

Алматы (7273)495-231  
 Ангарск (3955)60-70-56  
 Архангельск (8182)63-90-72  
 Астрахань (8512)99-46-04  
 Барнаул (3852)73-04-60  
 Белгород (4722)40-23-64  
 Благовещенск (4162)22-76-07  
 Брянск (4832)59-03-52  
 Владивосток (423)249-28-31  
 Владикавказ (8672)28-90-48  
 Владимир (4922)49-43-18  
 Вологда (8172)26-41-59  
 Воронеж (473)204-51-73  
 Екатеринбург (343)384-55-89

Иваново (4932)77-34-06  
 Ижевск (3412)26-03-58  
 Иркутск (395)279-98-46  
 Казань (843)206-01-48  
 Калининград (4012)72-03-81  
 Калуга (4842)92-23-67  
 Кемерово (3842)65-04-62  
 Киров (8332)68-02-04  
 Коломна (4966)23-41-49  
 Кострома (4942)77-07-48  
 Краснодар (861)203-40-90  
 Красноярск (391)204-63-61  
 Курск (4712)77-13-04  
 Курган (3522)50-90-47  
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
 Москва (495)268-04-70  
 Мурманск (8152)59-64-93  
 Набережные Челны (8552)20-53-41  
 Нижний Новгород (831)429-08-12  
 Новокузнецк (3843)20-46-81  
 Ноябрьск (3496)41-32-12  
 Новосибирск (383)227-86-73  
 Омск (3812)21-46-40  
 Орел (4862)44-53-42  
 Оренбург (3532)37-68-04  
 Пенза (8412)22-31-16  
 Петрозаводск (8142)55-98-37  
 Псков (8112)59-10-37  
 Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
 Рязань (4912)46-61-64  
 Самара (846)206-03-16  
 Санкт-Петербург (812)309-46-40  
 Саратов (845)249-38-78  
 Севастополь (8692)22-31-93  
 Саранск (8342)22-96-24  
 Симферополь (3652)67-13-56  
 Смоленск (4812)29-41-54  
 Сочи (862)225-72-31  
 Ставрополь (8652)20-65-13  
 Сургут (3462)77-98-35  
 Сыктывкар (8212)25-95-17  
 Тамбов (4752)50-40-97  
 Тверь (4822)63-31-35

Тольятти (8482)63-91-07  
 Томск (3822)98-41-53  
 Тула (4872)33-79-87  
 Тюмень (3452)66-21-18  
 Ульяновск (8422)24-23-59  
 Улан-Удэ (3012)59-97-51  
 Уфа (347)229-48-12  
 Хабаровск (4212)92-98-04  
 Чебоксары (8352)28-53-07  
 Челябинск (351)202-03-61  
 Череповец (8202)49-02-64  
 Чита (3022)38-34-83  
 Якутск (4112)23-90-97  
 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

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MAC

Series 32

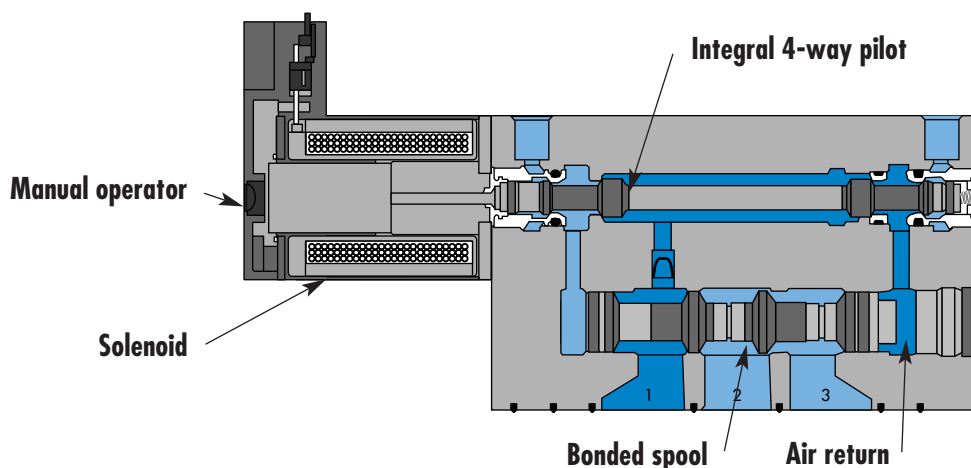
Direct solenoid and solenoid pilot operated valves

#### Individual mounting

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

#### Manifold mounting

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



#### SERIES FEATURES

- High force MACSOLENOID®.
- Integral 4-way pilot design.
- Internal or external pilot.
- Normally open or normally closed function.
- Universal function (external pilot).
- Rectified AC voltage.
- Latching solenoid technology.

| Function         | Port size   | Flow [Max]               | Individual mounting    | Series |
|------------------|-------------|--------------------------|------------------------|--------|
| <b>3/2 NO-NC</b> | <b>1/8"</b> | <b>0.4 C<sub>v</sub></b> | Sub-base non "plug-in" |        |

