	1/2"

Note: 1. For oil supply, please use Turbine No.1 Oil ISO VG32.
2. PT thread, G thread and NPT thread are available.

Ordering code

N C D G 1 L N 25 - 100 □ - B54 □

Built in magnetic ring

Blank	No built-in magnetic ring
D	Built in magnetic ring

Installation form

B	Basic
L	Axial foot
F	Rod flange
G	Head flange
*U	Rod trunnion
*T	Head trunnion
D	Double clevis

* Not available for Φ80 and Φ100.

Buffer

N	Rubber bumper
A	Air cushion

Bore size

20	20mm
25	25mm
32	32mm
40	40mm
50	50mm
63	63mm
80	80mm
100	100mm

Stroke

Protective sheath (one side)

Blank	Without rod boot
J	Nylon tarpaulin
K	Heat resistant tarpaulin

Magnetic switch type

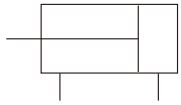
Blank	Without magnetic switch

*Refer to tour/magnetic switch model list for magnetic switch model
*No built-in magnetic ring cylinder no such item

Number of magnetic switches

Blank	2 pcs.
S	1 pc.
n	"n" pcs.

Symbol



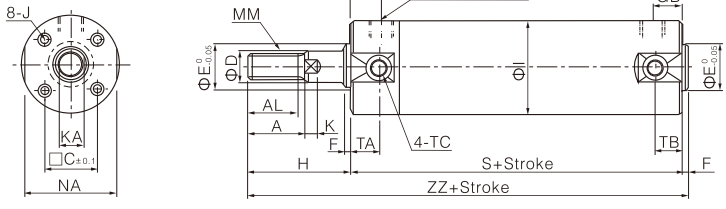
Stroke/magnetic switch model table

Bore size (mm)	Standard stroke	Long stroke	Magnetic switch type	
			Model	Installation
20	25, 50, 75, 100, 125, 150, 175, 200	201~350	B54	BA-01
25	25, 50, 75, 100, 125, 150, 175, 200, 250, 300	301~400		BA-02
32		301~450		BA-32
40		301~800		BA-04
50		301~1200		BA-05
63		301~1200		BA-06
80		301~1400		BA-08
100		301~1500		BA-10

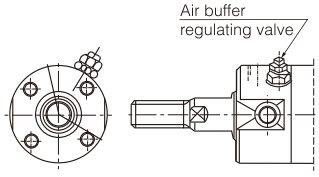
1. The specifications and characteristics of magnetic switches an be referred to the series of magnetic switches.
2. The length of conductor is denoted as mark : No mark -0.5m, L-3m, Z-5m. Example: B54, B54L.

Dimensions

Basic type Rubber bumper



Air cushion

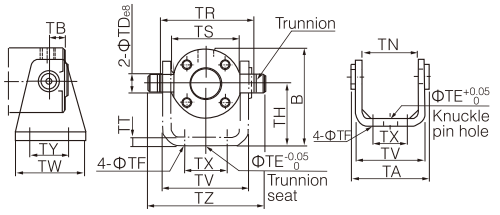


* In the case of air cushioning, the nozzle port P=M5×0.8 with cylinder diameters of 20mm and 25mm.

Bore size (mm)	Stroke range	A	AL	□C	ΦD	ΦE	F	GA	GB	ΦI	J	K	KA	MM	NA	P	S	TA	TB	TC	H	ZZ
20	~200	18	15.5	14	8	12	2	12	10	26	M4×0.7 depth 7	4	6	M8×1.25	24	1/8"	69	11	11	M5×0.8	35	106
25	~300	22	19.5	16.5	10	14	2	12	10	31	M5×0.8 depth 7.5	5.5	8	M10×1.25	29	1/8"	69	11	11	M6×0.75	40	111
32	~300	22	19.5	20	12	18	2	12	10	38	M5×0.8 depth 8	5.5	10	M10×1.25	35.5	1/8"	71	11	10	M8×1.0	40	113
40	~300	30	27	26	16	25	2	13	10	47	M6×1 depth 12	6	14	M14×1.5	44	1/8"	78	12	10	M10×1.25	50	130
50	~300	35	32	32	20	30	2	14	12	58	M8×1.25 depth 16	7	18	M18×1.5	55	1/4"	90	13	12	M12×1.25	58	150
63	~300	35	32	38	20	32	2	14	12	72	M10×1.5 depth 16	7	18	M18×1.5	69	1/4"	90	13	12	M14×1.5	58	150
80	~300	40	37	50	25	40	3	20	16	89	M10×1.5 depth 22	10	22	M22×1.5	80	3/8"	108	-	-	-	71	182
100	~300	40	37	60	30	50	3	20	16	110	M12×1.75 depth 22	10	26	M26×1.5	100	1/2"	108	-	-	-	71	182

