

ASAHI **AV** VALVE AND PIPING SYSTEMS

ASAHI **AV** VALVES

True Union Diaphragm Valve Type14 (Pneumatic Actuated Type AN) 15mm-50mm (1/2inch-2inch)



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Body Material

PVC
C-PVC
PP
PVDF

Diaphragm Material

PTFE
EPDM
FKM
Viflon C (FKM-C)
Viflon F (FKM-F)

Connection Standard

Socket End JIS
Socket End ASTM SCH80
Socket End DIN
Threaded End Rc
Threaded End NPT
Threaded End Rp

Action

Double Acting
Air to Open
Air to Close

Equipment

Indicator

Option

- Filter Regulator
- Solenoid Valve
- Limit Switch
- Speed Controller
- Manual Override
- ※for air to open
- Positioner



FEATURES

- The Actuator made of Resin is Light and Compact.
- NAMUR Standard is applied for air piping.
- All Optional Equipment(except positioner) can easily be added or removed in the Field.
- A Closing Travel Stop mechanism is standard.

OPTIONAL EQUIPMENT

| Combination No. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|------------------------------------|---|---|---|---|---|---|---|---|---|
| Solenoid Valve※ | ○ | — | — | ○ | ○ | — | ○ | — | — |
| Filter Regulator | — | — | — | ○ | — | — | ○ | — | ○ |
| Speed Controller | ◎ | ○ | — | ◎ | ◎ | ○ | ◎ | — | — |
| Limit Switch | — | — | ○ | — | ○ | ○ | ○ | — | — |
| Positioner (Electric-Air, Air-Air) | — | — | — | — | — | — | — | ○ | ○ |

◎Indicates specialized for Solenoid Valve.
※With built-in speed controller and bypass valve.

ACTUATOR SPECIFICATION [Double Acting]

| Nominal Size mm(inch) | 15(1/2inch) | 20(3/4inch) | 25(1inch) | 32(1 1/4inch) | 40(1 1/2inch) | 50(2inch) |
|---|---------------------|-------------|-----------|---------------|---------------|-----------|
| Actuator Type | AN-1DA | | AN-2DA | | AN-3DA | AN-4DA |
| Operating Pressure Mpa(kgf/cm ²) | 0.4(4.1) - 0.6(6.1) | | | | | |
| Air Consumption NI /Open & Close (at operating pressure 0.4NPa) | 2.6 | 2.6 | 2.7 | 2.7 | 9.6 | 9.8 |
| Air Supply Bore | Rc 1/4 | | | | | |

ACTUATOR SPECIFICATION [Air to Open]

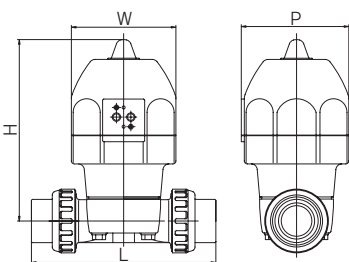
| Nominal Size mm(inch) | 15(1/2inch) | 20(3/4inch) | 25(1inch) | 32(1 1/4inch) | 40(1 1/2inch) | 50(2inch) |
|---|---------------------|-------------|-----------|---------------|---------------|-----------|
| Actuator Type | AN-1AO | | AN-2AO | | AN-3AO | AN-4AO |
| Operating Pressure Mpa(kgf/cm ²) | 0.4(4.1) - 0.6(6.1) | | | | | |
| Air Consumption NI /Open & Close (at operating pressure 0.4NPa) | 0.8 | 0.8 | 0.8 | 0.8 | 3.4 | 3.4 |
| Air Supply Bore | Rc 1/4 | | | | | |

ACTUATOR SPECIFICATION [Air to Close]

