MCJQ series COMPACT CYLINDERS





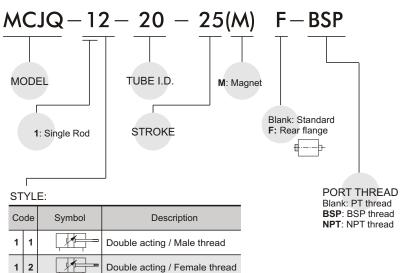
Double acting-Table for standard stroke

| Tube I.D. | Standard stroke | Long stroke (mm) |
|------------------|--------------------|--------------------------------|
| φ 12,16 | 5,10,15,20,25,30 | 35, 40, 45, 50, 75,100 |
| φ20 | 5,10,15,20,25, | 75,100,125,150,175,200 |
| φ25 | 30,35,40,45,50 | 75,100,125,150,175,200,250,300 |
| φ 32 | 5,10,15,20,25,30, | 125,150,175,200,250,300 |
| ψ 32 | 35,40,45,50,75,100 | 123,130,173,200,230,300 |
| Tube I.D | . S | tandard stroke (mm) |
| φ40 ~ 100 | 5,10,15,2 | 0,25,30,35,40,45,50,75,100 |

• Stroke out of specification is also available.

• Please consult us if stroke out of specification.

Order example:



Features:

- Ultra-compact,lightweight,space-saving type.
- Available with a comprehensive selection of bore size (ϕ 12mm ~ ϕ 100mm) for the various needs.
- The highly accurate, air-driven push-pull work.
- Ideal for machine designs with small space requirements sensor switches will not protrude from switch mounting groove.
- Sensor switch mounting allows for flexible designing requirements 3 faces on ϕ 12 & ϕ 16 ,and all 4 faces including port side on ϕ 20 $\sim \phi$ 100.

Specification:

| Model | | | MCJQ | | |
|--------------------------|---------|----------|-----------|---------------------|----------|
| Acting type | | Do | uble act | ing | |
| Tube I.D.(mm) | 12, 16 | 20, 25 | 32, 40 | 50, 63 | 80, 100 |
| Port size | M5> | < 0.8 | PT 1/8 | PT 1/4 | PT 3/8 |
| Medium | | | Air | | |
| Operating pressure range | 0.7~9.9 | | 0.5~9.9 | kgf/cm ² | |
| Proof pressure | | | 15 kgf/cm | 2 | |
| Ambient temperature | | −5°C~+ | 60℃ (No | freezing) | |
| Sensor switch | F | RCE, RCE | 1 | RCB, RC | CE, RCE1 |

Mounting accessories:



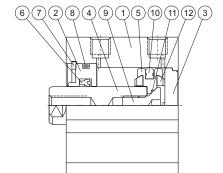
MOUNTING TYPE

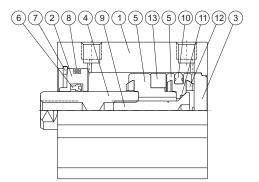
| LB | |
|-----|------------|
| СВ | |
| FAC | + |
| FBC | |
| RF |] # |
| | |



Double acting

Double acting (with magnet)





Seal kit

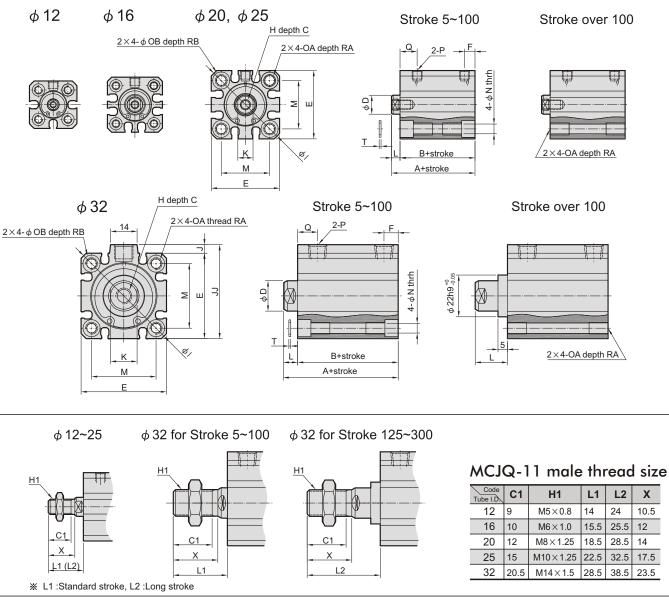
| | Rod packing | Piston packing | Cover ring | Piston gasket |
|-------------|-------------|----------------|------------|----------------|
| Acting type | | Double | action | • |
| Qty. | 1 | 1 | 2 | 1 |
| 12 | KSYR-6 | OPA-12 | S-12 | d4×w1 |
| 16 | KSYR-8 | OPA-16 | S-14 | $d4 \times w1$ |
| 20 | KSYR-10A | OPA-20 | S-18 | d6×w1 |
| 25 | KSYR-12 | OPA-25 | S-22.4 | d8×w1 |
| 32 | KSYR-16 | OPA-32 | S-28 | S-9 |
| 40 | KSYR-16 | OPA-40 | S-36 | S-10 |
| 50 | KSYR-20 | OPA-50 | S-46 | S-16 |
| 63 | KSYR-20 | OPA-63 | S-60 | S-16 |
| 80 | ORA-25 | OPA-80 | S-75 | d20×w1 |
| 100 | ORA-30 | OPA-100 | S-95 | S-26 |