## OPERATIONAL BENEFITS

1. 3-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<sub>v</sub>).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



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ISO 02  
ISO 1  
ISO 2  
ISO 3

## HOW TO ORDER

| Port size              | Pilot air | NO valve                     | NC valve                     | Universal valve              |
|------------------------|-----------|------------------------------|------------------------------|------------------------------|
|                        |           |                              |                              |                              |
| <b>Valve less base</b> | Internal  | 32B-BMA-000-G <b>XXX-XXX</b> | 32B-AMA-000-G <b>XXX-XXX</b> |                              |
|                        | External  | 32B-BMB-000-G <b>XXX-XXX</b> | 32B-AMB-000-G <b>XXX-XXX</b> | 32B-GMB-000-G <b>XXX-XXX</b> |
| <b>1/8" NPTF</b>       | Internal  | 32B-BMA-CAL-G <b>XXX-XXX</b> | 32B-AMA-CAL-G <b>XXX-XXX</b> |                              |
|                        | External  | 32B-BMB-CAM-G <b>XXX-XXX</b> | 32B-AMB-CAM-G <b>XXX-XXX</b> | 32B-GMB-CAM-G <b>XXX-XXX</b> |

Note : Above codes are for side port.

## STANDARD SOLENOID OPERATOR >

G **XXX-XXX\***

| XX Voltage               | X Wire length | X Manual operator             | XX Electrical connection                                     |
|--------------------------|---------------|-------------------------------|--------------------------------------------------------------|
| <b>AA</b> 120 VAC (2.5W) | <b>A</b> 18"  | <b>1</b> Non-locking recessed | <b>BA</b> Flying leads                                       |
| <b>DA</b> 24 VDC (1.0W)  | <b>B</b> 24"  | <b>2</b> Locking recessed     | <b>BT</b> Flying leads with light                            |
| <b>DC</b> 24 VDC (1.8W)  | <b>C</b> 36"  |                               | <b>GA</b> MAC JAC Solenoid plug-in w/Diode                   |
| <b>DD</b> 24 VDC (2.5W)  |               |                               | <b>GB</b> MAC JAC Solenoid plug-in w/Diode                   |
| <b>DF</b> 24 VDC (4.0W)  |               |                               | <b>GC</b> MAC JAC Solenoid plug-in w/MOV                     |
|                          |               |                               | <b>GD</b> MAC JAC Solenoid plug-in w/LED                     |
|                          |               |                               | <b>GE</b> MAC JAC Solenoid plug-in w/Diode & LED             |
|                          |               |                               | <b>GF</b> MAC JAC Solenoid plug-in w/MOV & LED               |
|                          |               |                               | <b>GG</b> MAC JAC Solenoid plug-in w/Rectifier               |
|                          |               |                               | <b>GH</b> MAC JAC Solenoid plug-in w/Rectifier & LED         |
|                          |               |                               | <b>KA</b> Plug-in wire assy.                                 |
|                          |               |                               | <b>KT</b> Plug-in wire assy. with light                      |
|                          |               |                               | <b>KD</b> Plug-in wire assy. with rectifier & light & ground |

Note : AC voltage requires connector with rectifier.

\* Other options available, see page 311.

Latching solenoid also available, see page 41.

With MAC JAC electrical connector washdown capability is possible.

Consult factory for modification number.

## OPTIONS

Pilot/Base Configuration :

32B-**xM-x-Ax-GXXX-XXX**

- A** Individual base – Side port
- B** Individual base – Bottom port
- M** Pilot exhaust muffled
- P** Pilot exhaust piped (# 10-32)
- U** Pilot exhaust to main exhaust (not available with external pilot)

