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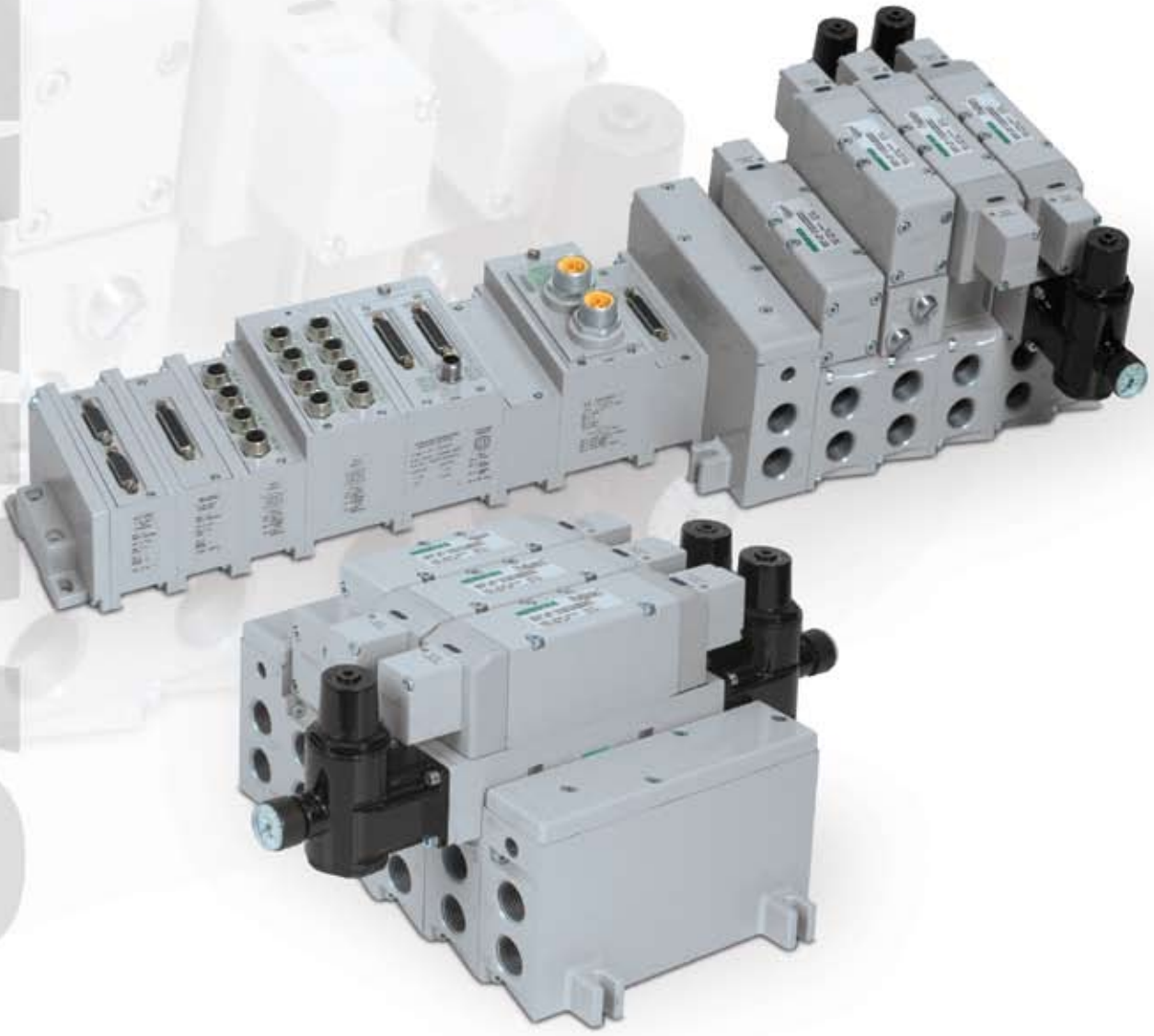
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CATALOG

valves

# 2035 Series

## Solenoid Pilot Actuated Valves



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EMERSON
Industrial Automation

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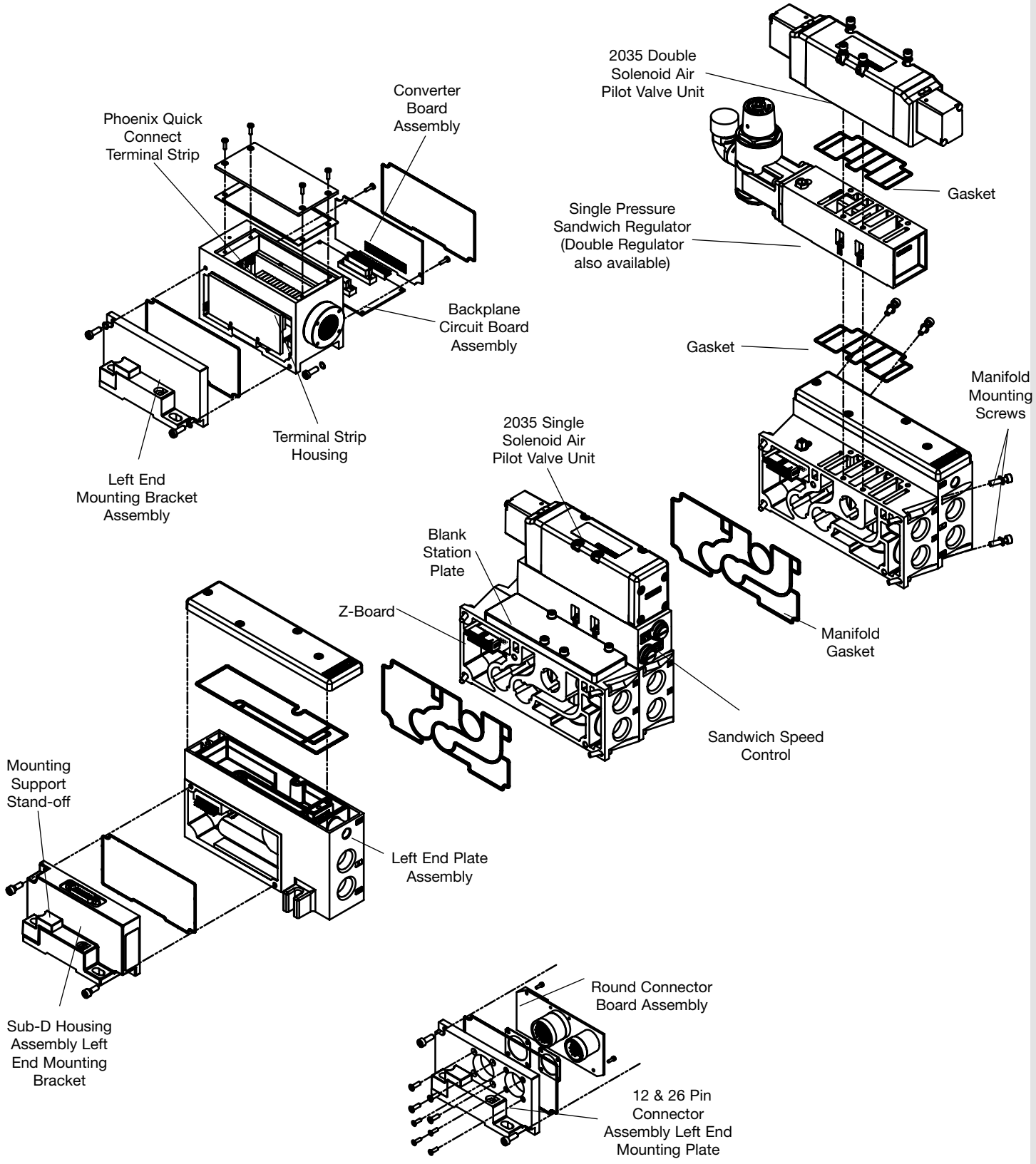
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# Terminal Strip, Sub-D, and Round Connector Options
(exploded view)





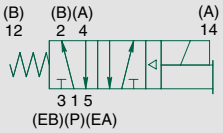
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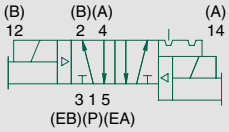
numatics

## 2035 Series

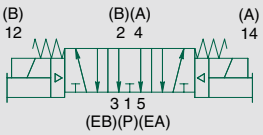
single solenoid air pilot
2 position 4-way



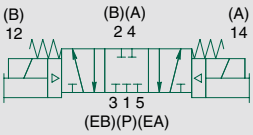

double solenoid air pilot
2 position 4-way




double solenoid air pilot
3 position 4-way
open center




double solenoid air pilot
3 position 4-way
closed center




5 Ported, 2 and 3 position, 4-way, Spool & Sleeve
Cv: 3.5

- Solenoid air pilot actuated
- Low wattage plug-in - 2.5 watt for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- Simple conversion from internal to external pilot supply
- Modular plug-together fieldbus electronics
- Designed to meet NEMA4/IP65
- Manifold connection allows disassembly at any station

CE

## Technical Data

| VALVE DATA | ENGLISH | METRIC |
|---|---|---|
| Cv* | 3.5* | 3.5* |
| Flow Capacity | 161 SCFM @ 80 PSIG upstream pressure to atmosphere | 3500 Nl/m @ 6 bar upstream pressure to 5 bar atmosphere |
| Operating Pressure Range | 28" Hg. Vacuum to 145 PSIG | Vacuum to 10 bar |
| Pilot Pressure Range | 26.1 to 120 PSIG | 1.8 to 8.2 bar |
| Temperature Range (Ambient) | -10°F to +115°F | -23°C to +46°C |

## Operating Data

| ALL SOLENOIDS ARE CONTINUOUS DUTY RATED | 24 VDC | | 110-120 VAC / 50/60 Hz. | |
|---|---|---|---|---|
| Power (Watts) | 2.5 | | 4.2 | |
| Holding Current (Amps) | 0.10 | | 0.03 | |
| **RESPONSE TIME IN SECONDS**** | **ENERGIZE** | **DE-ENERGIZE** | **ENERGIZE** | **DE-ENERGIZE** |
| 2 - Position, Single, Spring Return | .021 | .067 | .015 | .070 |
| 2 - Position, Double, Detented | .017 | N/A | .015 | N/A |
| 3 - Position, Spring Centered | .021 | .072 | .018 | .080 |

* Valve on 1/2 NPTF Sub-Plate
** Per ISO12238 Standard



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# How to Order

## Valves

353 BB 4 Z6 M N 000 61

**Valve Series & Port Size**
353* = 3/8
354 = 1/2
*Use for valve unit only (Mounting = 00)

**Valve Type**
BA = Single Solenoid Pilot, (Spring Return) w/Flush Non-Locking Override
BB = Double Solenoid Pilot w/Flush Non-Locking Override
00 = Blank Station Plate

**Function**
4 = 2 Position, 4-way
5 = 3 Position, 4-way Open Center
6 = 3 Position, 4-way Closed Center
P = Blank Station Plate

**Mounting**
00 = Valve Unit only
3A = Individual Base, Side Ports, Individual Exhaust
3B = Individual Base, Side & Bottom Ports, Individual Exhaust
3C = 3A w/ Speed Control
3D = 3B w/ Speed Control
Z1 = Manifold Block w/Side and Bottom Ports, Single Solenoid Internal Circuit Board
Z2 = Manifold Block w/Side and Bottom Ports Double Solenoid Internal Circuit Board
Z5 = Z1 w/Speed Control
Z6 = Z2 w/Speed Control
R1 = Z1 w/ Ribbon Cable Connector
R2 = Z2 w/ Ribbon Cable Connector
R5 = Z5 w/ Ribbon Cable Connector
R6 = Z6 w/ Ribbon Cable Connector

**Voltage**
20 = 24/50-60 VAC
30 = 110-120/50-60 VAC
60 = 12 VDC
61 = 24 VDC
00 = Blank Station Plate

**Special Options**
11B = Flush Locking Override
11M = No Override
56Y = 12 mm Electrical Connector in Conduit Port of Base Mounting Only

**Port Type**
N = NPTF
G = G Tap
0 = Valve Unit only

**Wiring Option**
K = Plug-in AC w/Light
M = Plug-in DC w/Light
0 = Blank Station Plate

## Regulators

353 RS 3 Z1 J N 000 00

**Valve Series & Port Size**
353* = 3/8
354 = 1/2

*Use for regulator unit only (Mounting = 00).

**Regulator Type**
RS = Single Pressure to Port 1 (P)
RD = Dual Pressure to Ports 3 (EB) & 5 (EA)
RC = Dual Pressure w/Non-relieving Checks
RQ = Dual Pressure w/Relieving Checks
RE = Dual Pressure to Ports 4 (A) & 2 (B)
RT = 2 Pressure Selector

Note: For metric gauge, replace R with E in 4th digit.

