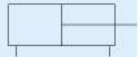


Compact Cylinder

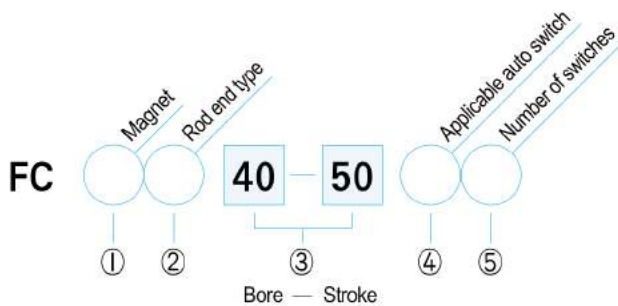
(Series FC)

Bore size ϕ 10~ ϕ 100

KS Symbol



How to order



① Magnet

Blank	Built-in magnet(standard)
N	None

② Rod end type

Blank	Female screw(standard)
M	Male screw

③ Bore size — Standard stroke (mm)

ϕ 10	5, 10, 15, 20, 25, 30
ϕ 16	5, 10, 15, 20, 25, 30
ϕ 20	5, 10, 15, 20, 25, 30
ϕ 25	35, 40, 45, 50
ϕ 32	5, 10, 15, 20, 25, 30
ϕ 40	35, 40, 45, 50, 75, 100
ϕ 50	10, 15, 20, 25, 30,
ϕ 63	35, 40, 45, 50, 75, 100
ϕ 80	
ϕ 100	

④ Applicable auto switch

Blank	None
A20	A - 20 type(with indicator lamp)
A25	A - 25 type(without indicator lamp)

⑤ Number of switches

1	1 pc
2	2 pcs
n	n pcs

- Built-in magnet (standard)
- Great versatility of auto switch positioning
- No lubrication required

Specifications

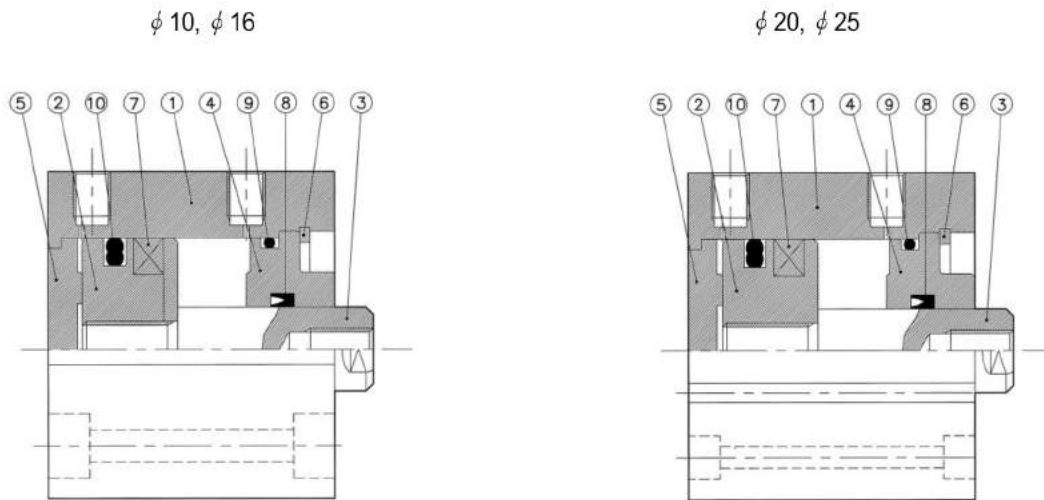
Acting	Double acting single rod
Fluid	Air
Proof pressure	10.5 kgf/cm ² (1050kPa)
Max. operating pressure	7.0 kgf/cm ² (700kPa)
Min. operating pressure	0.5 kgf/cm ² (50kPa)
Ambient and fluid temperature	-10℃ ~ +70℃
Cushion	None
Lube	None(None-lube)
Piston speed	50~500 mm/s
Thread tolerance	KS 2 class
Stroke tolerance	+1.0 0