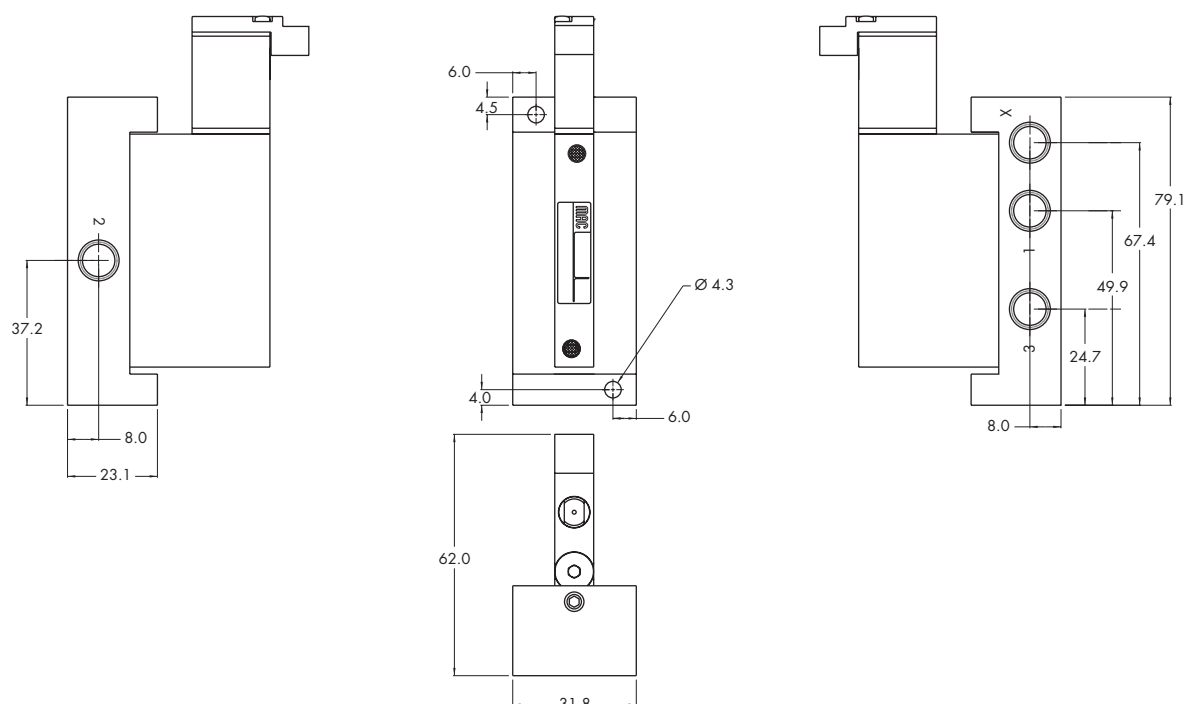
# TECHNICAL DATA

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases                                                     |
| Pressure range :                    | Internal Pilot : 20 to 120 PSI<br>External Pilot : Vacuum to 120 PSI                    |
| Pilot pressure :                    | 20 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 :                              | 1/8" : (0.40 C <sub>v</sub> )                                                           |
| 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 :<br>(with 4 W coil) | Energize : 5 ms<br>De-energize : 5 ms                                                   |

Options : • BSPP threads

# DIMENSIONS

Dimensions shown are metric (mm)



| Function         | Port size                                      | Flow [Max]               | Individual mounting   | Series |
|------------------|------------------------------------------------|--------------------------|-----------------------|--------|
| <b>3/2 NO-NC</b> | <b># 10-32 -<br/>1/4" O.D. tube receptacle</b> | <b>0.4 C<sub>v</sub></b> | Sub-base<br>"plug-in" |        |

## OPERATIONAL BENEFITS

1. 3-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<sub>v</sub>).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



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ISO 01

ISO 02

ISO 1

ISO 2

ISO 3

## HOW TO ORDER

| Port size                            | Pilot air | NO valve                     | NC valve                     | Universal valve              |
|--------------------------------------|-----------|------------------------------|------------------------------|------------------------------|
|                                      |           |                              |                              |                              |
| <b>Valve less base</b>               | Internal  | 32B-BMA-000-G <b>xxP-xxx</b> | 32B-AMA-000-G <b>xxP-xxx</b> |                              |
|                                      | External  | 32B-BMB-000-G <b>xxP-xxx</b> | 32B-AMB-000-G <b>xxP-xxx</b> | 32B-GMB-000-G <b>xxP-xxx</b> |
| <b># 10-32</b>                       | Internal  | 32B-BMA-AAA-G <b>xxP-xxx</b> | 32B-AMA-AAA-G <b>xxP-xxx</b> |                              |
|                                      | External  | 32B-BMB-AAB-G <b>xxP-xxx</b> | 32B-AMB-AAB-G <b>xxP-xxx</b> | 32B-GMB-AAB-G <b>xxP-xxx</b> |
| <b>1/4" O.D.<br/>Tube receptacle</b> | Internal  | 32B-BMA-EAA-G <b>xxP-xxx</b> | 32B-AMA-EAA-G <b>xxP-xxx</b> |                              |
|                                      | External  | 32B-BMB-EAB-G <b>xxP-xxx</b> | 32B-AMB-EAB-G <b>xxP-xxx</b> | 32B-GMB-EAB-G <b>xxP-xxx</b> |

Note : Above codes are for side port.

## STANDARD SOLENOID OPERATOR ►

G **xxP-xxx**\*

| <b>xx</b> Voltage        | <b>x</b> Manual operator      | <b>xx</b> Electrical connection                        |
|--------------------------|-------------------------------|--------------------------------------------------------|
| <b>AA</b> 120 VAC (2.5W) | <b>1</b> Non-locking recessed | <b>SA</b> Base plug-in                                 |
| <b>DA</b> 24 VDC (1.0W)  | <b>2</b> Locking recessed     | <b>SJ</b> Base plug-in with light                      |
| <b>DC</b> 24 VDC (1.8W)  |                               | <b>SS</b> Base plug-in with rectifier & light & ground |
| <b>DD</b> 24 VDC (2.5W)  |                               |                                                        |
| <b>DF</b> 24 VDC (4.0W)  |                               |                                                        |

Note : AC voltage requires connector with rectifier.

