

# MAVS series

## SOFT START-UP VALVE



- Start-up valve for low speed air supply to gradually raise initial pressure in an air system and for quick exhaust by cutting off air supply.
- Combination with modular type air units (F.R.L. unit).

### Specification:

| Model                    | MAVS400                                                    |
|--------------------------|------------------------------------------------------------|
| Bore No.                 | 15A                                                        |
| Port size                | Rc 1/2                                                     |
| Medium                   | Air                                                        |
| Operating pressure range | 2.5~10 kgf/cm <sup>2</sup> (0.25~1 MPa)                    |
| Effective orifice        | 1(P)→2(A) 61mm <sup>2</sup><br>2(A)→3(R) 76mm <sup>2</sup> |
| Ambient temperature      | 0~+60℃                                                     |
| Voltage                  | AC110V, 220V (50/60)Hz, DC24V                              |
| Power consumption        | AC=6/4.9VA DC=2.5W                                         |
| Available voltage range  | ±10%                                                       |
| Insulation class         | F class                                                    |
| Option                   | Pressure gauge (PG-40), L type bracket                     |
| Weight                   | 800 g                                                      |

### Order example:

**MAVS400 - 15A - 1 - □ - B - AC110 - L - BSP Symbol:**

MODEL

BORE SIZE  
15A : Rc 1/2

APPLY TO

1 : For air unit 401 series  
3 : For air unit 403 series

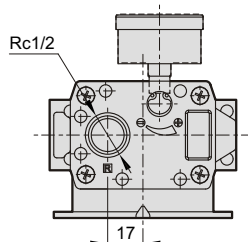
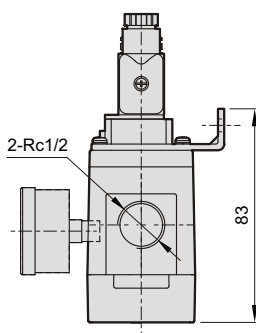
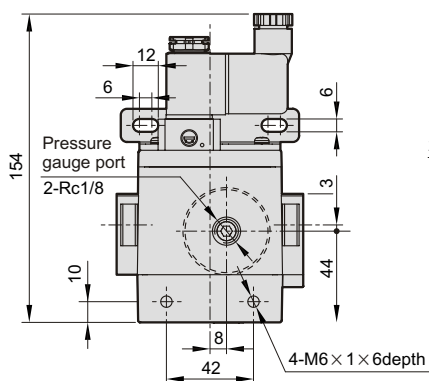
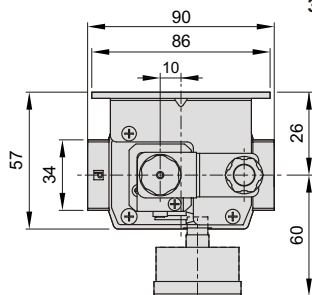
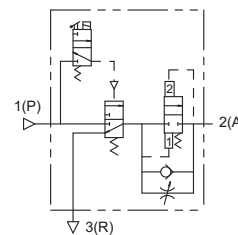
C: with pressure gauge (PG-40)

B: L type bracket

VOLTAGE  
AC220V(50/60)Hz  
AC110V(50/60)Hz  
DC24V

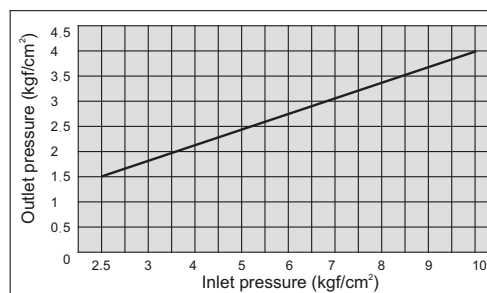
PORT THREAD  
Blank: Rc thread  
BSP: BSP thread  
NPT: NPT thread

Blank: DIN connect  
L: DIN connect with LED indicator



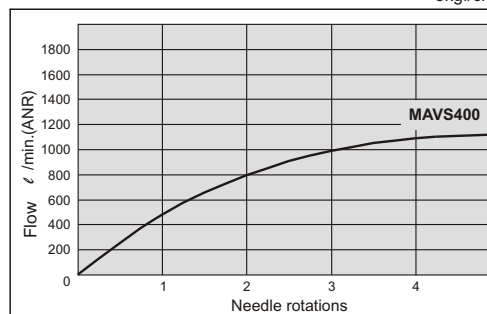
### Flow feature:

Piston B switching pressure (Close→Open)