Material

| No. | Tube I.D. Part name | 12~32 | 40~100 | Note |
|-----|------------------------|------------------------|----------------|---------------|
| 1 | Body | Aluminu | ım alloy | Hard anodized |
| 2 | Rod cover | Aluminum bearing alloy | Aluminum alloy | Anodized |
| 3 | End cover | Aluminu | ım alloy | Anodized |
| 4 | Piston rod | Stainless steel | Carbor steel | |
| 5 | Piston | Aluminu | ım alloy | Anodized |
| 6 | Rod packing | NE | 3R | |
| 7 | Snap ring | Stainless steel | Spring steel | |
| 8 | Cover ring | NE | BR | |
| 9 | Piston bolt | Stainless steel | SCM | |
| 10 | Piston packing | NE | 3R | |
| 11 | Piston gasket | NE | 3R | |
| 12 | Cushion packing | NE | 3R | |
| 13 | Magnet | Pla | stic | |



MCJQ Dimensions $\phi 12 \sim \phi 32$ COMPACT CYLINDERS



φ 12**~**25

| Code | | | Sta | anda | ard st | roke | | | | l | ong | stro | ke | | | | | | | | | | | | | | | | |
|-----------|--------|------|---------|------|--------|------|------|-----|-----|--------|------|------|-----|----------|----|----|----|-----------------|----|----|------|-----|-------------------|-----|--------------|-----|----|----|-----|
| | Stroke | Wi | thout r | nagn | et | | Mag | net | | Stroke | • | в | F | | С | D | Е | н | Т | κ | М | Ν | OA | ОВ | Р | Q | RA | RB | Т |
| Tube I.D. | range | Α | В | F | L | Α | В | F | L | range | A | Р | Г | L | | | | | | | | | | | | | | | |
| 12 | 5~30 | 20.5 | 17 | 5 | 3.5 | 25.5 | 22 | 5 | 3.5 | 35~100 | 45.5 | 32 | 7.5 | 13.5 | 6 | 6 | 25 | M3×0.5 | 32 | 5 | 15.5 | 3.5 | M4 	imes 0.7 | 6.5 | M5×0.8 | 7.5 | 7 | 4 | 0.5 |
| 16 | 5~30 | 20.5 | 17 | 5 | 3.5 | 25.5 | 22 | 5 | 3.5 | 35~100 | 45.5 | 32 | 7.5 | 13.5 | 8 | 8 | 29 | M4×0.7 | 38 | 6 | 20 | 3.5 | M4 	imes 0.7 | 6.5 | M5×0.8 | 7.5 | 7 | 4 | 0.5 |
| 20 | 5~50 | 24 | 19.5 | 5.5 | 4.5 | 34 | 29.5 | 5.5 | 4.5 | 75~200 | 55.5 | 41 | 9 | 14.5 | 7 | 10 | 36 | M5×0.8 | 47 | 8 | 25.5 | 5.4 | M6 	imes 1.0 | 9 | M5 	imes 0.8 | 9 | 10 | 7 | 1 |
| 25 | 5~50 | 27.5 | 22.5 | 5.5 | 5 | 37.5 | 32.5 | 5.5 | 5 | 75~300 | 59 | 44 | 11 | 15 | 12 | 12 | 40 | $M6 \times 1.0$ | 52 | 10 | 28 | 5.4 | $M6\!\times\!1.0$ | 9 | M5 	imes 0.8 | 11 | 10 | 7 | 1 |

φ32

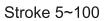
| Code | | | S | tand | ard s | stroke | e | | | | Long | stroke | • | | | | | | | | | | | | | | | | | |
|-----------|--------|---------|--------|------|-------|--------|---|------|---------|------|------|--------|----|------|---------------|----|----|----|-------------|----|-----|------|----|----|-----|----------|----|----|----|---|
| 1 | Stroke | Without | magnet | Ма | gnet | E | | Q | Stroke | • | в | E | | | Р | С | D | Е | н | Т | J | JJ | κ | м | N | OA | ΟВ | RA | RB | Т |
| Tube I.D. | range | Α | В | Α | В | | L | Q | range | A | P | Г | - | | | | | | | | | | | | | | | | | |
| 32 | 5~50 | 30 | 23 | 40 | 33 | 7.5 | 7 | 10.5 | 125~300 | 62.5 | 15 5 | 12.5 | 17 | 12.5 | PT1/8 | 13 | 16 | 15 | M8×1.25 | 60 | 4 5 | 10.5 | 14 | 24 | 5 5 | | 0 | 10 | 7 | 1 |
| 32 | 75,100 | 40 | 33 | 40 | 33 | 7.5 | 7 | 10.5 | 125~300 | 02.5 | 45.5 | 12.5 | 17 | 12.5 | (※1) | 13 | 10 | 45 | 1010 × 1.25 | 00 | 4.5 | 49.5 | 14 | 34 | 5.5 | 10 × 1.0 | 9 | 10 | 1 | |

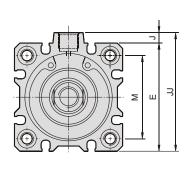
%1: Without magnet with stroke=5mm, P=M5 \times 0.8 ${\scriptstyle \times}$ Q=11.5 ${\scriptstyle \times}$ F=5.5