Weight table

(Female screw standard) (gf)

Bore size(mm)	Basic weight	Additional weight for each 5 of stroke
10	30	7
16	42	8
20	67	11
25	98	14
32	143	17
40	238	23
50	394	34
63	673	45
80	1235	68
100	2090	90

Construction



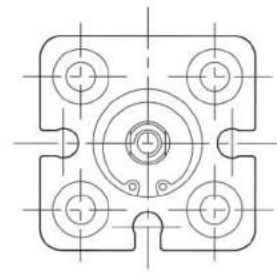
Parts List

No.	Description	Material	Note
①	Body	Al	
②	Piston	Al	
③	Piston Rod	SUS	$\phi 10, \phi 16$
		SM45C	$\phi 20, \phi 25$
④	Rod Cover	Al	
⑤	End Cover	Al	
⑥	C Ring	-	
⑦	Magnet	-	
⑧	Rod Packing	NBR	
⑨	O Ring	NBR	
⑩	Piston Packing	NBR	

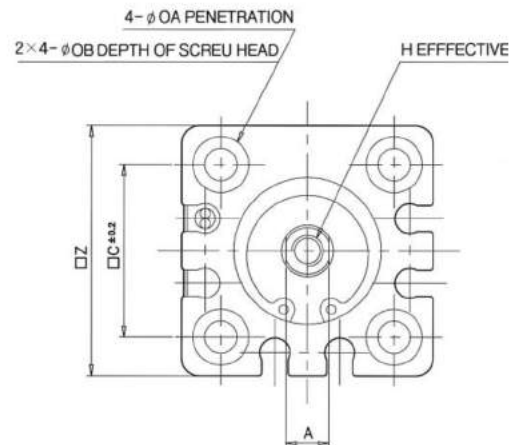
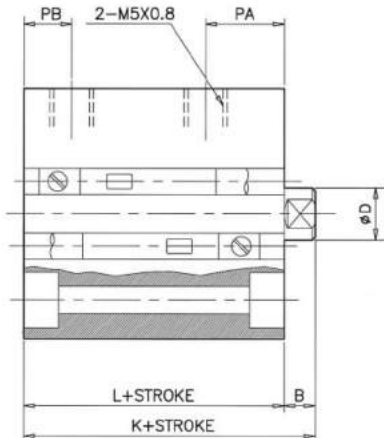
Packing List

Description	Material	Bore size			
		$\phi 10$	$\phi 16$	$\phi 20$	$\phi 25$
⑧ Rod Packing	NBR	DYR - 5K	DYR - 6K	DYR - 8K	DYR-10SK
⑨ O Ring	NBR	S - 10	S - 12.5	S - 16	S - 22
⑩ Piston Packing	NBR	COP - 10	COP - 16	COP - 20	COP - 25

$\phi 10$

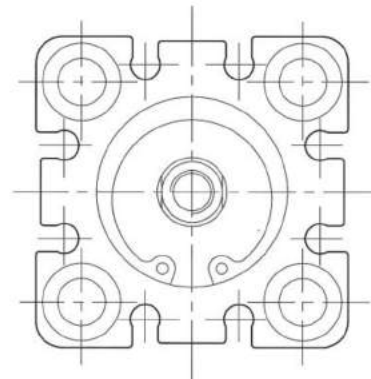
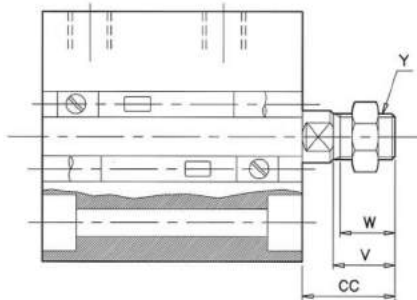


$\phi 16$



Rod End Male Screw

$\phi 20, \phi 25$



Bore size	CC	W	V	Y
$\phi 10$	14	9	10.5	M4×0.7
$\phi 16$	14	9	10.5	M5×0.8
$\phi 20$	16.5	10	12	M6×1.0
$\phi 25$	18.5	12	14	M8×1.25

