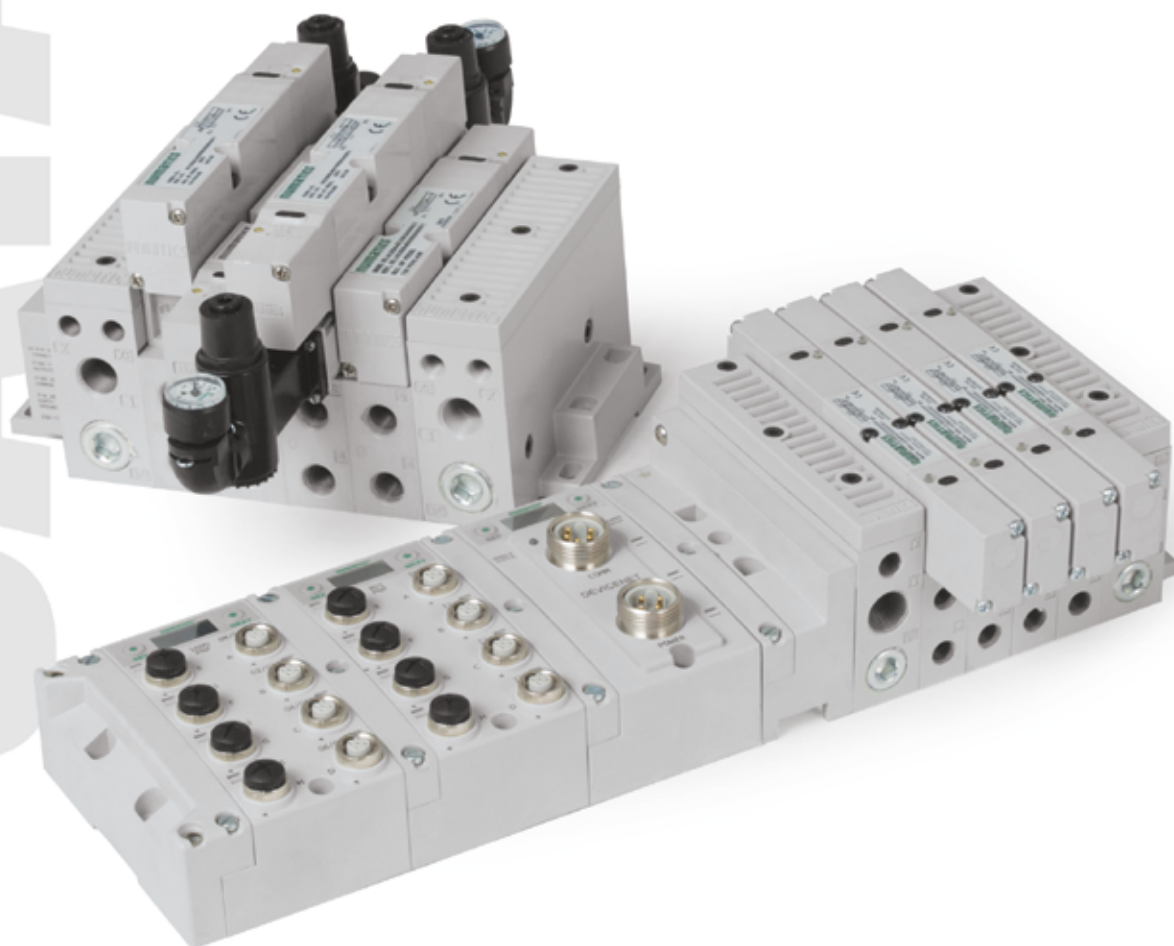


CATALOG

valves

# ISO Series

ISO 15407-2



# numatics®

  
**EMERSON**  
Industrial Automation

[www.numatics.com](http://www.numatics.com)

# numatics®

Numatics, Inc. is a leading manufacturer of pneumatic products and motion control products. Our broad spectrum of standard, custom developed products and application components, have made a significant impact on pneumatic innovation as well as pneumatic and motion control technology. Our company has an extensive history of generating innovative concepts and technological breakthroughs. Many of today's standard features in pneumatic technology were industry firsts from Numatics. We continue our innovative approach to product development by developing electric motion control solutions and enhancing our embedded Fieldbus and I/O products to continually meet and solve our customer's application requirements.



Today Numatics is proud to be a part of the Industrial Automation Division of Emerson Electric Co.

Emerson (NYSE: EMR) is a global company that brings together technology and engineering to provide innovative solutions for customers in a wide range of industrial, commercial, and consumer markets.

Numatics, along with the vast resources of the Emerson organization, will assure that our proud history of innovation and service will continue to meet the needs of our global customers.