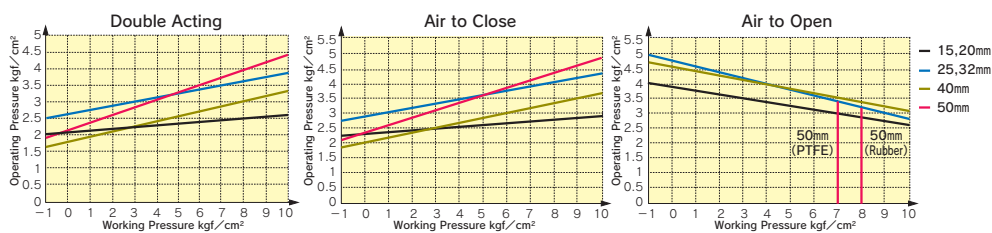
| Nominal Size mm(inch) | 15(1/2inch) | 20(3/4inch) | 25(1inch) | 32(1 1/4inch) | 40(1 1/2inch) | 50(2inch) |
|---|---------------------|-------------|-----------|---------------|---------------|-----------|
| Actuator Type | AN-1AS | | AN-2AS | | AN-3AS | AN-4AS |
| Operating Pressure Mpa(kgf/cm ²) | 0.4(4.1) - 0.6(6.1) | | | | | |
| Air Consumption NI /Open & Close (at operating pressure 0.4NPa) | 1.8 | 1.8 | 1.9 | 1.9 | 6.1 | 6.3 |
| Air Supply Bore | Rc 1/4 | | | | | |

* for the actuator with lubricant free valves consult near Asahi dealer.

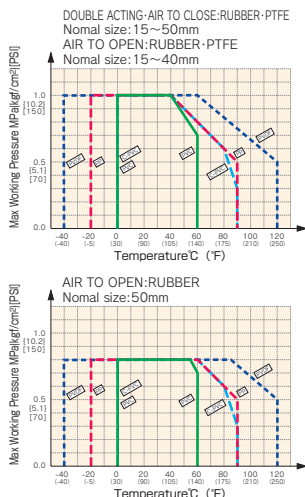
DIMENSIONS FIGURE



OPERATION PRESSURE vs WORKING PRESSURE

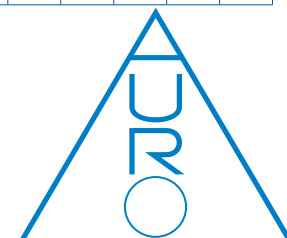


WORKING PRESSURE vs TEMPERATURE



DIMENSIONS TABLE

| ANSI, DIN | | | | | | | Unit:mm(inch) | | | | | | | | | | | |
|--------------|---|------------|---------|------------|------------|------------|---------------|--------------|-------------|------------|---------|-------|------------|------------|------------|------------|-------------|-------------|
| Nominal Size | | 15(1/2) | 20(3/4) | 25(1) | 32(1 1/4) | 40(1 1/2) | 50(2) | Nominal Size | | 15(1/2) | 20(3/4) | 25(1) | 32(1 1/4) | 40(1 1/2) | 50(2) | | | |
| Threaded End | L | PVC, C-PVC | DIN | 128 (5.04) | 148 (5.83) | 172 (6.77) | 188 (7.4) | 245 (9.65) | 281 (11.06) | Socket End | PP | DIN | 125 (4.92) | 141 (5.55) | 164 (6.46) | 177 (6.97) | 231 (9.09) | 274 (10.79) |
| | | | ANSI | 128 (5.04) | 148 (5.83) | 172 (6.77) | 188 (7.4) | 245 (9.65) | 281 (11.06) | | | ANSI | 138 (5.43) | 155 (6.09) | 184 (7.24) | 198 (7.80) | 261 (10.28) | 293 (11.54) |
| | P | PP, PVDF | DIN | 128 (5.04) | 148 (5.83) | 172 (6.77) | 188 (7.4) | 245 (9.65) | 278 (10.95) | Common | PVDF | ANSI | 138 (5.43) | 155 (6.09) | 184 (7.24) | 198 (7.80) | 261 (10.28) | 293 (11.54) |
| | | | ANSI | 128 (5.04) | 148 (5.83) | 172 (6.77) | 188 (7.4) | 245 (9.65) | 278 (10.95) | | | H | 186 (7.32) | 188 (7.4) | 193 (7.6) | 197 (7.76) | 293 (11.54) | 302 (11.89) |
| Socket End | P | PVC, C-PVC | DIN | 128 (5.04) | 147 (5.79) | 172 (6.77) | 188 (7.4) | 246 (9.69) | 294 (11.57) | Common | W | DIN | 130 (5.12) | 130 (5.12) | 130 (5.12) | 130 (5.12) | 174 (6.85) | 174 (6.85) |
| | | | ANSI | 139 (5.47) | 157 (6.18) | 186 (7.32) | 202 (7.95) | 266 (10.47) | 293 (11.54) | | | P | 133 (5.24) | 133 (5.24) | 133 (5.24) | 133 (5.24) | 179 (7.05) | 179 (7.05) |



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