**Pressure Range**
1 = 10-130 PSIG (0.7-9 bar)
3 = 3-30 PSIG (0.2-2 bar)
4 = 5-60 PSIG (0.5 - 4 bar)

**Special Options**
12H = Less gauge
16N = Jumper on 14 (A) End
16P = Jumper on 12 (B) End
16W = Top Facing Gauge
000 = No Option

**Port Type**
N = NPTF
G = G Tap
0 = Regulator Unit Only

**Wiring Option**
J = Plug-In Receptacle Assembly
O = Non-Plug-In (Type RE only)

**Mounting**
00 = Regulator Unit Only
Z1 = Manifold Block w/Side and Bottom Ports, Single Solenoid Internal Circuit Board
Z2 = Manifold Block w/Side and Bottom Ports, Double Solenoid Internal Circuit Board
Z5 = Z1 w/Speed Control
Z6 = Z2 w/Speed Control
R1 = Z1 w/Ribbon Cable Connector
R2 = Z2 w/Ribbon Cable Connector
R5 = Z5 w/Ribbon Cable Connector
R6 = Z6 w/Ribbon Cable Connector


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## Manifold Assembly

**A K J B D 0 0 0 0 4 N STD**

**Electrical Connection Type & Location**
F = Terminal Strip 1-16
T = Terminal Strip 1-32
J = 25 Pin Sub-D
M = 37 Pin Sub-D
P = 12 Pin Round Connector
Q = 19 Pin Round Connector
R = 26 Pin Round Connector
S = 26 + 12 Pin Round Connector
C = For Fieldbus Electronics, See Electronics Section

**Valve Series**
B = 2035 Series

**Number of Valve Stations***

| | | | |
|---|---|---|---|
| A = 1 | I = 9 | Q = 17 | Y = 25 |
| B = 2 | J = 10 | R = 18 | Z = 26 |
| C = 3 | K = 11 | S = 19 | 2 = 27 |
| D = 4 | L = 12 | T = 20 | 3 = 28 |
| E = 5 | M = 13 | U = 21 | 4 = 29 |
| F = 6 | N = 14 | V = 22 | 5 = 30 |
| G = 7 | O = 15 | W = 23 | 6 = 31 |
| H = 8 | P = 16 | X = 24 | 7 = 32 |

**Valve Series**
G = 2012 Series
E = 2005 Series
0 = No Second Valve Series

**Number of Valve Stations***

| | | | |
|---|---|---|---|
| A = 1 | I = 9 | Q = 17 | Y = 25 |
| B = 2 | J = 10 | R = 18 | Z = 26 |
| C = 3 | K = 11 | S = 19 | 2 = 27 |
| D = 4 | L = 12 | T = 20 | 3 = 28 |
| E = 5 | M = 13 | U = 21 | 4 = 29 |
| F = 6 | N = 14 | V = 22 | 5 = 30 |
| G = 7 | O = 15 | W = 23 | 6 = 31 |
| H = 8 | P = 16 | X = 24 | 7 = 32 |

**Valve Series**
E = 2005 Series
0 = No Third Valve Series

**Number of Valve Stations***

| | | | |
|---|---|---|---|
| A = 1 | I = 9 | Q = 17 | Y = 25 |
| B = 2 | J = 10 | R = 18 | Z = 26 |
| C = 3 | K = 11 | S = 19 | 2 = 27 |
| D = 4 | L = 12 | T = 20 | 3 = 28 |
| E = 5 | M = 13 | U = 21 | 4 = 29 |
| F = 6 | N = 14 | V = 22 | 5 = 30 |
| G = 7 | O = 15 | W = 23 | 6 = 31 |
| H = 8 | P = 16 | X = 24 | 7 = 32 |

**End Plate Port Size**
4 = 1/2
X = Multiple Valve Groups Resulting in Different Standard End Plate Port Size (2035 = 1/2, 2012 = 3/8)

**Port Type**
N = NPTF
G = G Tap

**Options**
STD = Standard
MUF = Muffler in End Plates
A06 = End Plate with Ports on Left End Only, Mounting Plate Only on Right End
D11 = A06 w/Muffler in End Plates
14X = External Pilot

## Maximum Solenoid Outputs

| TERMINAL STRIP | | 25 PIN SUB-D | 37 PIN SUB-D | 26 PIN ROUND | 26 + 12 PIN ROUND | 12 PIN ROUND | 19 PIN ROUND |
|---|---|---|---|---|---|---|---|
| AK "F" | AK "T" | AK "J" | AK "M" | AK "R" | AK "S" | AK "P" | AK "Q" |
| 16 | 32 | 22 | 32 | 22 | 32 | 8 | 16 |

*NOTE: Maximum number of valve stations is determined by:

- The electrical connection type.
- The valve type - single solenoid valves up to the maximum solenoid outputs allowed by the electrical connection type (see chart above) or a combination of single and/or double solenoid valves not to exceed the maximum number of solenoid outputs allowed.
- Combination of all stations cannot exceed 32.



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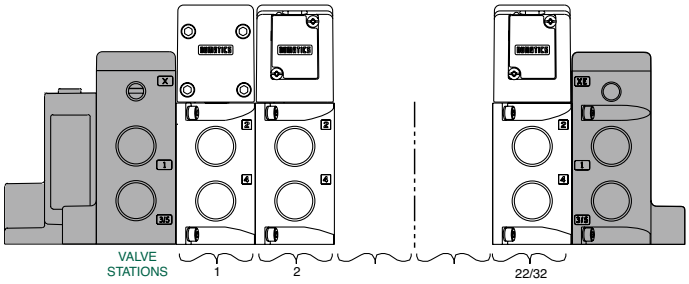


## AKJ or AKM 25 or 37 Pin Sub-D

- Shaded components described by Assembly Kit (AK) model number designation *(page 6).*
- Each valve manifold station is listed in sequential order from left to right when facing the port side of the manifold as indicated.

Example order:

| | |
|---|---|
| 25 Pin Sub-D | AKJBD00004NSTD |
| valve station 1 | 353BA4Z1MN00061 |
| valve station 2 | 353BA4Z1MN00061 |
| valve station 3 | 353BB4Z2MN00061 |
| valve station 4 | 353BB5Z2MN00061 |
| | ASSEMBLED |




Example order:

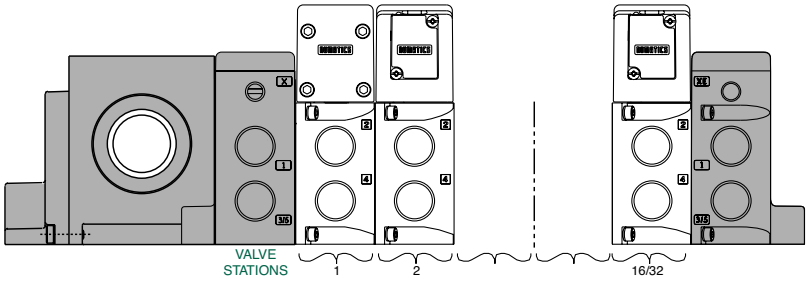
| | |
|---|---|
| 37 Pin Sub-D | AKMBD00004GMUF |
| valve station 1 | 353BA4Z1MG00061 |
| valve station 2 | 353BA4Z1MG00061 |
| valve station 3 | 353BB5Z2MG00061 |
| valve station 4 | 353BB6Z2MG00061 |
| | ASSEMBLED |

## AKF or AKT 1-16 or 1-32 Terminal Strip

- Ordered using the same method as Sub-D:

Example order:

| | |
|---|---|
| | AKFBF00004NSTD |
| valve station 1 | 354BA4Z1MN00061 |
| valve station 2 | 354BA4Z1MN00061 |
| valve station 3 | 354BB4Z2MN00061 |
| valve station 4 | 354BB4Z2MN00061 |
| valve station 5 | 354BB5Z2MN00061 |
| valve station 6 | 354BB6Z2MN00061 |
| | ASSEMBLED |

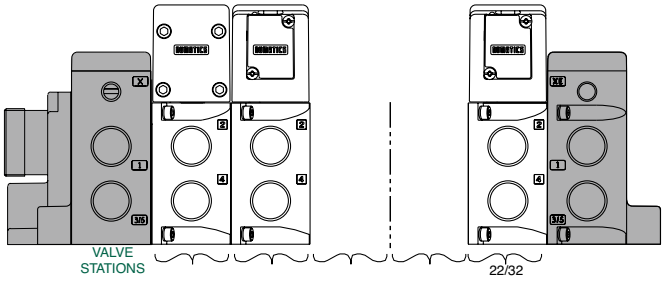



## AKP, AKR or AKS 12, 26 or 26+12 Pin Round Connector

- Ordered using the same method as Sub-D:

Example order:

| | |
|---|---|
| | AKRBH00004NMUF |
| valve station 1 | 354BA4Z1MN00061 |
| valve station 2 | 354BA4Z1MN00061 |
| valve station 3 | 354BA4Z1MN00061 |
| valve station 4 | 354BB4Z6MN00061 |
| valve station 5 | 354BB4Z6MN00061 |
| valve station 6 | 354BB4Z6MN00061 |
| valve station 7 | 354BB5Z6MN00061 |
| valve station 8 | 354BB5Z6MN00061 |
| | ASSEMBLED |



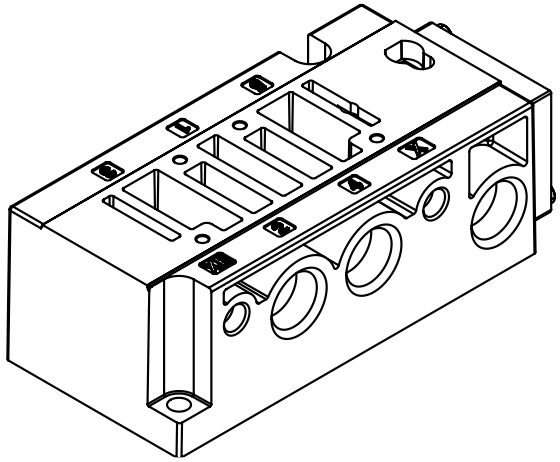


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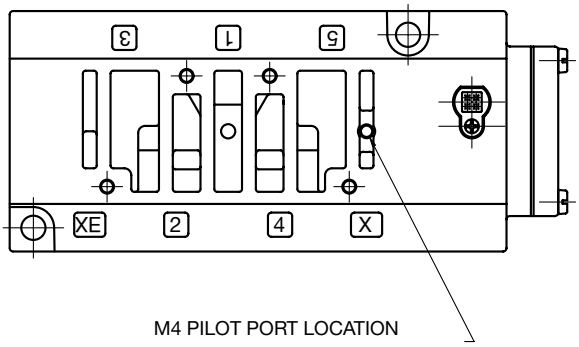


## Individual Base Assembly Kit

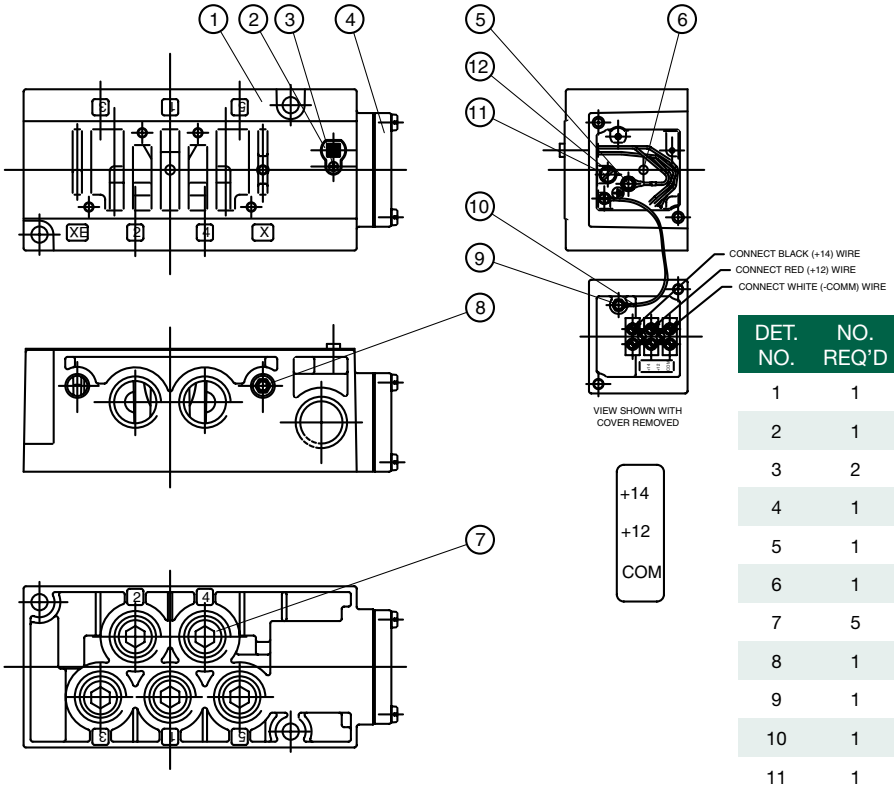


| PORT SIZE | PART NO. |
|---|---|
| 1/2 NPTF Side Ports | 203-1283 |
| 1/2 NPTF Side & Bottom | 203-1284 |
| 3/8 NPTF Side Ports | 203-1287 |
| 3/8 NPTF Side & Bottom | 203-1288 |
| 1/2 G Side Ports | 203-1285 |
| 1/2 G Side & Bottom | 203-1286 |
| 3/8 G Side Ports | 203-1289 |
| 3/8 G Side & Bottom | 203-1290 |

## Internal/External Pilot Selection




Note: Base assemblies are supplied set up for internal pilot supply. To convert to external pilot supply install plug P.N. 129-216 (sold separately) in the “X” gallery as indicated above. Remove the 1/8 NPTF pipe plug from the “X” port to supply pilot pressure.



