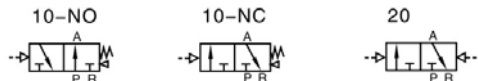


The M3A-Series In-line 3/2 Air actuated valves provide an extensive range of flow options at low prices. The range may be used Lubrication free and be Manifold Mounted for multi-task applications. The Solenoid versions feature interchangeable coils and push/twist—lock Manual Overrides.



Symbols



Product Features

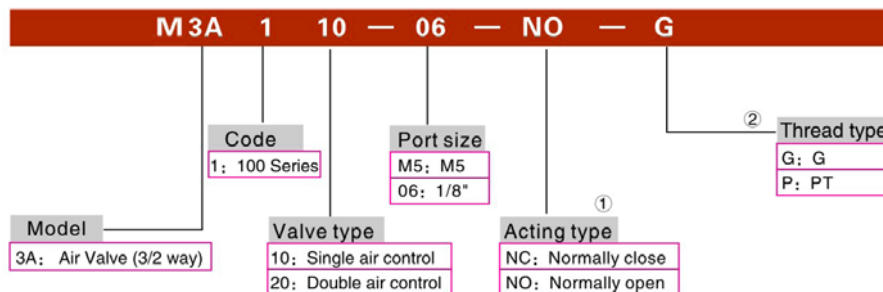
1. Air pilot operated valve series.
2. Spool type, with low leakage and low friction action.
3. Double air valves have position memory using seal friction to retain the spool position.
4. Special manufacturing techniques ensure low start pressure and long service life.
5. Maybe used lubrication free.
6. The valve range may be manifold mounted for space saving and to reduce installation costs.
7. Compact 18mm width

Specification

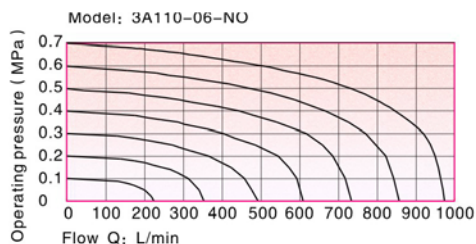
| Model | 3A110-M5 | 3A120-M5 | 3A110-06 | 3A120-06 |
|--------------------|---|----------|-------------------------------|----------|
| Fluid | Air(to be filtered by 40um filter element) | | | |
| Acting | Exterior control | | | |
| Port size ① | M5 | | 1/8" | |
| Orifice size | 5.5mm ² (Cv=0.31) | | 12.0mm ² (Cv=0.67) | |
| Valve type | 3 port 2 position | | | |
| Lubrication ② | Not required | | | |
| Operating pressure | 0.15~0.8MPa(21~114Psi) | | | |
| Proof pressure | 1.5MPa(215Psi) | | | |
| Temperature ℃ | -20~70 | | | |
| Material of body | Aluminum alloy | | | |
| Max. frequency ③ | 5 cycle/sec | | | |

1. G (BSP) and M5 threads are standard (NPT threads are available as an option on request)
2. If lubrication is preferred, lubricants similar to ISO VG32 or equivalent are recommended.
3. The maximum actuation frequency is for the valve only (no load condition).