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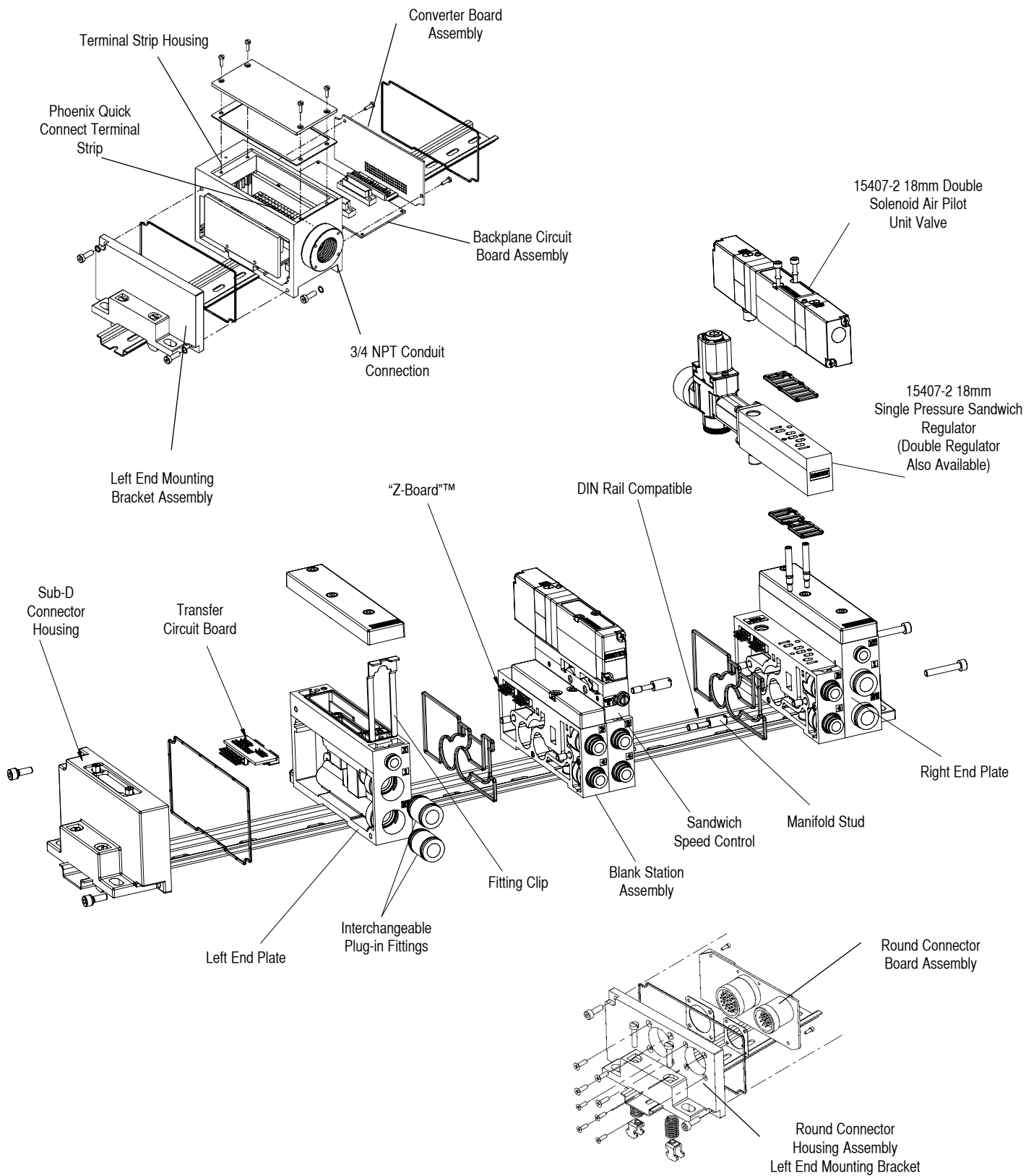
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## ISO 15407-2 Series 18 mm

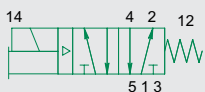
**numatics®**

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

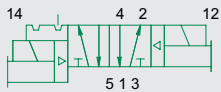




single solenoid air pilot  
2 position 4-way



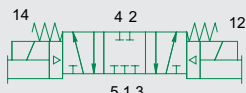
double solenoid air pilot  
2 position 4-way



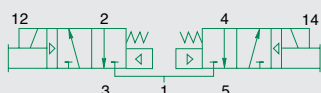
double solenoid air pilot 3 position  
4-way open center



