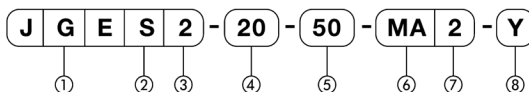


# J□E Series

Air cylinder/Front cover mounted type

∅20, ∅25, ∅32, ∅40

## Ordering Instructions



### ① Magnet

G : Cylinder with switch available (with built-in magnet)

### ② Mounting

S: Bottom

F: Front

### ③ Action

2: Double-acting, single rod

### ④ Bore (mm)

20: ∅20

25: ∅25

32: ∅32

40: ∅40

### ⑤ Stroke (mm)

Refer to Standard Stroke Table

### ⑥ Sensor switch type

No symbol	No switch	
MA	MA-1 (AC110V, DC24V)	M type Reed switch
MB	MD-1 (DC24V)	
MC	MD-3 (DC5, 6V)	
MD	MR (AC, DC5 ~ 110V)	
ME	MA-2L (AC110V)	
MF	MA-2H (AC220V)	M type Proximity switch
MG	MT-3 (DC5 ~ 30V)	
MH	MT-3U (DC5 ~ 30V)	
MJ	MT-2 (DC24V)	
MK	MT-2U (DC24V)	

### ⑦ Number of switches

No symbol: No switch

2 : With 2 units

1 : With 1 unit

### ⑧ Accessories

No symbol : Rod end nut

Y : With rod end clevis

I : With rod end eye

(note) Y : Provided with pin

## Model No. of Packing

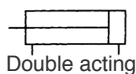
Bore (mm)	Packing
∅20	J20-PS
∅25	J25-PS
∅32	J32-PS
∅40	J40-PS

## Model No. of Sensor Switch Mounting Bracket

Bore (mm)	M type sensor switch
∅20	J20-MJ
∅25	J25-MJ
∅32	J32-MJ
∅40	J40-MJ



## JIS Label



The square front cap of the cylinder can be directly mounted in an ideal position. Using this cylinder can save much space and increase mounting strength and precision.

Value shown in this catalog is shown in SI unit. However, value within this output table is in generic unit. Use the following formula to convert to SI unit :

$$\text{Pressure } Y \text{ (MPa)} = X \text{ (kgf/cm}^2\text{)} \times 9.80665 \times 10^{-2}$$

$$\text{Force } Y \text{ (N)} = X \text{ (kgf)} \times 9.80665$$

## Specifications

Action	Unit	Double-acting
Fluid		Non-lubricated air/Lubricated air
Pressure range	MPa(kgf/cm <sup>2</sup> )	0.1~0.7(1.0~7.1)
Temperature range	°C	5~60
Piston speed range	mm/s	50~500
Cushion		Built-in damper
Piston stroke allowance	mm	+1.0 0
Mounting		Bottom, Front

## Standard stroke

(Unit: mm)

Bore	Standard stroke	Max. stroke
Ø20	15, 25, 50, 75, 100, 125, 150	500
Ø25	25, 50, 75, 100, 125, 150	
Ø32	25, 50, 75, 100, 125, 150, 200, 250, 300	
Ø40	50, 75, 100, 125, 150, 200, 250, 300	

## Accessories

	Name	Bottom	Front
Standard	Standard nut	○	○
Optional	With rod end clevis	○	○
	With rod end eye	○	○

**Model with switch****M type reed switch****Lead with wire**

Model No.	Rated voltage (V)	Rated current (mA)	Pilot lamp (Lights up at ON)	Application
MA-1	AC110	5~45	○	Relay PLC
	DC24	5~45		
MD-1	DC24	25~65	○	Relay
MD-3	DC5, 6	Max.50 (Inductive load) Max.300 (Resistive load)	○	IC circuit
MR	AC 5~110 DC	Max.50 (Inductive load) Max.300 (Resistive load)	No indicator	Relay PLC
MA-2L	AC110	5~150	○	Relay
MA-2H	AC220	5~150	○	Relay

**M type proximity switch****Lead with wire**

Model No.	Rated voltage (V)	Rated current range (mA)	Pilot lamp (Lights up at CN)	Application
MT-2 MT-2U	DC24 (DC10~30)	5~100	○	Relay PLC
MT-3 MT-3U	DC5~30	5~200	○	Relay PLC IC circuit

**Minimum stroke with M type switch (Unit: mm)**

Bore	Number of switches		
	With 2 units (on the same surface)	With 2 units (on the different surfaces)	With 1 unit
Ø20	50	15	5
Ø25			
Ø32			
Ø40			

(Note) The MA-2L is the same as the MA-1 except that MA-2L is also equipped with protective circuit SS-2L.

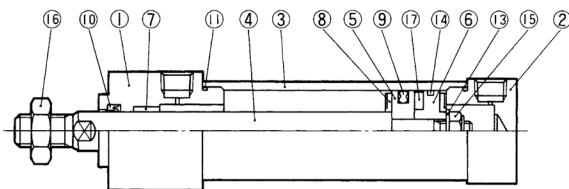
The MA-2H is the same as the MA-1 except that MA-2H is also equipped with protective circuit SS-2H.

**Sensor switch fixed position**

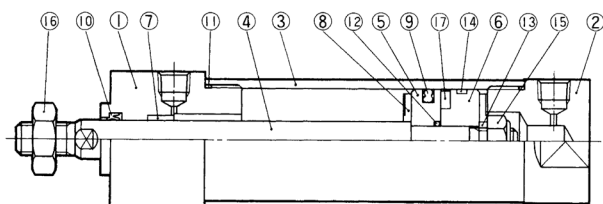
Sensor switch fixed position is the same as that of J Series Standard Type.