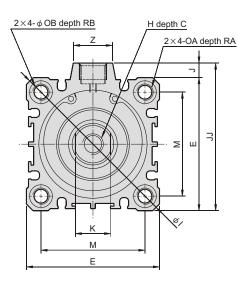


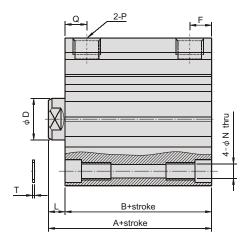


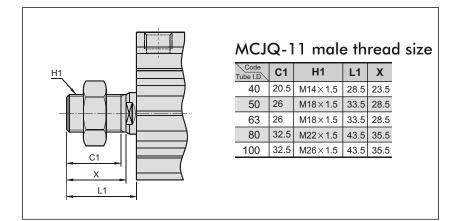
φ 50~100











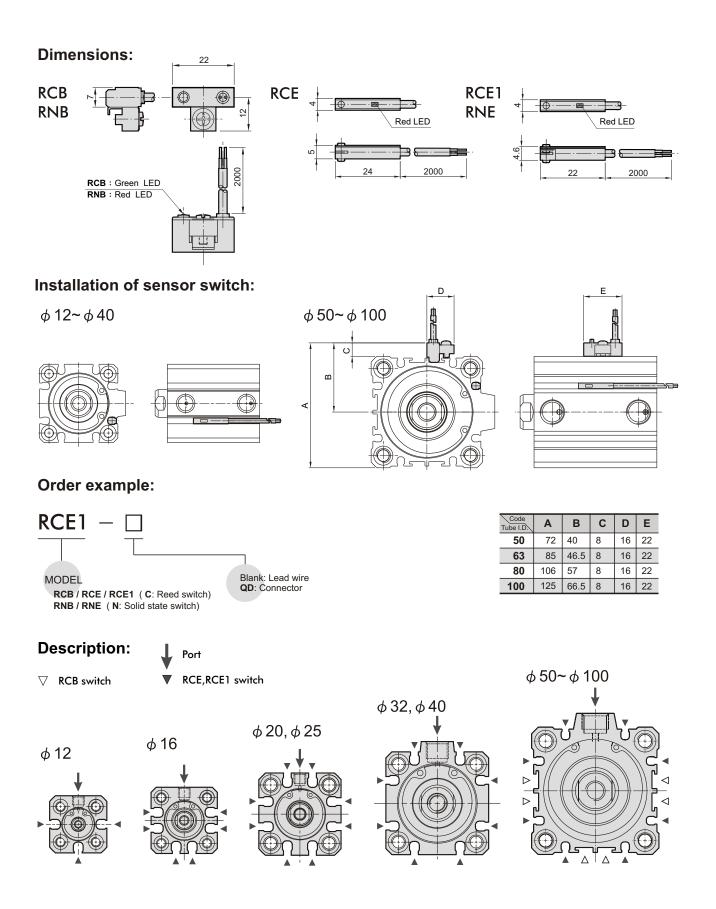
| Code | Stroke | Without | magnet | Ма | gnet | с | D | Е | F | н | | | IJ | к | L | м | N | OA | ов | Р | Q | D۸ | RB | т | 7 |
|-----------|--------|---------|--------|------|------|----|----|-----|------|-------------|-----|-----|-------|----|----|-----|-----|-------------|------|--------|------|-----|------|---|----|
| Tube I.D. | range | Α | В | Α | В | C | | E | F | п | • | J | 33 | n | - | IVI | | 0A | ОВ | Г | Q | RA. | КD | • | 2 |
| 40 | 5~50 | 36.5 | 29.5 | 16 5 | 39.5 | 12 | 16 | 52 | 8 | M8×1.25 | 70 | 5 | 57 | 14 | 7 | 40 | 5.5 | M6×1.0 | 9 | PT 1/8 | 11 | 10 | 7 | 1 | 14 |
| 40 | 75,100 | 46.5 | 39.5 | 40.5 | 39.5 | 15 | 10 | 52 | 0 | 10 ~ 1.25 | 70 | 5 | 57 | 14 | ' | 40 | 5.5 | | 9 | FT 1/0 | 11 | 10 | ' | ' | 14 |
| 50 | 5~50 | 38.5 | 30.5 | 18 5 | 40.5 | 15 | 20 | 64 | 10.5 | M10×1.5 | 86 | 7 | 71 | 17 | Q | 50 | 6.6 | M8×1.25 | 11 | PT 1/4 | 10.5 | 14 | 8 | 1 | 19 |
| 50 | 75,100 | 48.5 | 40.5 | 40.5 | 40.5 | 15 | 20 | 04 | 10.5 | WITU × 1.5 | 00 | 1 | / 1 | 17 | 0 | 50 | 0.0 | 1.23 | 11 | (※1) | 10.5 | 14 | 0 | 1 | 19 |
| 63 | 10~50 | 44 | 36 | 54 | 46 | 15 | 20 | 77 | 10.5 | M10×1.5 | 103 | 7 | 84 | 17 | 8 | 60 | 9 | M10×1.5 | 14 | PT 1/4 | 15 | 19 | 10.5 | 1 | 10 |
| 03 | 75,100 | 54 | 46 | 54 | 40 | 15 | 20 | | 10.5 | WITU ~ 1.5 | 105 | ' | 04 | 17 | 0 | 00 | 9 | 10/10/1.5 | 14 | (※2) | 15 | 10 | 10.5 | ' | 19 |
| 80 | 10~50 | 53.5 | 43.5 | 62 5 | 53.5 | 21 | 25 | 00 | 12.5 | M16×2.0 | 122 | 6 | 104 | 22 | 10 | 77 | 11 | M12×1.75 | 17 5 | PT 3/8 | 16 | 22 | 13.5 | 0 | 26 |
| 00 | 75,100 | 63.5 | 53.5 | 03.5 | 55.5 | 21 | 25 | 90 | 12.5 | 10 2.0 | 132 | 0 | 104 | 22 | 10 | 11 | 11 | WI12 × 1.75 | 17.5 | (※3) | 10 | 22 | 13.5 | 2 | 20 |
| 100 | 10~50 | 65 | 53 | 75 | 63 | 27 | 30 | 117 | 12 | M20×2.5 | 156 | 6 5 | 123.5 | 27 | 12 | 01 | 11 | M12×1.75 | 17 5 | PT 3/8 | 23 | 22 | 13.5 | 2 | 26 |
| 100 | 75,100 | 75 | 63 | 1'5 | 03 | 21 | 30 | 117 | 13 | 11/20 × 2.5 | 130 | 0.5 | 123.0 | 21 | 12 | 54 | | 1112 × 1.75 | 17.5 | (**3) | 23 | 22 | 13.5 | 2 | 20 |

