# 2005 Series

Solenoid Pilot Actuated Valves









#### 2005 Series

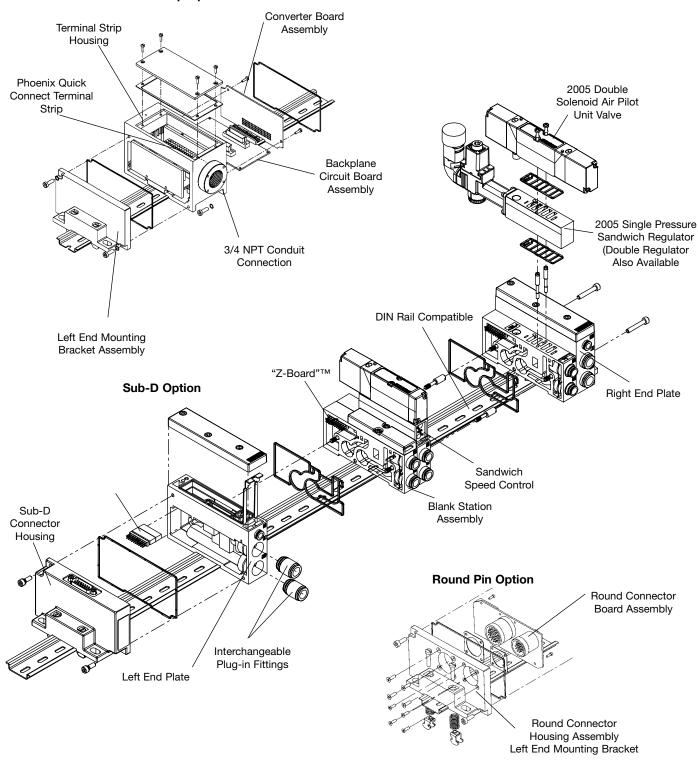
|    | Terminal Strip, Sub-D, and 26 & 12 Round Pin Options-Exploded View |      |
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#### **Manifold and Wiring Architecture**

# Terminal Strip. Sub-D, and 26 & 12 Round Pin Options (exploded view)

#### **Terminal Strip Option**





5 Ported, 2 and 3 position, 4-way, Spool & Sleeve Cv: 0.56

Dual 3-Way Pack Spool Cv:0.56

- Solenoid air pilot actuated
- Low wattage plug-in 1.0 watt for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- Interchangeable Push-in fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot supply
- Modular plug-together Fieldbus electronics
- NEMA 4/IP65



| Valve Data                                             | English                                           | Metric                                              |
|--------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------|
| Cv                                                     | 0.56                                              | 0.56                                                |
| Flow Capacity                                          | 26 SCFM @ 80 PSIG upstream pressure to atmosphere | 552 NI/m @ 6 bar<br>upstream to 5 bar<br>downstream |
| Operating Pressure Range<br>Spool and Sleeve           | 28" Hg. Vacuum to 150<br>PSIG                     | Vacuum to 10 bar                                    |
| Operating Pressure Range –<br>Dual 3 Way – Types A & D | 22" Hg. Vacuum to 100<br>PSIG                     | Vacuum to 7 bar                                     |
| Pilot Pressure Range                                   | 26 to 120 PSIG                                    | 1.8 to 8.2 bar                                      |
| Pilot Pressure Range – Dual<br>3 Way                   | 26 to 100 PSIG                                    | 1.8 to 7 bar                                        |
| Pilot Pressure Vacuum<br>Types B & E                   | 50 to 100 PSIG                                    | 3.5 to 7 bar                                        |
| Temperature Range<br>(Ambient)t                        | -10°F to +115°F                                   | -23°C to +46°C                                      |



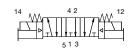




single solenoid air pilot 2 position 4-way



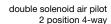
double solenoid air pilot 3 position 4-way open center



double solenoid air pilot 3 position 4-way pressure center

double solenoid 2 position dual 3-way "14(A)" & "12(B)" NO

double solenoid 2 position dual 3-way "14(A)" & "12(B)" NC

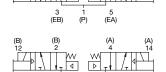




double solenoid air pilot 3 position 4-way closed center





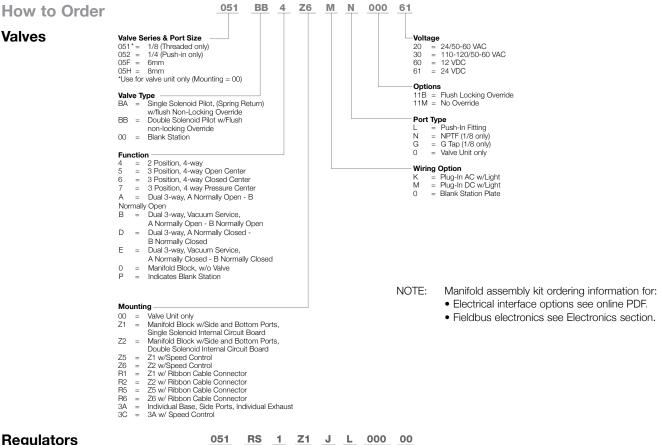


# **Operating Data**

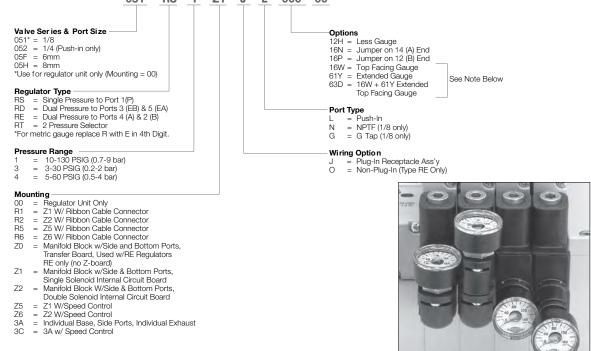
| All Solenoids Are Continuous Duty Rated | 24 VDC | 110 - 120 VAC 50/60 Hz. |
|-----------------------------------------|--------|-------------------------|
| Power (Watts)                           | 1.35   | 4.2                     |
| Holding Current (Amps.)                 | 0.04   | 0.04                    |

| Response Time in Seconds          | Energize | De-Energize | Energize | De-Energize |
|-----------------------------------|----------|-------------|----------|-------------|
| 2-Position, Single, Spring Return | 0.014    | 0.016       | 0.014    | 0.016       |
| 2-Position, Double, Detented      | 0.013    | N/A         | 0.013    | N/A         |
| 3-Position, Spring Centered       | 0.014    | 0.016       | 0.014    | 0.016       |
| Dual 3 Way                        | 0.014    | 0.016       | 0.014    | 0.016       |

#### **AVENTICS**<sup>TM</sup>



# Regulators

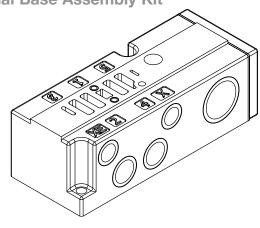


NOTE: Regulator gauges must be offset on alternating stations to prevent interference (see photo)

- \* Odd numbered stations will use either standard (no option) or top facing ("16W" option) gauges.
- \* Even numbered stations will use either extended standard ("61Y" option) or extended top facing ("63D" option) gauges. Information subject to change without notice. For ordering information or regarding your local sales office visit www.Emerson.com.

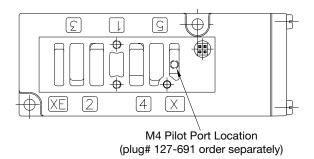


### **Individual Base Assembly Kit**

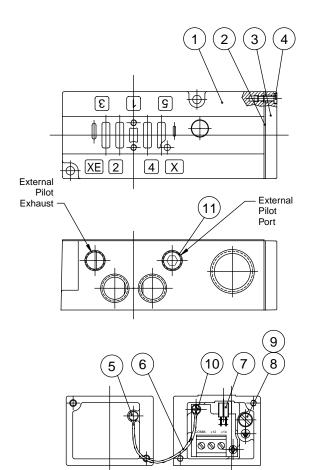


| Port Size | Part. No. |
|-----------|-----------|
| 1/4-NPTF  | 203-1266  |

#### **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. 127-691 (sold separately) in the "X" gallery as indicated above. Remove the 1/8 NPTF pipe plug from the "X" port to supply pilot pressure.