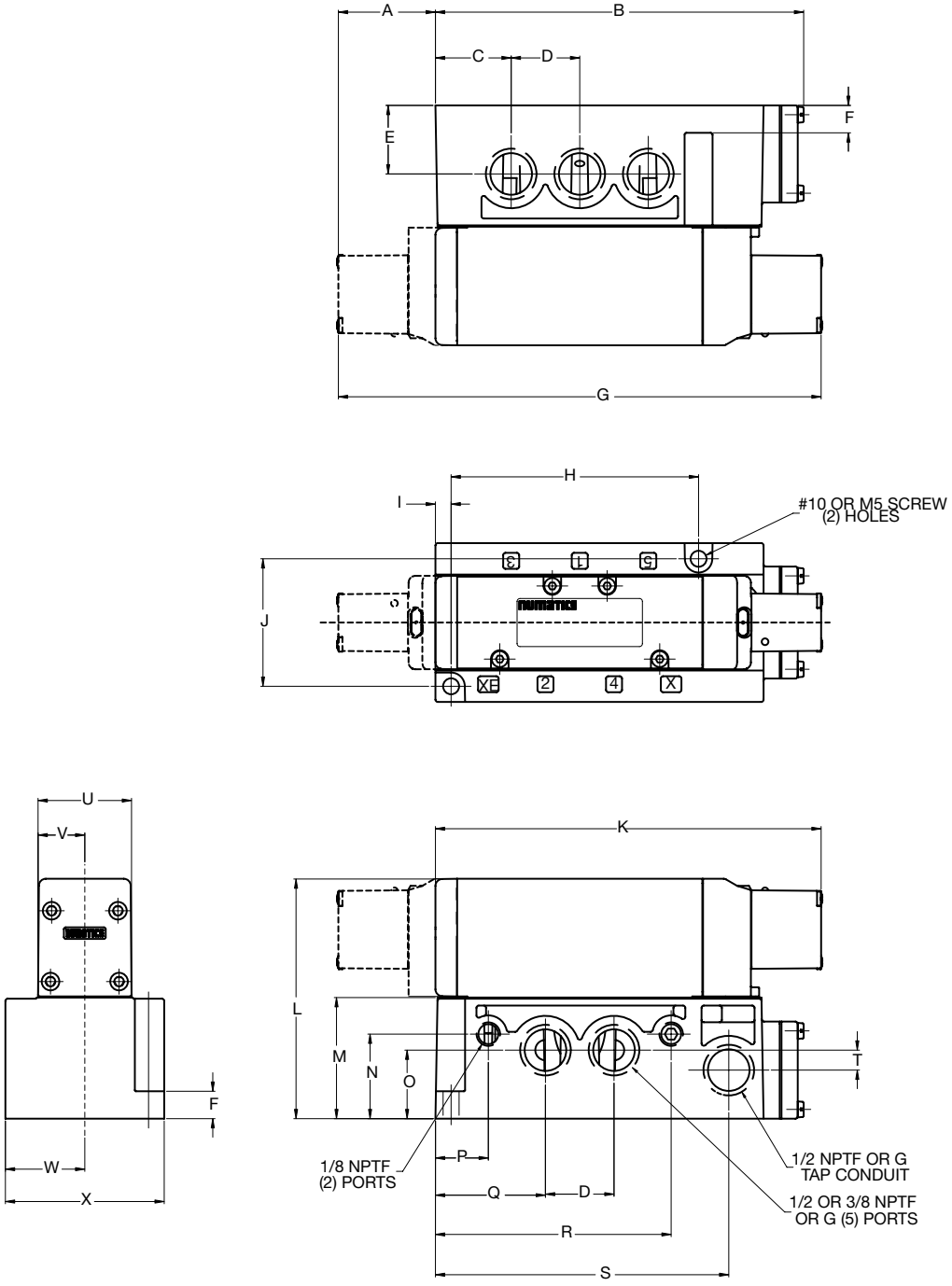

| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Base | 103-893 |
| 2 | 1 | Connector Assembly | 230-1147 |
| 3 | 2 | Screw | 127-318 |
| 4 | 1 | Cover Assembly | 205-389 |
| 5 | 1 | Screw | 127-310 |
| 6 | 1 | 5/32 in. Ball | 121-101 |
| 7 | 5 | 1/2 Pipe Plug | 129-103 |
| 8 | 1 | 1/8 Pipe Plug | 129-100 |
| 9 | 1 | Screw | 127-172 |
| 10 | 1 | Strap | 125-772 |
| 11 | 1 | Screw | 127-176 |
| 12 | 1 | Washer | 128-162 |



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## Valve on Individual Base




## Dimensions

top dimensions = inches
bottom dimensions (in parenthesis) = millimeters

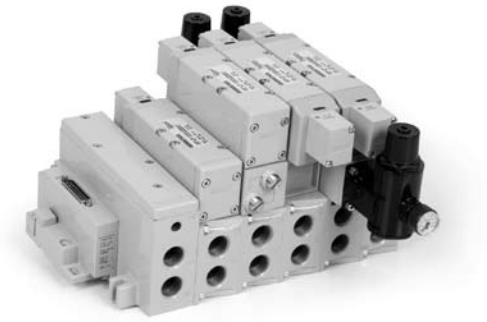
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.67 (42.5) | 6.35 (161.2) | 1.31 (33.2) | 1.18 (30.0) | 1.18 (30.0) | 0.47 (12.0) | 8.32 (211.3) | 4.26 (108.3) | 0.27 (6.9) | 2.20 (55.8) | 6.64 (168.8) | 4.13 (104.9) | 2.09 (53.0) | 1.46 (37.0) | 1.18 (30.0) | 0.91 (23.2) |

| Q | R | S | T | U | V | W | X |
|---|---|---|---|---|---|---|---|
| 1.90 (48.2) | 4.06 (103.2) | 5.06 (128.4) | 0.35 (8.8) | 1.61 (40.9) | 0.81 (20.5) | 1.37 (34.8) | 2.74 (69.5) |





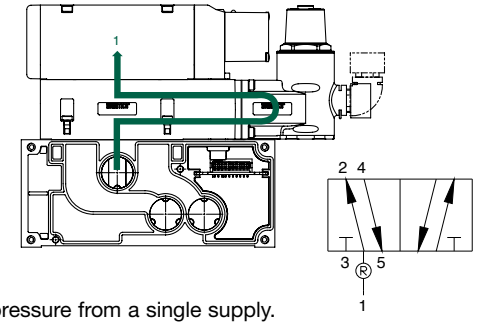
# Sandwich Pressure Regulators
# Types: RS / RD / RE / RT / RC / RQ



When ordering a valve with a regulator mounted on a manifold, list the valve unit model number only and include the mounting requirements with the regulator.
Specify “Assembled.”

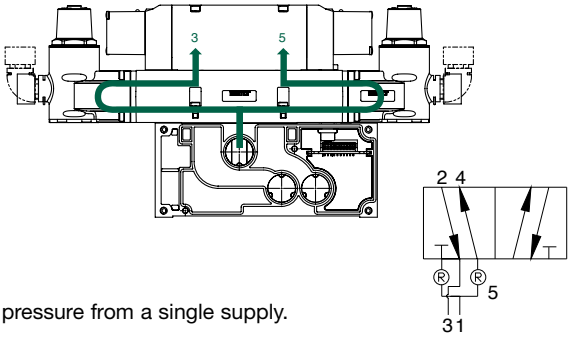
| EXAMPLE ORDERS: | TYPE RS | TYPE RD |
|---|---|---|
| Valve unit only: | 353BA400K000030 | 353BB400M0000061 |
| Regulator +mounting | 353RS1Z1JN00000 ASSEMBLED | 353RD1Z2JN00000 ASSEMBLED |

## Type RS



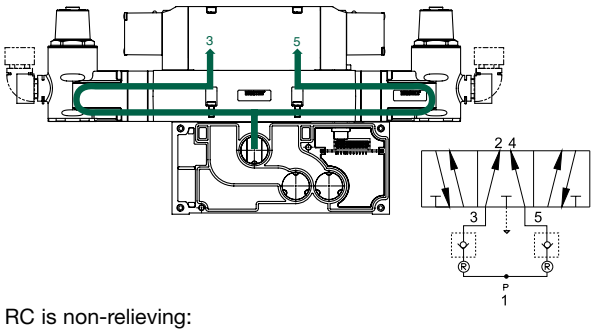

Single pressure from a single supply.

## Type RD



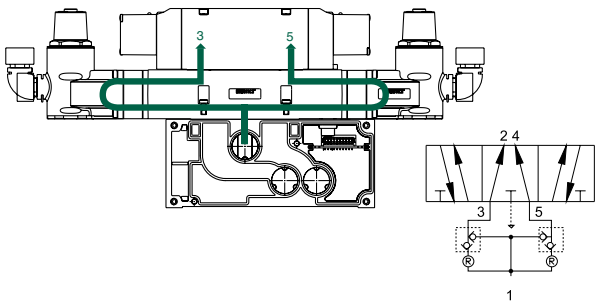

Dual pressure from a single supply.

## Type RC



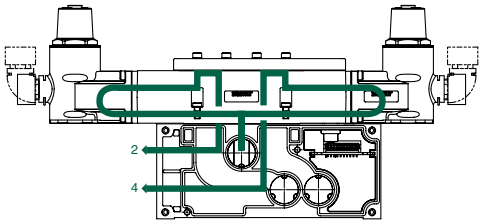

Type RC is non-relieving:
Traps downstream pressure if upstream pressure is exhausted.

## Type RQ



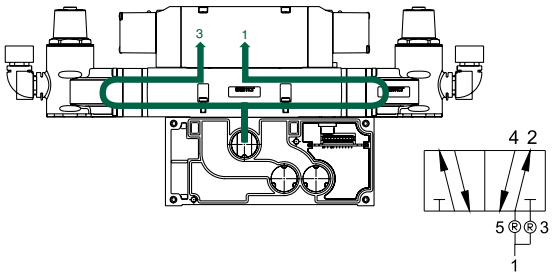

Type RQ is relieving:
Exhausts pressure in cylinder if upstream pressure is exhausted.

## Type RE




External regulator - separate pressures to ports 2 and 4.

## Type RT



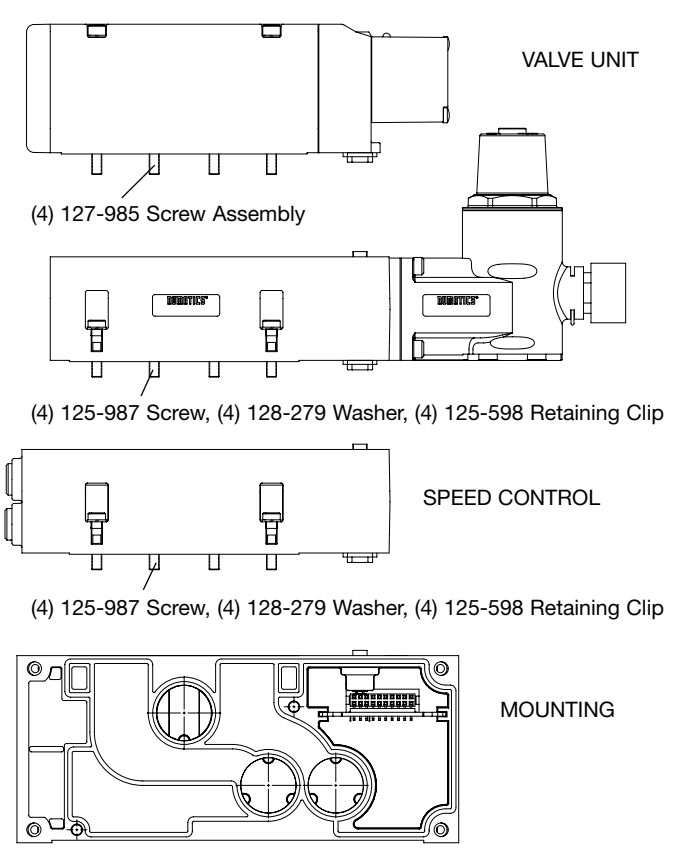

Two-pressure selector used for multi-pressure applications.