%1: Without magnet with stroke=5mm, P=PT 1/8 \ Q=12 \ F=8

%2: Without magnet with stroke=5mm, P=PT 1/8

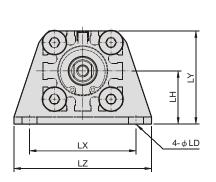
%3: Without magnet with stroke=5mm, P=PT 1/4

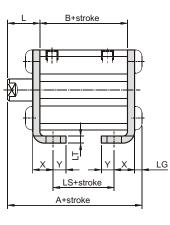




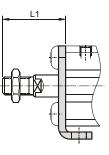


LB





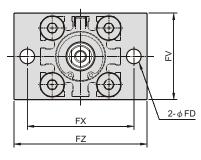
Female thread



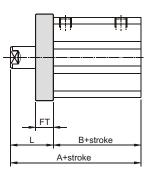
Male thread

| Code | | St | andar | d stro | ke | | | Loi | ng stro | oke | | | | | | | | | | | | |
|-----------|--------|-------|--------|--------|------|-------|------|--------|---------|-----|-----|------|------|-----|-----|----|-----|----|------|----|------|-----|
| | Stroke | Witho | out ma | agnet | N | Лаgne | et | Stroke | | в | 1.0 | L | L1 | LD | LG | LH | LT | LX | LY | LΖ | Х | Y |
| Tube I.D. | range | Α | В | LS | Α | В | LS | range | A | В | LS | | | | | | | | | | | |
| 12 | 5~30 | 35.3 | 17 | 5 | 40.3 | 22 | 10 | 35~100 | 50.3 | 32 | 20 | 13.5 | 24 | 4.5 | 2.8 | 17 | 2 | 34 | 29.5 | 44 | 8 | 4.5 |
| 16 | 5~30 | 35.3 | 17 | 5 | 40.3 | 22 | 10 | 35~100 | 50.3 | 32 | 20 | 13.5 | 25.5 | 4.5 | 2.8 | 19 | 2 | 38 | 33.5 | 48 | 8 | 5 |
| 20 | 5~50 | 41.2 | 19.5 | 7.5 | 51.2 | 29.5 | 17.5 | 75~200 | 62.7 | 41 | 29 | 14.5 | 28.5 | 6.6 | 4 | 24 | 3.2 | 48 | 42 | 62 | 9.2 | 5.8 |
| 25 | 5~50 | 44.7 | 22.5 | 7.5 | 54.7 | 32.5 | 17.5 | 75~300 | 66.2 | 44 | 29 | 15 | 32.5 | 6.6 | 4 | 26 | 3.2 | 52 | 46 | 66 | 10.7 | 5.8 |

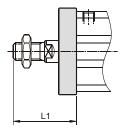




Female thread



Male thread



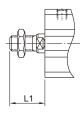
| Code | | Stand | ard stro | ke | | Lon | g stroke | ; | | | | | | | |
|-----------|--------|---------|----------|------|------|--------|----------|----|-----|-----|----|----|----|------|------|
| | Stroke | Without | magnet | Ма | gnet | Stroke | • | в | FD | FT | FV | FX | FZ | L | L1 |
| Tube I.D. | range | Α | В | Α | В | range | A | Р | | | | | | | |
| 12 | 5~30 | 30.5 | 17 | 35.5 | 22 | 35~100 | 45.5 | 32 | 4.5 | 5.5 | 25 | 45 | 55 | 13.5 | 24 |
| 16 | 5~30 | 30.5 | 17 | 35.5 | 22 | 35~100 | 45.5 | 32 | 4.5 | 5.5 | 30 | 45 | 55 | 13.5 | 25.5 |
| 20 | 5~50 | 34 | 19.5 | 44 | 29.5 | 75~200 | 55.5 | 41 | 6.6 | 8 | 39 | 48 | 60 | 14.5 | 28.5 |
| 25 | 5~50 | 37.5 | 22.5 | 47.5 | 32.5 | 75~300 | 59 | 44 | 6.6 | 8 | 42 | 52 | 64 | 15 | 32.5 |

MCJQ Mounting accessories / Double acting ϕ 12~ ϕ 25 compact cylinders

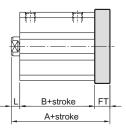


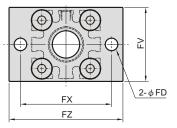


Male thread



Female thread

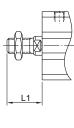




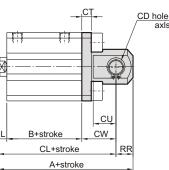
| Code | | | St | andar | d stro | ke | | | | | Long | stroke | 9 | | | | | | |
|-----------|--------|------|--------|-------|--------|------|------|------|------|--------|------|--------|------|------|-----|-----|----|----|----|
| | Stroke | W | ithout | magr | net | | Mag | gnet | | Stroke | | в | | L1 | FD | FT | FV | FX | FZ |
| Tube I.D. | range | Α | В | L | L1 | Α | В | L | L1 | range | A | D | L . | LI | | | | | |
| 12 | 5~30 | 26 | 17 | 3.5 | 14 | 31 | 22 | 3.5 | 14 | 35~100 | 51 | 32 | 13.5 | 24 | 4.5 | 5.5 | 25 | 45 | 55 |
| 16 | 5~30 | 26 | 17 | 3.5 | 15.5 | 31 | 22 | 3.5 | 15.5 | 35~100 | 51 | 32 | 13.5 | 25.5 | 4.5 | 5.5 | 30 | 45 | 55 |
| 20 | 5~50 | 32 | 19.5 | 4.5 | 18.5 | 42 | 29.5 | 4.5 | 18.5 | 75~200 | 63.5 | 41 | 14.5 | 28.5 | 6.6 | 8 | 39 | 48 | 60 |
| 25 | 5~50 | 35.5 | 22.5 | 5 | 22.5 | 45.5 | 32.5 | 5 | 22.5 | 75~300 | 67 | 44 | 15 | 32.5 | 6.6 | 8 | 42 | 52 | 64 |

