



ADU series Stainless Finger Type Air Gripper



Feature

- Stainless steel claw
- Basic dust prevention
- Multiple installation ways

Specification

| Item | Bore size (mm) | Ø10 | Ø16 | Ø20 | Ø25 | Ø32 |
|-------------------------------|-----------------------------|-----------------------|---------|------|------|------|
| Action | | Doubleacting | | | | |
| Fluid | | Air | | | | |
| Pressure range | kgf / cm ² (kPa) | 1.5 ~ 7 (150 ~ 700) | | | | |
| Ambient and fluid temperature | ° C | 0 ~ 60 | | | | |
| Max. operation frequency | time/min | 100 | | | | |
| Lubrication | | Lubrication free type | | | | |
| Max. gripper point length (L) | mm | 25 | 35 | 55 | 65 | 80 |
| 夾爪開合行程 | mm | 4 | 8 | 12 | 14 | 16 |
| Port size | mm | M3X0.5P | M5X0.8P | | | |
| Sensing device | | With magnet | | | | |
| Weight (kg) | | 0.07 | 0.11 | 0.22 | 0.37 | 0.60 |

Note: P: operating pressure 5kgf/cm², L: the gripping point length is 30mm

Code of order

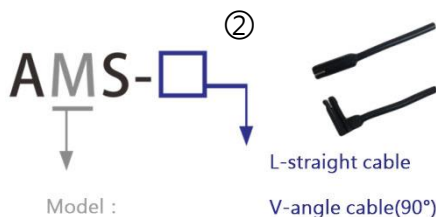
ADU-10-AMS-L-2

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①

| Mark | Bore size (mm) |
|------|----------------|
| 10 | Ø10 |
| 16 | Ø16 |
| 20 | Ø20 |
| 25 | Ø25 |
| 32 | Ø32 |

②



③

| Mark | Sensor quantity |
|------|------------------------|
| 1 | With 1 sensor switch |
| 2 | With 2 sensor switches |

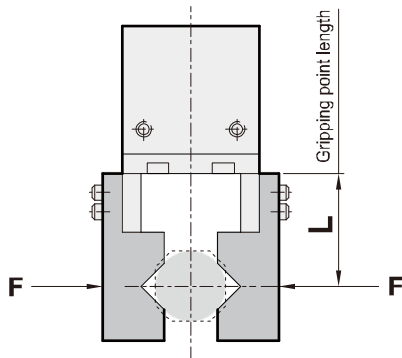


Operating type and data

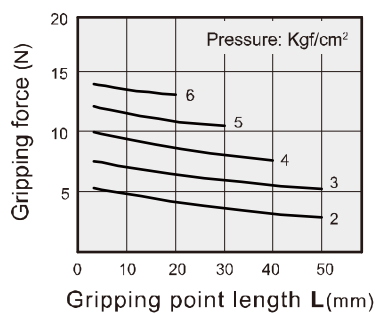
| Model | The smallest operating pressure (kgf/cm ²) | Thread port (mm) | Effective gripping force (N) | |
|--------|--|------------------|------------------------------|-------|
| | | | Open | Close |
| ADU 10 | 2.2 | 4-M3x0.5P | Open | 17 |
| | | | Close | 11 |
| ADU 16 | 1.5 | 4-M3x0.5P | Open | 45 |
| | | | Close | 34 |
| ADU 20 | 1.5 | 4-M4x0.7P | Open | 66 |
| | | | Close | 42 |
| ADU 25 | 1.5 | 4-M5x0.8P | Open | 104 |
| | | | Close | 65 |
| ADU 32 | 1.5 | 4-M6x1.0P | Open | 193 |
| | | | Close | 158 |

Note: The gripping force is the force of open and close gripper which in the length of gripping point is 30mm and acting pressure is 5kgf/cm².

