

Individual mounting

| |
|--------|
| Inline |
|--------|

Series

Manifold mounting

| | | | | |
|----------|-------------------------|--|--|--------------------------------------|
| Stacking | Manifold base "plug-in" | Manifold base "plug-in" with pressure regulators | Manifold base "plug-in" with flow controls | Manifold base "plug-in" with PR & FC |
|----------|-------------------------|--|--|--------------------------------------|

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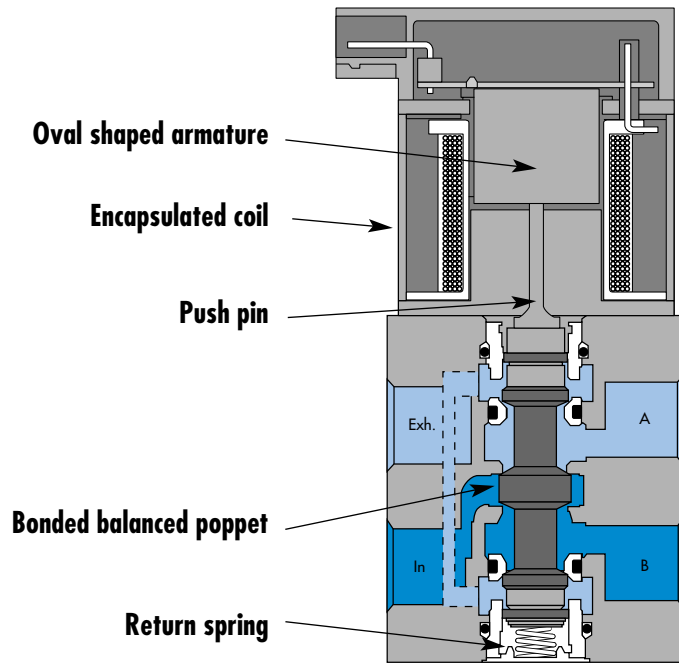
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ISO 1

ISO 2

ISO 3



SERIES FEATURES

- Patented high force MACSOLENOID® for fastest possible response times.
- Bonded balanced poppet for high flow, precise repeatability, and consistent operation.
- Balanced poppet permits versatility in function — may be used as 3-way or 2-way normally open or normally closed and may be used for vacuum, divertor, or selector applications.
- Extremely high cycle rate capability.
- Use on lube or non-lube service.
- Manual overrides as standard.
- Various solenoid enclosures and plug-in connectors.
- Optional surge suppression available.
- Low wattage DC solenoids — down to 1.3 watts.
- Rectified AC voltage.



Direct solenoid and solenoid pilot operated valves

| Function | Port size | Flow [Max] | Individual mounting | Series |
|------------|-----------------------|--------------------------|---------------------|--------|
| 4/2 | 1/8" - # 10-32 | 0.3 C_v | Inline | |

OPERATIONAL BENEFITS

1. Balanced poppet, immune to variations of pressure.
2. Patented solenoid develops high shifting forces.
3. Short stroke with high flow.
4. Higher forces result in lower wattages for given flow.
5. Powerful return spring.



HOW TO ORDER

| Port size | Without flow controls | With flow controls |
|------------------|--------------------------|--------------------------|
| | | |
| 1/8" NPTF | 46A-AA1-J xxx-xxx | 46A-AA2-J xxx-xxx |
| # 10-32 | 46A-AB1-J xxx-xxx | 46A-AB2-J xxx-xxx |

SOLENOID OPERATOR >

J **xxx-xxx*** (-G) Add "G" for ground

| XX Voltage | X Wire length | X Manual operator | XX Electrical connection |
|--------------------------|---------------|-------------------------------|---|
| AA 120 VAC (5.4W) | A 18" | 1 Non-locking recessed | BA Flying leads |
| DA 24 VDC (5.4W) | B 24" | 2 Locking recessed | GA MAC JAC solenoid plug-in |
| DB 12 VDC (5.4W) | C 36" | | GB MAC JAC solenoid plug-in with diode |
| DC 24 VDC (2.4W) | | | GD MAC JAC solenoid plug-in with light |
| DD 12 VDC (2.4W) | | | GG MAC JAC solenoid plug-in with rectifier |

* Click here for other options available.

Note : - AC voltage requires connector with rectifier.

- The MAC JAC connector is similar to the connector used for valves that incorporate the "G" type solenoid. With the MAC JAC, washdown capability is possible. Consult factory for washdown modification number.

OPTIONS

46A-AA1-J**xxx-xxx**

- G** Use with O ring mount (body option 'D')
- A** 4 port body with side ports
- C** 4 port body with bottom ports (no side ports) - #10-32 ONLY
- D** Bottom O ring mount - All ports (no side ports)
- F** Bottom O ring mount - Cylinder ports only - Side inlet & exhaust

Examples : 46A-DG1-Jxxx-xxx (Bottom O ring mount - all ports)
46A-CB1-Jxxx-xxx (4 port body with bottom ports - no side ports)

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TECHNICAL DATA

| | |
|---|---|
| Fluid : | Compressed air, vacuum, inert gases |
| Pressure range : | Vacuum 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 : | 1.8W : (0.20 C _v) – 2.4W : (0.20 C _v) – 5.4W : (0.30 C _v) |
| Coil : | Class A wire (#22 AWG x 18), continuous duty |
| Voltage range : | -15% to +10% of nominal voltage |
| Protection : | Consult factory |
| Power : | 5.4W – 2.4W – 1.8W |
| Response times : (with 5.4 W coil) | Energize : 7.20 ms De-energize : 4.20ms |

Options : • BSPP/Metric threads

DIMENSIONS

Dimensions shown are metric (mm)