\* Other options available, see page 311.

Latching solenoid also available, see page 43.

Washdown capability is possible, consult factory for modification number.

## OPTIONS

Pilot/Base Configuration :

32B-**xMx-xAx-GxxP-xxx**

- A** Individual base – Side port
- B** Individual base – Bottom port

- M** Pilot exhaust muffled
- P** Pilot exhaust piped (# 10-32)
- U** Pilot exhaust to main exhaust (not available with external pilot)

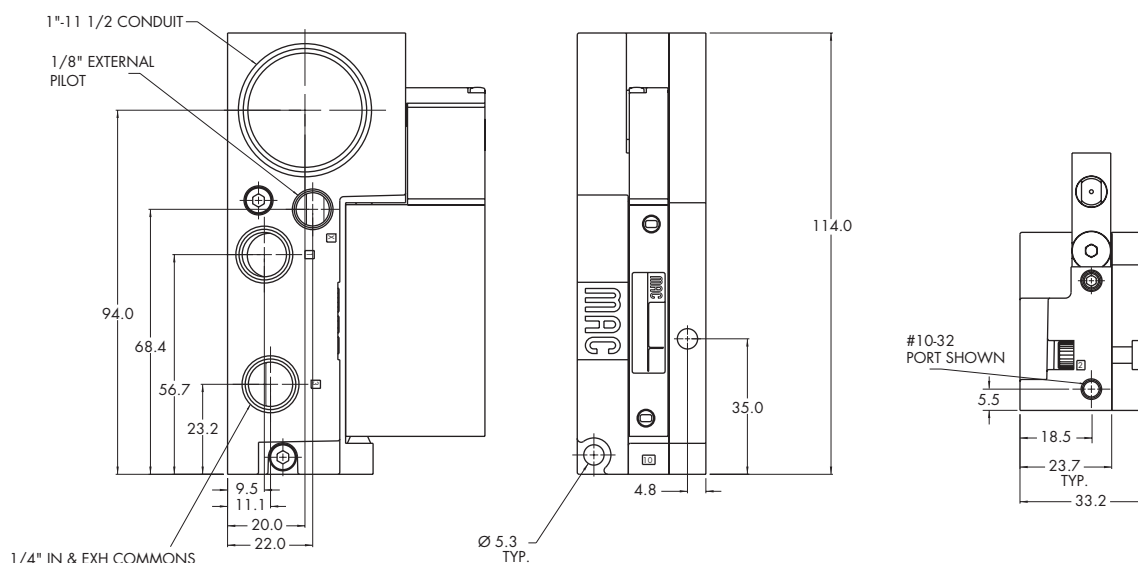
# TECHNICAL DATA

|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases                                                     |
| Pressure range :                    | Internal Pilot : 20 to 120 PSI<br>External Pilot : Vacuum to 120 PSI                    |
| Pilot pressure :                    | 20 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 <sub>v</sub> ) - 1/4 tube receptacle : (0.40 C <sub>v</sub> )         |
| Coil :                              | Class A continuous duty, #22 AWG x 12 base leads                                        |
| Voltage range :                     | -15% to +10% of nominal voltage                                                         |
| Power :                             | 1.0 to 4.0 W                                                                            |
| Response times :<br>(with 4 W coil) | Energize : 5 ms<br>De-energize : 5 ms                                                   |

Options : • M5 port • M7 port • 6 mm O.D. tube receptacle

# DIMENSIONS

Dimensions shown are metric (mm)



| Function         | Port size                                      | Flow [Max]               | Individual mounting         | Series |
|------------------|------------------------------------------------|--------------------------|-----------------------------|--------|
| <b>3/2 NO-NC</b> | <b># 10-32 -<br/>1/4" O.D. tube receptacle</b> | <b>0.4 C<sub>v</sub></b> | Manifold base non "plug-in" |        |

## OPERATIONAL BENEFITS

1. 3-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<sub>v</sub>).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



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ISO 01

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ISO 2

ISO 3

## HOW TO ORDER

| Port size              | Pilot air | NO valve                     | NC valve                     | Universal valve              |
|------------------------|-----------|------------------------------|------------------------------|------------------------------|
|                        |           |                              |                              |                              |
| <b>Valve less base</b> | Internal  | 32B-BMA-000-G <b>XXX-XXX</b> | 32B-AMA-000-G <b>XXX-XXX</b> |                              |
|                        | External  | 32B-BMB-000-G <b>XXX-XXX</b> | 32B-AMB-000-G <b>XXX-XXX</b> | 32B-GMB-000-G <b>XXX-XXX</b> |
| <b># 10-32</b>         | Internal  | 32B-BMA-AJL-G <b>XXX-XXX</b> | 32B-AMA-AJL-G <b>XXX-XXX</b> |                              |
|                        | External  | 32B-BMB-AJM-G <b>XXX-XXX</b> | 32B-AMB-AJM-G <b>XXX-XXX</b> | 32B-GMB-AJM-G <b>XXX-XXX</b> |
| <b>1/4" O.D.</b>       | Internal  | 32B-BMA-EJL-G <b>XXX-XXX</b> | 32B-AMA-EJL-G <b>XXX-XXX</b> |                              |
| <b>Tube receptacle</b> | External  | 32B-BMB-EJM-G <b>XXX-XXX</b> | 32B-AMB-EJM-G <b>XXX-XXX</b> | 32B-FMB-EJM-G <b>XXX-XXX</b> |

Note : Above codes are for side port.