## Construction

Ø20, Ø25



Ø32, Ø40



## Parts List

No.	Name	No.	Name	No.	Name
1	Front cover	7	Bearing	13	Return spring
2	End cover	8	Damper	14	Wear ring
3	Outer tube	9	Piston packing	15	Standard nut
4	Piston rod	10	Rod packing	16	Rod end nut
5	Piston A	11	O-ring for cover	17	Magnet
6	Piston B	12	End cover gasket		

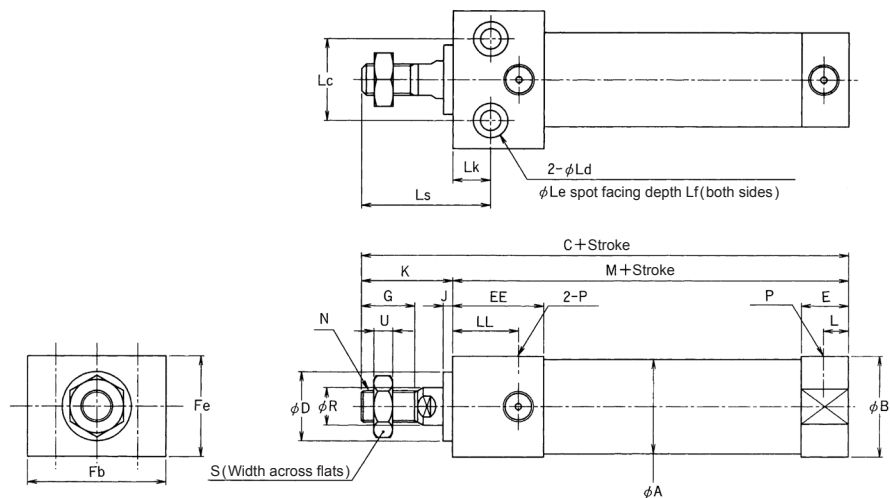
## Packing list

Bore (mm)	9. Piston packing		10. Rod packing		11. O-ring for cover	
	Model No.	Amount	Model No.	Amount	Model No.	Amount
Ø20	PSD-20	1	PDU-10Z	1	SO-015-21	2
Ø25	PSD-25	1	PDU-12Z	1	SO-015-25	2
Ø32	PSD-32	1	PDU-14Z	1	SO-015-29	2
Ø40	PSD-40	1	PDU-16Z	1	SO-015-30	2

(Note) Packing repair and assembly kits are also available for purchase.

Subface mounted (S)/JGES2

(Unit: mm)

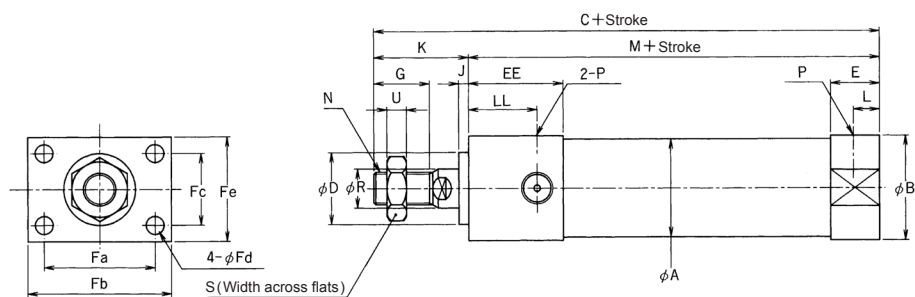


Bore	A	B	C	D	E	EE	G	J	K	L	LL	M	N	P	R	S	U
Ø20	25	28	98	20	15	25	12.5	3	26	8	18	72	M8×1.25	Rc½	10	13	5
Ø25	30	32	105	22	15	29	15.5	3	29	8	21	76	M10×1.25	Rc½	12	17	6
Ø32	37.6	38	127	22	20	29	15.5	3	29	11	21	98	M10×1.25	Rc½	12	17	6
Ø40	46	48	149	30	26	37	21	3	35	13	24	114	M14×1.5	Rc¾	16	22	8

Bore	Fb	Fe	Lc	Ld	Le	Lf	Lk	Ls
Ø20	40	30	22	6.5	11	7.5	9	35
Ø25	44	32	26	6.5	11	7.5	12	41
Ø32	56	38	34	8.5	14	10	12	41
Ø40	70	48	46	11	17.5	12.5	15	50

## Front mounted (S)/JGEF2

(Unit: mm)



Bore	A	B	C	D	E	EE	G	J	K	L	LL	M	N	P	R	S	U
Ø20	25	28	98	20	15	25	12.5	3	26	8	18	72	M8×1.25	Rc $\frac{1}{8}$	10	13	5
Ø25	30	32	105	22	15	29	15.5	3	29	8	21	76	M10×1.25	Rc $\frac{1}{8}$	12	17	6
Ø32	37.6	38	127	22	20	29	15.5	3	29	11	21	98	M10×1.25	Rc $\frac{1}{8}$	12	17	6
Ø40	46	48	149	30	26	37	21	3	35	13	24	114	M14×1.5	Rc $\frac{1}{4}$	16	22	8

Bore	Fa	Fb	Fc	Fd	Fe
Ø20	30	40	20	5.5	30
Ø25	34	44	22	5.5	32
Ø32	44	56	26	6.5	38
Ø40	54	70	32	9	48