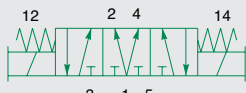
double solenoid air pilot 3 position  
4-way closed center



double solenoid 2 position 3-way  
"14" & "12" NC



double solenoid 3 position 4-way,  
open to 4 and 2 in center



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

- Solenoid air pilot actuated
- Low wattage plug-in
- 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
- Modular plug-together Fieldbus electronics
- NEMA 4/IP65

## Technical Data - 18mm

| VALVE DATA                  | ENGLISH                                           | METRIC                                        |
|-----------------------------|---------------------------------------------------|-----------------------------------------------|
| Cv                          | 0.56                                              | 0.56                                          |
| Flow Capacity               | 26 SCFM @ 80 PSIG upstream pressure to atmosphere | 552 NI/m @ 6 bar upstream to 5 bar downstream |
| Operating Pressure Range    | 28"Hg Vacuum to 150 PSIG                          | Vacuum to 10 bar                              |
| Pilot Pressure Range        | 26 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)                           | 1.0    | 3.7                     |
| 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       |





## ISO 15407-2 Series 18 mm

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### How to Order 15407-2 18 mm

#### Valves

| Valve Series                                                                                    | Port Size                                                                                                             | Valve Type                                                                                                                                                | Function                                                                                                                                                                                                                                                                                                                               | Wiring Option                                                                                                                                                                                                                                                                                                                                                                                                                       | Mounting                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I5 = 18mm (Spool / Sleeve)<br>R5 = 18mm (Rubber Packed D & E Function Only)                     | 1* = 1/8 (Threaded only)<br>2 = 1/4 (Push-in only)<br>F = 6mm<br>H = 8mm<br>*Use for valve unit only (Mounting = 00). | BA = Single Solenoid Pilot, (Spring Return) w/flush Non-Locking Override<br>BB = Double Solenoid Pilot w/Flush Non-Locking Override<br>00 = Blank Station | 4 = 2 position, 4-way<br>5 = 3 position, 4-way open center<br>6 = 3 position, 4-way closed center<br>7 = 3 position, 4-way, Open to 4 and 2 in center<br>D = Dual 3-way, 4 Normally Closed - 2 Normally Closed (R5 Only)<br>E = Dual 3-way, Vacuum Service, 4 Normally Closed - 2 Normally Closed (R5 Only)<br>P = Blank Station Plate | K = Plug-in AC w/Light<br>M = Plug-in DC w/Light<br>0 = Blank Station                                                                                                                                                                                                                                                                                                                                                               | 00 = Valve unit only<br>01 = 00 w/Speed Control<br>Z1 = Manifold Block w/Side and Bottom Ports, Single Solenoid Internal Circuit Board<br>Z2 = Manifold Block w/Side and Bottom Ports, Double Solenoid Internal Circuit Board<br>Z5 = Z1 w/Speed Control<br>Z6 = Z2 w/Speed Control<br>R1 = Z1 w/Ribbon Cable Connector<br>R2 = Z2 w/Ribbon Cable Connector<br>R5 = Z5 w/Ribbon Cable Connector<br>R6 = Z6 w/Ribbon Cable Connector |
| Voltage                                                                                         | Options                                                                                                               | Port Type                                                                                                                                                 | Wiring Option                                                                                                                                                                                                                                                                                                                          | Mounting                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 20 = 24/50-60 VAC<br>30 = 110-120/50-60 VAC<br>60 = 12 VDC<br>61 = 24 VDC<br>00 = Blank Station | 000 = Standard<br>11M = No Override<br>11B = Flush Locking Override                                                   | L = Push-in Fitting<br>N = NPTF (1/8 only)<br>G = G Tap (1/8 only) ISO228/I-G<br>0 = Valve Unit Only                                                      | K = Plug-in AC w/Light<br>M = Plug-in DC w/Light<br>0 = Blank Station                                                                                                                                                                                                                                                                  | 00 = Valve unit only<br>01 = 00 w/Speed Control<br>Z1 = Manifold Block w/Side and Bottom Ports, Single Solenoid Internal Circuit Board<br>Z2 = Manifold Block w/Side and Bottom Ports, Double Solenoid Internal Circuit Board<br>Z5 = Z1 w/Speed Control<br>Z6 = Z2 w/Speed Control<br>R1 = Z1 w/Ribbon Cable Connector<br>R2 = Z2 w/Ribbon Cable Connector<br>R5 = Z5 w/Ribbon Cable Connector<br>R6 = Z6 w/Ribbon Cable Connector |                                                                                                                                                                                                                                                                                                                                                                                                                                     |

