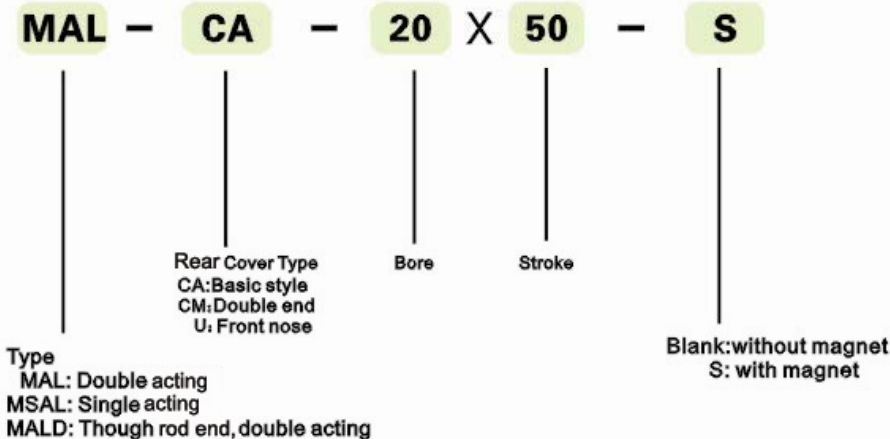




MAL Series Aluminum Alloy Mini Cylinder



How to Order



Standard Stroke

| Bore (mm) | Standard Stroke | | | | | | | | | | | | | | | |
|-----------|-----------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 16 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | | | | | | |
| 20 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | | | |
| 25 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 32 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| 40 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |





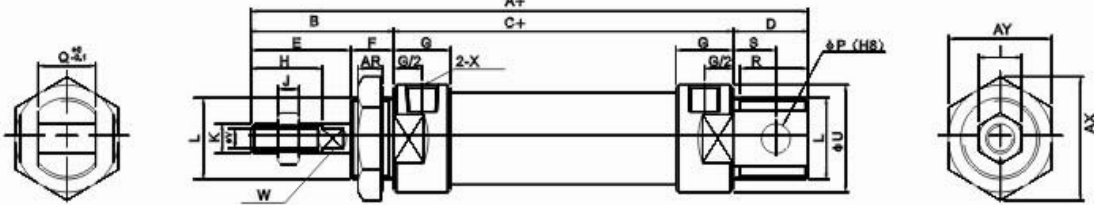
Technical data

| Bore (mm) | 16 | 20 | 25 | 32 | 40 |
|-----------------------------|--------------------------------|-------|----|----|----|
| Acting type | Double acting or single acting | | | | |
| Working medium | Filtered air | | | | |
| Mouting accessories | LB, FA, SDB | | | | |
| Operating pressure range | 0.1~0.9 Mpa | | | | |
| Max. Pressure | 1.35Mpa | | | | |
| Operating temperature range | 0~70°C | | | | |
| Operating speed range | 50~800 mm/s | | | | |
| Cushioning type | Rubber bumper | | | | |
| Port connection | M5x0.8 | G1/8" | | | |

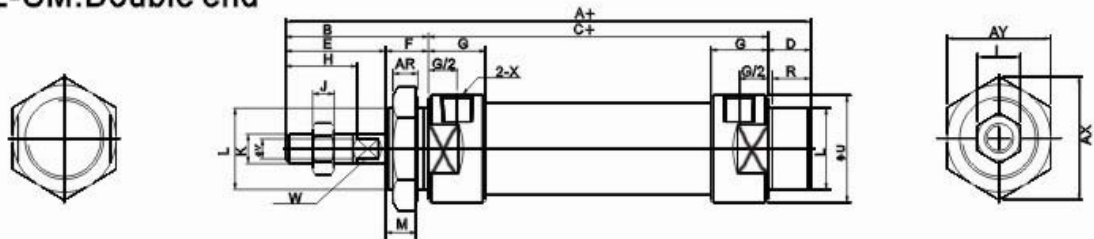


Dimensions(mm) :