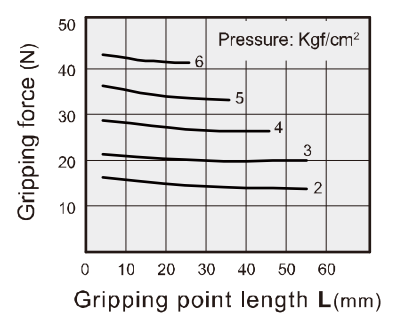
Gripping force characteristic



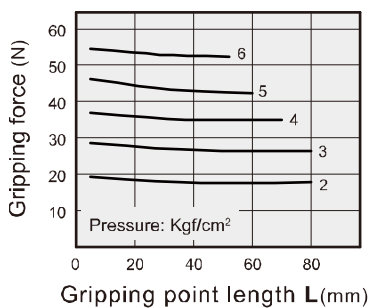
HDU 10



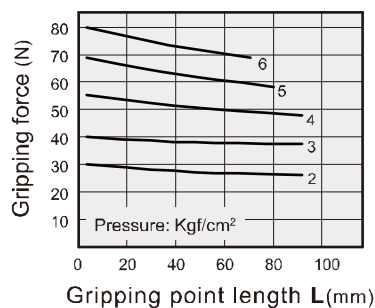
HDU 16



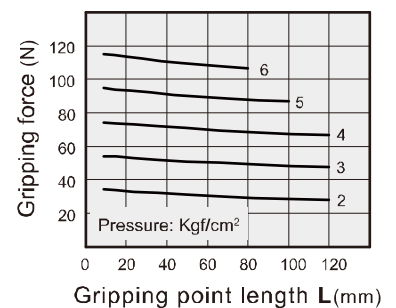
HDU 20



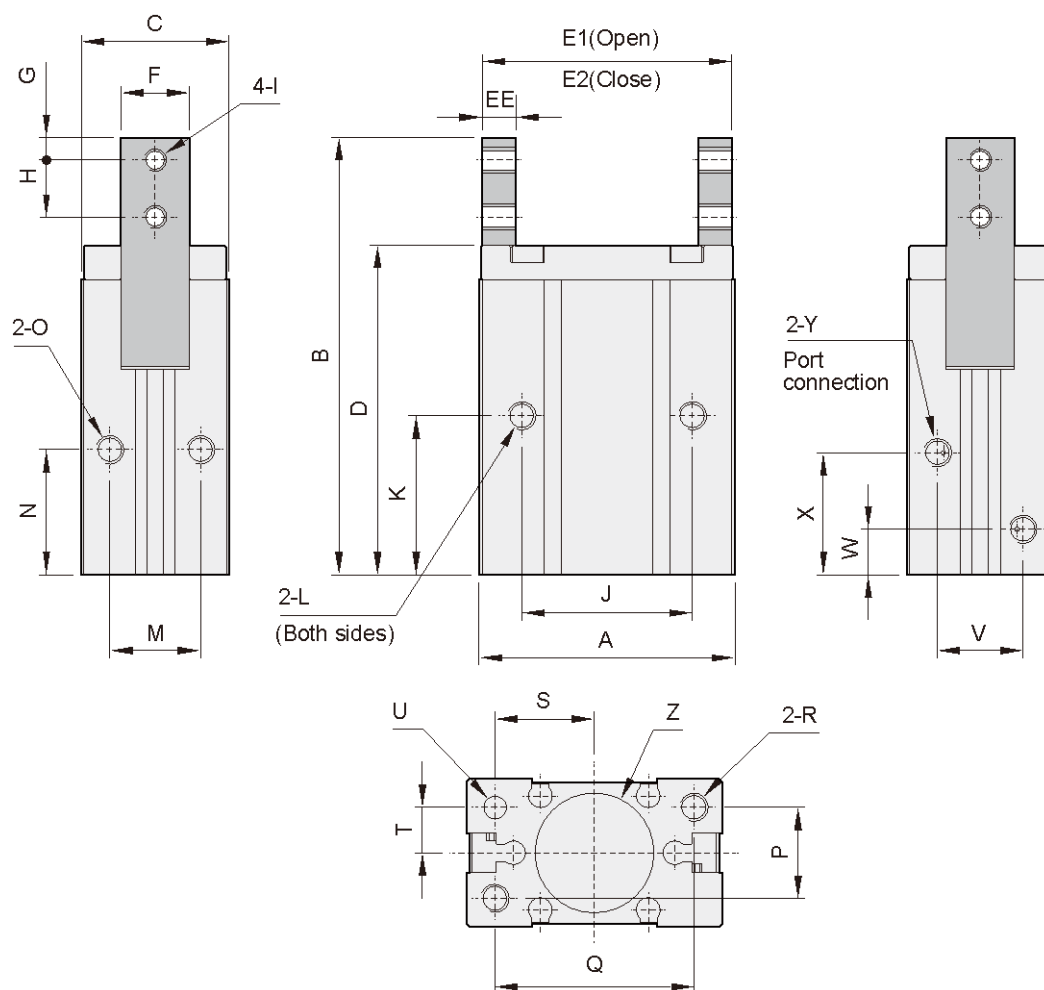
HDU 25



HDU 32



Dimensions



Unit: mm

| Mark Model | A | B | C | D | E1 | E2 | EE | F | G | H | I | J | K | L | M | N |
|---------------|----|-----|----|------|----|----|----|----|---|----|---------|----|----|--------------|----|------|
| ADU 10 | 23 | 51 | 16 | 38.5 | 22 | 18 | 4 | 7 | 3 | 6 | M3x0.5P | 18 | 23 | M3x0.5Px8dp | 10 | 15.5 |
| ADU 16 | 34 | 62 | 22 | 47 | 33 | 25 | 5 | 11 | 3 | 8 | M3x0.5P | 26 | 26 | M4x0.7Px11dp | 14 | 20 |
| ADU 20 | 45 | 77 | 26 | 58 | 44 | 32 | 6 | 12 | 4 | 10 | M4x0.7P | 30 | 28 | M5x0.8Px13dp | 16 | 22 |
| ADU 25 | 52 | 90 | 32 | 66.5 | 51 | 37 | 8 | 14 | 5 | 12 | M5x0.8P | 36 | 35 | M6x1.0Px16dp | 20 | 24.5 |
