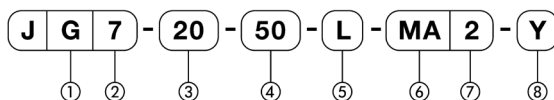


J□7 Series

Air cylinder/Double rod type

∅20, ∅25, ∅32, ∅40

Ordering Instructions



① Magnet

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

② Action

7: Double-acting, double rod

③ Bore (mm)

20: ∅20

25: ∅25

32: ∅32

40: ∅40

④ Stroke (mm)

Refer to Standard Stroke Table

⑤ Mounting

N: Standard type

L: Axial foot

A: Mounting plate

T: Center trunnion

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 mark: Rod end nut

Y : With rod end clevis

I : With rod end eye

YY : With two rod end clevis

II : With two rod end eye

Model No. of Packing

Bore (mm)	Packing
∅20	J720-PS
∅25	J725-PS
∅32	J732-PS
∅40	J740-PS

Model No. of Sensor Switch Mounting Bracket

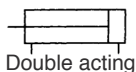
Bore (mm)	M type sensor switch
∅20	J20-MJ
∅25	J25-MJ
∅32	J32-MJ
∅40	J40-MJ

Model No. of Mounting Bracket

Bore (mm)	∅20	∅25	∅32	∅40
Axial foot mounting bracket	J20-L	J25-L	J32-L	J40-L
Flange mounting bracket	J20-A	J25-A	J32-A	J40-A
Trunnion mount bracket	J20-T	J25-T	J32-T	J40-T



JIS Label



Double acting

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 ²)	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		Standard type, Axial foot, Mounting plate, Center trunnion

Standard stroke

(Unit: mm)

Bore	Standard stroke	Max. stroke
∅20	15, 25, 50, 75, 100, 125, 150	500
∅25	25, 50, 75, 100, 125, 150	
∅32	25, 50, 75, 100, 125, 150, 200, 250, 300	
∅40	50, 75, 100, 125, 150, 200, 250, 300	

Accessories

	Name	Standard type	Axial foot	Mounting plate	Center trunnion
Standard	Standard nut	○	○	○	—
	Rod end 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 DC 5~110	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)

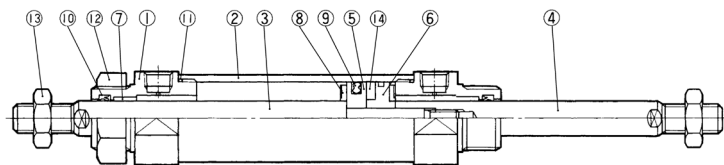
Bore	Number of switches		
	With 2 units (on the same surface)	With 2 units (on the different surfaces)	With 1 unit
∅20	50	15	5
∅25			
∅32			
∅40			

(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**Parts List**

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

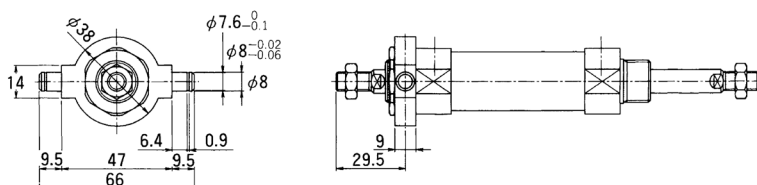
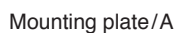
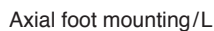
Packing list

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

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

(Unit: mm)

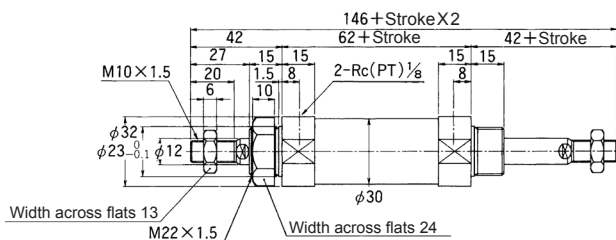
J Series



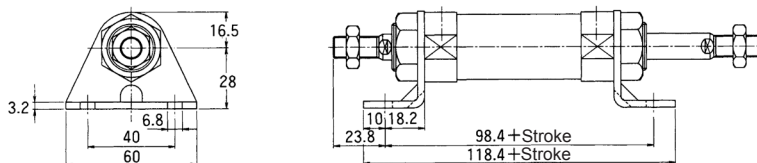
Double-acting $\varnothing 25/JG7-25$

(Unit: mm)