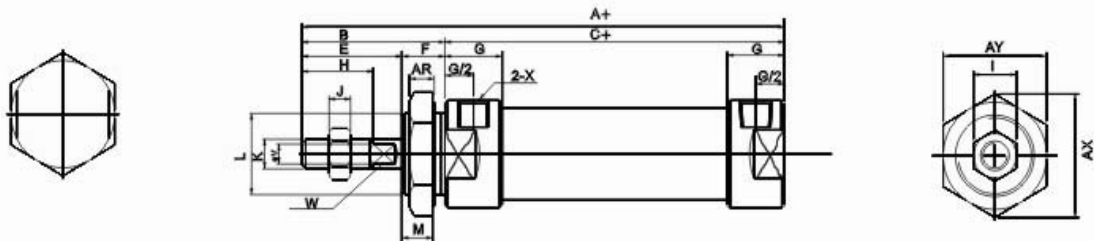
● MAL-CA:Basic style, integrated clevis



● MAL-CM:Double end



● MAL-U:Front nose



| Bore | A | A1 | A2 | B | C | D | D1 | E | F | G | H | I | J | K | L |
|------|-----|-----|-----|----|----|----|----|----|----|----|----|----|---|------------|-----------|
| 16 | 104 | 104 | 90 | 38 | 52 | 15 | 15 | 24 | 14 | 11 | 16 | 10 | 5 | M6 X 1 | M16 X 1.5 |
| 20 | 131 | 122 | 110 | 40 | 70 | 21 | 12 | 28 | 12 | 16 | 20 | 12 | 6 | M8 X 1.25 | M22 X 1.5 |
| 25 | 135 | 128 | 114 | 44 | 70 | 21 | 14 | 30 | 14 | 16 | 22 | 17 | 6 | M10 X 1.25 | M22 X 1.5 |
| 32 | 141 | 128 | 114 | 44 | 70 | 27 | 14 | 30 | 14 | 16 | 22 | 17 | 6 | M10 X 1.25 | M24 X 2.0 |
| 40 | 165 | 152 | 138 | 46 | 92 | 27 | 14 | 32 | 14 | 22 | 24 | 17 | 7 | M12x1.25 | M30X 2.0 |

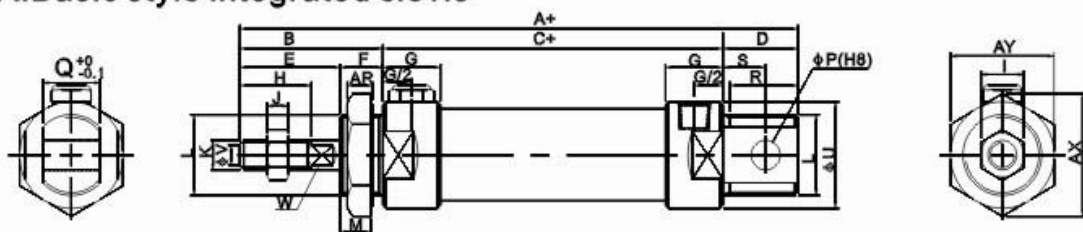
| Bore | M | P | Q | R | R1 | S | U | V | W | X | AR | AX | AY |
|------|----|----|----|----|----|----|------|----|----|------|----|----|------|
| 16 | 8 | 6 | 12 | 13 | 13 | 6 | 20 | 6 | / | M5 | 7 | 24 | 27.5 |
| 20 | 10 | 8 | 16 | 19 | 12 | 12 | 29 | 8 | 6 | G1/8 | 7 | 33 | 29 |
| 25 | 12 | 8 | 16 | 19 | 14 | 12 | 34 | 10 | 8 | G1/8 | 7 | 33 | 29 |
| 32 | 12 | 10 | 16 | 25 | 14 | 15 | 39.5 | 12 | 10 | G1/8 | 8 | 37 | 32 |
| 40 | 12 | 12 | 20 | 25 | 14 | 15 | 49.5 | 16 | 14 | G1/8 | 9 | 47 | 41 |



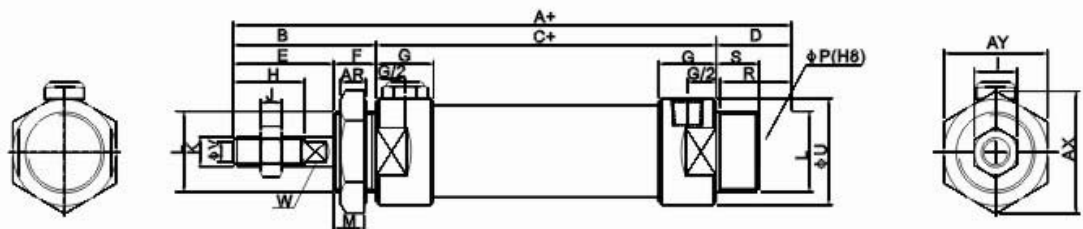


Dimensions(mm):