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## Valve Regulator / Speed Control Plug-in Assembly



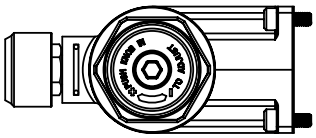

353BA400M000061

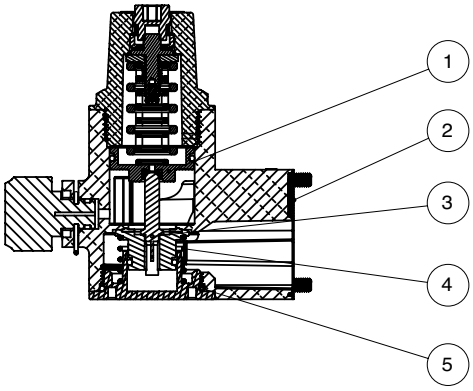
354RS4Z5JN00000

## Regulator Kits & Service Parts

Regulator Service Kit 239-2256

Check Assembly Kits RC: 239-2254
RQ: 239-2253






### Regulator Unit Kits
(includes regulator assembly, gaskets, screws)

| PSIG | PART NO. |
|---|---|
| 3-30 PSIG | 239-2220 |
| 5-60 PSIG | 239-2221 |
| 10-130 PSIG | 239-2222 |

### Bonnet Springs

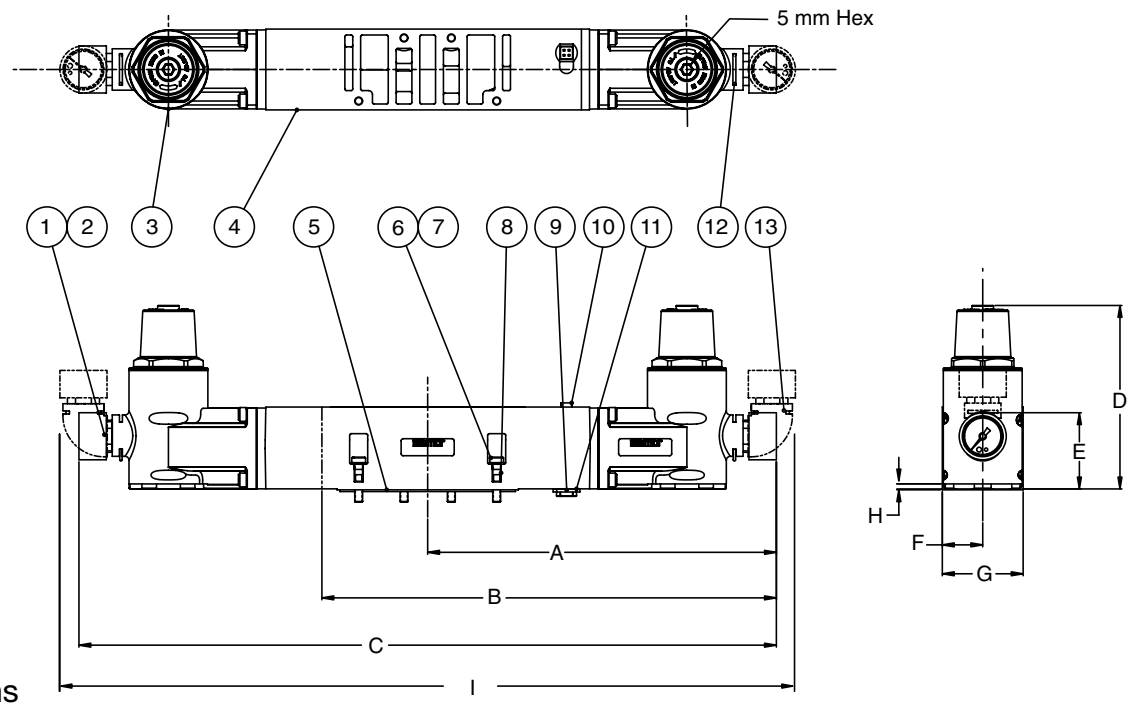
| PSIG | PART NO. |
|---|---|
| 3-30 PSIG | 115-428 |
| 5-60 PSIG | 115-429 |
| 10-130 PSIG* | 115-426 |
| *Both springs required | 115-427 |

| DET. NO. | NO. REQ'D | PART NAME |
|---|---|---|
| 1 | 1 | Piston Assembly |
| 2 | 1 | Gasket |
| 3 | 1 | Poppet Valve Assembly |
| 4 | 1 | Spring |
| 5 | 1 | O-Ring |





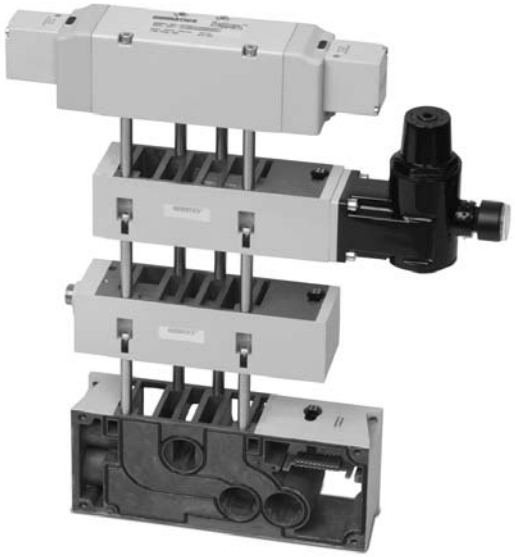
# Sandwich Pressure Regulator




## Dimensions

top dimensions = inches
bottom dimensions (in parenthesis) = millimeters

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 6.97<br>(177.1) | 9.07<br>(230.7) | 13.94<br>(354.1) | 3.67<br>(93.1) | 1.52<br>(38.6) | 0.79<br>(20.5) | 1.57<br>(41.0) | 0.02<br>(0.46) | 14.69<br>(373.1) |



## Gauge Kit

| 160 PSI | 11 bar max. | 60 PSI | 4 bar max. |
|---|---|---|---|
| 214-214 | 214-215 | 214-219 | 214-220 |

Gauge Adaptor Kit 1/8 NPTF 239-1561

Elbow Kit 239-1217

## Parts List

| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1* | Gauge 160 PSI max. | 214-212 |
| 1 | 1* | Gauge 11 Bar max. | 214-213 |
| 1 | 1* | Gauge 60 PSI max. | 214-217 |
| 1 | 1* | Gauge 4 Bar max. | 214-218 |
| 2 | 1* | O-Ring | 126-105 |
| 3 | 1* | Regulator | See pg 11 |
| 4 | 1 | Regulator Block | RS 125-1102<br>RD, RC, RQ 125-1103<br>RT 125-1104<br>RE 125-1105 |
| 5 | 1 | Gasket | 113-623 |
| 6 | 4 | Screw | 127-987 |
| 7 | 4 | Lockwasher | 128-279 |
| 8 | 4 | Screw Retaining Clip | 125-598 |
| 9 | 1 | Screw | 127-318 |
| 10 | 1 | Plug Assembly | 230-1123 |
| 11 | 1 | Gasket | 113-618 |
| 12 | 1* | Pin | 131-236 |
| 13 | 1* | Elbow | 134-505 |

* (2) Required for RD

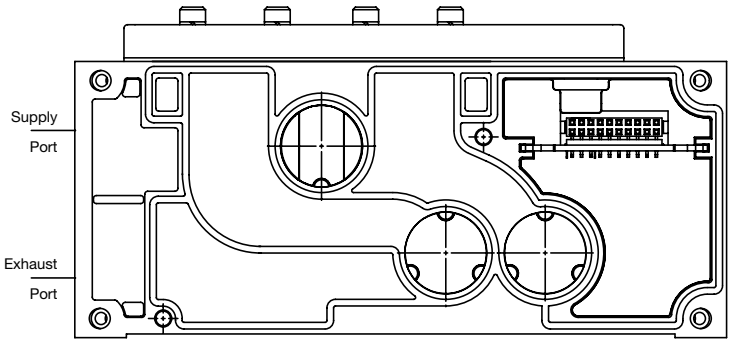
Note: RC and RQ require Check Ass'y Kits p. 8



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## Mid-Station Supply and Exhaust Block

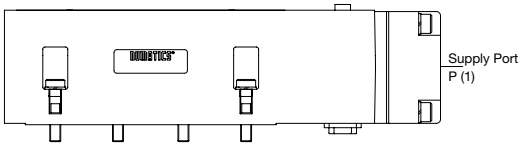


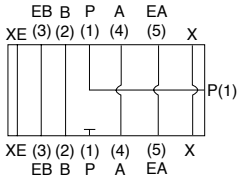

- Add additional supply and exhaust capacity to large manifold assemblies
- Add different pressure to manifold section with use of blocking disks
- Same size as standard manifold block with blank station plate

### Mid-Station Supply & Exhaust Block Kit

| PORT TYPE | PART NO. |
|---|---|
| NPTF 1/2 | 239-2224 |
| G 1/2 | 239-2225 |

## Sandwich Pressure Block



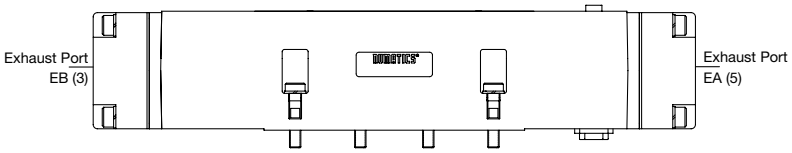



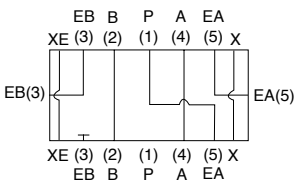

- Used to supply a separate pressure to a single valve station without needing blocking disks.

### Sandwich Pressure Block Kit

| PORT TYPE | PART NO. |
|---|---|
| NPTF 3/8 | 239-2227 |
| G 3/8 | 239-2228 |

## Sandwich Exhaust Block




- Used to isolate the exhaust of a single valve station from the manifold.
- Allows faster exhaust response by re-routing.
- Exhaust externally to the manifold.

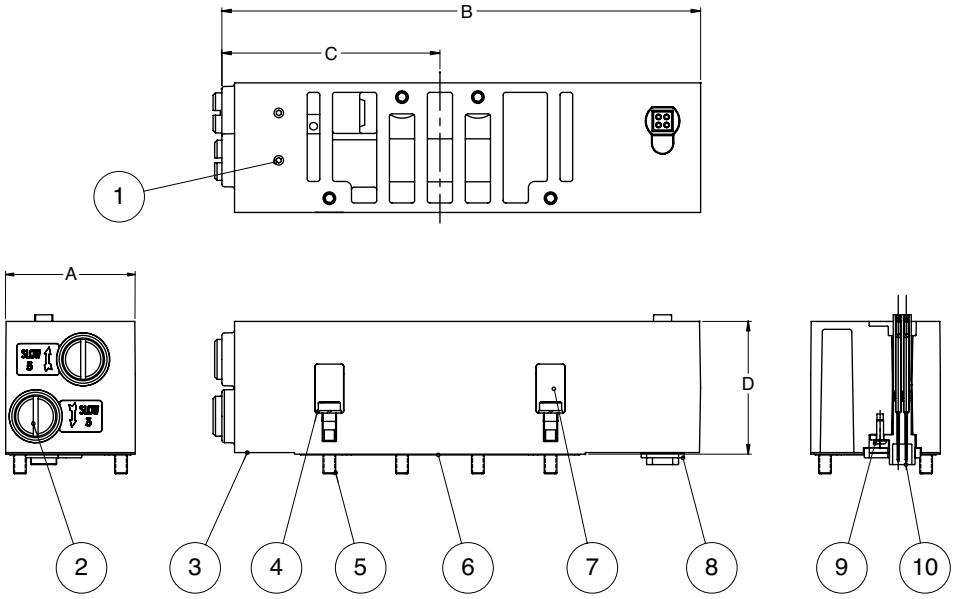
### Sandwich Exhaust Block Kit

| PORT TYPE | PART NO. |
|---|---|
| NPTF 3/8 | 239-2229 |
| G 3/8 | 239-2230 |





## Speed Control Kit 239-2223



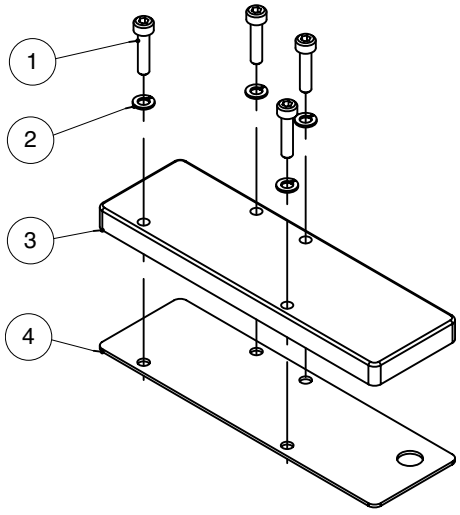

### Dimensions

top dimensions = inches
bottom dimensions (in parenthesis) = millimeters

| A | B | C | D |
|---|---|---|---|
| 1.61<br>(41.0) | 5.96<br>(151.5) | 2.72<br>(69.0) | 1.65<br>(42.0) |

| DET. NO. | NO. REQ'D. | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 2 | Retaining Screw | 127-686 |
| 2 | 2 | Metering Screw | 118-179 |
| 3 | 1 | Speed Control Body | 125-1099 |
| Not Shown | 2 | Nylon Rod | 125-602 |
| 4 | 4 | Washer | 128-279 |
| 5 | 4 | Screw | 127-987 |
| 6 | 1 | Gasket | 113-623 |
| 7 | 4 | Retaining Clip | 125-598 |
| 8 | 1 | Gasket | 113-618 |
| 9 | 1 | Screw | 127-318 |
| 10 | 1 | Plug Assembly | 230-1123 |