VIEW SHOWN WITH COVER REMOVED

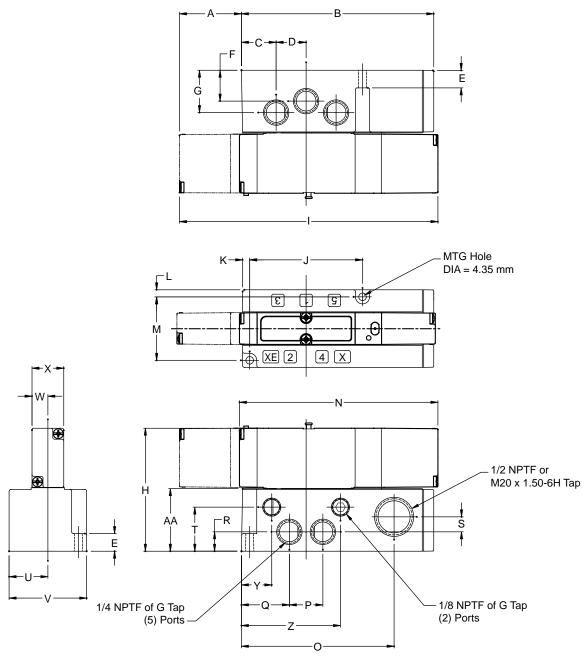
| Det. No. | No. Req'd | Part Name            | Part No. |
|----------|-----------|----------------------|----------|
| 1        | 1         | Base                 |          |
| 2        | 1         | Gasket               | 113-632  |
| 3        | 1         | Cover                | 105-462  |
| 4        | 2         | Screw                | 127-172  |
| 5        | 1         | Screw                | 127-172  |
| 6        | 1         | Strap                | 125-772  |
| 7        | 1         | Terminal Strip Ass'y | 256-896  |
| 8        | 1         | Screw                | 127-176  |
| 9        | 1         | Washer               | 128-162  |
| 10       | 2         | Screw                | 127-318  |
| 11       | 1         | 1/8 NPTF Pipe Plug   | 129-100  |

Information subject to change without notice. For ordering information or regarding your local sales office visit www.Emerson.com.



#### Valve on Individual Base

#### **Dimensions: Inches (mm)**



| Α      | В       | C      | D      | E      | F      | G      | Н       | ı        | J        | K     | L     | М      | N       |
|--------|---------|--------|--------|--------|--------|--------|---------|----------|----------|-------|-------|--------|---------|
| 1.38   | 4.01    | 0.77   | 0.67   | 0.39   | 0.68   | 0.94   | 2.75    | 5.77     | 5.77     | 0.16  | 2.52  | 1.42   | 4.37    |
| (35.1) | (101.9) | (19.7) | (17.0) | (10.0) | (17.5) | (24.0) | (69.75) | (146.56) | (146.56) | (4.0) | (4.0) | (36.0) | (111.1) |

| 0      | P      | Q      | R      | S     | T      | U      | V      | W     | Х      | Y      | Z      | AA     |
|--------|--------|--------|--------|-------|--------|--------|--------|-------|--------|--------|--------|--------|
| 3.41   | 0.75   | 1.07   | 0.43   | 0.33  | 0.98   | 0.87   | 1.73   | 0.35  | 0.71   | 0.68   | 2.21   | 1.40   |
| (86.6) | (19.0) | (27.2) | (11.0) | (8.5) | (25.0) | (22.0) | (44.0) | (9.0) | (18.0) | (17.2) | (56.2) | (35.5) |

#### **Sandwich Pressure Regulators**

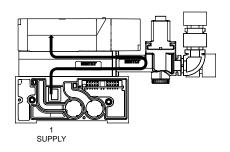
#### Types: RS / RD / RE / RT

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: | 051BA400K000030 | 051BB400M000061 |
| Regulator        | 052RS1Z1JL00000 | 052RD1Z2JL00000 |
| +mounting        | ASSEMBLED       | ASSEMBLED       |

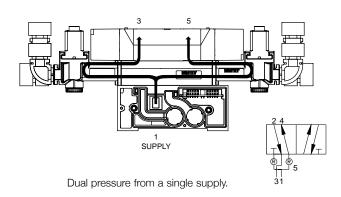


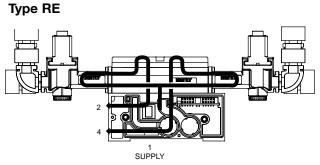
#### Type RS



Single pressure from a single supply.

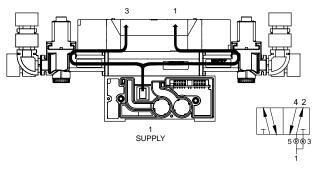
#### Type RD





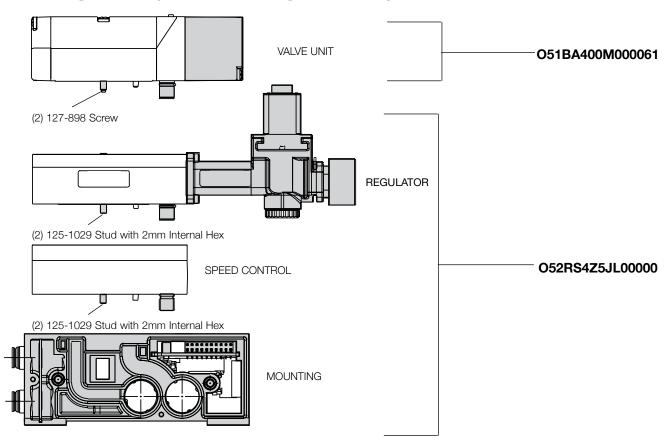
External outlet regulator used with jumper plate for single or dual pressure.

# Type RT



Two-pressure selector used for multi-pressure applications.

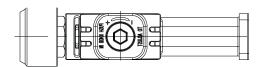
# Valve Regulator / Speed Control Plug-in Assembly

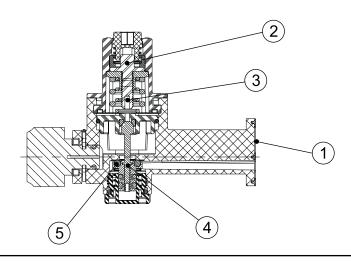


# **Regulator Kits and Service Parts**

Regulator Service Kit







#### **Regulator Unit Kits**

(includes regulator assembly, gaskets, screws)

| PSIG        | Part No. |
|-------------|----------|
| 3-30 PSIG   | 239-1824 |
| 5-60 PSIG   | 239-1825 |
| 10-130 PSIG | 239-1826 |

#### **Bonnet Springs**

| PSIG         | Part No. |
|--------------|----------|
| 3-30 PSIG    | 115-421  |
| 5-60 PSIG    | 115-422  |
| 10-130 PSIG* | 115-419  |
|              | 115-420  |

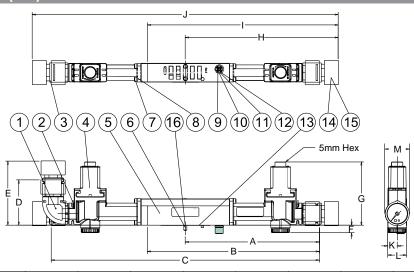
\* = Both Springs Required

| Det. No. | No. Req'd | Part Name           |
|----------|-----------|---------------------|
| 1        | 1         | Gasket              |
| 2        | 1         | Valve Cap Assembly  |
| 3        | 1         | Valve Stem Assembly |
| 4        | 1         | Piston Assembly     |
| 5        | 1         | O-Ring              |

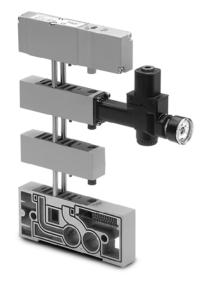


# **Sandwich Pressure Regulator**

# Dimensions: Inches (mm)



| Α       | В       | C       | D      | E      | F     | G      | Н       | I       | J       | K     | L      | M      |
|---------|---------|---------|--------|--------|-------|--------|---------|---------|---------|-------|--------|--------|
| 5.20    | 6.71    | 10.40   | 1.78   | 2.53   | 0.29  | 2.47   | 5.99    | 7.46    | 11.97   | 0.36  | 0.75   | 0.94   |
| (132.0) | (170.5) | (264.0) | (45.2) | (64.3) | (7.4) | (62.7) | (152.0) | (189.5) | (304.1) | (9.3) | (19.1) | (23.9) |