Trunnion and trunnion seat

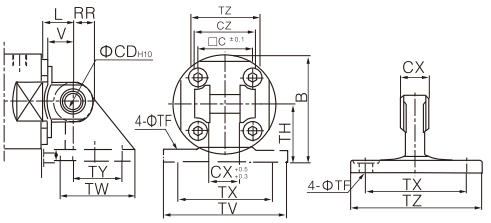
Φ20~Φ63



Bore size (mm)	Trunnion		Trunnion seat												
	Part No.	ΦTDeB	Part No.	B	TB	ΦTE	ΦTF	TH	TR	TS	TT	TV	TW	TX	TY	TZ
20	CG-T020	$8^{-0.025}_{-0.047}$	CG-020-24A	38	11	10	5.5	25	39	28	3.2	35.8	42	16	28	47.6
25	CG-T025	$10^{-0.025}_{-0.047}$	CG-025-24A	45.5	11	10	5.5	30	43	33	3.2	39.8	42	20	28	53
32	CG-T032	$12^{-0.032}_{-0.059}$	CG-032-24A	54	10	10	6.6	35	54.5	40	4.5	49.4	48	22	28	67.7
40	CG-T040	$14^{-0.032}_{-0.059}$	CG-040-24A	63.5	10	10	6.6	40	65.5	49	4.5	58.4	56	30	30	78.7
50	CG-T050	$16^{-0.032}_{-0.059}$	CG-050-24A	79	12	20	9	50	80	60	6	72.4	64	36	36	98.6
63	CG-T063	$18^{-0.032}_{-0.059}$	CG-063-24A	96	12	20	11	60	98	74	8	90.4	74	46	46	119.2

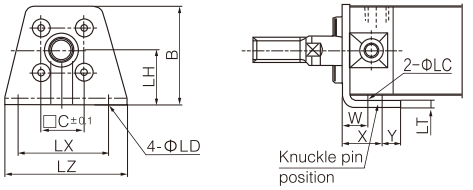
Double earrings and earrings seat

Φ80~Φ100

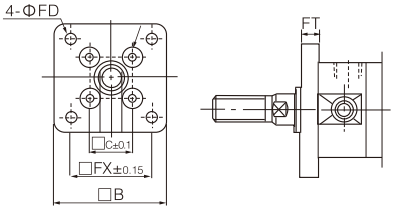


Bore size (mm)	Double earrings							Earrings seat							
	Part No.	ΦCDH10	CX	CZ	L	RR	V	Part No.	ΦTF	TH	TT	TV	TW	TX	TY	TZ
80	CG-D080	$18^{+0.070}_{0}$	28	56	35	18	25	CG-080-24A	11	55	11	110	72	85	45	64
100	CG-D100	$22^{+0.084}_{0}$	32	64	43	20	31	CG-100-24A	13.5	65	12	130	93	100	60	72

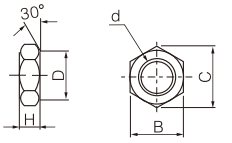
Axial foot



Flange



Rod end nut

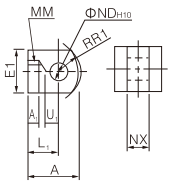


Bore size (mm)	Axial foot											Flange				
	Part No.	ΦLC	ΦLD	LH	LT	LX	LZ	B	W	X	Y	Part No.	□B	□FX	ΦFD	FT
20	CG-L020	4	5.5	20	3	32	44	34	10	15	7	CG-F020	40	28	5.5	6
25	CG-L025	4	5.5	22	3	36	49	38.5	10	15	7	CG-F025	44	32	5.5	7
32	CG-L032	4	6.6	25	3	44	58	45	10	16	8	CG-F032	53	38	6.6	7
40	CG-L040	4	6.6	30	3	54	71	54.5	10	16.5	9	CG-F040	61	46	6.6	8
50	CG-L050	5	9	40	4.5	66	86	70.5	17.5	22	11	CG-F050	76	58	9	9
63	CG-L063	5	11	45	4.5	82	106	82.5	17.5	22	13	CG-F063	92	70	11	9
80	CG-L080	6	11	55	4.5	100	125	101	20	28.5	14	CG-F080	104	82	11	11
100	CG-L100	6	14	65	6	120	150	121	20	30	16	CG-F100	128	100	14	14

