Compact Cylinder

New

Remodeled with a new body to get more flexibility!

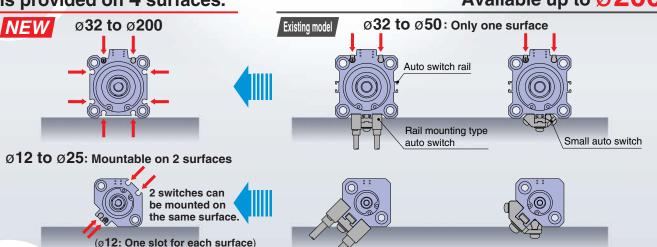
Can mount small auto switches on 4 surfaces.

Auto switches can be mounted on any of the 4 surfaces, depending on the installation conditions. (ø12 to ø25: 2 surfaces) Improved flexibility of system design.



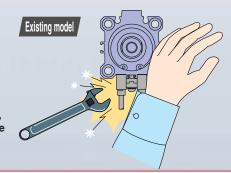
Auto switch mounting rail removed A round slot for mounting small auto switches is provided on 4 surfaces.

Available up to \emptyset **200**



No projection of auto switch

- Prevention of damage to auto switch
- Sleeves cannot get caught in the auto switch and its mounting rail.
 - Improved ease of work and safety
- Reduction in labor for design There is no need to check for interference with a machine, because the outer dimensions of the cylinder do not change when the auto switch is mounted.



Exclusive bodies (-XB10) for Ø32 to Ø100 intermediate strokes (50 st or more) now kept in inventory*, enabling shorter delivery times. * Formerly produced upon receipt of order

Bore size (mm)	Stroke											
	50	55	60	65	70	75	80	85	90	95	100	
ø 32 to ø 100	•	•		•	•	•	•			•	•	
◆ Standard stroke ○ Currently stocked intermediate stroke												



Series CQ2

Copper and Fluorine-free Series (For CRT Manufacturing Process)

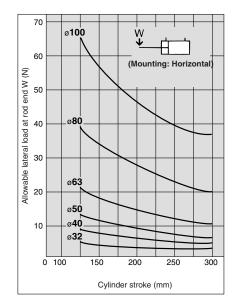


For preventing the influence of copper ions or halogen ions during CRT manufacturing processes, copper and fluorine materials are not used in the component parts.

Specifications

Bore size (mm)	32	40	50	63	80	100				
Action	Double acting, Single rod									
Proof pressure	1.5 MPa									
Max. operating pressure			1.0 N	ИРа						
Rubber bumper	With (Standard)									
Piping	Pipe thread, Built-in one-touch fittings									
Piston speed	50 to 500 mm/s									
Mounting	Both ends tapped									
Auto switch	Mountable									

Allowable Lateral Load at Rod End



Mounting Brackets/ Part No.

Bore size (mm)	Foot Note 1)	Flange	Double clevis
32	CQ-L032	CQ-F032	CQ-D032
40	CQ-L040	CQ-F040	CQ-D040
50	CQ-L050	CQ-F050	CQ-D050
63	CQ-L063	CQ-F063	CQ-D063
80	CQ-L080	CQ-F080	CQ-D080
100	CQ-L100	CQ-F100	CQ-D100

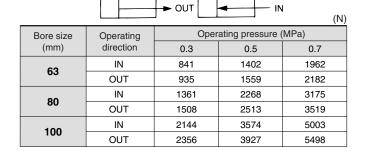
Note 1) When ordering a foot bracket, order 2 pieces per cylinder.

Note 2) Parts belonging to each bracket are as follows.

Foot or Flange: Body mounting bolts Double clevis: Clevis pin, Body mounting bolts, Type C retaining rings for axis

Theoretical Output

Bore size	Operating	Operating pressure (MPa)								
(mm)	direction	0.3	0.5	0.7						
32	IN	181	181 302							
32	OUT	241	402	563						
40	IN	317	528	739						
40	OUT	377	628	880						
50	IN	495	825	1155						
	OUT	589	982	1374						



Weight (9)

Without Auto Switch

Bore size	Cylinder stroke (mm)												
(mm)	125	150	175	200	250	300							
32	708	817	918	1017	1215	1415							
40	888	997	1107	1217	1438	1657							
50	1352	1517	1682	1841	2177	2507							
63	1706	1900	2095	2292	2676	3065							
80	2832	3130	3429	3725	4324	4921							
100	4540	4906	5270	5634	6367	7096							