#### Gauge Kit

| 160 PSI | 11 Bar Max | 60 PSI  | 4 Bar Max |  |
|---------|------------|---------|-----------|--|
| 214-214 | 214-215    | 214-219 | 214-220   |  |

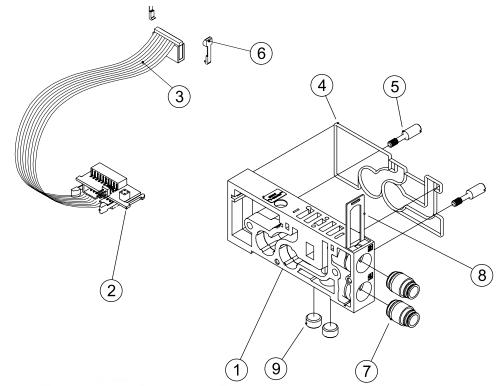
**Elbow Kit** 239-1217 Gauge Adaptor Kit 1/8 NPTF 239-1790

#### **Parts List**

| Det. No. | No. Req'd | Part Name                     | Part No. |
|----------|-----------|-------------------------------|----------|
| 1        | 1*        | Elbow                         | 134-505  |
| 2        | 1*        | Pin                           | 131-236  |
| 3        | 1*        | Extender                      | 134-536  |
| 4        | 1*        | Regulator                     | See p. 5 |
| 5        | 1         | Single Riser Block            | 125-974  |
| 5        | 1         | Double Riser Block            | 125-975  |
| 6        | 2         | Stud with 2mm Internal<br>Hex | 125-991  |
| 7        | 4**       | Lockwasher                    | 128-352  |
| 8        | 4**       | Screw                         | 127-957  |
| 9        | 1         | Plug Assembly                 | 230-1006 |
| 10       | 1         | O-Ring                        | 126-144  |
| 11       | 1         | O-Ring                        | 126-419  |
| 12       | 1         | Screw                         | 127-318  |
| 13       | 1         | Gasket                        | 113-574  |
| 14       | 1*        | Gauge 160 PSI max.            | 214-212  |
| 14       | 1*        | Gauge 11 bar max.             | 214-213  |
| 14       | 1*        | Gauge 60 PSI max.             | 214-217  |
| 14       | 1*        | Gauge 4 bar max.              | 214-218  |
| 15       | 1*        | O-Ring                        | 126-105  |
| 16       | 2         | O-Ring                        | 126-187  |

<sup>\* (2)</sup> Required for RD \*\* (8) Required for RD

# **Manifold Assemblies**



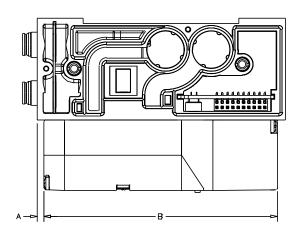


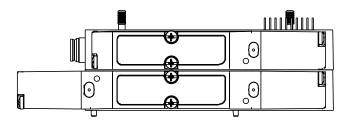
| Det. No. | No. Req'd | Part Name                            | Part No.            |  |
|----------|-----------|--------------------------------------|---------------------|--|
| 1        | 1         | Manifold Block (not sold separately) |                     |  |
| 2        | 1         | "Z-Board"™                           | not sold separately |  |
| 3        | 1         | Ribbon Cable Ass'y                   | 230-1053            |  |
| 4        | 1         | Gasket Manifold                      | 113-571             |  |
| 5        | 2         | Stud                                 | 125-1011            |  |
| 6        | 1         | Snap In Latch                        | 140-721             |  |
| 7        | 2         | Push-in Fittings                     | See p. 15           |  |
| 8        | 1         | Retaining Clip                       | 125-1013            |  |
| 9        | 2         | Pipe Plug 1/8 NPTF                   | 129-100             |  |
| 9        | 2         | Pipe Plug G 1/8                      | 129-160             |  |

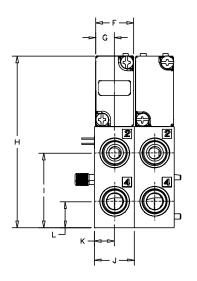
| Manifold Assembly Kits                |          |          |             |             |                    |  |  |  |
|---------------------------------------|----------|----------|-------------|-------------|--------------------|--|--|--|
| Side Cylinder Ports                   | 1/8 NPTF | G 1/8    | 1/4 Push-in | 6mm Push-in | 5/16 (8mm) Push-in |  |  |  |
| <b>Bottom Cylinder Ports</b>          | 1/8 NPTF | G 1/8    | 1/8 NPTF    | G 1/8       | G 1/8              |  |  |  |
| Single, "Z-Board"™                    | 206-1373 | 206-1371 | 206-1365    | 206-1387    | 206-1363           |  |  |  |
| Double "Z-Board"™                     | 206-1374 | 206-1372 | 206-1366    | 206-1388    | 206-1364           |  |  |  |
| Single, "Z-Board"™<br>w/ Ribbon Cable | 206-1377 | 206-1375 | 206-1381    | 206-1389    | 206-1379           |  |  |  |
| Double "Z-Board"™<br>w/ Ribbon Cable  | 206-1378 | 206-1376 | 206-1382    | 206-1390    | 206-1380           |  |  |  |

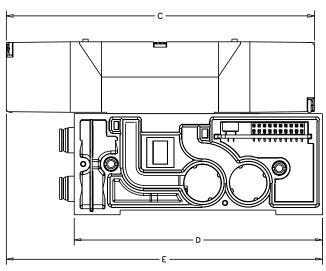
# Dimensions: Inches (mm)

#### **Valve on Manifold Block**







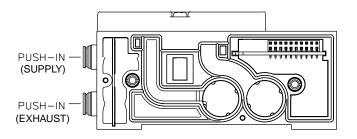


| Α     | В       | C       | D       | E       | F      | G     | Н      | ı      | J      | K     | L      |
|-------|---------|---------|---------|---------|--------|-------|--------|--------|--------|-------|--------|
| 0.13  | 4.37    | 5.77    | 4.65    | 5.92    | 0.74   | 0.37  | 3.24   | 1.40   | 0.75   | 0.38  | 0.49   |
| (3.2) | (111.1) | (146.6) | (118.2) | (150.5) | (18.0) | (9.0) | (81.8) | (35.5) | (19.0) | (9.5) | (12.5) |

Information subject to change without notice. For ordering information or regarding your local sales office visit www.Emerson.com.



#### Mid-Station Supply and Exhaust Block



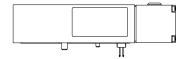
#### Mid-Station Supply & Exhaust Block Kit

| Port Type   | Part. No. |  |  |
|-------------|-----------|--|--|
| 1/4 Push-in | 239-1787  |  |  |
| 8mm Push-in | 239-1788  |  |  |
| NPTF 1/8    | 239-1786  |  |  |
| G 1/8       | 239-1789  |  |  |

#### Sandwich Shut Off Block

#### 239-1596

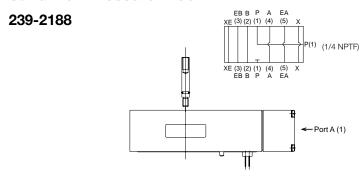
- Used to shut-off pressure to the valve which is mounted above it.
- Allows easy maintenance without the need to shut-off pressure to the whole manifold.





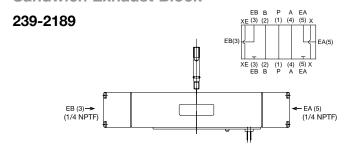


#### Sandwich Pressure Block



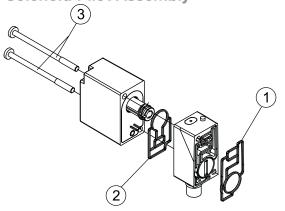
 Used to supply a separate pressure to a single valve station without needing blocking disks.

#### Sandwich Exhaust Block



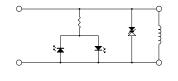
- Used to isolate the exhaust of a single valve station from the manifold.
- Allows faster exhaust response by re-routing.
- Exhaust externally to the manifold.

