

Tube for cylinder

Pneumission materials department supplies many kinds of tube for cylinders.



The thickness of oxide film is 25um+/- 5um, with the specifications as follows:

The material of tube: LD31 - RCS (6063-T5)

| Constituent | Element | Mg | Si | Fe | Cu | Mn | Cr | Zn | Ti |
|-------------|----------------------|---|--|------------------|-----------|-----------------------------------|---------------------------------------|------------|------------------------|
| | Check result | 0.81 | 0.41 | 0.23 | <0.08 | <0.08 | <0.04 | <0.02 | <0.05 |
| Mechanical | Index appellation | Tension intensity (N/mm) ² | Yield Strength (N/mm) ² | Ductility (%) | Harness | Internal Diameter Tolerance | Internal Surface area Roughness | Linearity | Thickness Tolerance |
| Property | Check Result | Sb 157 | S 0.2 108 | S 8 | HV 400 | H9-H10 | Ra 0.2-0.4 | 1/100 0 | ±1% |

YTT6A

Aluminum Alloy Round/Profile Tubes for Pneumatic Cylinder



[A]

Aluminum Alloy Tubes for Pneumatic Cylinder

Aluminum Alloy Tubes for Pneumatic Cylinder Size list

| ID (mm Ø) | OD (mm Ø) | ID (mm Ø) | OD (mm Ø) | ID (mm Ø) | OD (mm Ø) |
|----------------|----------------|----------------|----------------|----------------|----------------|
| 20 | 25 | 50 | 58 | 140 | 150 |
| 25 | 30 | 63 | 68 | 150 | 160 |
| 30 | 35 | 63 | 72 | 160 | 170 |
| 32 | 37 | 80 | 86 | 180 | 190 |
| 40 | 45 | 100 | 106 | 200 | 210 |
| 50 | 55 | 125 | 135 | | |

Remark

- Material : AA6063 T5
- Internal Roughness : Rz 3.2
- ID Accuracy : H9 (Please Consult Page 10)
- Straightness : 1 mm / 1000 mm
- Plating Thickness : 20 ~ 30 µm
- Surface Hardness : > 400 HV
- Standard Length : 2050 / 3050 mm

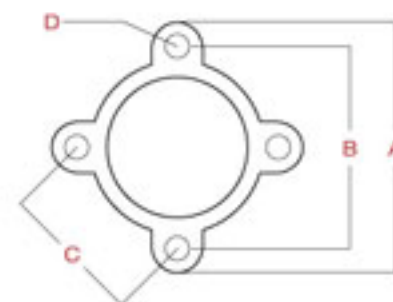
[B]

Aluminum Alloy Profile for Pneumatic Cylinder



Aluminum Alloy Profile for Pneumatic Cylinder Size list

| ID (mm Ø) | OD (mm Ø) | Thickness (mm) | A (mm) | B (mm) | C (mm) | D (mm Ø) |
|----------------|----------------|---------------------|-------------|-------------|-------------|---------------|
| Ø 32 | 36 | 2.8 | 57.06 | 45.96 | 32.5 | 5.4 |
| Ø 40 | 45 | 2.8 | 64.84 | 53.74 | 38 | 5.4 |
| Ø 50 | 55 | 3 | 78.76 | 65.76 | 46.5 | 7.3 |
| Ø 63 | 68 | 3 | 92.90 | 79.90 | 56.6 | 7.3 |
| Ø 80 | 86 | 3.5 | 116.52 | 101.82 | 72 | 9 |
| Ø 100 | 106 | 3.5 | 140.56 | 125.80 | 89 | 9 |



Remark

- Material : AA6063 T5
- Internal Roughness : Rz 3.2 ~ 5
- ID Accuracy : H11 (Please Consult Page 10)
- Straightness : 1 mm / 1000 mm
- Plating Thickness : 20 ~ 30 µm
- Surface Hardness : > 400 HV
- Standard Length : 2050 / 3050 mm