

Individual mounting

| | | | |
|------------------------|--------------------|---|---|
| Sub-base non "plug-in" | Sub-base "plug-in" | Sub-base/manifold base non "plug-in" with latching solenoid | Sub-base/manifold base "plug-in" with latching solenoid |
|------------------------|--------------------|---|---|

Series

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Manifold mounting

| | | | |
|-----------------------------|-------------------------|---|---|
| Manifold base non "plug-in" | Manifold base "plug-in" | Sub-base/manifold base non "plug-in" with latching solenoid | Sub-base/manifold base "plug-in" with latching solenoid |
|-----------------------------|-------------------------|---|---|

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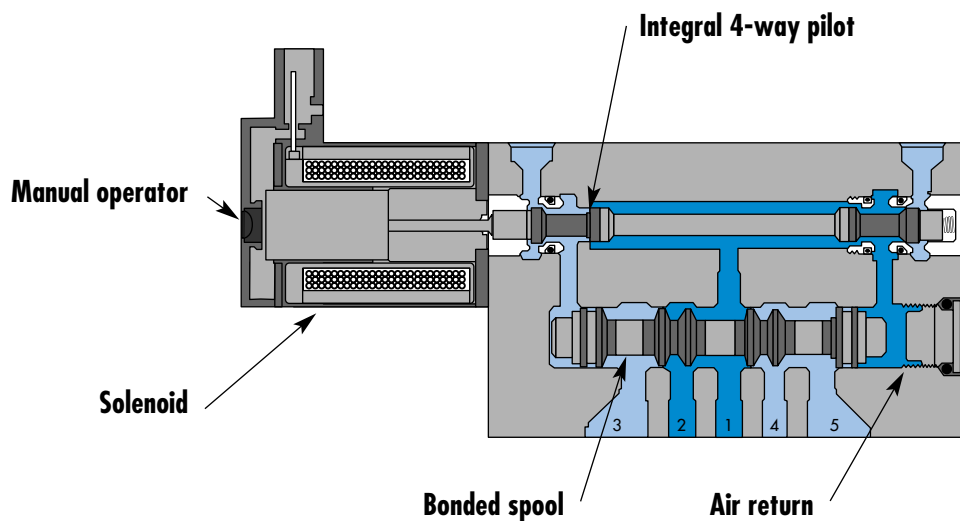
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ISO 1

ISO 2

ISO 3



SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Single or dual pressure.
- Internal or external pilot.
- Single or double solenoid.
- 2 or 3 position.
- Rectified AC voltage.
- Latching solenoid technology.



Direct solenoid and solenoid pilot operated valves

| Function | Port size | Flow [Max] | Individual mounting | Series |
|----------|--|--------------------|---------------------------|--------|
| 5/2, 5/3 | # 10-32 - 1/4" O.D. tube receptacle | 0.4 C _v | Sub-base non "plug-in" | |

OPERATIONAL BENEFITS

1. 4-way valve with 4-way integral pilot.
2. 10 mm valve (stacks on 10.5 mm centers).
3. High flow (up to 0.4 C_v).
4. Fast repeatable response times.
5. Maximum shifting forces in both directions.
6. Long life.



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HOW TO ORDER

SINGLE PRESSURE MODELS (VALVE WITH BASE CODED FOR SIDE PORTS)

| Port size | Pilot air | 5/2 Single solenoid | 5/2 Double solenoid | 5/3 Closed center | 5/3 Open center |
|----------------------------|-----------|----------------------|----------------------|----------------------|----------------------|
| | | | | | |
| Valve less base | Internal | 42A-AMA-000-Gxxx-xxx | 42A-BMA-000-Gxxx-xxx | 42A-EMA-000-Gxxx-xxx | 42A-FMA-000-Gxxx-xxx |
| | External | 42A-AMD-000-Gxxx-xxx | 42A-BMD-000-Gxxx-xxx | 42A-EMD-000-Gxxx-xxx | 42A-FMD-000-Gxxx-xxx |
| # 10-32 | Internal | 42A-AMA-AAL-Gxxx-xxx | 42A-BMA-AAL-Gxxx-xxx | 42A-EMA-AAL-Gxxx-xxx | 42A-FMA-AAL-Gxxx-xxx |
| | External | 42A-AMD-AAM-Gxxx-xxx | 42A-BMD-AAM-Gxxx-xxx | 42A-EMD-AAM-Gxxx-xxx | 42A-FMD-AAM-Gxxx-xxx |
| 1/4" O.D. tube receptacles | Internal | 42A-AMA-EAL-Gxxx-xxx | 42A-BMA-EAL-Gxxx-xxx | 42A-EMA-EAL-Gxxx-xxx | 42A-FMA-EAL-Gxxx-xxx |
| | External | 42A-AMD-EAM-Gxxx-xxx | 42A-BMD-EAM-Gxxx-xxx | 42A-EMD-EAM-Gxxx-xxx | 42A-FMD-EAM-Gxxx-xxx |