CB

Male thread



Female thread



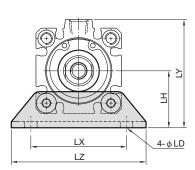
| hole H10 axls d9 | : | |
|---------------------|----|--------------------------|
| | | |
| | cz | <u>X</u> ^{+0.4} |

| Code | | | | St | andar | d stro | ke | | | | | | Lor | ng str | oke | | | | | | | | | |
|-----------|--------|------|-------|--------|-------|--------|------|------|--------|-----|------|--------|------|--------|------|------|------|----|----|----|----|-----|----|----|
| | Stroke | | Witho | out ma | agnet | | | Ν | /lagne | et | | Stroke | | в | CL | | L1 | CD | СТ | CU | cw | сх | cz | RR |
| Tube I.D. | range | Α | В | CL | L | L1 | Α | В | CL | L | L1 | range | A | D | | - | | | | | | | | |
| 12 | 5~30 | 40.5 | 17 | 34.5 | 3.5 | 14 | 45.5 | 22 | 39.5 | 3.5 | 14 | 35~100 | 65.5 | 32 | 59.5 | 13.5 | 24 | 5 | 4 | 7 | 14 | 5 | 10 | 6 |
| 16 | 5~30 | 41.5 | 17 | 35.5 | 3.5 | 15.5 | 46.5 | 22 | 40.5 | 3.5 | 15.5 | 35~100 | 66.5 | 32 | 60.5 | 13.5 | 25.5 | 5 | 4 | 10 | 15 | 6.5 | 12 | 6 |
| 20 | 5~50 | 51 | 19.5 | 42 | 4.5 | 18.5 | 61 | 29.5 | 52 | 4.5 | 18.5 | 75~200 | 82.5 | 41 | 73.5 | 14.5 | 28.5 | 8 | 5 | 12 | 18 | 8 | 16 | 9 |
| 25 | 5~50 | 57.5 | 22.5 | 47.5 | 5 | 22.5 | 67.5 | 32.5 | 57.5 | 5 | 22.5 | 75~300 | 89 | 44 | 79 | 15 | 32.5 | 10 | 5 | 14 | 20 | 10 | 20 | 10 |

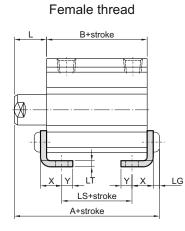


LB

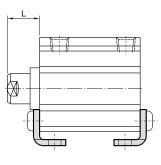
Standard stroke



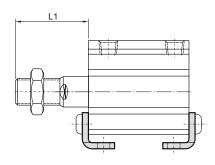
Long storke %Only for ϕ 32

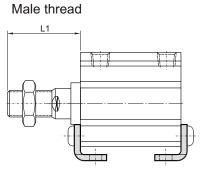






Male thread

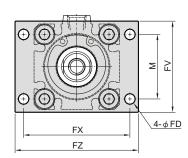


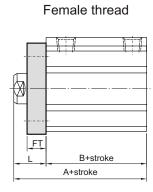


| Code | | St | andar | d stro | ke | | | | Lor | ng stro | oke | | | | | | | | | | | | |
|-----------|---------|-------|--------|--------|------|-------|------|------|-------|---------|------|------|-----|------|------|-----|------|------|----|----|----|------|-----|
| | Stroke | Witho | out ma | agnet | N | lagne | et | Str | oke | Α | в | LS | L | L1 | LD | LG | LH | LT | LX | LY | LΖ | Х | Y |
| Tube I.D. | range | Α | В | LS | Α | В | LS | rar | nge | A | в | LS | | | | | | | | | | | |
| 32 | 5~50 | 47.2 | 23 | 7 | 57.2 | 33 | 17 | 105 | 200 | c0 7 | | 29.5 | 17 | 38.5 | 6.6 | 4 | 30 | 2.2 | 57 | 57 | 71 | 11 0 | 5.8 |
| 32 | 75, 100 | 57.2 | 33 | 17 | 57.2 | 33 | 17 | 1251 | ~300 | 09.7 | 45.5 | 29.5 | 17 | 30.5 | 0.0 | 4 | 30 | 3.2 | 57 | 57 | /1 | 11.2 | 0.0 |
| Code | | St | andar | d stro | ke | | | | | | | | | | | | | | • | | | | |
| | Stroke | Witho | out ma | agnet | N | lagne | et | L | L1 | LD | LG | LH | LT | LX | LY | LZ | x | Y | | | | | |
| Tube I.D. | range | Α | В | LS | Α | В | LS | | | | | | | | | | | | | | | | |
| 40 | 5~50 | 53.7 | 29.5 | 13.5 | 63.7 | 20 E | 23.5 | 17 | 38.5 | 6.6 | 4 | 33 | 3.2 | 64 | 64 | 70 | 11.2 | 7 | | | | | |
| 40 | 75, 100 | 63.7 | 39.5 | 23.5 | 03.7 | 39.5 | 23.5 | 17 | 30.5 | 0.0 | 4 | 33 | 3.Z | 04 | 04 | /0 | 11.2 | · / | | | | | |
| 50 | 5~50 | 56.7 | 30.5 | 7.5 | 66.7 | 40 E | 17.5 | 18 | 43.5 | 9 | 5 | 39 | 3.2 | 79 | 78 | 95 | 14.7 | 8 | | | | | |
| 50 | 75, 100 | 66.7 | 40.5 | 17.5 | 00.7 | 40.5 | 17.5 | 10 | 43.5 | 9 | э | 39 | 3.2 | 19 | 10 | 95 | 14.7 | ° | | | | | |
| 63 | 5~50 | 62.2 | 36 | 10 | 72.2 | 46 | 20 | 18 | 43.5 | 11 | 5 | 46 | 3.2 | 95 | 91.5 | 113 | 16.2 | 9 | | | | | |
| 03 | 75, 100 | 72.2 | 46 | 20 | 12.2 | 40 | 20 | 18 | 43.5 | 11 | 5 | 46 | 3.Z | 95 | 91.5 | 113 | 16.2 | 9 | | | | | |
| 80 | 5~50 | 75 | 43.5 | 13.5 | 85 | E2 E | 23.5 | 20 | E 2 E | 13 | 7 | 59 | 4 5 | 118 | 114 | 140 | 10.5 | 11 | | | | | |
| 80 | 75, 100 | 85 | 53.5 | 23.5 | 60 | 53.5 | 23.5 | 20 | 53.5 | 13 | 1 | 59 | 4.5 | 110 | 114 | 140 | 19.5 | 1.1 | | | | | |
| 100 | 5~50 | 88 | 53 | 19 | 98 | 63 | 29 | 22 | 53.5 | 13 | 7 | 71 | 6 | 137 | 136 | 160 | 22 | 12.5 | | | | | |
| 100 | 75, 100 | 98 | 63 | 29 | 90 | 03 | 29 | 22 | 55.5 | 13 | 1 | 11 | U | 137 | 130 | 162 | 23 | 12.5 | | | | | |