## Blank Station Plate 239-2218



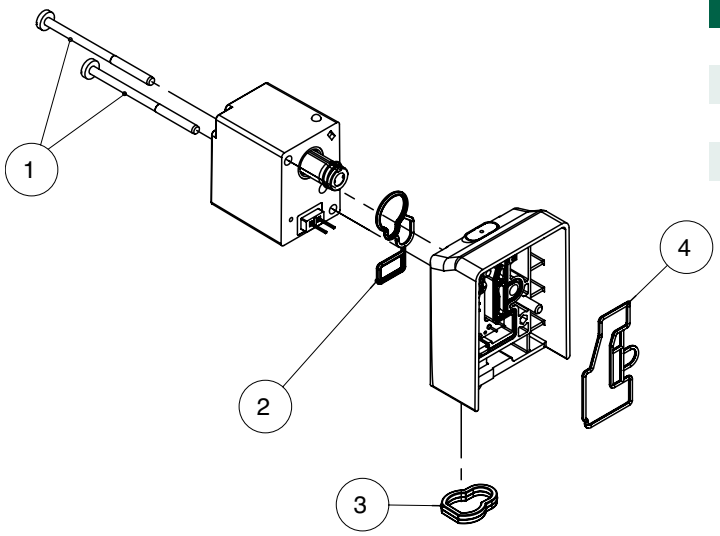

| DET. NO. | NO. REQ'D. | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 4 | Screw | 127-398 |
| 2 | 4 | Washer | 128-279 |
| 3 | 1 | Blank Station Plate | 104-809 |
| 4 | 1 | Gasket | 113-624 |



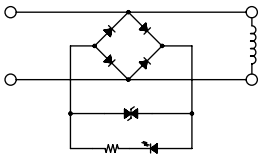
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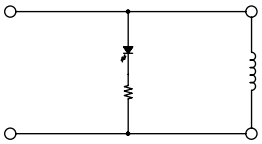
## Solenoid Pilot Assembly




| DET. NO. | NO. REQ'D. | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 2 | Screw | 127-823 |
| 2 | 1 | Gasket | 113-617 |
| 3 | 1 | Gasket | 113-618 |
| 4 | 1 | Gasket | 113-619 |



DC Solenoid
Circuit Diagram



AC Solenoid
Circuit Diagram

| DESCRIPTION | 12 VDC | 24 VDC | 24 VAC | 120 VAC |
|---|---|---|---|---|
| 14 end, push non-locking override | 236-561 | 236-562 | 237-1169 | 237-1168 |
| 12 end, push non-locking override | 236-557 | 236-558 | 237-1163 | 237-1162 |
| 14 end, turn & lock override | 236-563 | 236-564 | 237-1171 | 237-1170 |
| 12 end, turn & lock override | 236-555 | 236-556 | 237-1165 | 237-1164 |
| 14 end, no override | 236-559 | 236-560 | 237-1167 | 237-1166 |
| 12 end, no override | 236-553 | 236-554 | 237-1161 | 237-1160 |

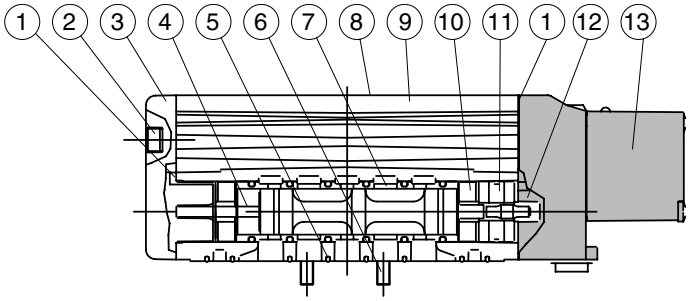

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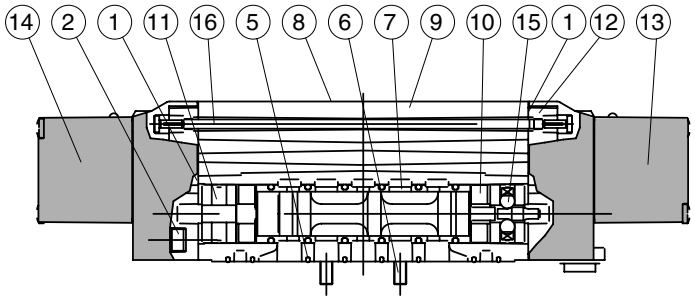


# Valve Service Kits and Parts

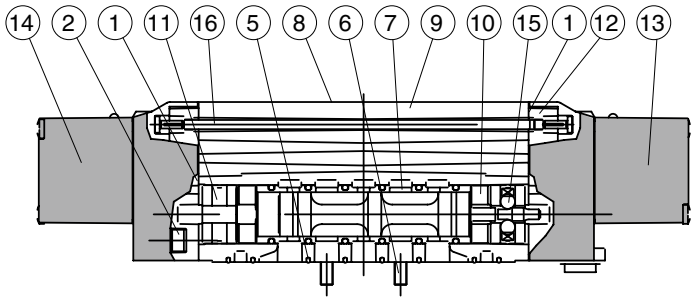
## Kit No. 2035-K1*
(For Models BA4)




## Kit No. 2035-K2*
(For Models BB4)




## Kit No. 2035-K3*
(For Models BB5)



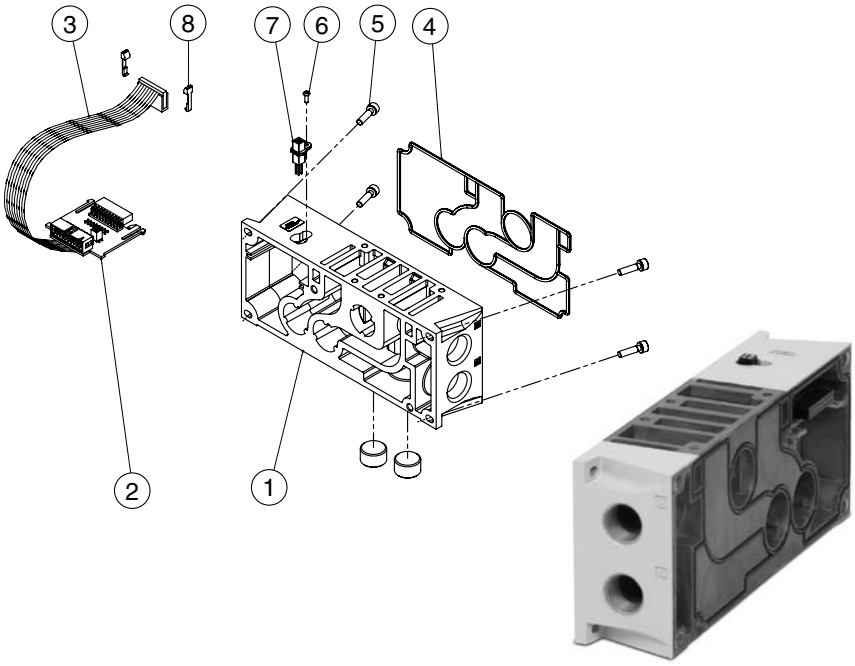

| DET. NO. | NO. REQ'D BA4 | BB4 | BB5 | BB6 | PART NAME | PART NO. |
|---|---|---|---|---|---|---|
| *1 | 2 | 2 | 2 | 2 | Gasket | 113-620 |
| 2 | 8 | 8 | 8 | 8 | Screw Assembly | 127-396 |
| 3 | 1 | N/A | N/A | N/A | Spring Cover | 104-808 |
| *4 | 1 | N/A | N/A | N/A | Spring | 115-248 |
| *5 | 1 | 1 | 1 | 1 | Gasket | 113-623 |
| 6 | 4 | 4 | 4 | 4 | Screw Assembly | 127-985 |
| 7 | 1 | 1 | N/A | N/A | Spool & Sleeve Ass'y | 209-571 |
| 7 | N/A | N/A | 1 | N/A | Spool & Sleeve Ass'y | 209-481 |
| 7 | N/A | N/A | N/A | 1 | Spool & Sleeve Ass'y | 209-482 |
| 8 | 1 | 1 | 1 | 1 | Nameplate | 122-1186 |
| 9 | 1 | 1 | 1 | 1 | Body | 101-852 |
| *10 | 2 | 2 | N/A | N/A | Bumper | 114-170 |
| *11 | 1 | 1 | N/A | N/A | Detent Body | 110-113 |
| 12 | 1 | 2 | 2 | 2 | Pilot Plate | 119-761 |
| 13 | 1 | 1 | 1 | 1 | Solenoid Pilot Ass'y-14 End | See pg 15 |
| 14 | N/A | 1 | 1 | 1 | Solenoid Pilot Ass'y-12 End | See pg 15 |
| *15 | N/A | 1 | N/A | N/A | Detent Assembly | 210-116 |
| 16 | N/A | 1 | 1 | 1 | 12 to 14 Connector | 230-1100 |
| *17 | N/A | N/A | 2 | 2 | Spring Retainer | 116-488 |
| *18 | N/A | N/A | 2 | 2 | Spring | 115-364 |
| *19 | N/A | N/A | 2 | 2 | Spacer | 116-534 |
| *20 | N/A | N/A | 2 | 2 | Bumper | 114-146 |



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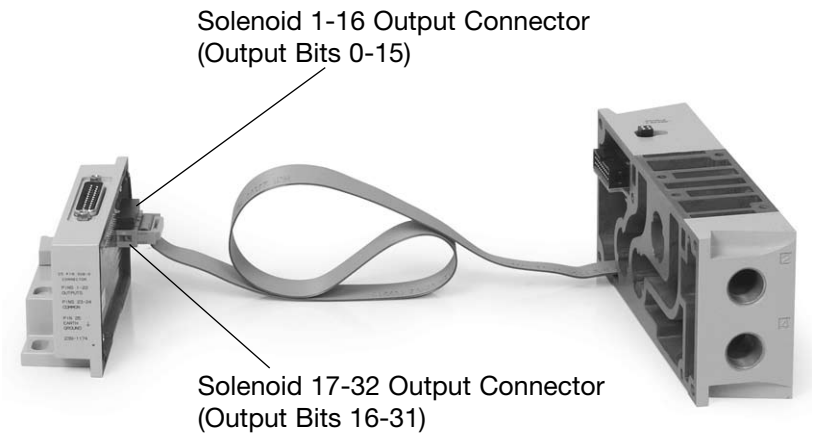
## Manifold Assemblies




| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Manifold Block | Not sold separately |
| 2 | 1 | "Z-Board"™ | Not sold separately |
| 3 | 1 | Ribbon Cable Ass'y | 230-1127 |
| 4 | 1 | Gasket | 113-622 |
| 5 | 4 | Screw | 127-986 |
| 6 | 1 | Screw | 127-318 |
| 7 | 1 | Electrical Plug Ass'y | 230-1124 |
| 8 | 2 | Snap in Latch | 140-721 |

| MANIFOLD ASSEMBLY KITS | | | | |
|---|---|---|---|---|
| Side Cylinder Ports/Bottom Cylinder Ports | 1/2 NPTF/3/8 NPTF | G 1/2/G 3/8 | 3/8 NPTF/3/8 NPTF | G 3/8/G 3/8 |
| Single, "Z-Board"™ | 206-1608 | 206-1610 | 206-1609 | 206-1611 |
| Double "Z-Board"™ | 206-1612 | 206-1614 | 206-1613 | 206-1615 |
| Single, "Z-Board"™ w/ Ribbon Cable | 206-1620 | 206-1622 | 206-1621 | 206-1623 |
| Double, "Z-Board"™ w/ Ribbon Cable | 206-1616 | 206-1618 | 206-1617 | 206-1619 |

## Ribbon Cable Assembly Kit 239-2226




| NO. REQ'D. | PART NAME | PART NO. |
|---|---|---|
| 1 | Ribbon Cable Assembly | 230-1127 |
| 2 | Snap In Latch | 140-721 |

Ribbon cable option used for manifold assemblies that exceed 16 solenoids.

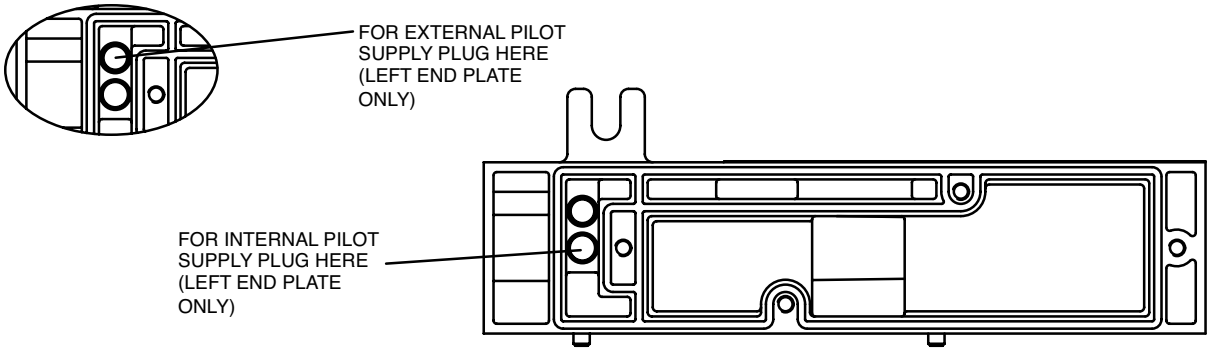



Label on manifold block indicates installed---"Z-Board"™ type.

