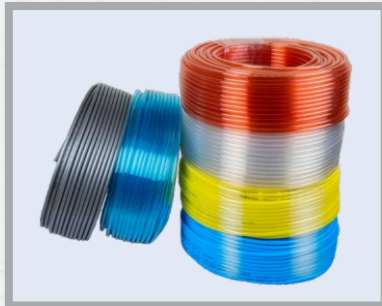


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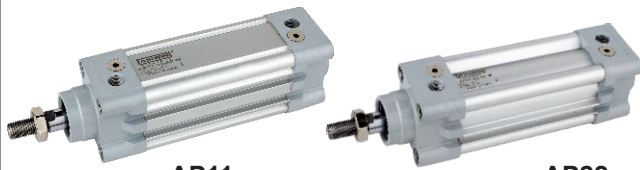
## PNEUMATIC



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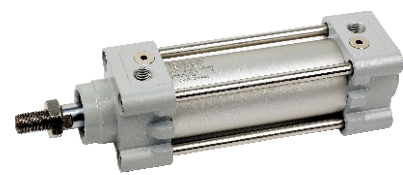


AP11

AP22

**Specification**

| Bore(mm)                | 32                   | 40    | 50    | 63    | 80 | 100 | 125 |
|-------------------------|----------------------|-------|-------|-------|----|-----|-----|
| Motion Pattern          | Double Action        |       |       |       |    |     |     |
| Working Medium          | Filtered Air         |       |       |       |    |     |     |
| Compression Pressure    | 1.5Mpa               |       |       |       |    |     |     |
| Max. Operating Pressure | 1.0Mpa               |       |       |       |    |     |     |
| Min. Operating Pressure | 0.2Mpa               |       |       |       |    |     |     |
| Cushioning              | Pneumatic Cushioning |       |       |       |    |     |     |
| Condition Temperature   | -5°c to +70°c        |       |       |       |    |     |     |
| Operating Speed         | 50-800 mm/s          |       |       |       |    |     |     |
| Stroke Range            | 10mm - 2200mm        |       |       |       |    |     |     |
| Port Size               | G1/8"                | G1/4" | G3/8" | G1/2" |    |     |     |



AP33

**Specification**

| Bore(mm)                    | 32                                                         | 40 | 50 | 63 | 80 | 100 | 125 | 250 | 320 |
|-----------------------------|------------------------------------------------------------|----|----|----|----|-----|-----|-----|-----|
| Motion Pattern              | Double Action                                              |    |    |    |    |     |     |     |     |
| Working Medium              | Filtered Air                                               |    |    |    |    |     |     |     |     |
| Fixed Type                  | Normal type Fatype FB type CA type CB type LB type TC type |    |    |    |    |     |     |     |     |
| Working Pressure Range      | 0.1 ~1.0MPa                                                |    |    |    |    |     |     |     |     |
| Ensured Pressure Resistance | 1.5MPa                                                     |    |    |    |    |     |     |     |     |
| Operating Temperature Range | -5°c to +70°c                                              |    |    |    |    |     |     |     |     |
| Operating Speed Range       | 50~500MM/S                                                 |    |    |    |    |     |     |     |     |
| Buffer Type                 | Adjustable Buffer                                          |    |    |    |    |     |     |     |     |
| Port Size                   | G1/8" G1/4" G3/8" G1/2" G1"                                |    |    |    |    |     |     |     |     |
| Lubrication                 | Not required (Use Turbine oil/ISO Vg32 when necessary)     |    |    |    |    |     |     |     |     |