# **Solenoid Pilot Assembly**



| Det.<br>No. | No.<br>Req'd | Part Name | Part No. |
|-------------|--------------|-----------|----------|
| 1           | 1            | Gasket    | 113-573  |
| 2           | 1            | Gasket    | 113-572  |
| 3           | 2            | Screw     | 127-658  |

| Description                       | 12 VDC  | 24 VDC  | 24 VAC   | 120 VAC  |
|-----------------------------------|---------|---------|----------|----------|
| 14 end, push non-locking override | 236-495 | 236-496 | 237-1115 | 237-1112 |
| 12 end, push non-locking override | 236-501 | 236-502 | 237-1121 | 237-1118 |
| 14 end, turn & lock override      | 236-494 | 236-497 | 237-1114 | 237-1111 |
| 12 end, turn & lock override      | 236-500 | 236-503 | 237-1120 | 237-1117 |
| 14 end, no override               | 236-493 | 236-498 | 237-1113 | 237-1110 |
| 12 end, no override               | 236-499 | 236-504 | 237-1119 | 237-1116 |



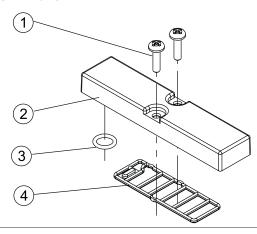
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DC Solenoid Circuit Diagram

AC Solenoid Circuit Diagram

# **Blank Station Plate Kit**



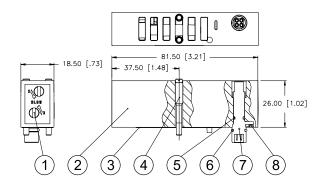


 Used to block off a manifold station block for future use

| Det. No. | No.<br>Req'd | Part Name           | Part No. |
|----------|--------------|---------------------|----------|
| 1        | 2            | Screw               | 127-916  |
| 2        | 1            | Gasket              | 113-574  |
| 3        | 1            | O-Ring              | 126-191  |
| 4        | 1            | Blank Station Plate | 104-769  |

# **Speed Control Kit**

#### 239-1597



 Used to control cylinder speed by restricting exhaust flow

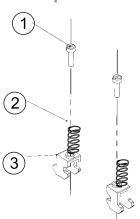
| Det. No.  | No.<br>Req'd | Part Name          | Part No. |
|-----------|--------------|--------------------|----------|
| 1         | 2            | Metering Screw     | 118-185  |
| Not Shown | 2            | Nylon Rod          | 125-613  |
| 2         | 1            | Speed Control Body | 125-973  |
| 3         | 1            | Gasket             | 113-574  |
| 4         | 2            | Stud               | 125-1029 |
| 5         | 1            | O-Ring             | 126-419  |
| 6         | 1            | O-Ring             | 126-144  |
| 7         | 1            | Plug Assembly      | 230-1006 |
| 8         | 1            | Screw              | 127-318  |

# **Interchangeable Push-in Cartridge Fittings**



| Ports   | Size       | Туре       | Part No. |
|---------|------------|------------|----------|
| 1, 3, 5 | 10mm       | Push-In    | 134-509  |
| 1, 3, 5 | 3/8"       | Push-In    | 134-508  |
| X, XE   | 1/4"       | Push-In    | 134-518  |
| X, XE   | 6mm        | Push-In    | 134-499  |
| 2, 4    | 6mm        | Push-In    | 134-534  |
| 2, 4    | 1/4"       | Push-In    | 134-502  |
| 2, 4    | 5/16 (8mm) | Push-In    | 134-501  |
| 1, 3, 5 | N/A        | Plug Ass'y | 239-1190 |
| X, XE   | N/A        | Plug Ass'y | 239-1086 |
| 2, 4    | N/A        | Plug Ass'y | 239-1085 |

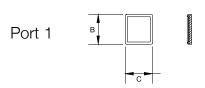
# **DIN Rail Clamp Kit**



239-980

# **Blocking Discs**





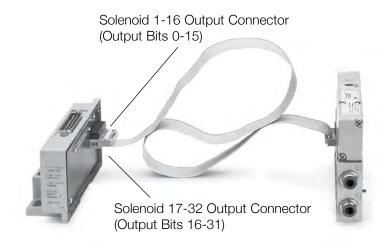
|             |              | <u>'</u>  |          |
|-------------|--------------|-----------|----------|
| Det.<br>No. | No.<br>Req'd | Part Name | Part No. |
| 1           | 4            | Screw     | 127-472  |
| 2           | 4            | Spring    | 115-355  |
| 3           | 4            | Clamp     | 125-720  |

| Det.<br>No. | Part No. | A              | В              | C              |
|-------------|----------|----------------|----------------|----------------|
| 1           | 124-341  | N/A            | 0.54<br>(13.7) | 0.50<br>(12.6) |
| 3/5         | 239-907  | 0.70<br>(17.8) | N/A            | N/A            |

Information subject to change without notice. For ordering information or regarding your local sales office visit www.Emerson.com.

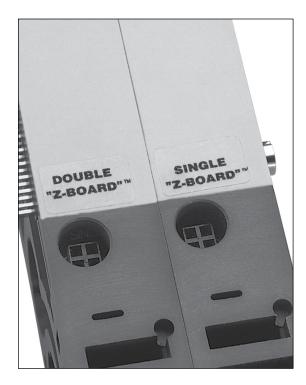


# Ribbon Cable Assembly Kit 239-1840

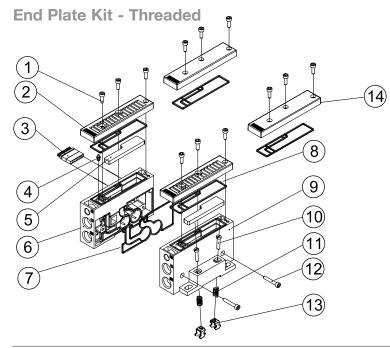


| No.<br>Req'd | Part Name             | Part No. |
|--------------|-----------------------|----------|
| 1            | Ribbon Cable Assembly | 230-1053 |
| 2            | Snap In Latch         | 140-721  |

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

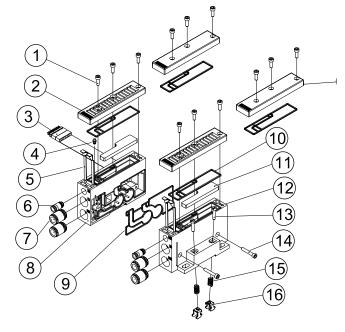


Label on manifold block indicates installed-"Z-Board"™ type.



| Det.<br>No. | No.<br>Req'd | Part Name              | Part No. |
|-------------|--------------|------------------------|----------|
| 1           | 6            | Cover Screw            | 127-368  |
| 2           | 2            | Vented Cover           | 105-435  |
| 3           | 1            | Transfer Conn.         | 140-910  |
| 4           | 1            | Pilot Plug Ass'y       | 213-497  |
| 5           | 2            | Muffler                | 125-1012 |
| 6           | 1            | LH Endplate            | 104-759  |
| 7           | 1            | Gasket                 | 113-571  |
| 8           | 2            | Cover Gasket           | 113-570  |
| 9           | 1            | RH Endplate            | 104-761  |
| 10          | 2            | Screw (DIN Rail Only)  | 127-472  |
| 11          | 2            | Spring (DIN Rail Only) | 115-355  |
| 12          | 2            | Screw                  | 127-400  |
| 13          | 2            | Clamp (DIN Rail Only)  | 125-720  |
| 14          | 2            | Cover                  | 105-436  |