#### Regulators

| Valve Series & Port Size                                                                                         | Regulator Type                                                                                                                       | Pressure Range                                                                        | Mounting                                                                                                                                                                                                                                                                                                                                                                                                     | Special Options                                                                                                                                                     | Port Type                                                                                        | Wiring Option                                                  |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| I51* = 1/8<br>I52 = 1/4 (Push-in only)<br>I5F = 6mm<br>I5H = 8mm<br>*Use for regulator unit only(Mounting = 00). | RS = Single Pressure to Port 1<br>RD = Dual Pressure to Ports 3 & 5<br>RT = 2 Pressure Selector<br>RE = Dual Pressure to Ports 4 & 2 | 1 = 10-130 PSIG (0.7-9 bar)<br>3 = 3-30 PSIG (0.2-2 bar)<br>4 = 5-60 PSIG (0.5-4 bar) | 00 = Regulator Unit Only<br>Z1 = Manifold Block w/Side and Bottom Ports, Single Solenoid Internal Circuit Board<br>Z2 = Manifold Block w/Side and Bottom Ports, Double Solenoid Internal Circuit Board<br>Z5 = Z1 w/Speed Control<br>Z6 = Z2 w/Speed Control<br>R1 = Z1 w/Ribbon Cable Connector<br>R2 = Z2 w/Ribbon Cable Connector<br>R5 = Z5 w/Ribbon Cable Connector<br>R6 = Z6 w/Ribbon Cable Connector | 12H = Less Gauge<br>16N = Jumper on 14 End<br>16P = Jumper on 12 End<br>16W = Top Facing Gauge<br>61Y = Extended Gauge<br>63D = 16W + 61Y Extended Top Facing Gauge | L = Push-in<br>N = NPTF (1/8 only)<br>G = G Tap (1/8 only) ISO228/I-G<br>0 = Regulator Unit Only | J = Plug-in Receptacle Ass'y<br>0 = Non Plug-In (Type RE Only) |



#### 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.



## Sandwich Pressure Regulators

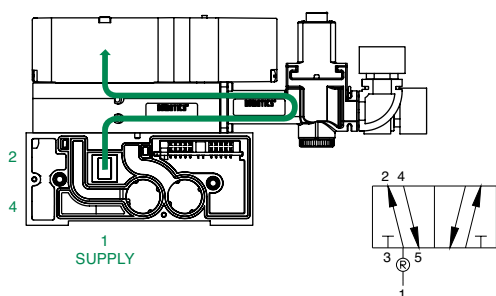
Types: RS / RD / RE / RT

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."

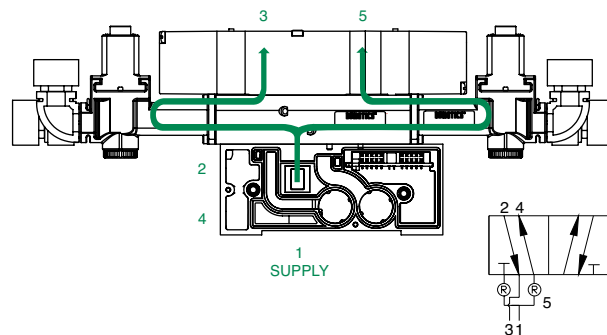
|                       |                              |                              |
|-----------------------|------------------------------|------------------------------|
| EXAMPLE ORDERS:       | TYPE RS                      | TYPE RD                      |
| Valve unit only:      | I51BA400K000030              | I51BB400M000061              |
| Regulator + mounting: | I52RS1Z1JK00000<br>ASSEMBLED | I52RD1Z2JK00000<br>ASSEMBLED |

Type RS



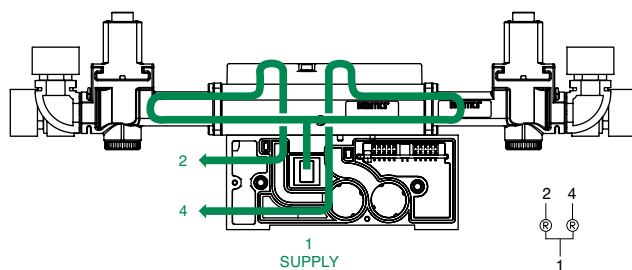
Single pressure from a single supply.

Type RD



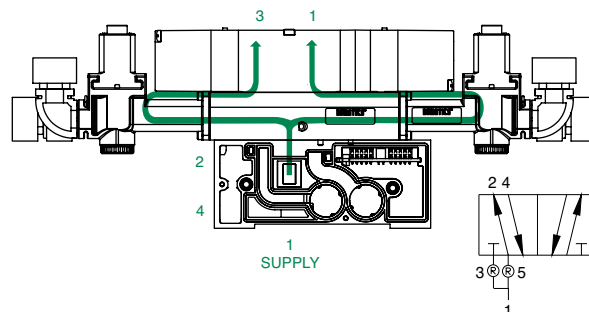
Dual pressure from a single supply.