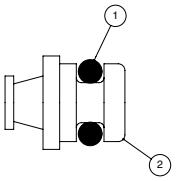




## Internal/External Pilot Selection

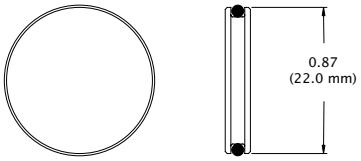



## Internal Pilot Plug 213-590

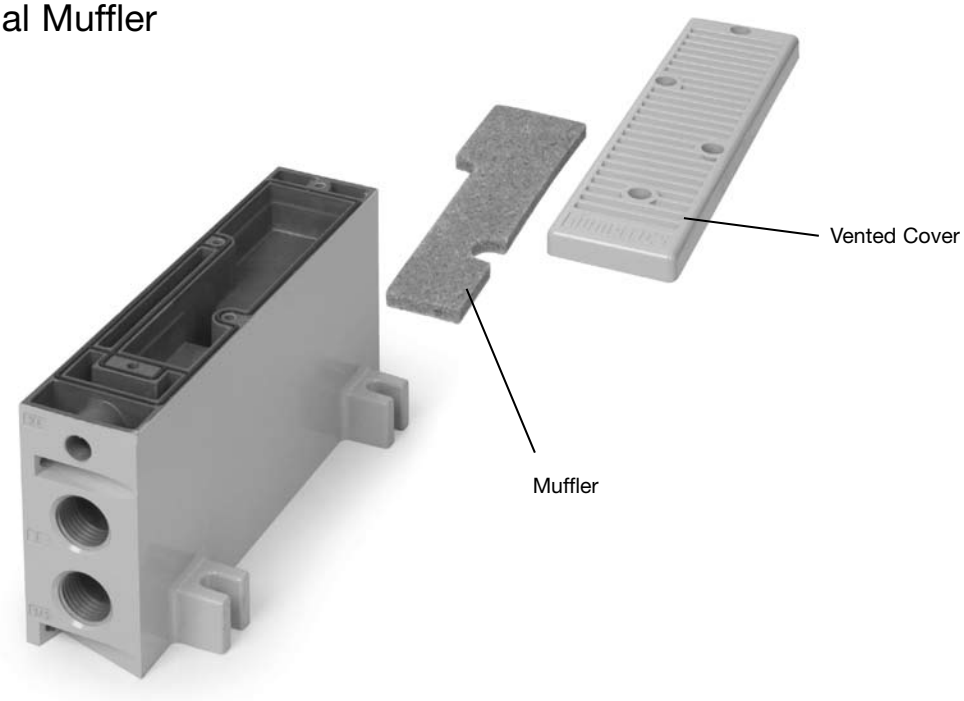



| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | O-Ring | 125-1107 |
| 2 | 1 | Plug | 126-101 |

## Blocking Disc 239-2219




## Optional Internal Muffler

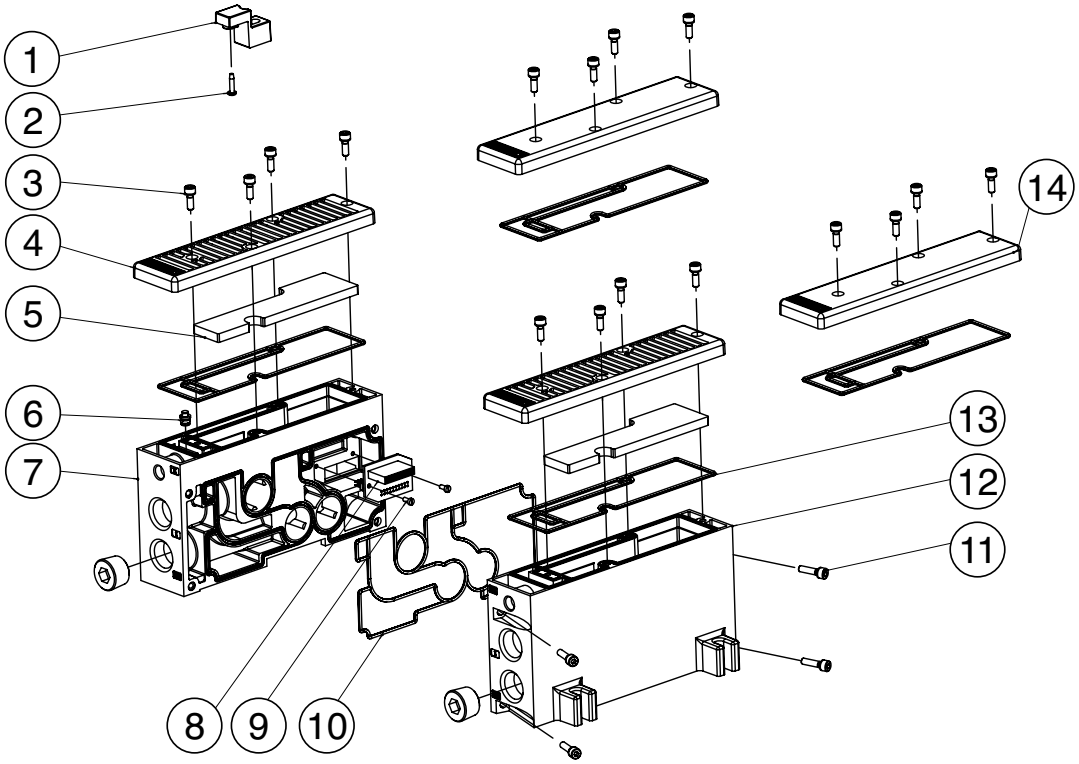





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## End Plate Kit




| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Mounting Support Stand-Off | 125-1106 |
| 2 | 1 | Screw | 127-137 |
| 3 | 8 | Screw | 127-396 |
| 4 | 2 | Muffler Cover Plate | 105-457 |
| 5 | 2 | Muffler | 125-1098 |
| 6 | 1 | Pilot Plug Assembly | 213-590 |
| 7 | 1 | L.H. End Plate | Not sold separately |
| 8 | 1 | Trans Conn. Board Assembly | 256-879 |
| 9 | 2 | Screw | 127-794 |
| 10 | 1 | Gasket | 113-622 |
| 11 | 4 | Screw | 127-986 |
| 12 | 1 | R.H. End Plate | Not sold separately |
| 13 | 2 | Cover Gasket | 113-621 |
| 14 | 2 | End Plate Cover | 105-456 |

| PORT TYPE | NPTF | | | G | | |
|---|---|---|---|---|---|---|
| PORT | 1 | 3/5 | X, XE | 1 | 3/5 | X, XE |
| PORT SIZE | 1/2 | 1/2 | 1/8 | 1/2 | 1/2 | 1/8 |
| Kit with muffler | 239-2205 | | | 239-2207 | | |
| Kit w/o muffler | 239-2206 | | | 239-2208 | | |

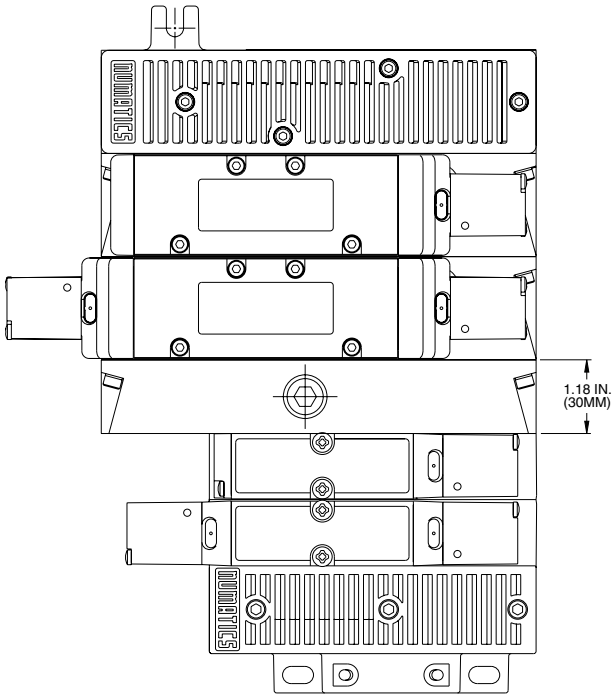

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## Adaptor Plate Kit 239-2278

This kit includes the adaptor plate, transfer board, gasket, screws, and studs. Individual end plates for the 2035 and 2012 are not included. This adaptor allows the transition from the 2035 to the 2012 series.




Example order*

| | |
|---|---|
| Adaptor Plate Kit | AKJBBGB00XNMUF |
| | 354BA4Z2MN00061 |
| | 354BB4Z2MN00061 |
| | 122BA4Z1MN00061 |
| | 122BB4Z2MN00061 |
| | ASSEMBLED |

*Valve series identifier for 2012 Series = G.

## Adaptor Plate Kits with End Plates

### Adaptor Plate Kit with Standard End Plates ("STD" Option)

| DESCRIPTION | PART NO. |
|---|---|
| 2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF | 239-2279 |
| 2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap | 239-2280 |
| 2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF w/o L.H. Cover | 239-2283 |
| 2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap w/o L.H. Cover | 239-2284 |

### Adaptor Plate Kit with Standard End Plates and Muffler ("MUF" Option)

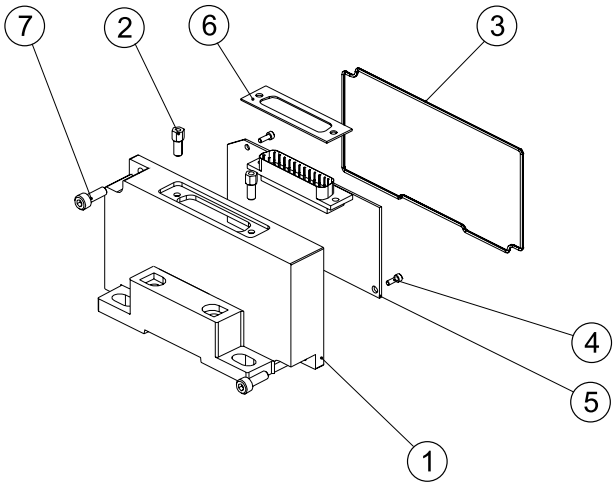
| DESCRIPTION | PART NO. |
|---|---|
| 2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF | 239-2281 |
| 2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap | 239-2282 |
| 2035 with 1/2 NPTF - 2012 with 3/8 and 1/2 NPTF w/o L.H. Cover | 239-2285 |
| 2035 with 1/2 G-Tap - 2012 with 3/8 and 1/2 G-Tap w/o L.H. Cover | 239-2286 |



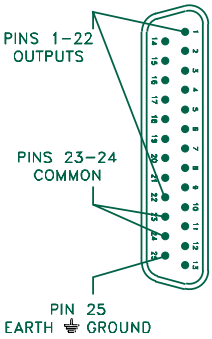
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## 25 Pin Sub-D Connector Kit 239-1174

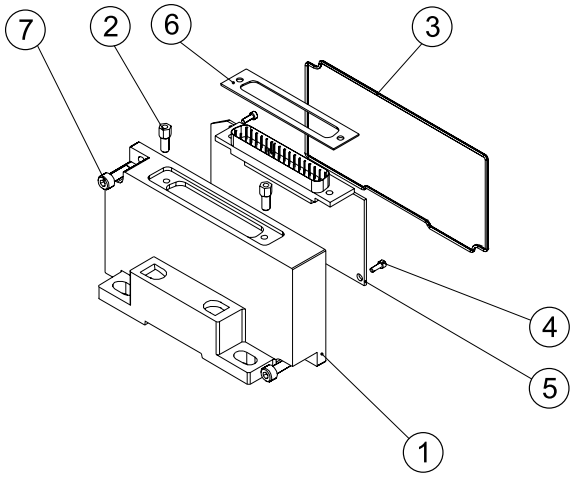



| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Housing | 105-401 |
| 2 | 2 | Hex Screw | 127-825 |
| 3 | 1 | Gasket | 113-531 |
| 4 | 2 | Screw | 127-318 |
| 5 | 1 | PCB Ass'y | 256-607 |
| 6 | 1 | Gasket | 113-507 |
| 7 | 2 | Screw Ass'y | 127-396 |

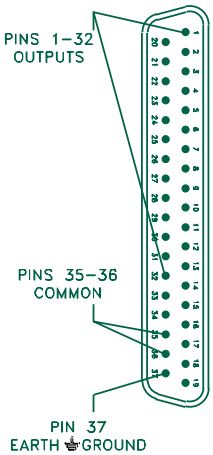



NOTE: External fusing or output protection recommended.