## STANDARD SOLENOID OPERATOR ➤

G **XXX-XXX\***

| XX Voltage               | X Wire length | X Manual operator             | XX Electrical connection                                     |
|--------------------------|---------------|-------------------------------|--------------------------------------------------------------|
| <b>AA</b> 120 VAC (2.5W) | <b>A</b> 18"  | <b>1</b> Non-locking recessed | <b>BA</b> Flying leads                                       |
| <b>DA</b> 24 VDC (1.0W)  | <b>B</b> 24"  | <b>2</b> Locking recessed     | <b>BT</b> Flying leads with light                            |
| <b>DC</b> 24 VDC (1.8W)  | <b>C</b> 36"  |                               | <b>GA</b> MAC JAC Solenoid plug-in                           |
| <b>DD</b> 24 VDC (2.5W)  |               |                               | <b>GB</b> MAC JAC Solenoid plug-in w/Diode                   |
| <b>DF</b> 24 VDC (4.0W)  |               |                               | <b>GC</b> MAC JAC Solenoid plug-in w/MOV                     |
|                          |               |                               | <b>GD</b> MAC JAC Solenoid plug-in w/LED                     |
|                          |               |                               | <b>GE</b> MAC JAC Solenoid plug-in w/Diode & LED             |
|                          |               |                               | <b>GF</b> MAC JAC Solenoid plug-in w/MOV & LED               |
|                          |               |                               | <b>GG</b> MAC JAC Solenoid plug-in w/Rectifier               |
|                          |               |                               | <b>GH</b> MAC JAC Solenoid plug-in w/Rectifier & LED         |
|                          |               |                               | <b>KA</b> Plug-in wire assy.                                 |
|                          |               |                               | <b>KT</b> Plug-in wire assy. with light                      |
|                          |               |                               | <b>KD</b> Plug-in wire assy. with rectifier & light & ground |

Note : AC voltage requires connector with rectifier.

\* Other options available, see page 311.

Latching solenoid also available, see page 41.

With MAC JAC electrical connector washdown capability is possible.

Consult factory for modification number.

## OPTIONS

Base only :

32B-000-**XXX**  
(i.e. 32B-000-AJL)

Base/Pilot Configuration :

32B-**XX**-**XX**-**XX**-G**XXX-XXX**

- J** Manifold base – Side port
- K** Manifold base – Bottom port
- M** Pilot exhaust muffled
- P** Pilot exhaust piped (# 10-32)
- U** Pilot exhaust to main exhaust (not available with external pilot)

Note : Manifold assemblies require an end plate kit :

M-32003-01-01 (Internal pilot)  
M-32003-02-01 (External pilot)

# TECHNICAL DATA

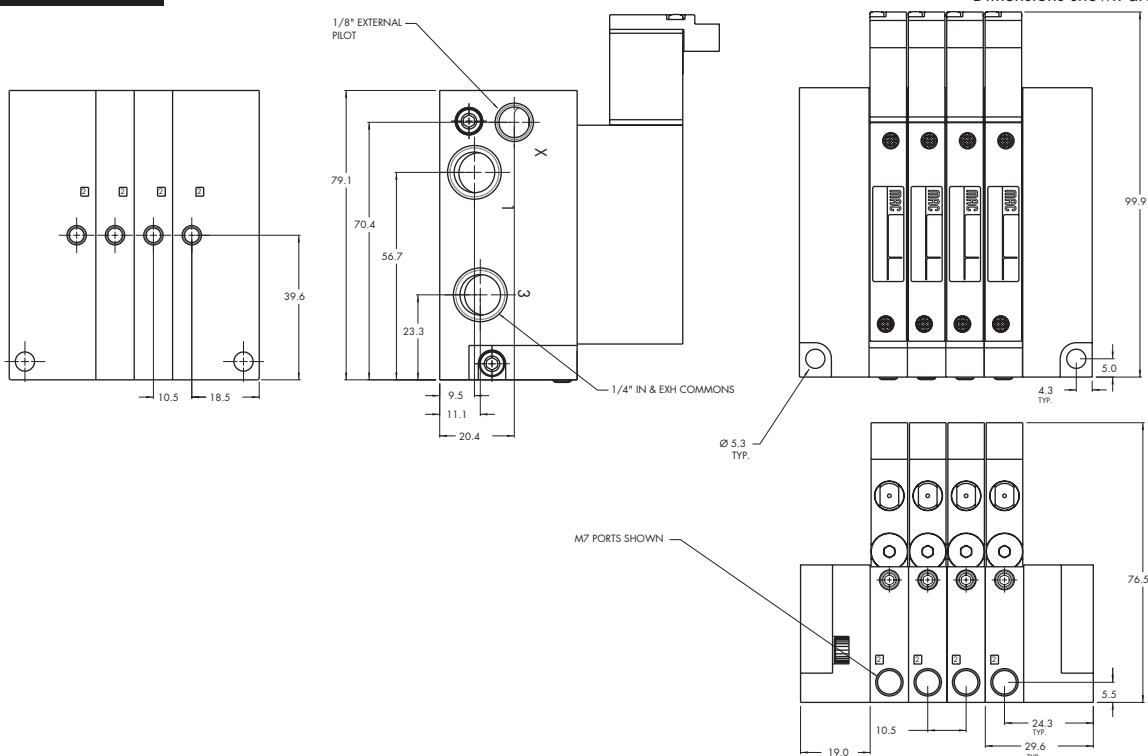
|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases                                                     |
| Pressure range :                    | Internal Pilot : 20 to 120 PSI<br>External Pilot : Vacuum to 120 PSI                    |
| Pilot pressure :                    | 20 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 <sub>v</sub> ) - 1/4 tube receptacle : (0.40 C <sub>v</sub> )         |
| 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 :<br>(with 4 W coil) | Energize : 5 ms<br>De-energize : 5 ms                                                   |