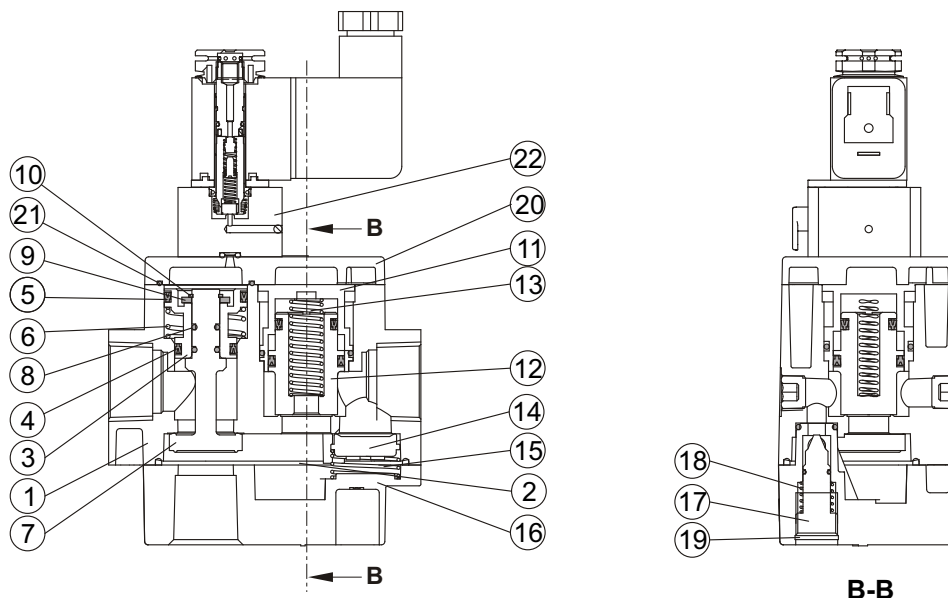
### Needle valve flow characteristics

Inlet pressure  
5kgf/cm<sup>2</sup>



# MAVS Inside structure & Parts list

## SOFT START-UP VALVE



### Material :

| No. | Part name             | Material        |
|-----|-----------------------|-----------------|
| 1   | Body                  | Aluminum alloy  |
| 2   | Body packing          | NBR             |
| 3   | Piston A              | Aluminum alloy  |
| 4   | Seal ring             | NBR             |
| 5   | Rod packing           | NBR             |
| 6   | Piston A spring       | SWP             |
| 7   | Main valve assembly   | Copper+NBR      |
| 8   | O-ring                | NBR             |
| 9   | Washer                | SPC             |
| 10  | Snap ring             | Spring steel    |
| 11  | Piston guide assembly | Aluminum alloy  |
| 12  | Piston B              | Copper+NBR      |
| 13  | Piston B spring       | Stainless steel |
| 14  | Check valve           | Copper+NBR      |
| 15  | Check valve spring    | Stainless steel |
| 16  | Cap                   | Aluminum alloy  |
| 17  | Needle valve          | Copper          |
| 18  | Needle valve spring   | SWP             |
| 19  | Snap ring             | Spring steel    |
| 20  | Cover                 | Aluminum alloy  |
| 21  | Cover ring            | NBR             |
| 22  | Pilot valve assembly  | —               |

# MAVS With air units (F.R.L. unit)

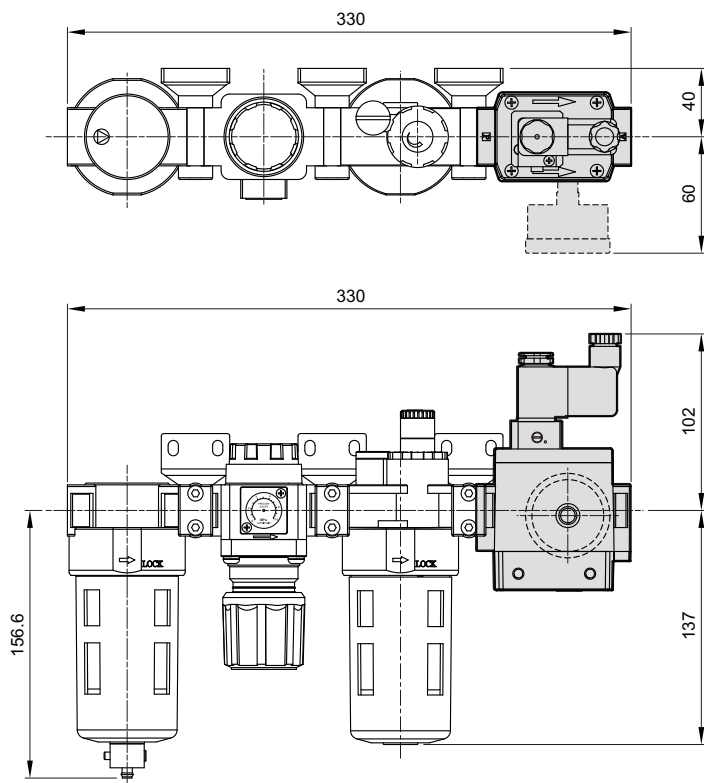
## SOFT START-UP VALVE



### Combination with air units (F.R.L. unit)

#### MACT403+MAVS

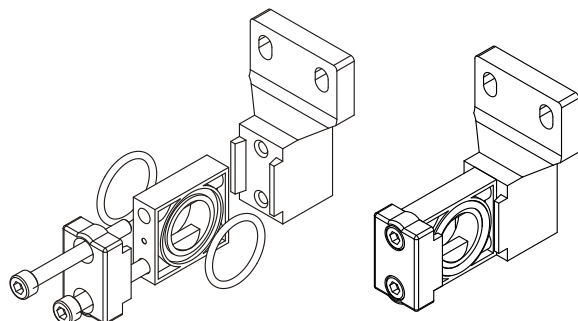
| Valve   | Air unit (F.R.L.) |         |
|---------|-------------------|---------|
| MAVS400 | MACT401           | MACT403 |



### Spacer with bracket

#### B-MACP401

※ for MACT401 / MACT403 series



### Spacer

#### BS-MACP401

※ for MACT401 / MACT403 series