Type RE



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

Type RT



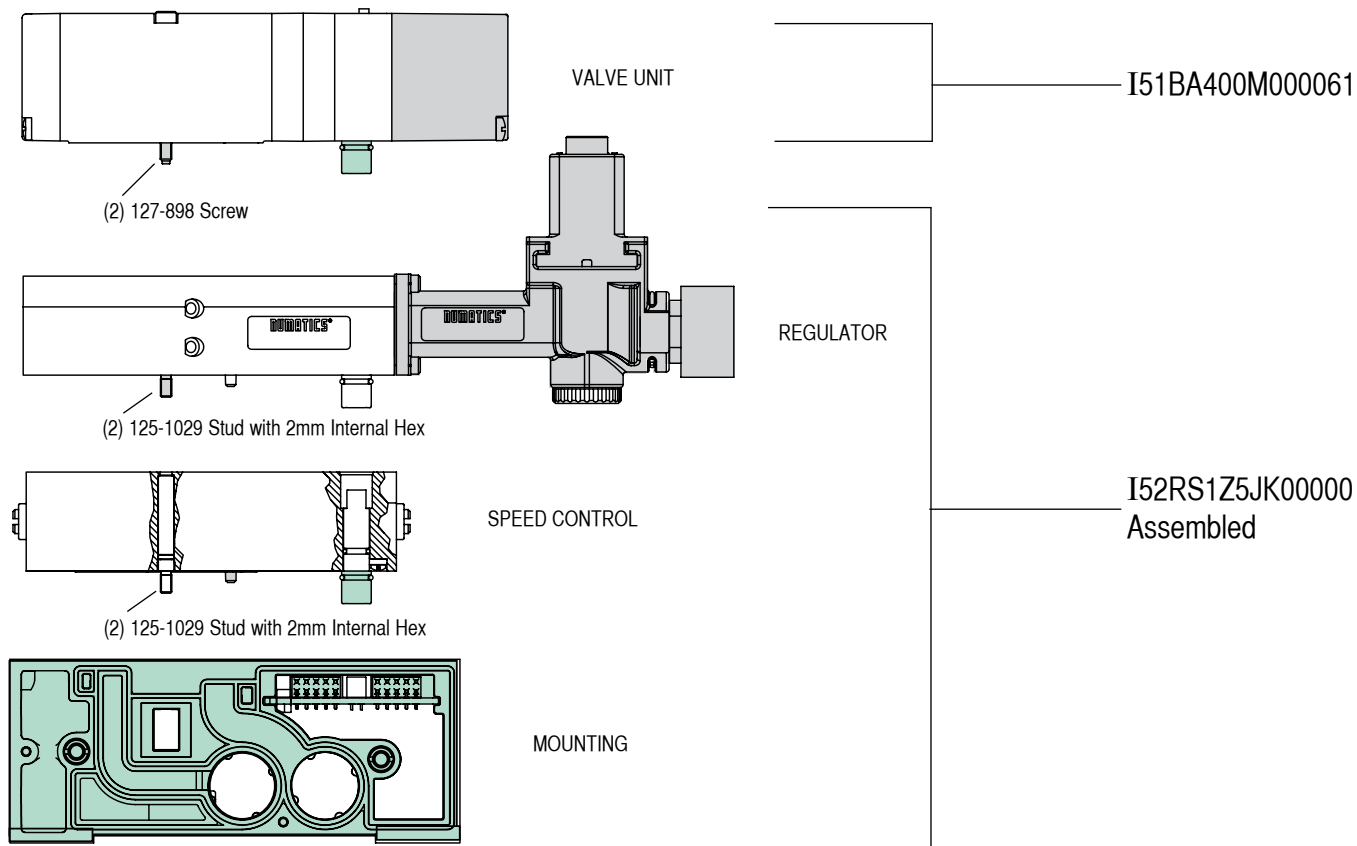
Two-pressure selector used for multi-pressure applications.