# **End Plate Kits - Push-in**



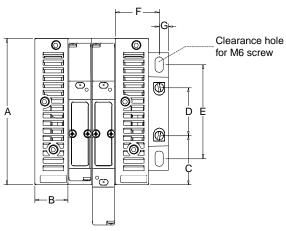
| Det.<br>No. | No.<br>Req'd | Part Name                      | Part No.  |
|-------------|--------------|--------------------------------|-----------|
| 1           | 6            | Cover Screw                    | 127-368   |
| 2           | 2            | Vented Cover                   | 105-435   |
| 3           | 1            | Transfer Conn.                 | 140-910   |
| 4           | 1            | Pilot Plug Ass'y               | 213-497   |
| 5           | 2            | Retaining Clip                 | 125-1014  |
| 6           | 2            | Pilot Push-in Fitting          | See p. 15 |
| 7           | 4            | Supply/Exhaust Push-in Fitting | See p. 15 |
| 8           | 1            | LH Endplate                    | 104-760   |
| 9           | 1            | Gasket                         | 113-571   |
| 10          | 2            | Cover Gasket                   | 113-570   |
| 11          | 2            | Muffler                        | 125-1012  |
| 12          | 1            | RH Endplate                    | 104-762   |
| 13          | 2            | Screw (DIN Rail Only)          | 127-472   |
| 14          | 2            | Screw                          | 127-400   |
| 15          | 2            | Spring (DIN Rail Only)         | 115-355   |
| 16          | 2            | Clamp (DIN Rail Only)          | 125-720   |
| 17          | 2            | Cover                          | 105-436   |

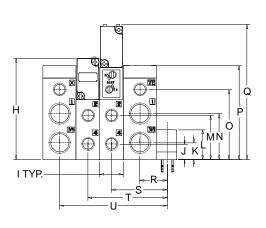
| Port Type                     | NPTF |          | IS0228/1-G |          |     | Push-In  |     |          | Push-In  |      |      |       |
|-------------------------------|------|----------|------------|----------|-----|----------|-----|----------|----------|------|------|-------|
| PORT                          | 1    | 3/5      | X, XE      | 1        | 3/5 | X, XE    | 1   | 3/5      | X, XE    | 1    | 3/5  | X, XE |
| PORT SIZE                     | 3/8  | 3/8      | 1/8        | 3/8      | 3/8 | 1/8      | 3/8 | 1/2      | 1/4      | 10mm | 10mm | 6mm   |
| Kit w/o muffler, w/o DIN Rail | 2    | 39-164   | 2          | 239-1646 |     | 239-1650 |     | 239-1654 |          |      |      |       |
| Kit w/o muffler, w/ DIN Rail  | 2    | 39-164   | 1          | 239-1645 |     | 239-1649 |     | 239-1653 |          |      |      |       |
| Kit w/ muffler, w/o DIN Rail  | 2    | 239-1640 |            | 239-1644 |     | 239-1648 |     | 8        | 239-1652 |      | 2    |       |
| Kit w/ muffler, w/ DIN Rail   | 2    | 39-163   | 8          | 239-1643 |     | 239-1647 |     | 239-1651 |          |      |      |       |

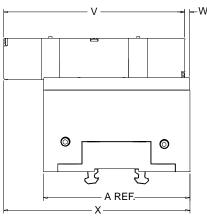


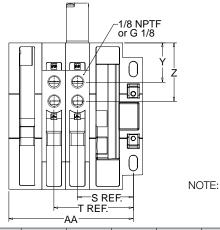
# **Manifold Assembly**

#### Dimensions: Inches (mm)









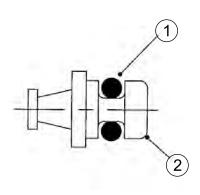
- $\bullet$  For Electrical Interface option dimensions see Electronics section.
- $\bullet$  For Fieldbus Electronics dimensions see Electronics section.

| Α               | В              | C              | D              | E              | F              | G             | Н              | I              | J              | K              | L              | М              | N              | 0              |
|-----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 4.65<br>(118.2) | 1.06<br>(27.0) | 1.62<br>(41.2) | 1.40<br>(35.7) | 2.87<br>(73.0) | 1.40<br>(35.7) | 0.34<br>(8.7) | 3.24<br>(81.8) | 0.75<br>(19.0) | 0.49<br>(12.5) | 0.53<br>(13.5) | 0.96<br>(24.4) | 1.40<br>(35.5) | 1.46<br>(37.0) | 2.22<br>(56.5) |
|                 |                |                |                |                |                |               |                |                |                |                |                |                |                |                |
| P               | Q              | R              | S              | T              | U              | V             | W              | Х              | Y              | Z              | AA             |                |                |                |



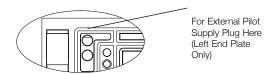
# **Internal Pilot Plug**

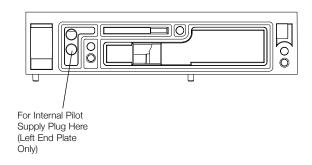
#### 213-497



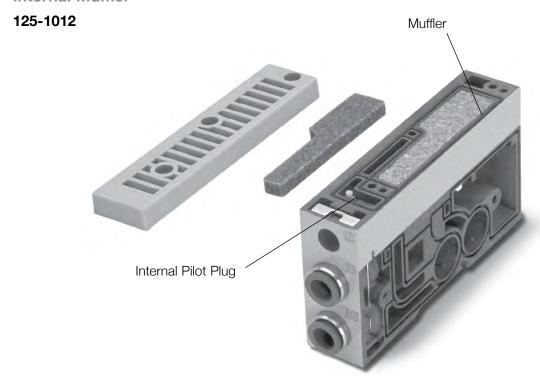
| Det.<br>No. | No.<br>Req'd | Part Name | Part No. |
|-------------|--------------|-----------|----------|
| 1           | 1            | Plug      | 125-820  |
| 2           | 1            | O-Ring    | 126-471  |

#### **Internal/External Pilot Selection**



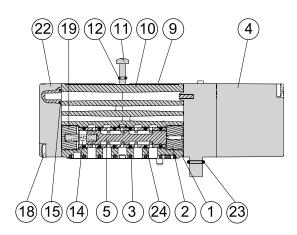


#### **Internal Muffler**

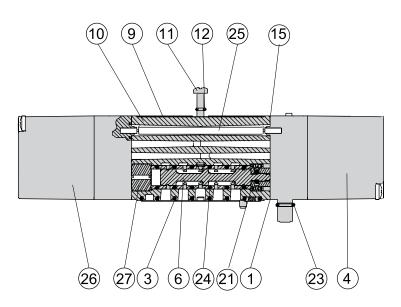


#### **Valve Service Kits and Parts**

Kit No. 2005-K1\* (For Models 051BA4, 052BA4, 05FBA4, 05HBA4)



Kit No. 2005-K2\* (For Models 051BB4, 052BB4, 05FBB4, 05HBB4)

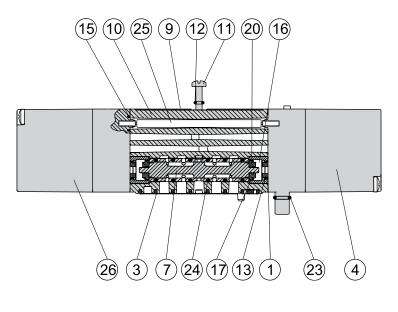


| Det.<br>No. | BA4 | ВВ  | Part Name                  | Part No.  |
|-------------|-----|-----|----------------------------|-----------|
| 1           | 1   | 1   | Sceen                      | 125-789   |
| 2*          | 1   | N/A | Detent Spacer              | 116-516   |
| 3*          | 1   | 1   | Gasket Body/Manifold       | 113-574   |
| 4           | 1   | 1   | Solenoid Pilot - 14 End    | See p. 14 |
| 5           | 1   | N/A | Spool & Sleeve Assembly    | 209-512   |
| 6           | N/A | 1   | Spool & Sleeve Assembly    | 209-634   |
| 9           | 1   | 1   | Nameplate                  | 122-1121  |
| 10          | 1   | 1   | Body (not sold separately) |           |
| 11          | 2   | 2   | Screw                      | 127-898   |
| 12*         | 2   | 2   | O-Ring                     | 126-345   |
| 14*         | 1   | N/A | Spring                     | 115-273   |
| 15*         | 1   | 2   | Gasket Adaptor/Body        | 113-573   |
| 18          | 2   | N/A | Screw                      | 127-650   |
| 19*         | 1   | N/A | Spring Retainer            | 116-517   |
| 21*         | N/A | 1   | Detent Assembly            | 210-143   |
| 22          | 1   | N/A | Spring Cover               | 104-768   |
| 23*         | 1   | 1   | O-Ring                     | 126-144   |
| 24*         | 6   | 6   | O-Ring                     | 126-133   |
| 25          | N/A | 1   | 14 to 12 Conn.             | 230-1044  |
| 26          | N/A | 1   | Solenoid Pilot - 12 End    | See p. 14 |
| 27*         | N/A | 1   | Spacer                     | 116-516   |

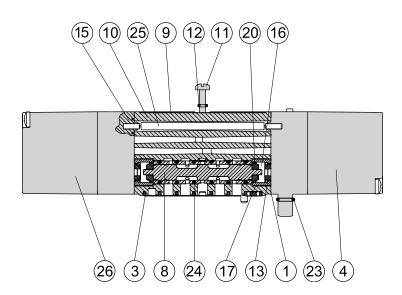
<sup>\*</sup>Indicates parts included in service kit.