AP44

**Specification**

| Bore(mm)                 | 32                   | 40    | 50    | 63    | 80    | 100 | 125 | 160 | 200 |
|--------------------------|----------------------|-------|-------|-------|-------|-----|-----|-----|-----|
| Motion Pattern           | Double Action        |       |       |       |       |     |     |     |     |
| Working Medium           | Filtered Air         |       |       |       |       |     |     |     |     |
| Operating Pressure Range | 0.1-0.9kgf/cm2       |       |       |       |       |     |     |     |     |
| Ensured Pressure Range   | 1.35Mpa              |       |       |       |       |     |     |     |     |
| Condition Temperature    | -5 c To + 70 c       |       |       |       |       |     |     |     |     |
| Operating Speed Range    | 300-800mm/s          |       |       |       |       |     |     |     |     |
| Cushioning               | Pneumatic Cushioning |       |       |       |       |     |     |     |     |
| Stroke Range             | 10mm - 2200mm        |       |       |       |       |     |     |     |     |
| Port Size                | G1/8"                | G1/4" | G3/8" | G1/2" | G3/4" |     |     |     |     |



AP55

**Specification**

| Bore (mm)             | 12                           | 16 | 20   | 25  | 32   | 40  | 50   | 63  | 80  | 100 |
|-----------------------|------------------------------|----|------|-----|------|-----|------|-----|-----|-----|
| Acting Type           | Double Action                |    |      |     |      |     |      |     |     |     |
| Working Medium        | Filtered Air                 |    |      |     |      |     |      |     |     |     |
| Operation Pressure    | 0.1-1.0 Mpa (1.0 - 10.0 bar) |    |      |     |      |     |      |     |     |     |
| Temperature           | -5°c to +70°c                |    |      |     |      |     |      |     |     |     |
| Operating Speed Range | 30 - 500 mm/s                |    |      |     |      |     |      |     |     |     |
| Port Size             | M5x0.8                       |    | 1/8" |     | 1/4" |     | 3/8" |     |     |     |
| Max. Stroke           | 70                           | 70 | 100  | 100 | 150  | 150 | 150  | 150 | 150 | 150 |



AP66

**Specification**

| Bore (mm)             | 16                           | 20   | 25   | 32   | 40   |
|-----------------------|------------------------------|------|------|------|------|
| Acting Type           | Double Action                |      |      |      |      |
| Working Medium        | Filtered Air                 |      |      |      |      |
| Operation Pressure    | 0.1-1.0 Mpa (1.0 - 10.0 bar) |      |      |      |      |
| Temperature           | -5°c to +70°c                |      |      |      |      |
| Operating Speed Range | 30 - 200 mm/s                |      |      |      |      |
| Port Size             | M5x0.8                       | 1/8" | 1/8" | 1/8" | 1/4" |
| Max. Stroke           | 100                          | 100  | 150  | 200  | 200  |



AP77

**Specification**

| Bore (mm)             | 16                           | 20     | 25     | 32   | 40   | 50   | 63   | 80   |
|-----------------------|------------------------------|--------|--------|------|------|------|------|------|
| Acting Type           | Double Action                |        |        |      |      |      |      |      |
| Working Medium        | Filtered Air                 |        |        |      |      |      |      |      |
| Operation Pressure    | 0.1-1.0 Mpa (1.0 - 10.0 bar) |        |        |      |      |      |      |      |
| Temperature           | -5°c to +70°c                |        |        |      |      |      |      |      |
| Operating Speed Range | 30 - 200 mm/s                |        |        |      |      |      |      |      |
| Port Size             | M5x0.8                       | M5x0.8 | M5x0.8 | 1/8" | 1/8" | 1/8" | 1/8" | 1/8" |
| Max. Stroke           | 100                          | 100    | 100    | 100  | 120  | 125  | 150  | 150  |