## ISO 15407-2 Series 18 mm

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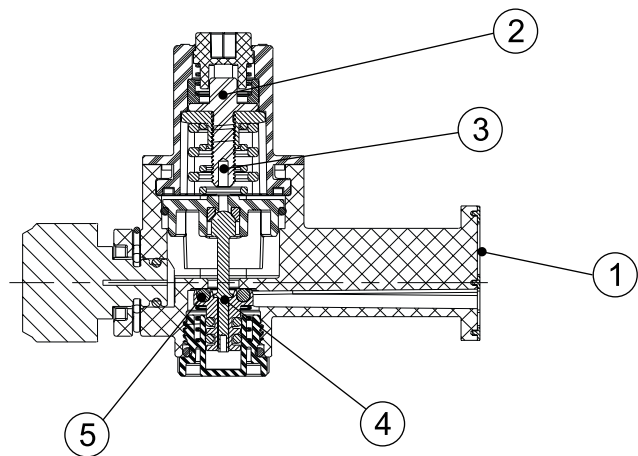
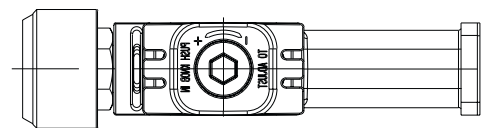
### Valve Regulator / Speed Control Plug-in Assembly



### Regulator Kits & Service Parts

#### Regulator Service Kit

239-1839



#### 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  |

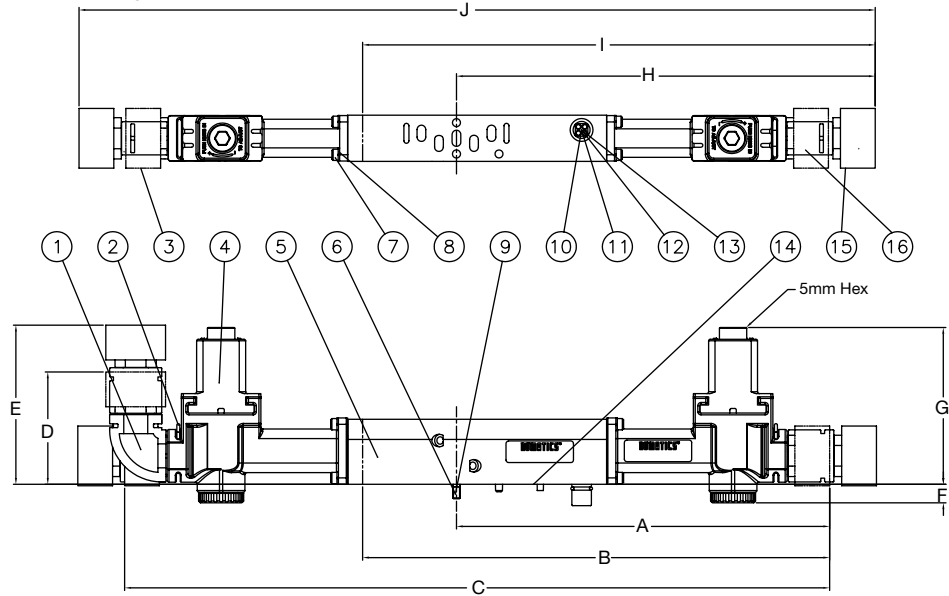
\* Both springs required

| DET. NO. | NO. REQ'D | PART NAME               |
|----------|-----------|-------------------------|
| 1        | 1         | Gasket                  |
| 2        | 1         | Regulator Cap Assembly  |
| 3        | 1         | Regulator Stem Assembly |
| 4        | 1         | Piston Assembly         |
| 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               | J                | K            | L             | M             |
|-----------------|-----------------|------------------|----------------|----------------|--------------|----------------|-----------------|-----------------|------------------|--------------|---------------|---------------|
| 5.85<br>(148.6) | 7.32<br>(185.9) | 11.04<br>(280.4) | 1.77<br>(44.9) | 2.50<br>(63.6) | .29<br>(7.4) | 2.37<br>(60.3) | 6.59<br>(167.4) | 8.06<br>(204.8) | 12.52<br>(318.1) | .36<br>(9.3) | .73<br>(18.5) | .94<br>(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 Extension Kit | 239-1790 |
| Gauge Adapter Kit   | 239-1561 |

#### 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. 6            |
| 5        | 1         | Single Riser Block         | Not sold separately |
| 5        | 1         | Double Riser Block         | Not sold separately |
| 6        | 2         | Stud with 2mm Internal Hex | 125-991             |
| 7        | 4**       | Screw                      | 127-957             |
| 8        | 4**       | Lockwasher                 | 128-352             |
| 9        | 2         | O-Ring                     | 126-187             |
| 10       | 1         | Plug Assembly              | 230-1006            |
| 11       | 1         | O-Ring                     | 126-144             |
| 12       | 1         | O-Ring                     | 126-419             |
| 13       | 1         | Screw                      | 127-318             |
| 14       | 1         | Gasket                     | 113-212             |
| 15       | 1*        | Gauge 160 PSI max.         | 214-212             |
| 15       | 1*        | Gauge 11 bar max.          | 214-213             |
| 15       | 1*        | Gauge 60 PSI max.          | 214-217             |
| 15       | 1*        | Gauge 4 bar max.           | 214-218             |
| 16       | 1*        | O-Ring                     | 126-105             |