#### **Valve Service Kits and Parts**

Kit No. 2005-K3\* (For Models 051BB5, 052BB5, 05FBB5, 05HBB5)



Kit No. 2005-K3\* (For Models 051BB6, 052BB6, 05FBB6, 05HBB6)

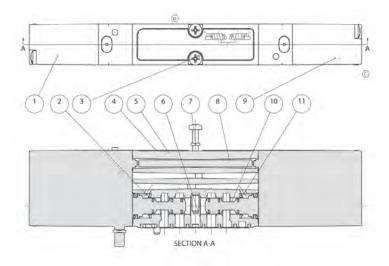


| Det.<br>No. | BA4 | ВВ  | Part Name                  | Part No.  |
|-------------|-----|-----|----------------------------|-----------|
| 1           | 1   | 1   | Sceen                      | 125-789   |
| 3*          | 1   | 1   | Gasket Body/Manifold       | 113-574   |
| 4           | 1   | 1   | Solenoid Pilot – 14 End    | See p. 14 |
| 7           | 1   | N/A | Spool & Sleeve Assembly    | 209-514   |
| 8           | N/A | 1   | Spool & Sleeve Assembly    | 209-515   |
| 9           | 1   | 1   | Nameplate                  | 122-1121  |
| 10          | 1   | 1   | Body (not sold separately) |           |
| 11          | 2   | 2   | Screw                      | 127-898   |
| 12*         | 2   | 2   | O-Ring                     | 126-345   |
| 13*         | 2   | 2   | Bumper                     | 114-204   |
| 15*         | 2   | 2   | Gasket Adaptor/Body        | 113-573   |
| 16*         | 2   | 2   | Spring                     | 115-266   |
| 17*         | 2   | 2   | Spacer                     | 116-519   |
| 20*         | 2   | 2   | Spring Retainer            | 116-386   |
| 23*         | 1   | 1   | O-Ring                     | 126-144   |
| 24*         | 6   | 6   | O-Ring                     | 126-133   |
| 25          | 1   | 1   | 14 to 12 Conn.             | 230-1044  |
| 26          | 1   | 1   | Solenoid Pilot - 12 End    | See p. 14 |

<sup>\*</sup>Indicates parts included in service kit.

### Valve Service Kits and Parts, Dual 3-Way

# Kit No. 2005-K3A (for models 051BBA, 052BBA, 053BBA, 05FBBA, 05HBBA)

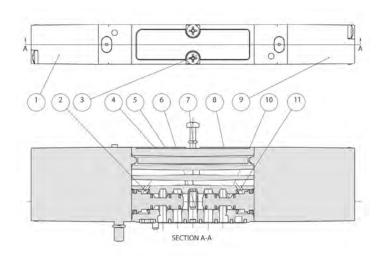


#### **Parts List**

| Det.<br>No. | No.<br>Req'd | Part Name           | Part No. |
|-------------|--------------|---------------------|----------|
| 1           | 1            | Sol. Pilot Ass'y 14 | 237-1112 |
| 2*          | 2            | Spring              | 115-395  |
| 3           | 2            | Screw               | 127-990  |
| 4           | 1            | Nameplate           | 122-1121 |
| 5           | 1            | Body                | 101-821  |
| 6*          | 1            | Gasket              | 113-574  |
| 7*          | 2            | O-ring              | 126-345  |
| 8           | 1            | 14 To 12 Conn.      | 230-1044 |
| 9           | 1            | Sol. Pilot Ass'y 12 | 237-1118 |
| 10*         | 2            | Spool Ass'y W/seals | 221-187  |
| 11*         | 2            | Bumper              | 114-205  |

<sup>\*</sup> Indicates parts included in service kit

# Kit No. 2005-K3B (for models 051BBB, 052BBB, 053BBB, 05FBBB, 05HBBB)



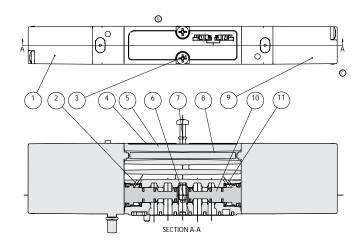
#### **Parts List**

| Det.<br>No. | No.<br>Req'd | Part Name           | Part No. |
|-------------|--------------|---------------------|----------|
| 1           | 1            | Sol. Pilot Ass'y 14 | 237-1112 |
| 2*          | 2            | Spring              | 115-431  |
| 3           | 2            | Screw               | 127-990  |
| 4           | 1            | Nameplate           | 122-1121 |
| 5           | 1            | Body                | 101-821  |
| 6*          | 1            | Gasket              | 113-574  |
| 7*          | 2            | O-ring              | 126-345  |
| 8           | 1            | 14 To 12 Conn.      | 230-1044 |
| 9           | 1            | Sol. Pilot Ass'y 12 | 237-1118 |
| 10*         | 2            | Spool Ass'y W/seals | 221-187  |
| 11*         | 2            | Bumper              | 114-205  |

<sup>\*</sup> Indicates parts included in service kit

Valve Service Kits and Parts, Dual 3-Way

# Kit No. 2005-K3D (for models 051BBD, 052BBD, 053BBD, 05FBBD, 05HBBD)

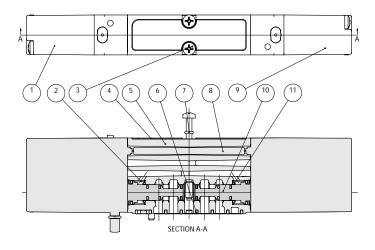


#### **Parts List**

| Det.<br>No. | No.<br>Req'd | Part Name           | Part No. |
|-------------|--------------|---------------------|----------|
| 1           | 1            | Sol. Pilot Ass'y 14 | 237-1112 |
| 2*          | 2            | Spring              | 115-395  |
| 3           | 2            | Screw               | 127-990  |
| 4           | 1            | Nameplate           | 122-1121 |
| 5           | 1            | Body                | 101-821  |
| 6*          | 1            | Gasket              | 113-574  |
| 7*          | 2            | O-ring              | 126-345  |
| 8           | 1            | 14 To 12 Conn.      | 230-1044 |
| 9           | 1            | Sol. Pilot Ass'y 12 | 237-1118 |
| 10*         | 2            | Spool Ass'y W/seals | 221-186  |
| 11*         | 2            | Bumper              | 114-205  |

<sup>\*</sup> Indicates parts included in service kit

# Kit No. 2005-K3E (for models 051BBE, 052BBE, 053BBE, 05FBBE, 05HBBE)



#### **Parts List**

| Det.<br>No. | No.<br>Req'd | Part Name           | Part No. |
|-------------|--------------|---------------------|----------|
| 1           | 1            | Sol. Pilot Ass'y 14 | 237-1112 |
| 2*          | 2            | Spring              | 115-431  |
| 3           | 2            | Screw               | 127-990  |
| 4           | 1            | Nameplate           | 122-1121 |
| 5           | 1            | Body                | 101-821  |
| 6*          | 1            | Gasket              | 113-574  |
| 7*          | 2            | O-ring              | 126-345  |
| 8           | 1            | 14 To 12 Conn.      | 230-1044 |
| 9           | 1            | Sol. Pilot Ass'y 12 | 237-1118 |
| 10*         | 2            | Spool Ass'y W/seals | 221-186  |
| 11*         | 2            | Bumper              | 114-205  |

<sup>\*</sup> Indicates parts included in service kit

#### **Adaptor Plate Kits** 239-1965

This kit includes the adaptor plate, transfer board, gasket, screws, and studs. Individual end plates for the 2005 and 2012 are not included. This adaptor allows the transition from the 2012 to the 2005 series.



