

Dual Rod Cylinder Basic Type

Series CXS

ø6, ø10, ø15, ø20, ø25, ø32

How to Order

Thread type

Symbol	Type	Bore size
Nil	M thread	ø6 to ø20
	Rc 1/8	
TN	NPT 1/8	ø25, ø32
TF	G 1/8	

Bearing type

M	Slide bearing
L	Ball bushing bearing

Bore size/Stroke (mm)

Bore size	Standard stroke (mm)
6	10, 20, 30, 40, 50
10	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75
15, 20, 25, 32	10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 75, 80, 90, 100

Auto switch

Nil	Without auto switch (Built-in magnet)
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* For the applicable auto switch model, refer to the table below.

Number of auto switches

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

Made to Order
Refer to page 562 for details.

Example: CXS M 20 - 100 - Y7BW

Applicable Auto Switch/Refer to pages 1719 to 1827 for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model		Lead wire length (m) *			Pre-wired connector	Applicable load	
					DC	AC		Perpendicular	In-line	0.5 (Nil)	3 (L)	5 (Z)			
Solid state switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	Y69A	Y59A	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)		Y7PV		Y7P	●	●	○	○			
				2-wire		12 V		Y69B	Y59B	●	●	○	○		
	Diagnostic indication (2-color indication)			3-wire (NPN)	5 V, 12 V	Y7NWV		Y7NW	●	●	○	○	IC circuit		
				3-wire (PNP)		Y7PWV		Y7PW	●	●	○	○			
				2-wire		12 V		Y7BWV	Y7BW	●	●	○		○	
	Water resistant (2-color indication)			—	Y7BA	—		●	○	○	○	—			
Reed switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	—	Z76	●	●	—	—	IC circuit	—	
				2-wire	24 V	12 V	100 V	—	Z73	●	●	●	—	—	Relay, PLC
						100 V or less	—	Z80	●	●	—	—	IC circuit		

* Lead wire length symbols: 0.5 m Nil (Example) Y59A
 3 m L (Example) Y59AL
 5 m Z (Example) Y59AZ

* Solid state auto switches marked with "○" are produced upon receipt of order.

- Since there are other applicable auto switches than listed, refer to page 569 for details.
- For details about auto switches with pre-wired connector, refer to pages 1784 and 1785.
- Auto switches are shipped together (not assembled).