\* (2) Required for RD

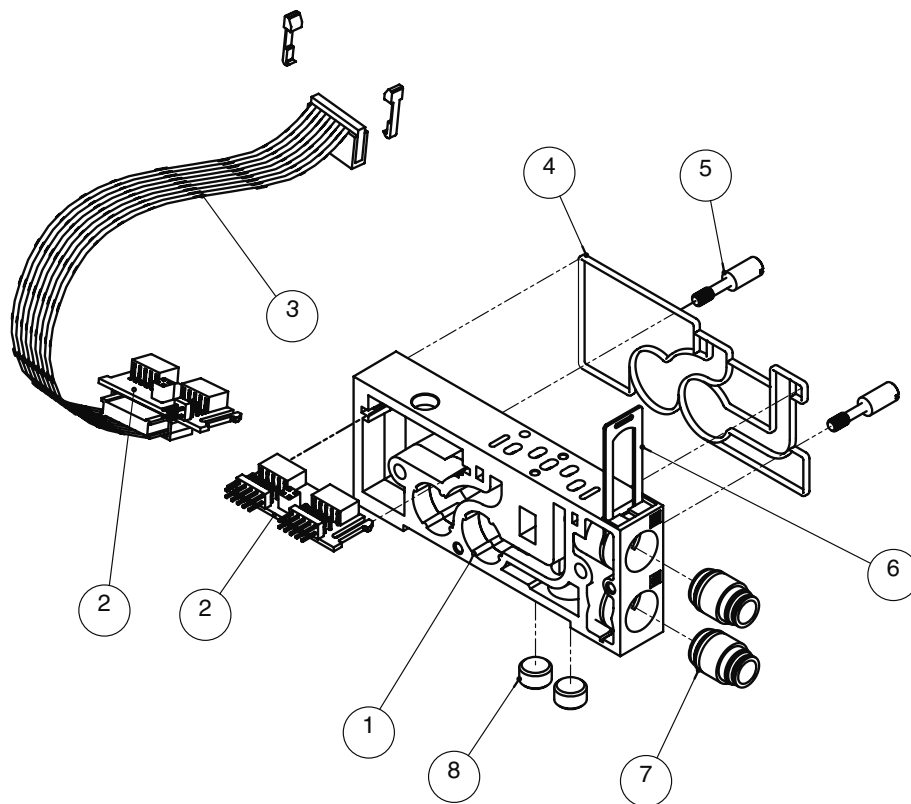
\*\* (8) Required for RD



## ISO 15407-2 Series 18 mm

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### Manifold Assembly Kits



#### Component List

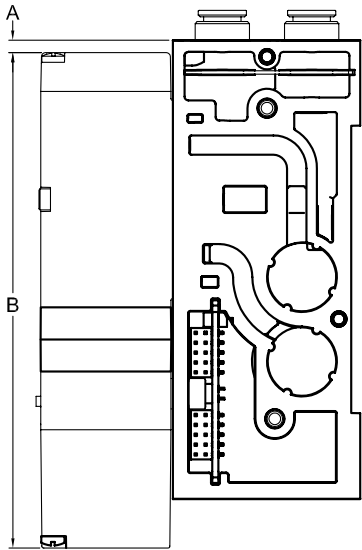
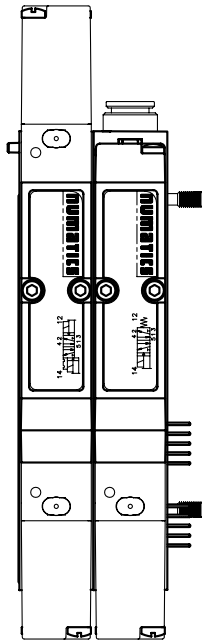
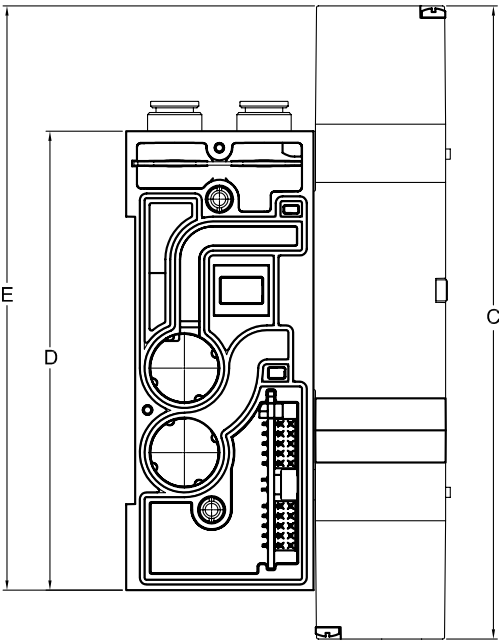
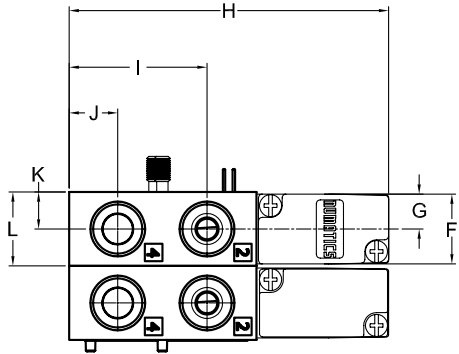
| DET. NO. | NO. REQ'D | PART NAME             | PART NO.                   |
|----------|-----------|-----------------------|----------------------------|
| 1        | 1         | Manifold Block        | <i>Not sold separately</i> |
| 2        | 1         | "Z-Board"™            | <i>Not sold separately</i> |
| 3        | 1         | Ribbon Cable Assembly | 230-1053                   |
| 4        | 1         | Gasket Manifold       | 113-571                    |
| 5        | 2         | Stud                  | 125-1011                   |
| 6        | 1         | Retaining Clip        | 125-1013                   |
| 7        | 2         | Push-in Fittings      | <i>See p. 12</i>           |
| 8        | 2         | Pipe Plug 1/8 NPTF    | 129-100                    |
| 8        | 2         | Pipe Plug G 1/8       | 129-160                    |