Bore size	A	B	□C	D	H	K	L	M	ϕ OA	ϕ OB	PA	PB	RB	□Z
$\phi 10$	4	3.5	15.5	5	M2.6×0.45	28	24.5	5	3.5	6.5	11	5.5	4	25
$\phi 16$	5	3.5	20	6	M3×0.5	29.5	26	6	3.5	6.5	9.5	5.5	4	29
$\phi 20$	7	4.5	25.5	8	M4×0.7	33	28.5	8	5.5	9	11	5.5	5.5	36
$\phi 25$	8	4.5	28	10	M5×0.8	35.5	31	8	5.5	9	11.5	5.5	5.5	40

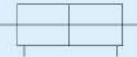
Double Rod

Compact Cylinder

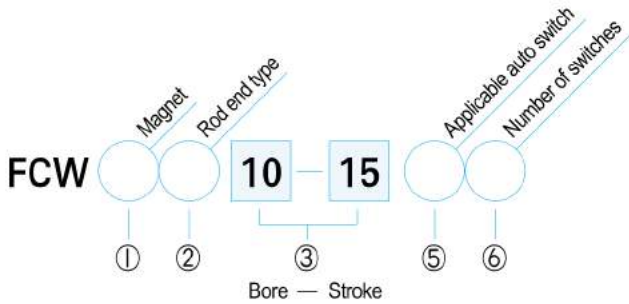
(Series FCW)

Bore size $\phi 10 \sim \phi 100$

KS Symbol



How to order



① Magnet

Blank	Built-in magnet(standard)
N	None

② Rod end type

Blank	Female screw(standard)
M	Male screw

③ Bore size — Standard stroke (mm)

Bore size (mm)	Standard stroke (mm)
$\phi 10$	5, 10, 15, 20, 25, 30
$\phi 16$	
$\phi 20$	5, 10, 15, 20, 25, 30
$\phi 25$	
$\phi 32$	
$\phi 40$	
$\phi 50$	10, 15, 20, 25, 30, 35, 40, 45, 50
$\phi 63$	
$\phi 80$	
$\phi 100$	

⑤ Applicable auto switch

Blank	None
A20	A - 20 type(with indicator lamp)
A25	A - 25 type(without indicator lamp)

⑥ Number of switches

1	1 pc
2	2 pcs
n	n pcs

- Built-in magnet (standard)
- Great versatility of auto switch positioning
- No lubrication required