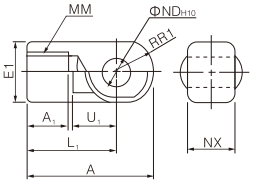
Bore size (mm)	Rod end nut					
	Part No.	d	H	B	C	D
20	NT-02	M8×1.25	5	13	15	12.5
25,32	NT-03	M10×1.25	6	17	19.6	16.5
40	NT-G04	M14×1.5	8	19	(21.9)	18
50,63	NT-G05	M18×1.5	11	24	(27.7)	23
80	NT-08	M22×1.5	13	32	(37.0)	31
100	NT-10	M26×1.5	16	41	(47.3)	39

Single knuckle joint

I-G02,G03

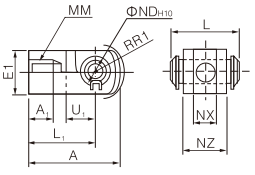


I-G04,G05,G08,G10

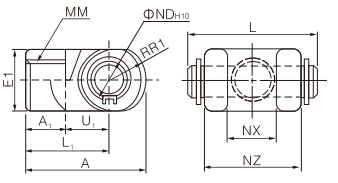


Double knuckle joint

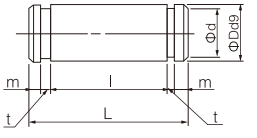
Y-G02,G03



Y-G04,G05,G08,G10



Clevis pin



Bore size (mm)	Single knuckle joint										Double knuckle joint											Clevis pin						
	Part No.	A	A1	E1	L1	MM	RR1	U1	NDH10	NX	Part No.	A	A1	E1	L1	MM	RR1	U1	NDH10	NX	NL	L	Part No.	ΦDd9	L	Φd	l	m	t
20	I-G02	34	8.5	□16	25	M8×1.25	10.3	11.5	$8^{+0.058}_{0}$	$8^{-0.2}_{-0.4}$	Y-G02	34	8.5	□16	25	M8×1.25	10.3	11.5	$8^{+0.058}_{0}$	$8^{+0.4}_{+0.2}$	16	21	IY-G02	$8^{+0.040}_{+0.076}$	21	7.6	16.2	1.5	0.9
25,32	I-G03	41	10.5	□20	30	M10×1.25	12.8	14	$10^{+0.058}_{0}$	$10^{-0.2}_{-0.4}$	Y-G03	41	10.5	□20	30	M10×1.25	12.8	14	$10^{+0.058}_{0}$	$10^{+0.4}_{+0.2}$	20	25.6	IY-G03	$10^{+0.040}_{+0.076}$	25.6	9.6	20.2	1.55	1.15
40	I-G04	42	14	Φ20	30	M14×1.5	12	14	$10^{+0.058}_{0}$	$18^{-0.3}_{-0.5}$	Y-G04	42	16	Φ20	30	M14×1.5	12	14	$10^{+0.058}_{0}$	$18^{+0.5}_{+0.3}$	36	41.6	IY-G04	$10^{+0.040}_{+0.076}$	41.6	9.6	36.2	1.55	1.15
50,53	I-G05	56	18	Φ28	40	M18×1.5	16	20	$14^{+0.070}_{0}$	$22^{-0.3}_{-0.5}$	Y-G05	56	20	Φ28	40	M18×1.5	16	20	$14^{+0.070}_{0}$	$22^{+0.5}_{+0.3}$	44	50.6	IY-G05	$14^{+0.050}_{+0.093}$	50.6	13.4	44.2	2.05	1.15
80	I-G08	71	21	Φ38	50	M22×1.5	21	27	$18^{+0.070}_{0}$	$28^{-0.3}_{-0.5}$	Y-G08	71	23	Φ38	50	M22×1.5	21	27	$18^{+0.070}_{0}$	$28^{+0.5}_{+0.3}$	56	64	IY-G08	$18^{+0.050}_{+0.093}$	64	17	56.2	2.55	1.35
100	I-G10	79	21	Φ44	55	M26×1.5	24	31	$22^{+0.084}_{0}$	$32^{-0.3}_{-0.5}$	Y-G10	79	24	Φ44	55	M26×1.5	24	31	$22^{+0.084}_{0}$	$32^{+0.5}_{+0.3}$	64	72	IY-G10	$22^{+0.055}_{+0.177}$	72	21	64.2	2.55	1.35

Note: Pins for elbow joints of Φ80 and Φ100 cylinders are the same as pins for double earrings.