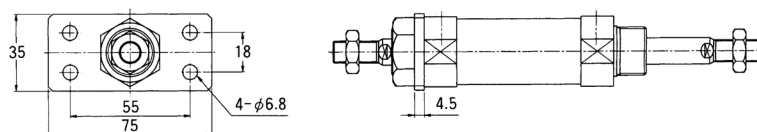
Standard type/N



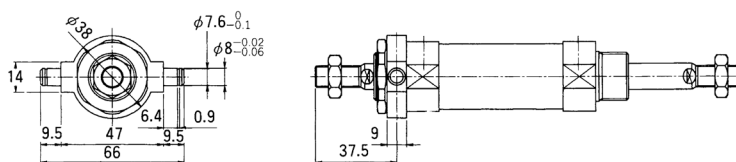
Axial foot mounting/L



Mounting plate/A



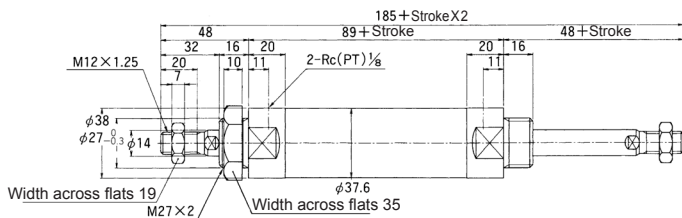
Center trunnion mounting/T



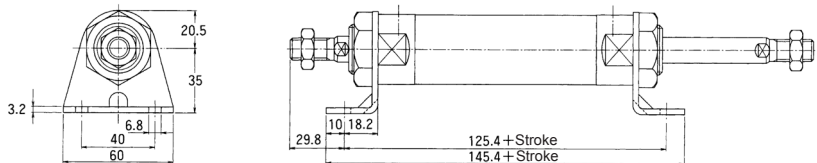
Double-acting $\varnothing 32$ /JG7-32

(Unit: mm)

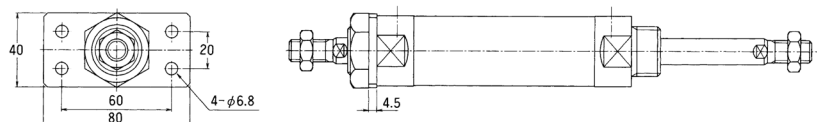
Standard type/N



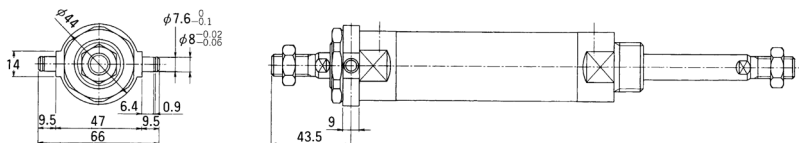
Axial foot mounting/L



Mounting plate/A



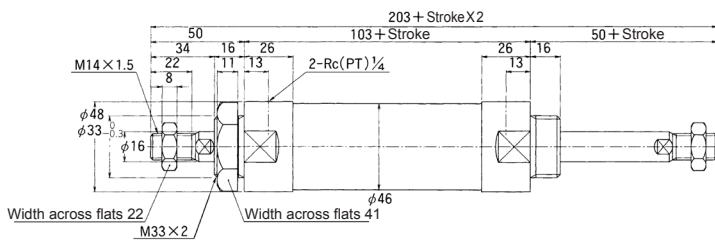
Center trunnion mounting/T



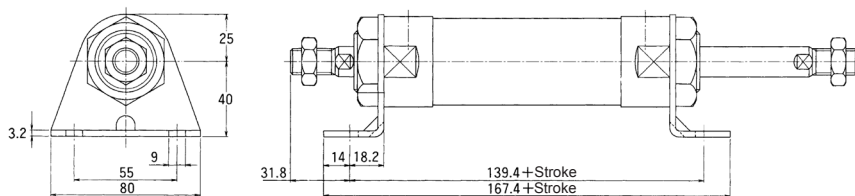
Double-acting Ø40/JG7-40

(Unit: mm)

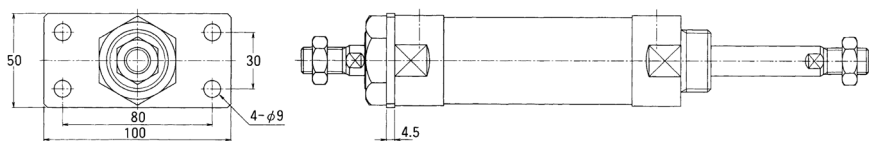
Standard type/N



Axial foot mounting/L



Mounting plate/A



Center trunnion mounting/T