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DUAL PRESSURE MODELS (VALVE WITH BASE CODED FOR SIDE PORTS)

| Port size | Pilot air | 5/2 Single solenoid | 5/2 Double solenoid | 5/3 Pressure center |
|----------------------------|-----------|---------------------|----------------------|----------------------|
| | | | | |
| Valve less base | Internal | Supply #3 port | 42A-CMB-000-Gxxx-xxx | 42A-HMB-000-Gxxx-xxx |
| | External | Supply #5 port | 42A-CMC-000-Gxxx-xxx | 42A-HMC-000-Gxxx-xxx |
| # 10-32 | Internal | Supply #3 port | 42A-CMB-AAL-Gxxx-xxx | 42A-HMB-AAL-Gxxx-xxx |
| | External | Supply #5 port | 42A-CMC-AAL-Gxxx-xxx | 42A-HMC-AAL-Gxxx-xxx |
| 1/4" O.D. tube receptacles | Internal | Supply #3 port | 42A-CMB-EAL-Gxxx-xxx | 42A-HMB-EAL-Gxxx-xxx |
| | External | Supply #5 port | 42A-CMC-EAL-Gxxx-xxx | 42A-HMC-EAL-Gxxx-xxx |

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STANDARD SOLENOID OPERATOR >

G **XXX-XXX***

| XX | Voltage | X | Wire length | X | Manual operator | XX | Electrical connection |
|----|----------------|---|-------------|---|----------------------|----|--|
| AA | 120 VAC (2.5W) | A | 18" | 1 | Non-locking recessed | BA | Flying leads |
| DC | 24 VDC (1.8W) | B | 24" | 2 | Locking recessed | BT | Flying leads with light |
| DD | 24 VDC (2.5W) | C | 36" | | | KA | Plug-in wire assy. |
| DF | 24 VDC (4.0W) | | | | | KT | Plug-in wire assy. with light |
| | | | | | | KD | Plug-in wire assy. with rectifier & light & ground |

Note : AC voltage requires connector with rectifier.

* Click here for other options available.

Latching solenoid available for 5/2 valves.

Click here for other options available for the 42 series valves.

TECHNICAL DATA

| | |
|--|---|
| Fluid : | Compressed air, vacuum, inert gases |
| Pressure range : | Internal Pilot - 2 pos. : 20 to 120 PSI 3 pos. : 40 to 120 PSI External Pilot : vacuum to 120 PSI |
| Pilot pressure : | 2 position : 20 to 120 PSI 3 position : 40 to 120 PSI |
| Lubrication : | Not required, if used select a medium aniline point lubricant (between 180°F and 210°F) |
| Filtration : | 40 μ |
| Temperature range : | 0°F to 120°F (-18°C to +50°C) |
| Flow : | # 10-32 : (0.35 C _v) – 1/4" O.D. tube receptacle : (0.4 C _v) |
| Coil : | Class A wire (#22 AWG x 18), continuous duty |
| Voltage range : | -15% to +10% of nominal voltage |
| Power : | 1.0 to 4.0 W |
| Response times : (with 24V 4 W coil) | Energize : 5 ms De-energize : 5 ms |

- Options :
- M5 ports, M7 ports, 6 mm O.D. tube receptacles
 - Sandwich flow controls : FC42A-BB
 - Sandwich regulator : see 'Regulator' section

DIMENSIONS

Dimensions shown are metric (mm)

(SHOWN WITH M7 PORTS)