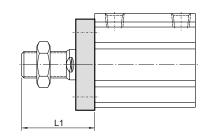








Male thread

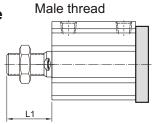


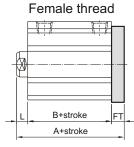
| Code | | Stand | ard stro | ke | | | Long | strok | e | | | | | | | | | |
|-----------|---------|---------|----------|------|------|-----|------|-------|-----|-----|-----|------|------|----|----|----|------|----|
| | Stroke | Without | magnet | Ма | gnet | Str | oke | Α | | 3 | FD | FT | FV | FX | FZ | L | L1 | М |
| Tube I.D. | range | Α | В | Α | В | rar | nge | ~ | | | | | | | | | | |
| 32 | 5~50 | 40 | 23 | 50 | 33 | 125 | ~300 | 62.5 | | 5.5 | 5.5 | 8 | 48 | 56 | 65 | 17 | 38.5 | 34 |
| 52 | 75, 100 | 50 | 33 | 50 | - 33 | 125 | -300 | 02.0 | 40 | 5.5 | 5.5 | 0 | 40 | 50 | 05 | 17 | 30.5 | 34 |
| Code | | Stand | ard stro | ke | | | | | | | | | | | | | | |
| | Stroke | Without | magnet | Ма | gnet | FD | FT | FV | FX | FZ | L | L1 | M | | | | | |
| Tube I.D. | range | Α | В | Α | В | | | | | | | | | | | | | |
| 40 | 5~50 | 46.5 | 29.5 | 56.5 | 39.5 | 5.5 | 8 | 54 | 62 | 72 | 17 | 38.5 | 5 40 | | | | | |
| 40 | 75, 100 | 56.5 | 39.5 | 50.5 | 39.5 | 5.5 | 0 | 54 | 02 | 12 | '' | 30.3 | 40 | , | | | | |
| 50 | 5~50 | 48.5 | 30.5 | 58.5 | 40.5 | 6.6 | 9 | 67 | 76 | 89 | 18 | 43.5 | 5 50 | | | | | |
| 50 | 75, 100 | 58.5 | 40.5 | 00.0 | 40.5 | 0.0 | 9 | 07 | 76 | 09 | 10 | 43.3 | | , | | | | |
| 63 | 5~50 | 54 | 36 | 64 | 46 | 9 | 9 | 80 | 92 | 108 | 18 | 43.5 | 5 60 | | | | | |
| 03 | 75, 100 | 64 | 46 | 04 | 40 | 9 | 9 | 80 | 92 | 100 | 10 | 43. | | , | | | | |
| 80 | 5~50 | 63.5 | 43.5 | 73.5 | 53.5 | 11 | 11 | 99 | 116 | 134 | 20 | 53.5 | 5 77 | , | | | | |
| 00 | 75, 100 | 73.5 | 53.5 | 13.5 | 53.5 | 11 | | 99 | 110 | 134 | 20 | 53.0 | | | | | | |
| 100 | 5~50 | 75 | 53 | 85 | 63 | 11 | 11 | 117 | 136 | 154 | 22 | 52.0 | 5 94 | | | | | |
| 100 | 75, 100 | 85 | 63 | 60 | 03 | | | | 130 | 154 | 22 | 53.5 | 94 | - | | | | |