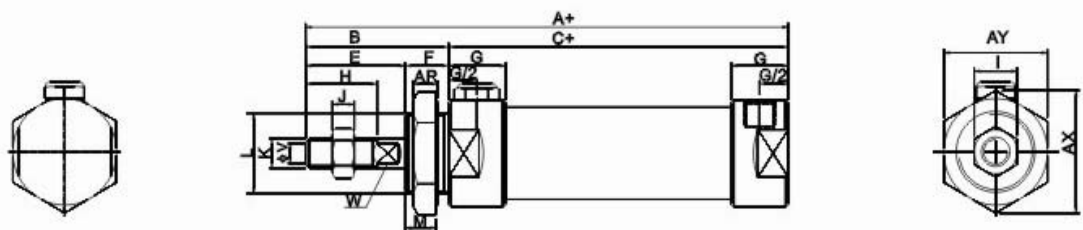
● MSAL-CA:Basic style integrated clevis



● MSAL-CM:Double end



● MSAL-CM:Front nose



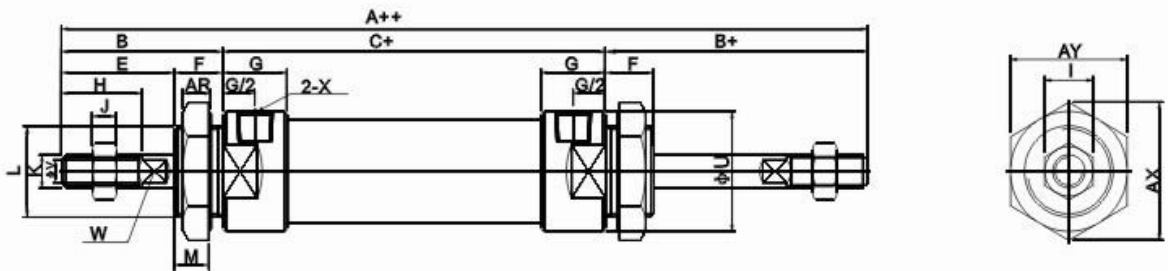
| Bore/stroke | A | | A1 | | A2 | | B | C | | D | D1 | E | F | G | H | I | J |
|-------------|------|--------|------|--------|------|--------|----|------|--------|----|----|----|----|----|----|----|---|
| | 0~50 | 51~100 | 0~50 | 51~100 | 0~50 | 51~100 | | 0~50 | 51~100 | | | | | | | | |
| 20 | 131 | 156 | 122 | 147 | 110 | 135 | 40 | 70 | 95 | 21 | 12 | 28 | 12 | 16 | 20 | 12 | 6 |
| 25 | 135 | 160 | 128 | 153 | 114 | 139 | 44 | 70 | 95 | 21 | 14 | 30 | 14 | 16 | 22 | 17 | 6 |
| 32 | 141 | 166 | 128 | 153 | 114 | 139 | 44 | 70 | 95 | 27 | 14 | 30 | 14 | 16 | 22 | 17 | 6 |
| 40 | 165 | 190 | 152 | 177 | 138 | 163 | 46 | 92 | 117 | 27 | 14 | 32 | 14 | 22 | 24 | 17 | 7 |

| Bore | K | L | M | P | Q | R | R1 | S | U | V | W | X | AR | AX | AY |
|------|------------|-----------|----|----|----|----|----|----|------|----|----|------|----|----|----|
| 20 | M8 X 1.25 | M22 X 1.5 | 10 | 8 | 16 | 19 | 12 | 12 | 29 | 8 | 6 | G1/8 | 7 | 33 | 29 |
| 25 | M10 X 1.25 | M22 X 1.5 | 12 | 8 | 16 | 19 | 14 | 12 | 34 | 10 | 8 | G1/8 | 7 | 33 | 29 |
| 32 | M10 X 1.25 | M24 X 2.0 | 12 | 10 | 16 | 25 | 14 | 15 | 39.5 | 12 | 10 | G1/8 | 8 | 37 | 32 |
| 40 | M12 X 1.25 | M30 X 2.0 | 12 | 12 | 20 | 25 | 14 | 15 | 49.5 | 16 | 14 | G1/4 | 9 | 47 | 41 |



Dimensions(mm):

- MALD: Through end rod



| Bore | A | A1 | B | C | E | F | G | H | I | I | K | L |
|------|-----|-----|----|----|----|----|----|----|----|---|------------|-----------|
| 20 | 131 | 122 | 40 | 70 | 28 | 12 | 16 | 20 | 12 | 6 | M8 X 1.25 | M22 X 1.5 |
| 25 | 135 | 128 | 44 | 70 | 30 | 14 | 16 | 22 | 17 | 6 | M10 X 1.25 | M22 X 1.5 |
| 32 | 141 | 128 | 44 | 70 | 30 | 14 | 16 | 22 | 17 | 6 | M10 X 1.25 | M24 X 2.0 |
| 40 | 165 | 152 | 46 | 92 | 32 | 14 | 22 | 24 | 17 | 7 | M12 X 1.25 | M30 X 2.0 |

| Bore | M | U | V | W | X | AR | AX | AY | T |
|------|----|------|----|----|------|----|----|----|----|
| 20 | 10 | 29 | 8 | 6 | G1/8 | 7 | 33 | 29 | 19 |
| 25 | 12 | 34 | 10 | 8 | G1/8 | 7 | 33 | 29 | 21 |
| 32 | 12 | 39.5 | 12 | 10 | G1/8 | 8 | 37 | 32 | 21 |
| 40 | 12 | 49.5 | 16 | 14 | G1/8 | 9 | 47 | 41 | 21 |