Specifications

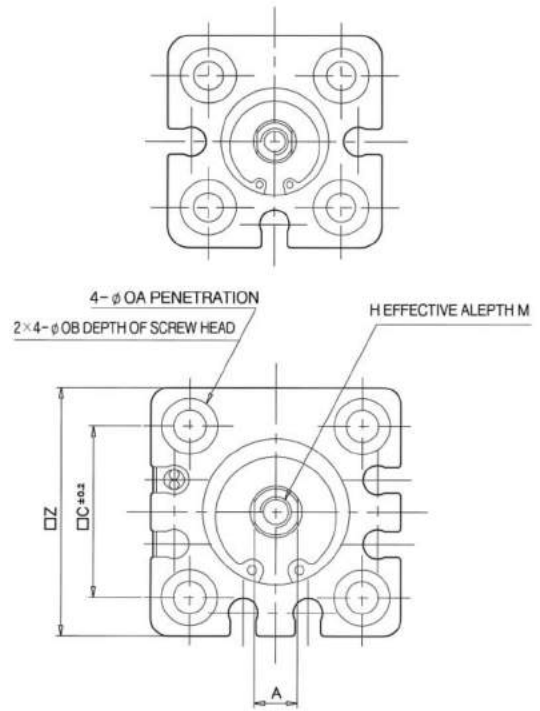
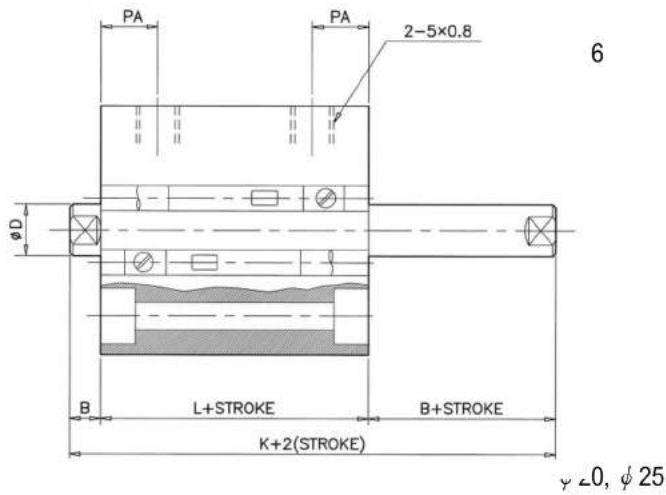
Acting	Double acting single rod
Fluid	Air
Proof pressure	10.5 kgf/cm ² (1050kPa)
Max. operating pressure	7.0 kgf/cm ² (700kPa)
Min. operating pressure	0.5 kgf/cm ² (50kPa)
Ambient and fluid temperature	-10℃ ~ +70℃
Cushion	Rubber cushion(Standard)
Lube	None (None-lube)
Piston speed	50~500 mm/s
Thread tolerance	KS 2 class
Stroke tolerance	+1.0 0

Weight table

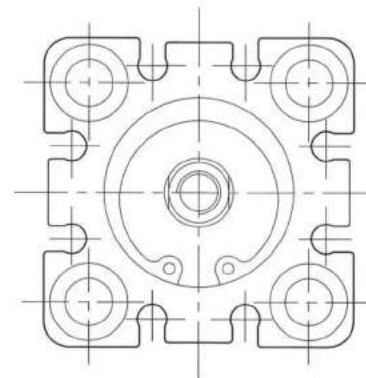
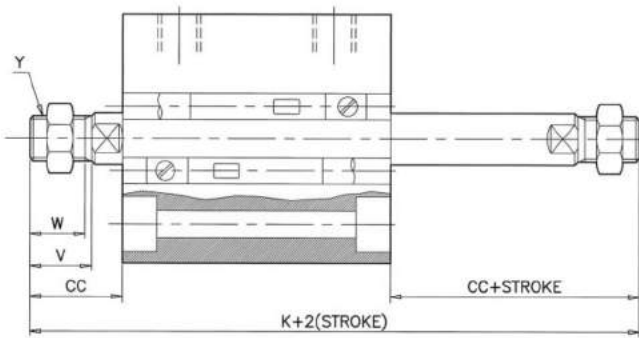
(Female screw standard) (gf)

Bore size(mm)	Basic weight	Additional weight for each 5 of stroke
10	34	8
16	58	9
20	83	13
25	122	17
32	183	22
40	315	31
50	510	47
63	862	58
80	1553	87
100	2620	113

$\phi 10$



Rod End Male Screw



Bore size	CC	K	W	V	Y
$\phi 10$	14	60	9	10.5	M4 \times 0.7
$\phi 16$	14	60	9	10.5	M5 \times 0.8
$\phi 20$	16.5	68	10	12	M6 \times 1.0
$\phi 25$	18.5	77	12	14	M8 \times 1.25

Bore size	A	B	C	D	H	K	L	M	ϕ OA	ϕ OB	PA	RB	Z
$\phi 10$	4	3.5	15.5	5	M2.6 \times 0.45	39	32	5	3.5	6.5	11	4	25
$\phi 16$	5	3.5	20	6	M3 \times 0.5	39	32	6	3.5	6.5	9.5	4	29
$\phi 20$	7	4.5	25.5	8	M4 \times 0.7	44	35	8	5.5	9	11	5.5	36
$\phi 25$	8	4.5	28	10	M5 \times 0.8	49	40	8	5.5	9	11.5	5.5	40