Additional Weight										
(mm)	32	40	50	63	80	100				
Male thread	26	27	53	53	120	175				
Nut	17	17	32	32	49	116				
ts)	146	158	253	349	672	1113				
ng bolts)	165	198	348	534	1017	1309				
ting bolts)	165	198	348	534	1017	1309				
retaining rings, bolts)	151	196	393	554	1109	1887				
	(mm) Male thread Nut s) ng bolts) ting bolts)	(mm) 32 Male thread 26 Nut 17 s) 146 ng bolts) 165 ting bolts) 165	(mm) 32 40 Male thread 26 27 Nut 17 17 s) 146 158 ng bolts) 165 198 ting bolts) 165 198	(mm) 32 40 50 Male thread 26 27 53 Nut 17 17 32 s) 146 158 253 ng bolts) 165 198 348 ting bolts) 165 198 348	(mm) 32 40 50 63 Male thread 26 27 53 53 Nut 17 17 32 32 s) 146 158 253 349 ng bolts) 165 198 348 534 ting bolts) 165 198 348 534	(mm) 32 40 50 63 80 Male thread 26 27 53 53 120 Nut 17 17 32 32 49 s) 146 158 253 349 672 ng bolts) 165 198 348 534 1017 ting bolts) 165 198 348 534 1017				

With Auto Switch

Bore size	Cylinder stroke (mm)											
(mm)	125	150	175	200	250	300						
32	726	826	927	1026	1224	1424						
40	902	1012	1121	1231	1451	1671						
50	1367	1532	1697	1856	2192	2522						
63	1730	1924	2119	2316	2700	3089						
80	2856	3154	3453	3749	4348	4945						
100	4578	4944	5308	5672	6405	7134						

Calculation: (Example) CQ2D32-200DCMZ

- Basic weight: CQ2A32-200DCZ------1017 g
- Additional weight: Rod end male thread43 g
 Double clevis151 g

1211

Add each weight of auto switches when auto switches are mounted.



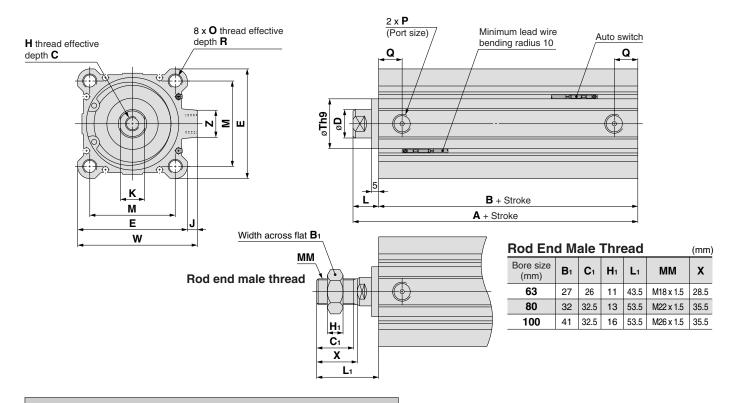
Series CQ2

Dimensions

<u>Ø63 to Ø100</u>

Both ends tapped: C□Q2A

The dimensions are the same with or without an auto switch.



The dimensions with built-in one-touch fittings are equivalent to those of the CQ2 series, double acting, single rod. Refer to page 17.

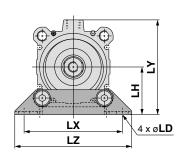
Both Ends Tapped For auto switch proper mounting position and its mounting height, refer to pages 169 to 175.

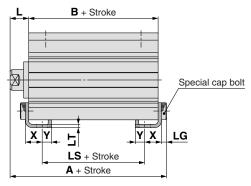
Dom Lindo	iappoa ioiac	110 SW	itori pi	opci i	Hour	mig p	osition and it	3 11100	nung	ricigi	it, icit	i to pages in	33 10	175.				(111111)
Bore size (mm)	Stroke range (mm)	Α	В	С	D	Е	Н	J	K	L	М	0	Р	Q	R	Th9	W	Z
63	Note 1)	75	57	15	20	77	M10 x 1.5	7	17	18	60	M10 x 1.5	1/4	16.5	18	35_0_0	84	19
80	125 to 200 Note 1) 250, 300	86	66	21	25	98	M16 x 2.0	6	22	20	77	M12 x 1.75	3/8	19	22	43_0_0	104	25
100	250, 300	97.5	75.5	27	30	117	M20 x 2.5	6.5	27	22	94	M12 x 1.75	3/8	23	22	59_0,074	123.5	25

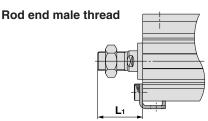
Note 1) For 125 to 200 strokes, strokes are available in 25 mm intervals.

Note 2) For calculation on the longitudinal dimension of intermediate strokes, refer to page 70.









FOOT														(mm)
Bore size (mm)	Α	В	L	L ₁	LD	LG	LH	LS	LT	LX	LY	LZ	Х	Υ
63	83.2	57	18	43.5	11	5	46	31	3.2	95	91.5	113	16.2	9
80	97.5	66	20	53.5	13	7	59	36	4.5	118	114	140	19.5	11
100	110.5	75.5	22	53.5	13	7	71	41.5	6	137	136	162	23	12.5
•														

Foot bracket material: Carbon steel Surface treatment: Nickel plated

^{*} For details about the rod end nut and accessory brackets, refer to page 19.