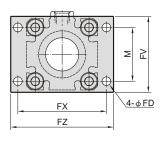




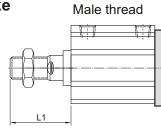
Standard stroke



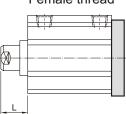




Long storke ** Only for \$\phi 32



Female thread



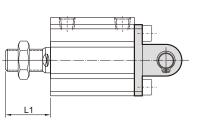
| | Code | | | Standar | d stroke | Э | | | | | Lon | g stro | oke | | | | | | | | |
|---|-----------|---------|---------|---------|----------|------|-----|------|-----|------|------|--------|------|----|------------|-----|----|----|----|----|----|
| | <u> </u> | Stroke | Without | magnet | | | L | L1 | Str | oke | Α | | в | L | L1 | FD | FT | FV | FX | FΖ | М |
| | Tube I.D. | range | Α | В | Α | В | | L. | rar | nge | A | ' | P | - | L 1 | | | | | | |
| | 32 | 5~50 | 38 | 23 | 48 | 33 | 7 | 28.5 | 125 | ~300 | 70.5 | : 41 | 5.5 | 17 | 38.5 | 5.5 | 8 | 48 | 56 | 65 | 34 |
| | 32 | 75, 100 | 48 | 33 | 40 | 55 | ' | 20.5 | 125 | -300 | 70.0 | , 4, | 5.5 | 17 | 50.5 | 5.5 | 0 | 40 | 50 | 05 | 54 |
| | Code | | ç | Standar | d stroke | э | | | | | | | | | | | | | | | |
| | | Stroke | Without | magnet | Ма | gnet | FD | FT | FV | FX | FΖ | L | L1 | M | | | | | | | |
| | Tube I.D. | range | Α | В | Α | В | | | | | | | | | | | | | | | |
| | 40 | 5~50 | 44.5 | 29.5 | 54.5 | 39.5 | 5.5 | 8 | 54 | 62 | 72 | 7 | 28.5 | 40 | | | | | | | |
| | 40 | 75, 100 | 54.5 | 39.5 | 54.5 | 39.5 | 5.5 | 0 | 54 | 02 | 12 | 1 | 20.5 | 40 | , | | | | | | |
| | 50 | 5~50 | 47.5 | 30.5 | 57.5 | 40.5 | 6.6 | 9 | 67 | 76 | 89 | 8 | 33.5 | 50 | | | | | | | |
| | 30 | 75, 100 | 57.5 | 40.5 | 57.5 | 40.5 | 0.0 | 9 | 07 | 10 | 09 | 0 | 33.5 | 50 | , | | | | | | |
| | 63 | 5~50 | 53 | 36 | 63 | 46 | 9 | 9 | 80 | 92 | 108 | 8 | 33.5 | 60 | | | | | | | |
| _ | 05 | 75, 100 | 63 | 46 | 03 | 40 | 9 | 9 | 80 | 92 | 100 | 0 | 33.5 | | , | | | | | | |
| | 80 | 5~50 | 64.5 | 43.5 | 74.5 | 53.5 | 11 | 11 | 99 | 116 | 134 | 10 | 43.5 | 77 | | | | | | | |
| | 00 | 75, 100 | 74.5 | 53.5 | 74.5 | 53.5 | | 11 | 99 | 110 | 134 | 10 | 43.5 | | | | | | | | |
| | 100 | 5~50 | 76 | 53 | 86 | 63 | 11 | 11 | 117 | 136 | 154 | 12 | 43.5 | 94 | | | | | | | |
| | 100 | 75, 100 | 86 | 63 | 00 | 03 | | | 117 | 130 | 134 | 12 | 43.5 | 94 | | | | | | | |

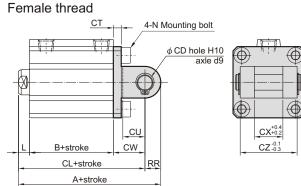
MCJQ Mounting accessories / Double acting ϕ 32~ ϕ 100 **COMPACT CYLINDERS**