AP 88

### Specification

| Bore(mm)                    | 10                                                          | 15                | 20                  | 25 | 32 |
|-----------------------------|-------------------------------------------------------------|-------------------|---------------------|----|----|
| Motion Pattern              | Double Action                                               |                   |                     |    |    |
| Working Medium              | Filtered Air                                                |                   |                     |    |    |
| Body                        | Oxidated Aluminium Alloy                                    |                   |                     |    |    |
| Piston                      | Aluminium                                                   |                   |                     |    |    |
| Rods                        | Tempered and Chromed Steel (Control Unit With Bearing Bush) |                   |                     |    |    |
| Rod Bushing                 | Brass                                                       |                   |                     |    |    |
| Ensured Pressure Resistance | 1.05Mpa(10.7Kgf/cm)                                         |                   |                     |    |    |
| Max. Pressure               | 0.7Mpa(7.1Kgf/cm)                                           |                   |                     |    |    |
| Mix. Pressure               | 0.15Mpa(1.5Kgf/cm)                                          | 0.1Mpa(1.0Kgf/cm) | 0.05Mpa(0.51Kgf/cm) |    |    |
| Operating Temperature Range | -5°C to 70°C                                                |                   |                     |    |    |
| Buffering                   | Both ends Buffer                                            |                   |                     |    |    |
| Structure                   | Double Power                                                |                   |                     |    |    |
| Stroke Adjustable Range     | Return Stroke: 0~5mm                                        |                   |                     |    |    |
| Bearing                     | Slid Bearing                                                |                   |                     |    |    |
|                             |                                                             |                   |                     |    |    |



PU Tube

### Specification

#### Stitable Media :

- Compressed Air & Vacuum
- Water & Some Suitable Gases

#### Applications :

- Industrial Machines Tools
- Industrial Automation & Robotics
- Food & Pharmaceutical Machines

### How to Order

AP00 - ☐ ☐ - ☐ ☐ - ☐ ☐

| TUBE COLOR |             | TUBE ID |      | TUBE ID |     |
|------------|-------------|---------|------|---------|-----|
| BL         | BLUE        | 04      | Ø 4  | 25      | 2.5 |
| BK         | BLACK       | 06      | Ø 6  | 04      | 4   |
| BT         | TPT.BLUE    | 08      | Ø 8  | 05      | 5   |
| TP         | TRANSPARENT | 10      | Ø 10 | 55      | 5.5 |
| RD         | RED         | 12      | Ø 12 | 06      | 6   |
| RT         | TPT.RED     | 16      | Ø 16 | 65      | 6.5 |
| YL         | YELLOW      |         |      | 08      | 8   |
| SL         | SILVER      |         |      | 12      | 12  |



AP 22-02 - NC 2 X 2 Solenoid Valve

### Specification

|                             |                   |
|-----------------------------|-------------------|
| Working Medium              | Air               |
| Body                        | Aluminium         |
| Type                        | N.C               |
| Port Size                   | G1/4"             |
| Operation Fluid Viscosity   | 20 CST (Below)    |
| Max. Pressure Resistance    | 10 Bar            |
| Operating Temperature Range | -10~+70°C         |
| Voltage Range               | +10%              |
| Protect Class               | IP 65             |
| Power Consumption           | AC:7VA860Hz PC:6W |
| Insulation                  | F Class           |



Sov Manifold

| Model        | Port    | Model         | Port      |
|--------------|---------|---------------|-----------|
| AP8581-02-MF | 2 Valve | AP8581-07-MF  | 7 Valve   |
| AP8581-03-MF | 3 Valve | AP8581-08-MF  | 8 Valve   |
| AP8581-04-MF | 4 Valve | AP8581-10-MF  | 10 Valve  |
| AP8581-05-MF | 5 Valve | AP8581-12-MF  | 12 Valve  |
| AP8581-06-MF | 6 Valve | Closing Plate | Available |

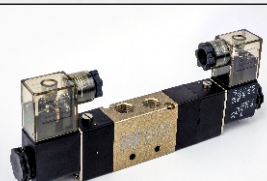
\* Suitable for 2400 &amp; AP85 Series Solenoid Valve



2400 Series Sov

### How to Order

| Series | Coil      | Position Type | Port    | Coil Voltage |
|--------|-----------|---------------|---------|--------------|
| 24     | 01-Single | 52-5/2        | 02-1/4" | V024-24V     |
| 24     | 02-Double | 53-5/3        | -       | V220-220V    |