CX2

CXW

CXT

CXSJ

CXS

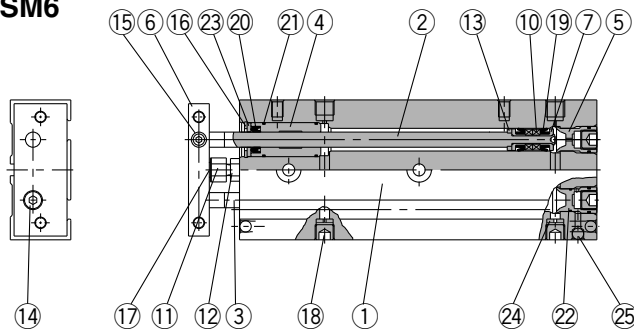
D-□

-X□

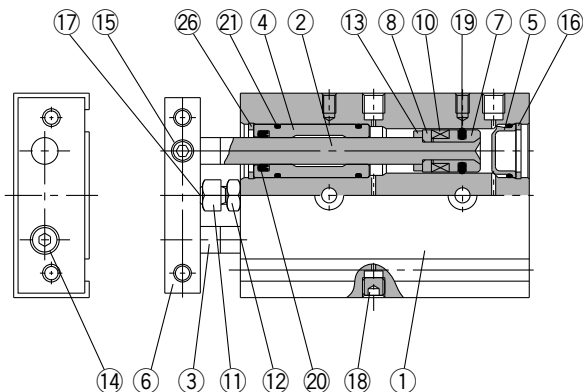
Individual
-X□

Construction: Slide Bearing

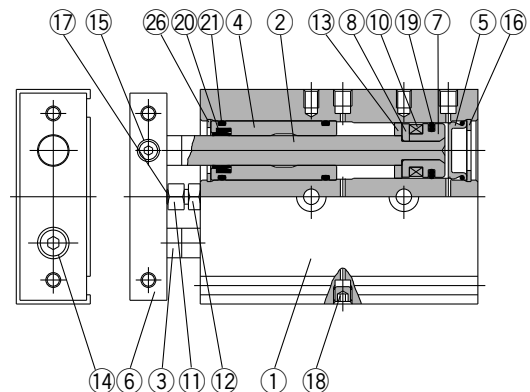
CXSM6



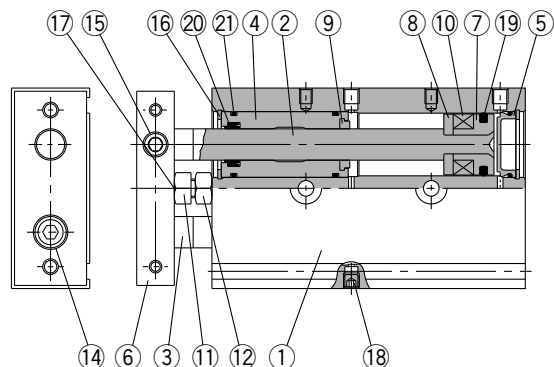
CXSM10



CXSM15



CXSM20 to 32



Component Parts

No.	Description	Material	Note
1	Housing	Aluminum alloy	Hard anodized
2	Piston rod A	Carbon steel ⁽¹⁾	Hard chrome plated
3	Piston rod B	Carbon steel ⁽¹⁾	Hard chrome plated
4	Rod cover	Aluminum bearing alloy	
5	Head cover	Special steel ⁽²⁾	
6	Plate	Aluminum alloy	Hard anodized
7	Piston A	Aluminum alloy	Chromated
8	Piston B	Aluminum alloy	Chromated
9	Bumper A	Polyurethane	
10	Magnet	—	
11	Bumper bolt	Carbon steel	Nickel plated
12	Hexagon nut	Carbon steel	Nickel plated
13	Bumper B	Polyurethane	
14	Hexagon socket head cap screw	Chromium steel	Nickel plated
15	Hexagon socket head set screw	Chromium steel	Nickel plated
16	Retaining ring	Special steel	Nickel plated



Note 1) Stainless steel for CXSM6.

Note 2) Anodized aluminum alloy for CXSM6.

Component Parts

No.	Description	Material	Note
17	Bumper	Polyurethane	
18	Plug	Chromium steel	Nickel plated
19	Piston seal	NBR	
20	Rod seal	NBR	
21	O-ring	NBR	
22	Head cover B	Aluminum alloy	Nickel plated
23	Seal retainer	Aluminum alloy	
24	Port spacer	Aluminum alloy	
25	Steel ball	Special steel	Hard chrome plated
26	Retaining ring B	Special steel	Nickel plated

Replacement Parts/Seal Kit

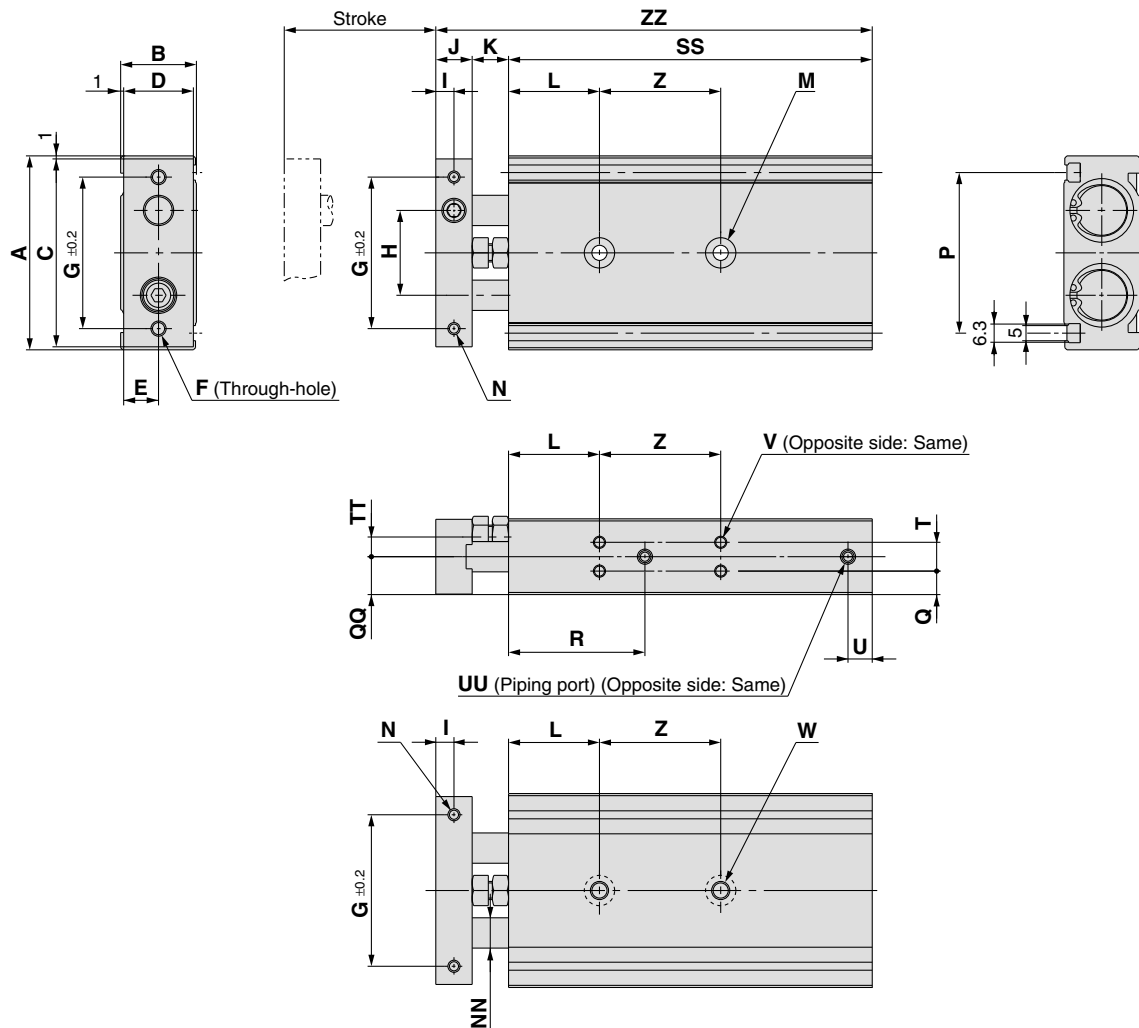
Bore size (mm)	Kit no.	Contents
6	CXSM 6-PS	Set of nos. above 19, 20 and 21
10	CXSM 10 A PS	
15	CXSM 15-PS	
20	CXSM 20-PS	
25	CXSM 25-PS	
32	CXSM 32-PS	