## 37 Pin Sub-D Connector Kit 239-1180




| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Housing | 105-402 |
| 2 | 2 | Hex Screw | 127-825 |
| 3 | 1 | Gasket | 113-531 |
| 4 | 2 | Screw | 127-318 |
| 5 | 1 | PCB Ass'y | 256-608 |
| 6 | 1 | Gasket | 113-530 |
| 7 | 2 | Screw Ass'y | 127-396 |

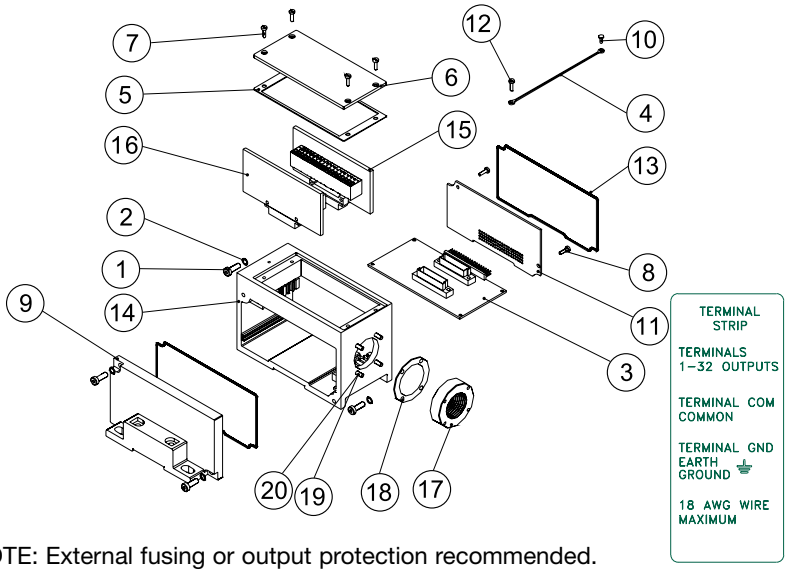



NOTE: External fusing or output protection recommended.





## 1-16 & 1-32 Terminal Strip Kit

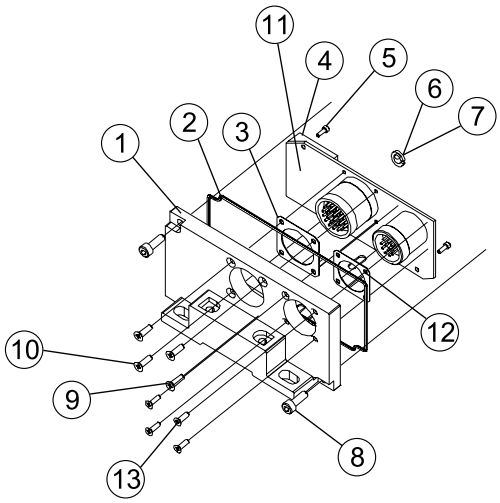



NOTE: External fusing or output protection recommended.

| TERMINAL STRIP HOUSING KITS | PART NO. |
|---|---|
| 1-16 Sol. | 239-1229 |
| 1-32 Sol. | 239-1231 |

| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 4 | Screw | 127-697 |
| 2 | 4 | Lockwasher | 128-188 |
| 3 | 1 | Backplane Board | 256-618 |
| 4 | 1 | Cover Strap | 125-772 |
| 5 | 1 | Gasket | 113-533 |
| 6 | 1 | Cover | 105-405 |
| 7 | 4 | Screw | 127-852 |
| 8 | 1 | Screw | 127-318 |
| 9 | 1 | Cover Plate | 105-403 |
| 10 | 1 | Screw | 127-180 |
| 11 | 1 | Converter Board | 256-645 |
| 12 | 2 | Screw | 127-794 |
| 13 | 2 | Gasket | 113-531 |
| 14 | 1 | Housing | 125-844 |
| 15 | 1 | Terminal Strip (1-16) | 256-617 |
| 16 | 1 | Terminal Strip (17-32) | 256-619 |
| 17 | 1 | Adapter | 119-659 |
| 18 | 1 | Gasket | 113-542 |
| 19 | 4 | Screw | 127-879 |
| 20 | 4 | Lockwasher | 128-192 |

## 26 Pin, & 26 Round Connector Kits




26 Pin  26 Pin + 12 Pin

NOTE: External fusing or output protection recommended.

| 26 PIN ROUND KIT | PART NO. |
|---|---|
| | 239-1184 |
| **26 + 12 PIN ROUND KITS** | **PART NO.** |
| | 239-1376 |

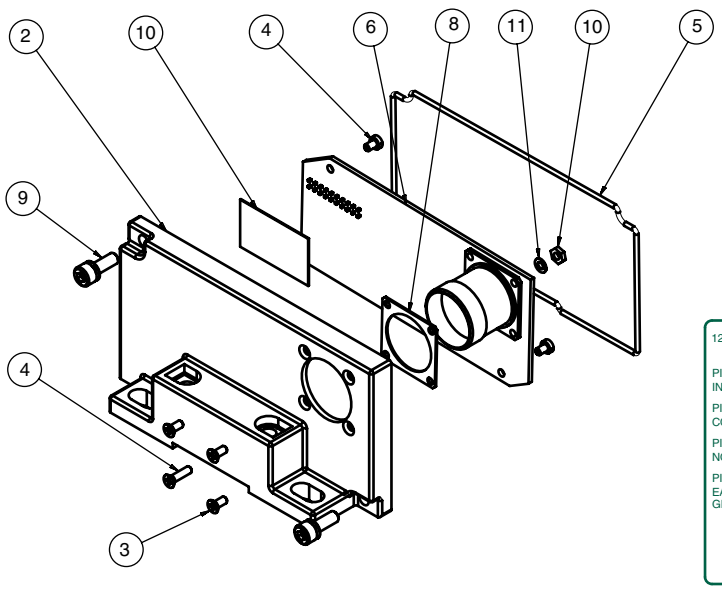
| DET. NO. | NO. REQ'D 12 | 26 | 12+26 | PART NAME | PART NO. |
|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | Cover | Not sold separately |
| 2 | 1 | 1 | 1 | Gasket | 113-531 |
| 3 | N/A | 1 | 1 | Gasket | 113-353 |
| 4 | N/A | 1 | N/A | 26 PCB Ass'y | 256-624 |
| 4 | N/A | N/A | 1 | 26+12 PCB Ass'y | 256-688 |
| 5 | 2 | 2 | 2 | Screw | 127-875 |
| 6 | 1 | N/A | N/A | Lockwasher | 128-352 |
| 6 | N/A | 1 | 1 | Lockwasher | 128-294 |
| 7 | 1 | N/A | N/A | Hex Nut | 128-288 |
| 7 | N/A | 1 | 1 | Hex Nut | 128-293 |
| 8 | 2 | 2 | 2 | Screw Ass'y | 127-396 |
| 9 | 1 | N/A | N/A | Screw | 127-982 |
| 9 | N/A | 3 | 3 | Screw | 127-810 |
| 10 | N/A | 1 | 1 | Screw | 127-770 |
| 11 | 1 | N/A | 1 | Shield | 140-759 |
| 12 | 1 | N/A | 1 | Gasket | 113-354 |
| 13 | 3 | N/A | 4 | Screw | 127-811 |



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## 12 Pin Round Connector Kit 239-2115





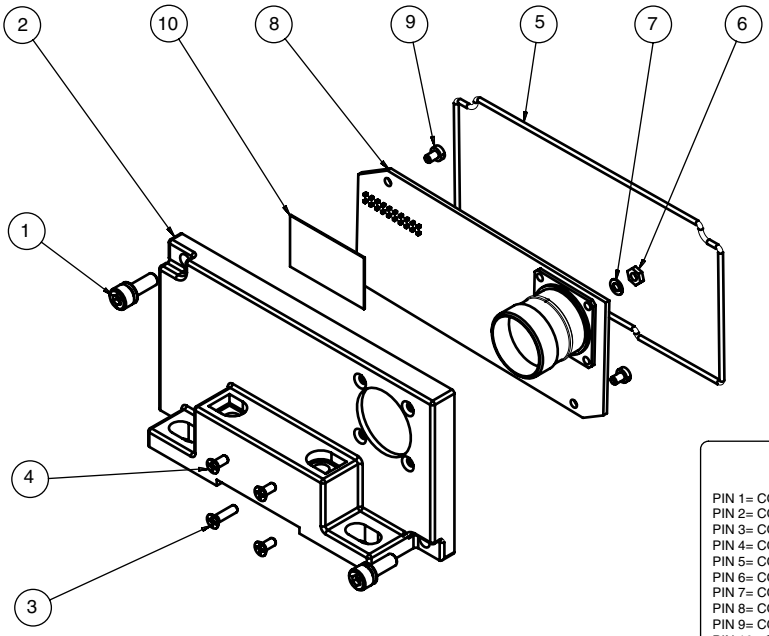


NOTE: External fusing or output protection recommended.

### Parts List

| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 1 | Cover | 105-451 |
| 2 | 1 | Screw | 127-982 |
| 3 | 1 | Shield | 140-759 |
| 4 | 2 | Screw | 127-875 |
| 5 | 1 | Gasket | 113-531 |
| 6 | 1 | P.C. Brd. Assy | 256-856 |
| 7 | 3 | Screw | 127-811 |
| 8 | 1 | Gasket | 113-354 |
| 9 | 2 | Screw Assy | 127-396 |
| 10 | 1 | Nut | 128-288 |
| 11 | 1 | Lockwasher | 128-352 |

## 19 Pin Round Connector Kit 239-2307




19 PIN CONNECTOR

PIN 1= COIL 15
PIN 2= COIL 11
PIN 3= COIL 7
PIN 4= COIL 4
PIN 5= COIL 3
PIN 6= COMMON
PIN 7= COIL 2
PIN 8= COIL 6
PIN 9= COIL 10
PIN 10= COIL 14
PIN 11= COIL 13
PIN 12= P.E.
PIN 13= COIL 12
PIN 14= COIL 8
PIN 15= COIL 1
PIN 16= COIL 5
PIN 17= COIL 9
PIN 18= COIL 16
PIN 19= N.C.

### Parts List

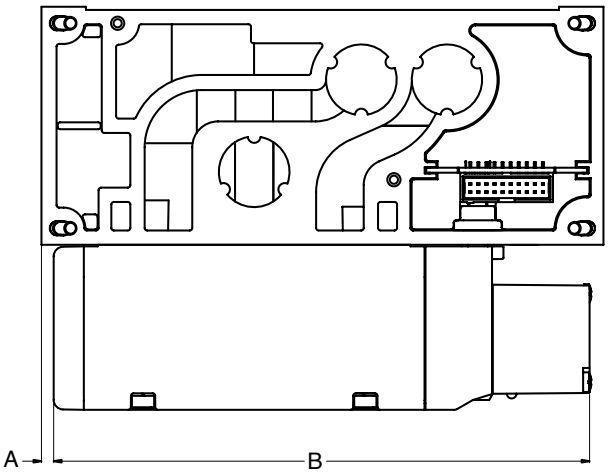
| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|---|---|---|---|
| 1 | 2 | Screw | 127-396 |
| 2 | 1 | Endplate | 105-451 |
| 3 | 1 | Nameplate | 122-1058 |
| 4 | 1 | Screw | 127-982 |
| 5 | 3 | Screw | 127-811 |
| 6 | 1 | Gasket | 113-531 |
| 7 | 1 | Nut | 128-288 |
| 8 | 1 | Lockwasher | 128-352 |
| 9 | 1 | PG Board Assy | 256-905 |
| 10 | 2 | Screw | 128-875 |
| 11 | 1 | Shield | 140-759 |
| 12 | 1 | Label | 122-770 |

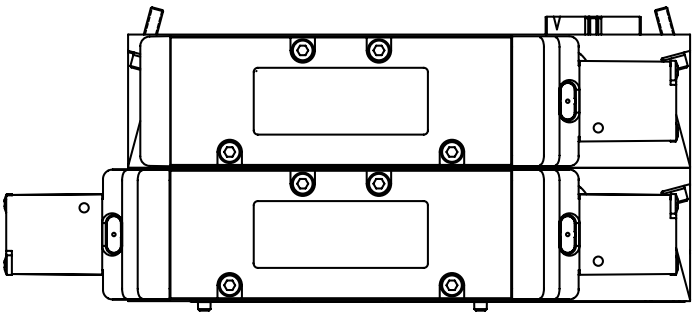
NOTE: External fusing or output protection recommended.