Options :

- M5 port • M7 port • 6 mm O.D. tube receptacle
- Inlet/Exhaust Isolator : 28454

# DIMENSIONS

Dimensions shown are metric (mm)



| Function         | Port size                                      | Flow [Max]               | Individual mounting        | Series |
|------------------|------------------------------------------------|--------------------------|----------------------------|--------|
| <b>3/2 NO-NC</b> | <b># 10-32 -<br/>1/4" O.D. tube receptacle</b> | <b>0.4 C<sub>v</sub></b> | Manifold base<br>"plug-in" |        |

## OPERATIONAL BENEFITS

1. 3-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<sub>v</sub>).
4. Fast, repeatable response times.
5. Maximum shifting forces in both directions.



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ISO 1

ISO 2

ISO 3

## HOW TO ORDER

| Port size              | Pilot air | NO valve                     | NC valve                     | Universal valve              |
|------------------------|-----------|------------------------------|------------------------------|------------------------------|
|                        |           |                              |                              |                              |
| <b>Valve less base</b> | Internal  | 32B-BMA-000-G <b>xxP-xxx</b> | 32B-AMA-000-G <b>xxP-xxx</b> |                              |
|                        | External  | 32B-BMB-000-G <b>xxP-xxx</b> | 32B-AMB-000-G <b>xxP-xxx</b> | 32B-GMB-000-G <b>xxP-xxx</b> |
| <b># 10-32</b>         | Internal  | 32B-BMA-AJA-G <b>xxP-xxx</b> | 32B-AMA-AJA-G <b>xxP-xxx</b> |                              |
|                        | External  | 32B-BMB-AJB-G <b>xxP-xxx</b> | 32B-AMB-AJB-G <b>xxP-xxx</b> | 32B-GMB-AJB-G <b>xxP-xxx</b> |
| <b>1/4" O.D.</b>       | Internal  | 32B-BMA-EJA-G <b>xxP-xxx</b> | 32B-AMA-EJA-G <b>xxP-xxx</b> |                              |
| <b>Tube receptacle</b> | External  | 32B-BMB-EJB-G <b>xxP-xxx</b> | 32B-AMB-EJB-G <b>xxP-xxx</b> | 32B-GMB-EJB-G <b>xxP-xxx</b> |

Note : Above codes are for side port.

## STANDARD SOLENOID OPERATOR ►

G **xx** P-**xxx**\*

| <b>xx</b> Voltage        | <b>x</b> Manual operator      | <b>xx</b> Electrical connection                        |
|--------------------------|-------------------------------|--------------------------------------------------------|
| <b>AA</b> 120 VAC (2.5W) | <b>1</b> Non-locking recessed | <b>SA</b> Base plug-in                                 |
| <b>DA</b> 24 VDC (1.0W)  | <b>2</b> Locking recessed     | <b>SJ</b> Base plug-in with light                      |
| <b>DC</b> 24 VDC (1.8W)  |                               | <b>SS</b> Base plug-in with rectifier & light & ground |
| <b>DF</b> 24 VDC (2.5W)  |                               |                                                        |
| <b>DF</b> 24 VDC (4.0W)  |                               |                                                        |

Note : AC voltage requires connector with rectifier.

\* Other options available, see page 311.

Latching solenoid also available, see page 43.

Washdown capability is possible, consult factory for modification number.

## OPTIONS

Base only :

32B-000-**xxx**  
(i.e. 32B-000-AJA)

Base Configuration :

32B-**xxx-xj**x-G**xx**P-**xxx**

- J** Manifold base – Side port
- K** Manifold base – Bottom port
- L** Left end manifold base – Side port
- M** Left end manifold base – Bottom port
- N** Right end manifold base – Side port
- P** Right end manifold base – Bottom port

Note : Manifold assemblies consist of (1) left end manifold, (1) right end manifold and middle station manifolds (options "J" or "K").