AP 85 Series Sov

### How to Order

| Series | Coil      | Position Type | Port    | Coil Voltage |
|--------|-----------|---------------|---------|--------------|
| AP85   | 81-Single | 52-5/2        | 02-1/4" | V024-24V     |
| -      | 82-Double | 53-5/3        | 04-1/2" | V220-220V    |



Hand Lever Valve

### How to Order

| Series | Opreting      | Position Type | Port    |
|--------|---------------|---------------|---------|
| AP8581 | HL-Hand Lever | 52-5/2        | 02-1/4" |
| -      | -             | 53-5/3        | 04-1/2" |



Mini Ball Valve



Fittings

**Specification**

|        |                       |
|--------|-----------------------|
| Size   | 1/2" & 1/4"           |
| Port   | Female / Male-Female  |
| Body   | Brass (Nickel Plated) |
| Ball   | Brass                 |
| Seat   | PTFE                  |
| O-ring | NBR                   |
| Stem   | Brass                 |
| Handle | Aluminium alloy       |
| Screw  | Stainless steel       |

**Specification**

|                               |                                  |
|-------------------------------|----------------------------------|
| Tubing Material               | Polyurethane, Nylon, Soft Nylon, |
| Tubing O.D.                   | ø4, ø6, ø8, ø10, ø12, ø14, ø16   |
| Fluid                         | Air / Water                      |
| Operating Pressure Range      | -100 kPa to 1 MPa                |
| Ambient and Fluid Temperature | -5 to 70°, Water: 0 to 40°C      |
| Seal on the Threads           | with O ring                      |
| Body                          | Brass                            |
| Seal, O-ring                  | NBR                              |

**AP SERIES AIR SOURCE TREATMENT UNIT**


FR+L

**Specification**

| Model                        | AP2010-02     | AP4010-04     |
|------------------------------|---------------|---------------|
| Flow Rate (L/Min.)           | 500           | 3000          |
| Port Size                    | G1/4"         | G1/2"         |
| Filter Efficiency            | 25μ           | 25μ           |
| Working Pressure             | 1.0 MPa       | 1.0 MPa       |
| Operating Temperature Range  | -5 To + 70°C  | -5 To + 70°C  |
| Range of Adjustable Pressure | 0.05-0.85MPa  | 0.05-0.85MPa  |
| Recommended Oil Use          | ISO VG 32     | ISO VG 32     |
| Container Material           | Polycarbonate | Polycarbonate |
| Protective Cover             | Available     | Available     |



FR

**Specification**

| Model                        | AP2000-02     | AP4000-04     |
|------------------------------|---------------|---------------|
| Flow Rate (L/Min.)           | 550           | 4000          |
| Port Size                    | G1/4"         | G1/2"         |
| Filter Efficiency            | 25μ           | 25μ           |
| Working Pressure             | 1.0 MPa       | 1.0 MPa       |
| Operating Temperature Range  | -5 To + 70°C  | -5 To + 70°C  |
| Range of Adjustable Pressure | 0.05-0.85MPa  | 0.05-0.85MPa  |
| Container Material           | Polycarbonate | Polycarbonate |
| Protective Cover             | —             | Available     |



Regulator

**Specification**

| Model                        | AR2000-02    | AR4000-04    |
|------------------------------|--------------|--------------|
| Flow Rate (L/Min.)           | 550          | 6000         |
| Port Size                    | G1/4"        | G1/2"        |
| Working Pressure             | 1.0 MPa      | 1.0 MPa      |
| Operating Temperature Range  | -5 To + 70°C | -5 To + 70°C |
| Range of Adjustable Pressure | 0.05-0.85MPa | 0.05-0.85MPa |
|                              |              |              |
|                              |              |              |
|                              |              |              |

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