**Example order** Adaptor Plate Kit

122BA4Z1ML00061

053BA4Z1ML00061

053BA4Z1ML00061

**ASSEMBLED** 

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

| Description                                            | Part No. |
|--------------------------------------------------------|----------|
| 2005 with 3/8 NPTF - 2012 with 3/8 and 1/2 NPTF        | 239-2064 |
| 2005 with 3/8 G-Tap - 2012 with 3/8 and 1/2 G-Tap      | 239-2068 |
| 2005 with 3/8 Push-in - 2012 with 3/8 and 1/2 Push-in  | 239-2072 |
| 2005 with 10 mm Push-in - 2012 with 10 & 14 mm Push-in | 239-2076 |

# Adaptor Plate Kit with Standard End Plates and DIN Rail Mount ("DRM" Option)

| Description                                            | Part No. |
|--------------------------------------------------------|----------|
| 2005 with 3/8 NPTF - 2012 with 3/8 and 1/2 NPTF        | 239-2066 |
| 2005 with 3/8 G-Tap - 2012 with 3/8 and 1/2 G-Tap      | 239-2070 |
| 2005 with 3/8 Push-in - 2012 with 3/8 and 1/2 Push-in  | 239-2074 |
| 2005 with 10 mm Push-in - 2012 with 10 & 14 mm Push-in | 239-2078 |

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

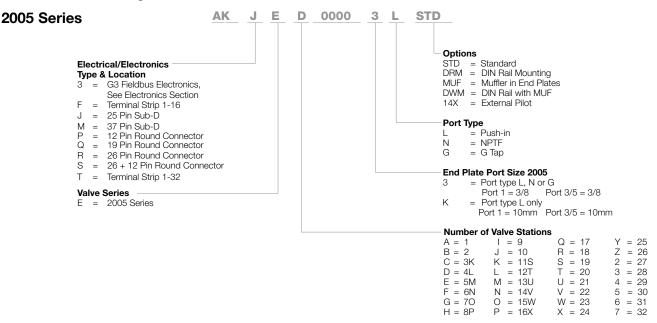
| Description                                            | Part No. |
|--------------------------------------------------------|----------|
| 2005 with 3/8 NPTF - 2012 with 3/8 and 1/2 NPTF        | 239-2065 |
| 2005 with 3/8 G-Tap - 2012 with 3/8 and 1/2 G-Tap      | 239-2069 |
| 2005 with 3/8 Push-in - 2012 with 3/8 and 1/2 Push-in  | 239-2073 |
| 2005 with 10 mm Push-in - 2012 with 10 & 14 mm Push-in | 239-2077 |

# Adaptor Plate Kit with Standard End Plates, Muffler and DIN Rail Mount ("DWM" Option)

| Description                                            | Part No. |
|--------------------------------------------------------|----------|
| 2005 with 3/8 NPTF - 2012 with 3/8 and 1/2 NPTF        | 239-2067 |
| 2005 with 3/8 G-Tap - 2012 with 3/8 and 1/2 G-Tap      | 239-2071 |
| 2005 with 3/8 Push-in - 2012 with 3/8 and 1/2 Push-in  | 239-2075 |
| 2005 with 10 mm Push-in - 2012 with 10 & 14 mm Push-in | 239-2079 |



#### **Manifold Assembly**



#### **Maximum Solenoid Outputs**

| Terminal Strip |        | 25 PIN<br>Sub-D | 37 PIN<br>Sub-D | 26 PIN<br>Round |
|----------------|--------|-----------------|-----------------|-----------------|
| AK "F"         | AK "T" | AK "J"          | AK "M"          | AK "R"          |
| 16             | 32     | 22              | 32              | 22              |

\*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



#### **Manifold Assembly Example**

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

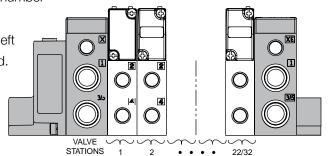
 Shaded components described by Assembly Kit (AK) model number designation.

• 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: (2005)

| 25 Pin Sub-D    | AKJED00003NSTD  |
|-----------------|-----------------|
| valve station 1 | 051BA4Z1MN00061 |
| valve station 2 | 051BA4Z1MN00061 |
| valve station 3 | 051BB4Z2MN00061 |
| valve station 4 | 051BB5Z2MN00061 |

**ASSEMBLED** 

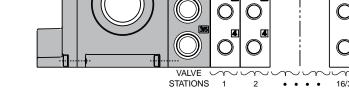


# AKF or AKT 1-16 or 1-32 Terminal Strip

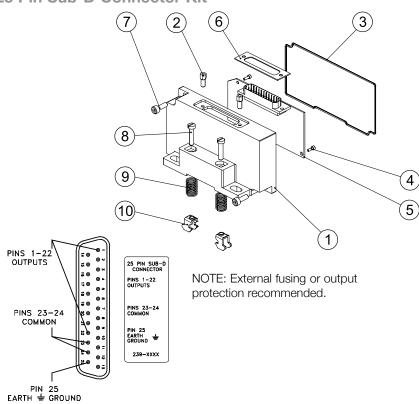
• Ordered using the same method as Sub-D:

#### Example order: (2005)

|                 | AKFEF00003LDRM  |
|-----------------|-----------------|
| valve station 1 | 05HBA4Z1ML00061 |
| valve station 2 | 05HBA4Z1ML00061 |
| valve station 3 | 05HBB4Z2ML00061 |
| valve station 4 | 05HBB4Z2ML00061 |
| valve station 5 | 05HBB5Z2ML00061 |
| valve station 6 | 05HBB6Z2ML00061 |
|                 | ASSEMBLED       |



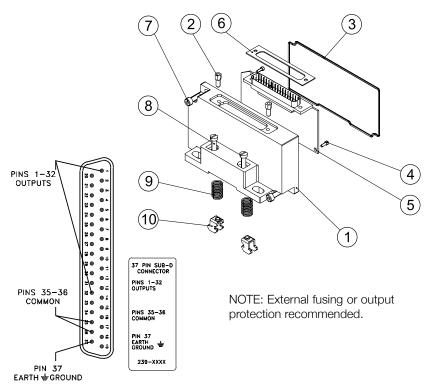
#### 25 Pin Sub-D Connector Kit



| 37 Pin Sub-D Housing Kits | Part No. |
|---------------------------|----------|
| Without DIN Rail          | 239-1174 |
| With DIN Rail             | 239-1175 |

| Det.<br>No. | No.<br>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  |
| 8           | 2            | Screw (DIN Rail Only)  | 127-472  |
| 9           | 2            | Spring (DIN Rail Only) | 115-355  |
| 10          | 2            | Clamp (DIN Rail Only)  | 125-720  |

#### 37 Pin Sub-D Connector Kit



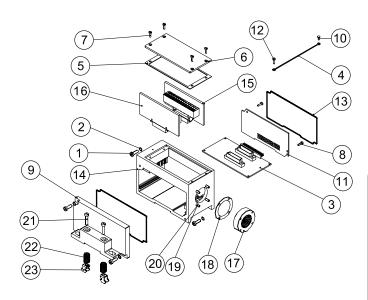
| 37 Pin Sub-D Housing Kits | Part No. |
|---------------------------|----------|
| Without DIN Rail          | 239-1180 |
| With DIN Rail             | 239-1181 |

| Det.<br>No. | No.<br>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  |
| 8           | 2            | Screw (DIN Rail Only)  | 127-472  |
| 9           | 2            | Spring (DIN Rail Only) | 115-355  |
| 10          | 2            | Clamp (DIN Rail Only)  | 125-720  |

Information subject to change without notice. For ordering information or regarding your local sales office visit www.Emerson.com.



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



TERMINAL STRIP
TERMINALS
1-32 OUTPUTS
TERMINAL COM
COMMON
TERMINAL GND
EARTH
GROUND 

18 AWG WIRE
MAXIMUM

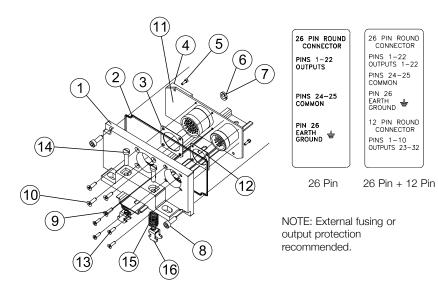
NOTE: External fusing or output protection recommended.