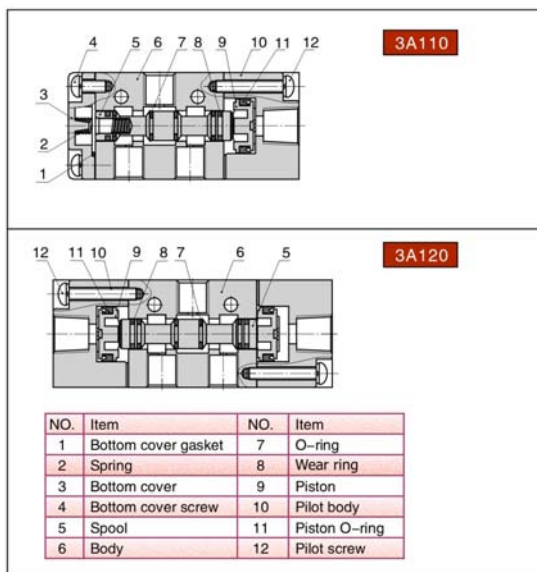
Model/Ordering Codes



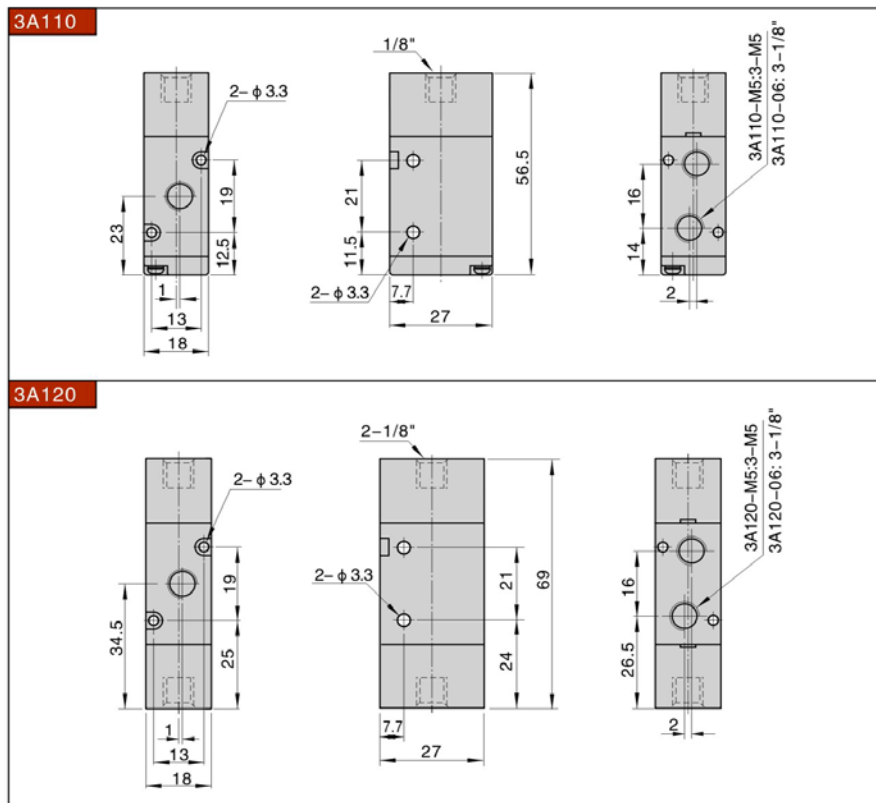
Flow chart



Inner structure

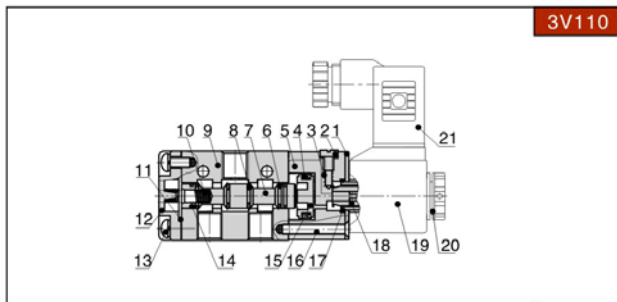


Dimensions

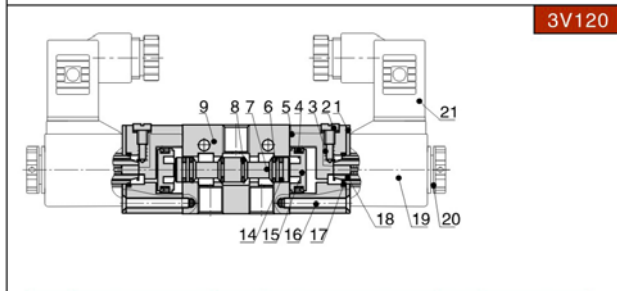


OCT11.R/W/A

Inner structure



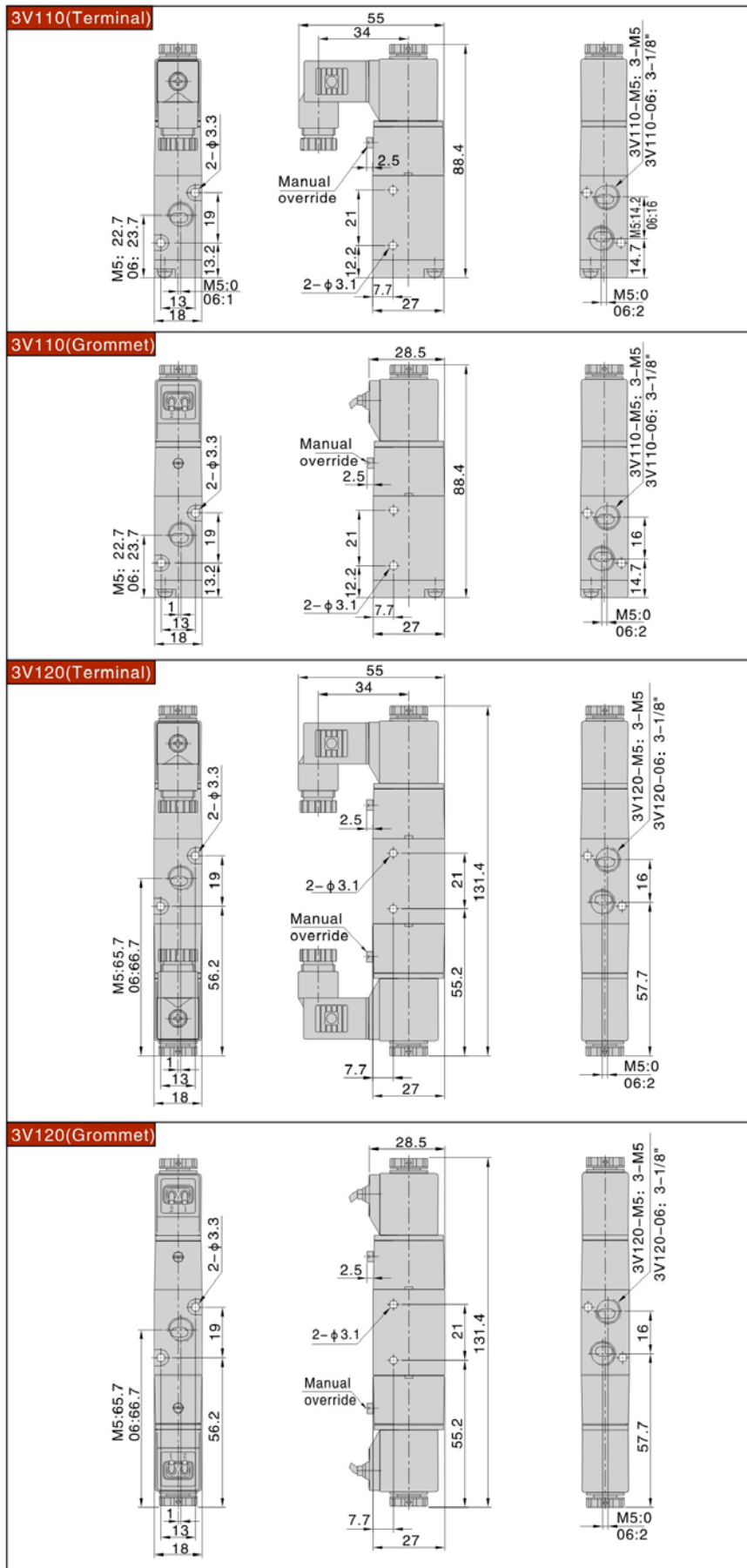
3V110



3V120

| NO. | Item | NO. | Item | NO. | Item |
|-----|-----------------|-----|---------------------|-----|-------------|
| 1 | Fixed plate | 8 | O-ring | 15 | Piston |
| 2 | Manual override | 9 | Body | 16 | Pilot screw |
| 3 | Override spring | 10 | Spool spring | 17 | O-ring |
| 4 | Piston O-ring | 11 | Bottom cover gasket | 18 | Armature |
| 5 | Pilot body | 12 | Bottom cover | 19 | Coil |
| 6 | Spool packing | 13 | Screw | 20 | Coil nut |
| 7 | Spool | 14 | Wearing ring | 21 | Connector |

Dimensions



OCT11/R/W/A