# TECHNICAL DATA

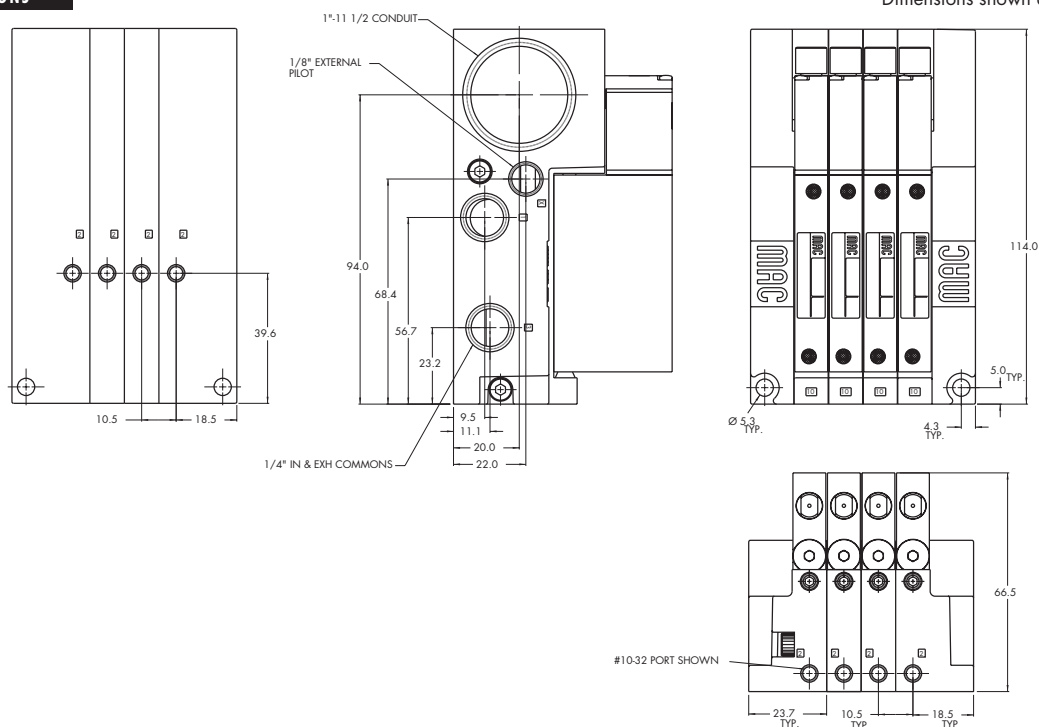
|                                     |                                                                                         |
|-------------------------------------|-----------------------------------------------------------------------------------------|
| Fluid :                             | Compressed air, vacuum, inert gases                                                     |
| Pressure range :                    | Internal Pilot : 20 to 120 PSI<br>External Pilot : Vacuum to 120 PSI                    |
| Pilot pressure :                    | 20 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 <sub>v</sub> ) - 1/4 tube receptacle : (0.40 C <sub>v</sub> )         |
| Coil :                              | Class A continuous duty, #22 AWG x 12 base leads                                        |
| Voltage range :                     | -15% to +10% of nominal voltage                                                         |
| Power :                             | 1.0 to 4.0 W                                                                            |
| Response times :<br>(with 4 W coil) | Energize : 5 ms<br>De-energize : 5 ms                                                   |

Options :

- M5 port • M7 port • 6 mm O.D. tube receptacle
- Inlet/Exhaust Isolator : 28454

# DIMENSIONS

Dimensions shown are metric (mm)





**Codification table for voltages / Manual operator / Electrical connection**

VALVE CODE ➤ **G XX X-X XX**  
**1 2 3 4**

**OPTIONS AVAILABLE FOR**

- Solenoid valves 32, 34, 38, 42, 44 & 48 Series

| 1. VOLTAGE  |                |                                              |
|-------------|----------------|----------------------------------------------|
| G-XX X-X XX | VOLTAGE        |                                              |
| AA          | 120 VAC (2.5W) | Requires electrical connector with rectifier |
| AC          | 24 VAC (4.0W)  | Requires electrical connector with rectifier |
| DA          | 24 VDC (1.0W)  |                                              |
| DC          | 24 VDC (1.8W)  |                                              |
| DD          | 24 VDC (2.5W)  |                                              |
| DE          | 24 VDC (3.0W)  |                                              |
| DF          | 24 VDC (4.0W)  |                                              |
| DG          | 12 VDC (1.0W)  |                                              |
| DJ          | 12 VDC (1.8W)  |                                              |
| DK          | 12 VDC (2.5W)  |                                              |
| DM          | 12 VDC (3.0W)  |                                              |
| DN          | 12 VDC (4.0W)  |                                              |
| DR          | 6 VDC (1.8W)   |                                              |
| DS          | 6 VDC (3.0W)   |                                              |
| EB          | 48 VDC (1.8W)  |                                              |
| EC          | 48 VDC (3.0W)  |                                              |
| ED          | 120 VDC (2.5W) |                                              |
| GD          | 12 VDC (0.5W)  | 34 series only                               |
| GE          | 24 VDC (0.5W)  | 34 series only                               |