NOTE: Min. Wire AWG 26 Max. Wire AWG 18

| Terminal Strip Housing Kits | Part No. |
|-----------------------------|----------|
| Without DIN Rail, 1-16 Sol. | 239-1229 |
| With DIN Rail, 1-16 Sol.    | 239-1230 |
| Without DIN Rail, 1-32 Sol. | 239-1231 |
| With DIN Rail. 1-32 Sol.    | 239-1232 |

| Det.<br>No. | No.<br>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            | DIN Rail Cover PT           | 105-403  |
| 10          | 1            | Screw                       | 127-180  |
| 11          | 1            | Converter BRD               | 256-645  |
| 12          | 2            | Screw                       | 127-794  |
| 13          | 2            | Gasket                      | 113-531  |
| 14          | 1            | Housing                     | 125-844  |
| 15          | 1            | Terminal Strip (1-16) 256-6 |          |
| 16          | 1            | Terminal Strip (17-32)      | 256-619  |
| 17          | 1            | Adaptor                     | 119-659  |
| 18          | 1            | Gasket                      | 113-542  |
| 19          | 4            | Screw                       | 127-879  |
| 20          | 4            | Lockwasher                  | 128-192  |
| 21          | 2            | Screw (DIN Rail Only)       | 127-472  |
| 22          | 2            | Spring (DIN Rail Only)      | 115-355  |
| 23          | 2            | Clamp (DIN Rail Only)       | 125-720  |

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

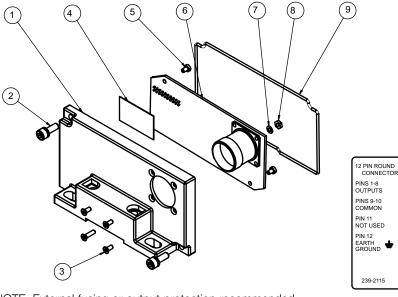


| Det.<br>No. | No.<br>Req'd | Part Name                 | Part No. |
|-------------|--------------|---------------------------|----------|
| 1           | 1            | Cover (26 Pin Only)       | 105-408  |
| 1           | 1            | Cover (26 + 12 Pin Only)  | 105-421  |
| 2           | 1            | Gasket                    | 113-531  |
| 3           | 1            | Gasket                    | 113-353  |
| 4           | 1            | 26 PCB Ass'y              | 256-624  |
| 4           | 1            | 26 + 12 PCB Ass'y         | 256-688  |
| 5           | 2            | Screw                     | 127-875  |
| 6           | 1            | Lockwasher                | 128-294  |
| 7           | 1            | Hex Nut                   | 128-293  |
| 8           | 2            | Screw Ass'y               | 127-396  |
| 9           | 3            | Screw                     | 127-810  |
| 10          | 1            | Screw                     | 127-770  |
| 11          | 1            | Shield (26 + 12 Pin Only) | 140-759  |
| 12          | 1            | Gasket (26 + 12 Pin Only) | 113-354  |
| 13          | 4            | Screw (26 + 12 Pin Only)  | 127-811  |
| 14          | 2            | Screw (DIN Rail Only)     | 127-742  |
| 15          | 2            | Spring (DIN Rail Only)    | 115-355  |
| 16          | 2            | Clamp (DIN Rail Only)     | 125-720  |

| 26 Pin Round Kit | Part No. |  |  |
|------------------|----------|--|--|
| Without DIN      | 239-1184 |  |  |
| With DIN         | 239-1185 |  |  |

| 26 + Pin Round Kits | Part No. |  |  |
|---------------------|----------|--|--|
| Without DIN         | 239-1184 |  |  |
| With DIN            | 239-1185 |  |  |

# 12 Pin Round Connector Kit 239-2115

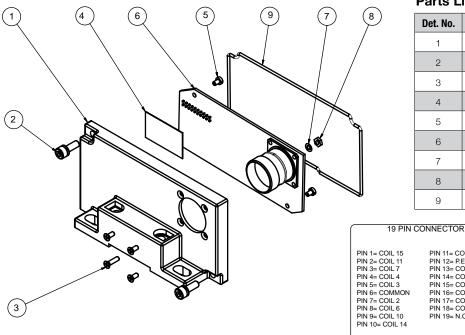


#### **Parts List**

| Det. No. | No. Req'd | No. Req'd Part Name |         |
|----------|-----------|---------------------|---------|
| 1        | 1         | Cover               | 105-451 |
| 2        | 2         | Screw               | 127-391 |
| 3        | 4         | Screw               | 127-982 |
| 4        | 1         | Shield              | 140-759 |
| 5        | 2         | Screw               | 127-875 |
| 6        | 1         | PC Board            | 256-905 |
| 7        | 4         | Lockwasher          | 128-352 |
| 8        | 4         | Nut                 | 128-288 |
| 9        | 1         | Gasket              | 113-531 |

NOTE: External fusing or output protection recommended.

#### 19 Pin Round Connector Kit 239-2307



#### **Parts List**

| Det. No. | No. Req'd | Part Name  | Part No. |
|----------|-----------|------------|----------|
| 1        | 1         | Cover      | 105-451  |
| 2        | 2         | Screw      | 127-391  |
| 3        | 4         | Screw      | 127-982  |
| 4        | 1         | Shield     | 140-759  |
| 5        | 2         | Screw      | 127-875  |
| 6        | 1         | PC Board   | 256-905  |
| 7        | 4         | Lockwasher | 128-352  |
| 8        | 4         | Nut        | 128-288  |
| 9        | 1         | Gasket     | 113-531  |

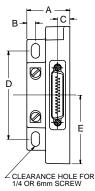
PIN 11= COIL 13 PIN 12= P.E. PIN 13= COIL 12 PIN 14= COIL 8 PIN 15= COIL 1 PIN 16= COIL 5 PIN 17= COIL 9 PIN 18= COIL 16 PIN 19= N.C.

NOTE: External fusing or output protection recommended.

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# **Electrical Interface**

25 Pin Sub-D

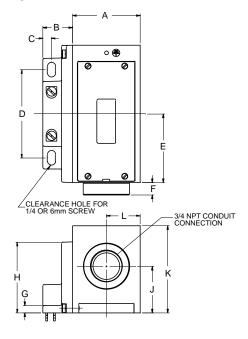




#### **Dimensions: Inches (mm)**

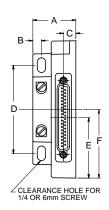
| A      | В     | C      | D      | E      | F     | G      | Н      |
|--------|-------|--------|--------|--------|-------|--------|--------|
| 1.45   | 0.29  | 0.42   | 2.98   | 2.32   | 0.25  | 2.40   | 2.47   |
| (36.8) | (7.4) | (10.7) | (75.7) | (58.9) | (6.3) | (61.0) | (62.7) |

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



#### **Dimensions: Inches (mm)** В C D G L Н K 2.28 1.00 0.29 2.98 2.32 0.43 0.25 2.40 1.58 2.95 1.14 (7.4)(75.7) (58.9) (10.9) (6.3)(61.0) (40.1) (74.9) (29.0)

#### 37 Pin Sub-D

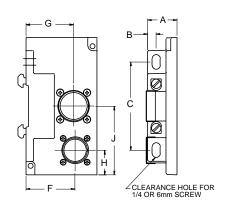




#### **Dimensions: Inches (mm)**

| Α      | В     | C      | D      | E      | F      | G     | Н      | 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) |

# 12, 19, 26 & 26 + 12 Pin Round Connector





#### **Dimensions: Inches (mm)**

| A              | В             | C              | D              | E | F | G              | Н              | J              |
|----------------|---------------|----------------|----------------|---|---|----------------|----------------|----------------|
| 1.00<br>(25.4) | 0.29<br>(7.4) | 2.98<br>(75.7) | 2.40<br>(61.0) |   |   | 1.61<br>(40.9) | 0.82<br>(20.8) | 2.32<br>(58.9) |



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