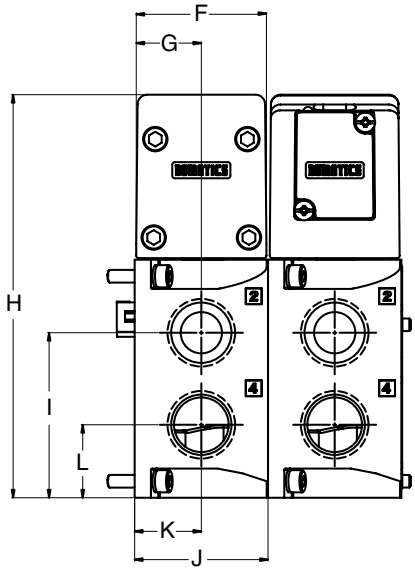


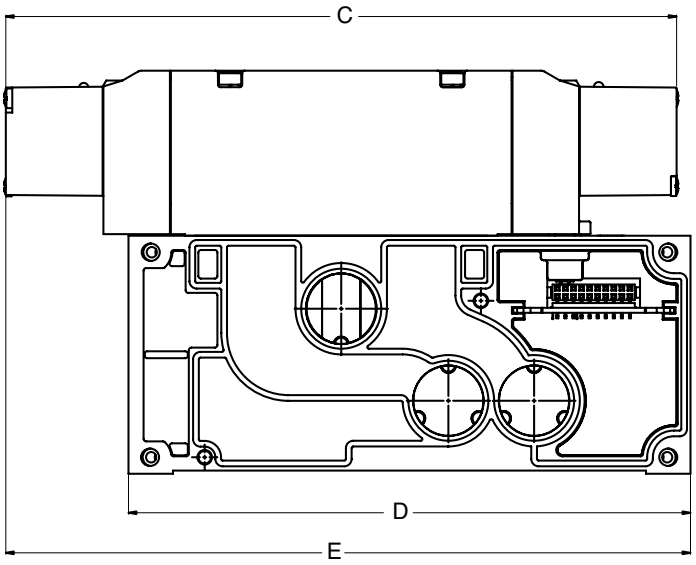


# Valve on Manifold Block






## Dimensions

top dimensions = inches
bottom dimensions (in parenthesis) = millimeters

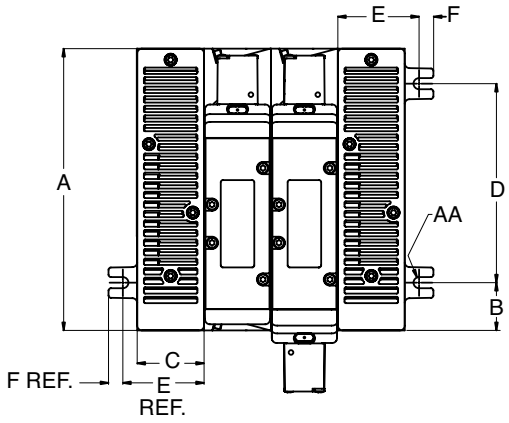
| A | B | C | D | E | F | G | H | I | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.15 (3.9) | 6.65 (168.8) | 8.32 (211.3) | 6.97 (177.0) | 8.49 (215.6) | 1.61 (41.0) | 0.81 (20.5) | 5.00 (127.0) | 2.05 (52.0) | 1.65 (42.0) | 0.83 (21.0) | 0.91 (23.0) |

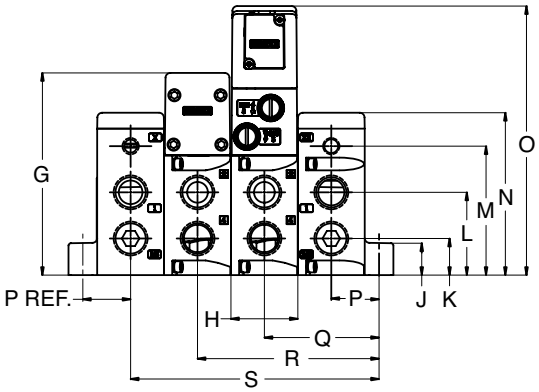


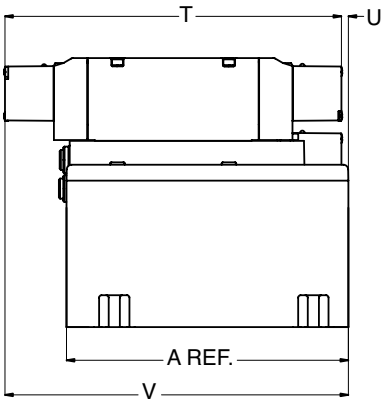
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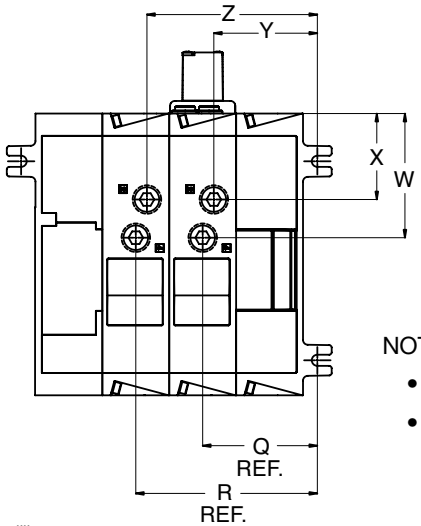


## Manifold Assembly




NOTE:

- For Electrical Interface option dimensions *see pg. 26*.
- For Fieldbus Electronics dimensions see Electronics Section.

## Dimensions

top dimensions = inches
bottom dimensions (in parenthesis) = millimeters

| A | B | C | D | E | F | G | H | J | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.97 (177.0) | 1.18 (30.0) | 1.65 (42.0) | 4.92 (125.0) | 2.01 (51.0) | 0.35 (9.0) | 5.00 (127.0) | 1.65 (42.0) | 0.79 (20.0) | 0.91 (23.0) | 2.05 (52.0) | 3.19 (81.0) | 4.02 (102.0) |

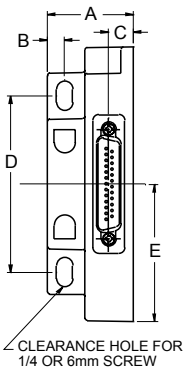
| O | P | Q | R | S | T | U | V | W | X | Y | Z | AA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6.65 (169.0) | 1.18 (30.0) | 2.83 (72.0) | 4.49 (114.0) | 6.14 (156.0) | 8.32 (211.3) | 0.17 (4.4) | 8.49 (215.6) | 3.07 (78.0) | 2.13 (54.0) | 2.56 (65.0) | 2.83 (72.0) | 0.14 (3.5) |





# Electrical Interface

## 25 Pin Sub-D

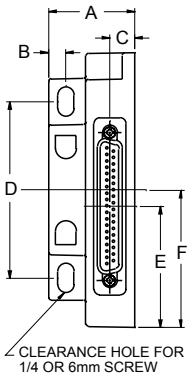



### Dimensions

top dimensions = inches
bottom dimensions (in parthesis) = millimeters

| A | B | C | D | E | F | G | H |
|---|---|---|---|---|---|---|---|
| 1.45 | 0.29 | 0.42 | 2.98 | 2.32 | 0.25 | 2.40 | 2.47 |
| (36.8) | (7.4) | (10.7) | (75.7) | (58.9) | (6.3) | (61.0) | (62.7) |

## 37 Pin Sub-D

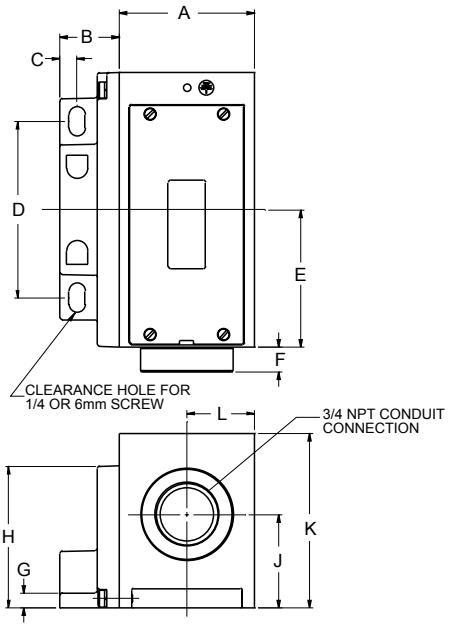



### Dimensions

top dimensions = inches
bottom dimensions (in parthesis) = millimeters

| A | B | C | D | E | F | G | H | J |
|---|---|---|---|---|---|---|---|---|
| 1.45 | 0.29 | 0.42 | 2.98 | 2.04 | 2.32 | 0.25 | 2.40 | 2.47 |
| (36.8) | (7.4) | (10.7) | (75.7) | (51.8) | (58.9) | (6.3) | (61.0) | (62.7) |

## Terminal Strip 1-16 & 1-32

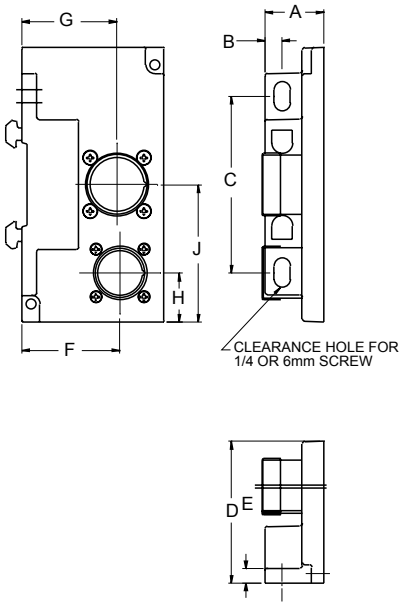



### Dimensions

top dimensions = inches
bottom dimensions (in parthesis) = millimeters

| A | B | C | D | E | F | G | H | J | K | L |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.28 | 1.00 | 0.29 | 2.98 | 2.32 | 0.43 | 0.25 | 2.40 | 1.58 | 2.95 | 1.14 |
| (57.9) | (25.4) | (7.4) | (75.7) | (58.9) | (10.9) | (6.3) | (61.0) | (40.1) | (74.9) | (29.0) |

## 12 Pin, 26 Pin & 26 + 12 Pin Round Connector




### Dimensions

top dimensions = inches
bottom dimensions (in parthesis) = millimeters

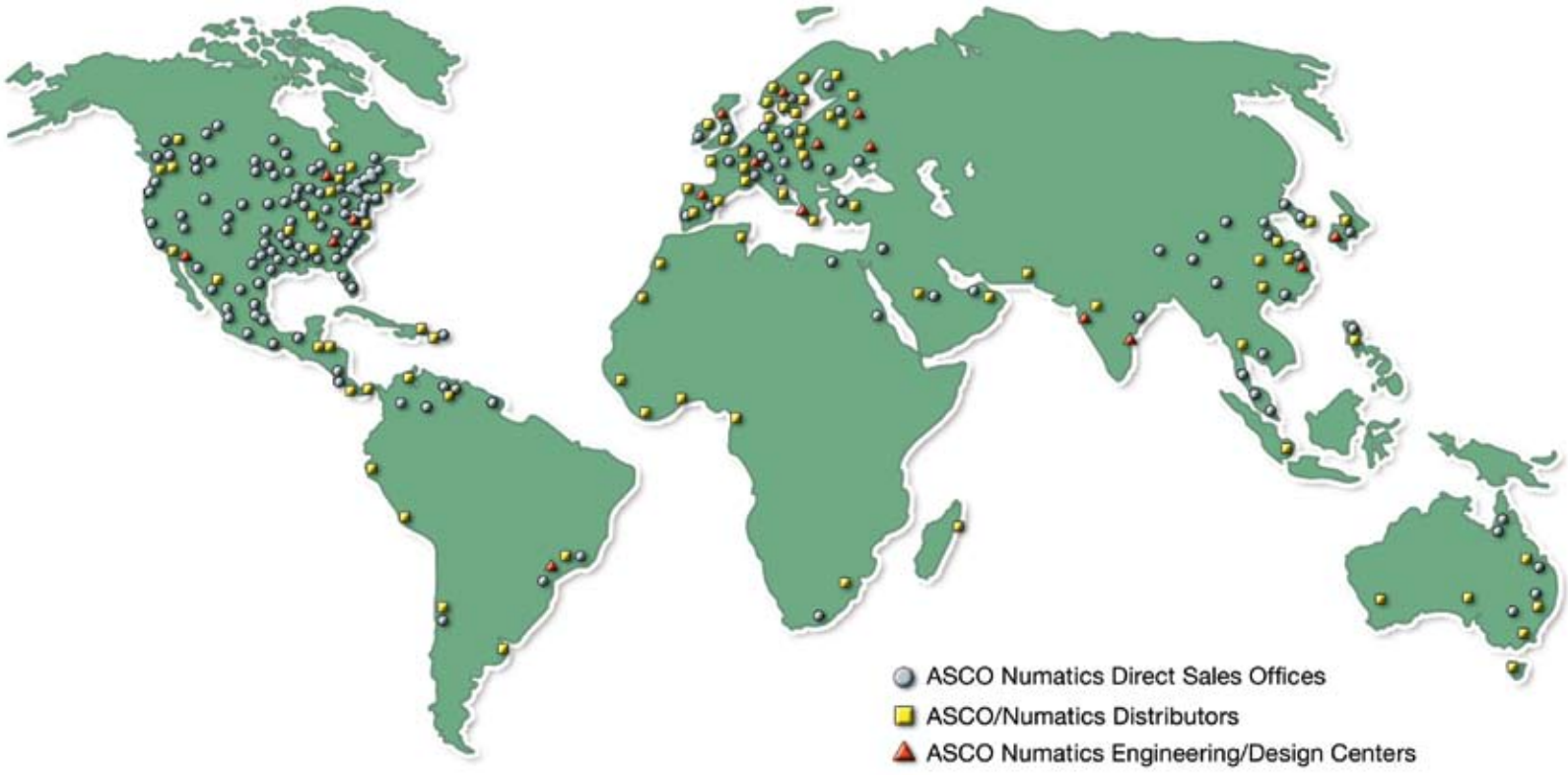
| A | B | C | D | E | F | G | H | J |
|---|---|---|---|---|---|---|---|---|
| 1.00 | 0.29 | 2.98 | 2.40 | 0.25 | 1.66 | 1.61 | 0.82 | 2.32 |
| (25.4) | (7.4) | (75.7) | (61.0) | (6.3) | (42.2) | (40.9) | (20.8) | (58.9) |



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