| 2. WIRE LENGTH |                                                       |
|----------------|-------------------------------------------------------|
| G-XX X-X XX    | WIRE LENGTH                                           |
| O              | No lead wires (used only with "KJ" & "KM" connectors) |
| A              | 18" coil leads                                        |
| B              | 24" coil leads                                        |
| C              | 36" coil leads                                        |
| D              | 48" coil leads                                        |
| E              | 72" coil leads                                        |
| F              | 96" coil leads                                        |
| G              | 120" coil leads                                       |
| H              | 144" coil leads                                       |
| 1              | 18" base leads                                        |
| 2              | 24" base leads                                        |
| 3              | 36" base leads                                        |
| 4              | 48" base leads                                        |
| 5              | 72" base leads                                        |
| 6              | 96" base leads                                        |
| 7              | 120" base leads                                       |

| 3. MANUAL OPERATOR |                      |
|--------------------|----------------------|
| G-XX X-X XX        | MANUAL OPERATOR      |
| 1                  | Non-locking recessed |
| 2                  | Locking recessed     |
| 3                  | Non-locking extended |
| 4                  | Locking extended     |

| 4. ELECTRICAL CONNECTION |                                                                  |
|--------------------------|------------------------------------------------------------------|
| G-XX X-X XX              | ELECTRICAL CONNECTION                                            |
| BA                       | Flying leads                                                     |
| BB                       | BA with ground wire                                              |
| BC                       | BA with light                                                    |
| BD                       | BA with light and ground wire                                    |
| BE                       | BA with suppression diode                                        |
| BF                       | BA with suppression diode and ground wire                        |
| BG                       | BA with suppression diode and light                              |
| BH                       | BA with suppression diode, light and ground wire                 |
| BN                       | BA with suppression diode and blocking diode                     |
| BP                       | BA with suppression diode, blocking diode and ground wire        |
| BR                       | BA with suppression diode, blocking diode and light              |
| BS                       | BA with suppression diode, blocking diode, light and ground wire |
| GA                       | MAC JAC Solenoid plug-in                                         |
| GB                       | MAC JAC Solenoid plug-in w/Diode                                 |
| GC                       | MAC JAC Solenoid plug-in w/MOV                                   |
| GD                       | MAC JAC Solenoid plug-in w/LED                                   |
| GE                       | MAC JAC Solenoid plug-in w/Diode & LED                           |
| GF                       | MAC JAC Solenoid plug-in w/MOV & LED                             |
| GG                       | MAC JAC Solenoid plug-in w/Rectifier                             |
| GH                       | MAC JAC Solenoid plug-in w/Rectifier & LED                       |
| KA                       | Solenoid plug-in wire assembly                                   |
| KB                       | KA with ground                                                   |
| KC                       | KA with rectifier and light                                      |
| KD                       | KA with rectifier, light and ground                              |
| KE                       | KA with suppression diode                                        |
| KF                       | KA with suppression diode and ground                             |
| KJ                       | Solenoid plug-in housing without wire assembly                   |
| KM                       | Solenoid plug-in housing with ground pin without wire assembly   |
| KN                       | KA with suppression diode and blocking diode                     |
| KP                       | KA with suppression diode, blocking diode and ground             |
| KT                       | KA with light                                                    |
| KU                       | KA with light and ground                                         |
| KV                       | KA with suppression diode and light                              |
| KW                       | KA with suppression diode, light and ground                      |
| KX                       | KA with suppression diode, blocking diode and light              |
| KY                       | KA with suppression diode, blocking diode, light & ground        |

| ELECTRICAL CONNECTION FOR PLUG-IN VALVES |                                                                        |
|------------------------------------------|------------------------------------------------------------------------|
| G-XX X-X XX                              | PLUG-IN OPTIONS                                                        |
| SB                                       | Base plug-in with ground                                               |
| SC                                       | Base plug-in with suppression and blocking diode                       |
| SD                                       | Base plug-in with suppression and blocking diode and ground            |
| SE                                       | Base plug-in with MOV                                                  |
| SF                                       | Base plug-in with MOV and ground                                       |
| SG                                       | Base plug-in with rectifier                                            |
| SH                                       | Base plug-in with rectifier and ground                                 |
| SK                                       | Base plug-in with light and ground                                     |
| SL                                       | Base plug-in with suppression and blocking diode and light             |
| SM                                       | Base plug-in with suppression and blocking diode with light and ground |
| SN                                       | Base plug-in with MOV and light                                        |
| SP                                       | Base plug-in with MOV and light with ground                            |
| SR                                       | Base plug-in with rectifier and light                                  |

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