* Seal kit includes 19, 20 and 21. Order the seal kit, based on each bore size.

* Since the seal kit does not include a grease pack, order it separately.

Grease pack part no.: GR-S-010 (10 g)

Dimensions: Ø20, Ø25, Ø32



(mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	NN	P
CXS□20	64	25	62	23	11.5	2 x M5 x 0.8	50	28	6	12	12	30	2 x ø5.5 through 2 x ø9.5 counterbore depth 5.3	2 x M4 x 0.7 thread depth 6	ø10	53
CXS□25	80	30	78	28	14	2 x M6 x 1.0	60	35	6	12	12	30	2 x ø6.9 through 2 x ø11 counterbore depth 6.3	2 x M5 x 0.8 thread depth 7.5	ø12	64
CXS□32	98	38	96	36	18	2 x M6 x 1.0	75	44	8	16	14	30	2 x ø6.9 through 2 x ø11 counterbore depth 6.3	2 x M5 x 0.8 thread depth 8	ø16	76

Model	Q	QQ	R	T	TT	U	UU	V	W
CXS□20	7.75	12.5	45	9.5	6.5	8	4 x M5 x 0.8 thread depth 4.5	8 x M4 x 0.7 thread depth 5.5	2 x M6 x 1.0 thread depth 10
CXS□25	8.5	15	46	13	9	9	4 x Rc 1/8 thread depth 6.5	8 x M5 x 0.8 thread depth 7.5	2 x M8 x 1.25 thread depth 12
CXS□32	9	19	56	20	11.5	10	4 x Rc 1/8 thread depth 6.5	8 x M5 x 0.8 thread depth 7.5	2 x M8 x 1.25 thread depth 12

Dimensions by Stroke

Stroke Symbol		SS																Z			ZZ															
		10	15	20	25	30	35	40	45	50	60	70	75	80	90	100	10, 15, 20, 25	30, 35, 40, 45, 50	60, 70, 75, 80, 90, 100	10	15	20	25	30	35	40	45	50	60	70	75	80	90	100		
Model																																				
CXS	20	80	85	90	95	100	105	110	115	120	130	140	145	150	160	170	30	40	60	104	109	114	119	124	129	134	139	144	154	164	169	174	184	194		
CXS	25	82	87	92	97	102	107	112	117	122	132	142	147	152	162	172	30	40	60	106	111	116	121	126	131	136	141	146	156	166	171	176	186	196		
CXS	32	92	97	102	107	112	117	122	127	132	142	152	157	162	172	182	40	50	70	122	127	132	137	142	147	152	157	162	172	182	187	192	202	212		