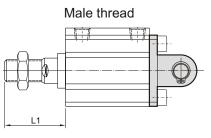
Standard stroke Male thread

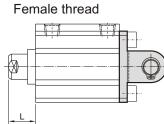




Long storke

% Only for ϕ 32



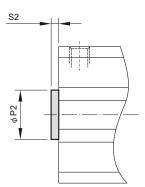


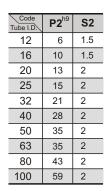
| Code | | | Stand | dard s | stroke | | | | | | | Lor | ng stro | oke | | | | | | | | | | |
|---------|---------|-------|--------|--------|--------|--------|-------|----|------|------|------|------|---------|------|------|-----------|--------|-----|----|----|----|----|--------|----|
| | Stroke | With | out ma | agnet | N | /lagne | et | | L1 | Stro | oke | А | в | CL | L | L1 | CD | СТ | CU | CW | СХ | CZ | Ν | RR |
| Tube I. | . range | Α | В | CL | Α | В | CL | L | L. | rar | nge | A | Р | CL | - | | | | | | | | | |
| 32 | 5~50 | 60 | 23 | 50 | 70 | 33 | 60 | 7 | 28.5 | 125- | ~300 | 02.5 | 45.5 | 00 E | 17 | 38.5 | 10 | 5 | 14 | 20 | 18 | 36 | M6×1.0 | 10 |
| 32 | 75, 100 | 70 | 33 | 60 | 10 | 33 | 00 | 1 | 20.5 | 120* | -300 | 92.5 | 45.5 | 02.5 | 17 | 30.5 | 10 | 5 | 14 | 20 | 10 | 30 | | 10 |
| Code | | | Stand | dard s | stroke | | | | | | | | | | | | | | | | | | | |
| | Stroke | With | out ma | agnet | N | lagne | et | CD | ст | cu | cw | сх | cz | L | L1 | 1 | J | RR | | | | | | |
| Tube I. | range | A | В | CL | Α | В | CL | | | | | | | | | | | | | | | | | |
| | 5~50 | 68.5 | 29.5 | 58.5 | 70.5 | 00.5 | 00.5 | 40 | | | 00 | 40 | | -7 | 00 F | | | 40 | | | | | | |
| 40 | 75, 100 | 78.5 | 39.5 | 68.5 | /8.5 | 39.5 | 68.5 | 10 | 6 | 14 | 22 | 18 | 36 | 7 | 28.5 | M6> | < 1.0 | 10 | | | | | | |
| 50 | 5~50 | 80.5 | 30.5 | 66.5 | 00 5 | 10 E | 76.5 | 14 | 7 | 20 | 00 | 22 | 44 | 0 | 00 F | M8× | 1.05 | 4.4 | | | | | | |
| 50 | 75, 100 | 90.5 | 40.5 | 76.5 | 190.5 | 40.5 | 10.5 | 14 | 1 | 20 | 28 | 22 | 44 | 8 | 33.5 | | 1.25 | 14 | | | | | | |
| 63 | 5~50 | 88 | 36 | 74 | 98 | 46 | 84 | 14 | 8 | 20 | 30 | 22 | 44 | 8 | 22 E | M10 | V 1 5 | 14 | | | | | | |
| 03 | 75, 100 | 98 | 46 | 84 | 90 | 40 | 04 | 14 | 0 | 20 | 30 | 22 | 44 | 0 | 33.5 | IVI I U | × 1.5 | 14 | | | | | | |
| 80 | 5~50 | 109.5 | 43.5 | 91.5 | 110 5 | 53 5 | 101.5 | 18 | 10 | 27 | 38 | 28 | 56 | 10 | 12 5 | M12> | / 1 75 | 10 | | | | | | |
| 00 | 75, 100 | 119.5 | 53.5 | 101.5 | 119.5 | 55.5 | 101.5 | 10 | 10 | 21 | 30 | 20 | 90 | 10 | 43.5 | IVI I Z > | (1.75 | 10 | | | | | | |
| 100 | 5~50 | 132 | 53 | 110 | 142 | 63 | 120 | 22 | 13 | 31 | 45 | 32 | 64 | 12 | 12 5 | M12> | / 1 75 | 22 | | | | | | |
| 100 | 75, 100 | 142 | 63 | 120 | 142 | 03 | 120 | 22 | 13 | 31 | 40 | 32 | 04 | 12 | 43.5 | 11/12 | 1.75 | 22 | | | | | | |

MCJQ Accessories $\phi 12 \sim \phi 100$ COMPACT CYLINDERS

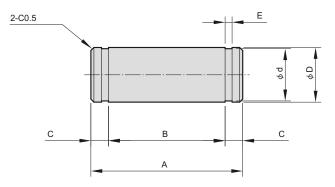






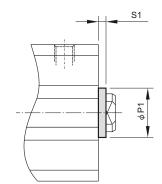






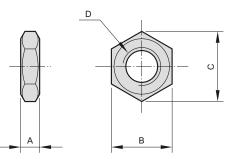
| Code Tube I.D. | Α | В | С | $\phi {f D}^{\scriptscriptstyle d9}$ | ϕ d | E | Snap ring |
|-------------------|------|------|-----|---------------------------------------|----------------------------|----------------------|-----------|
| 12 | 14.6 | 10.2 | 2.2 | $5^{-0.03}_{-0.06}$ | 4.8 _0_04 | 0.7 0+0.10 | STW-5 |
| 16 | 16.6 | 12.2 | 2.2 | $5^{-0.03}_{-0.06}$ | $4.8 \ _{-0.04}^{0}$ | $0.7 {}^{+0.10}_{0}$ | STW-5 |
| 20 | 21 | 16.2 | 2.4 | $8^{-0.04}_{-0.08}$ | 7.6 _0_0 | $0.9_{0}^{+0.10}$ | STW-8 |
| 25 | 25.6 | 20.2 | 2.7 | $10^{-0.04}_{-0.08}$ | 9.6 _0.06 | $1.15^{+0.14}_{0}$ | STW-10 |
| 32,40 | 41.6 | 36.2 | 2.7 | $10^{-0.04}_{-0.08}$ | 9.6 _0.09 | $1.15^{+0.14}_{-0}$ | STW-10 |
| 50,63 | 50.6 | 44.2 | 3.2 | $14 ^{-0.05}_{-0.10}$ | $13.4 \ _{-0.11}^{0}$ | $1.15^{+0.14}_{0}$ | STW-14 |
| 80 | 64 | 56.2 | 3.9 | $18\substack{-0.05 \\ -0.10}$ | 17.0 $_{-0.11}^{0}$ | $1.35^{+0.14}_{0}$ | STW-18 |
| 100 | 72 | 64.2 | 3.9 | $22^{-0.07}_{-0.12}$ | 21.0 $_{-0.21}^{0}$ | $1.35^{+0.14}_{0}$ | STW-22 |





| Code be I.D. | P1 ^{h9} | S1 |
|----------------------------|----------------------------|---------------------------------|
| 12 | 15 | 1.5 |
| 16 | 20 | 1.5 |
| 20 | 13 | 2 |
| 25 | 15 | 2 |
| 32 | 21 | 2 |
| 40 | 28 | 2 |
| 50 | 35 | 2 |
| 63 | 35 | 2 |
| 80 | 43 | 2 |
| 00 | 59 | 2 |
| 32 40 50 63 80 | 21 28 35 35 43 | 2 2 2 2 2 2 2 |





| Code Tube I.D. | Α | В | С | D |
|-------------------|----|----|------|----------|
| 12 | 4 | 8 | 9.2 | M5×0.8 |
| 16 | 5 | 10 | 11.5 | M6×1.0 |
| 20 | 5 | 13 | 15 | M8×1.25 |
| 25 | 6 | 17 | 19.6 | M10×1.25 |
| 32,40 | 8 | 22 | 25.4 | M14×1.5 |
| 50,63 | 11 | 27 | 31.4 | M18×1.5 |
| 80 | 13 | 32 | 37 | M22×1.5 |
| 100 | 16 | 41 | 47.3 | M26×1.5 |