| ADU 32 | 60 | 106 | 40 | 75 | 60 | 44 | 9 | 18 | 7 | 15 | M6x1.0P | 44 | 37 | M6x1.0Px20dp | 26 | 30 |

Unit: mm

| Mark Model | O | P | Q | R | S | T | U | V | W | X | Y | Z |
|---------------|--------------|----|------|--------------|------|----|--------|----|-----|------|---------|-----------|
| ADU 10 | M3x0.5Px5dp | 10 | 17 | M3x0.5Px5dp | 8.5 | 5 | Ø2x3dp | 10 | 7.5 | 18.5 | M3x0.5P | Ø11x1.5dp |
| ADU 16 | M4x0.7Px6dp | 14 | 27.5 | M4x0.7Px7dp | 14 | 7 | Ø3x3dp | 13 | 7.5 | 20.5 | M5x0.8P | Ø17x1.5dp |
| ADU 20 | M5x0.8Px8dp | 16 | 35 | M5x0.8Px8dp | 17.5 | 8 | Ø4x4dp | 15 | 8 | 21.5 | M5x0.8P | Ø21x1.5dp |
| ADU 25 | M6x1.0Px10dp | 20 | 40 | M6x1.0Px10dp | 20 | 10 | Ø4x4dp | 18 | 8 | 26.2 | M5x0.8P | Ø26x1.5dp |
| ADU 32 | M6x1.0Px10dp | 26 | 46 | M6x1.0Px10dp | 23 | 13 | Ø5x5dp | 24 | 10 | 29 | M5x0.8P | Ø34x1.5dp |