#### MANIFOLD ASSEMBLY KITS - 18 mm

|                                  | 1/8 NPTF | ISO228-G 1/8 | 1/4 Push-in | 6 mm Push-in | 5/16 (8 mm) Push-in |
|----------------------------------|----------|--------------|-------------|--------------|---------------------|
| Side Port                        |          |              |             |              |                     |
| Bottom Port                      |          |              |             |              |                     |
| Single "Z-Board"™                | 206-1719 | 206-1717     | 206-1723    | 206-1725     | 206-1721            |
| Double "Z-Board"™                | 206-1720 | 206-1718     | 206-1724    | 206-1726     | 206-1722            |
| Single "Z-Board"™ w/Ribbon Cable | 206-1729 | 206-1727     | 206-1733    | 206-1735     | 206-1731            |
| Double "Z-Board"™ w/Ribbon Cable | 206-1730 | 206-1728     | 206-1734    | 206-1736     | 206-1732            |
| Passive                          | 206-1738 | 206-1737     | 206-1740    | 206-1741     | 206-1739            |



### Valve on Manifold Block – 18 mm



### Dimensions

top dimensions = inches

bottom dimensions (in parenthesis) = millimeters

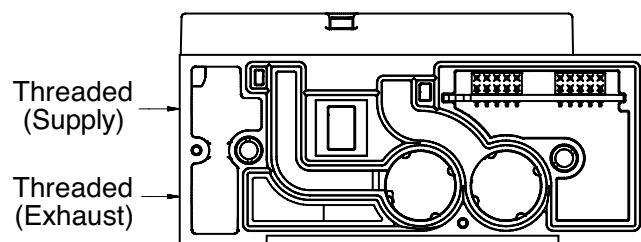
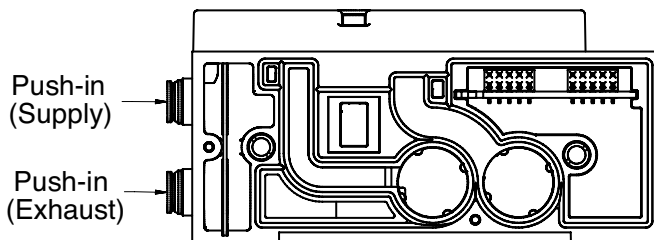
| A             | B               | C               | D               | E               | F              | G             | H              | I              | J              | K             | L              |
|---------------|-----------------|-----------------|-----------------|-----------------|----------------|---------------|----------------|----------------|----------------|---------------|----------------|
| 0.13<br>(3.2) | 5.02<br>(127.6) | 6.42<br>(163.1) | 4.65<br>(118.0) | 5.93<br>(150.5) | 0.71<br>(18.0) | 0.35<br>(9.0) | 3.24<br>(82.3) | 1.40<br>(35.5) | 0.49<br>(12.5) | 0.37<br>(9.5) | 0.75<br>(19.1) |



## ISO 15407-2 Series 18 mm

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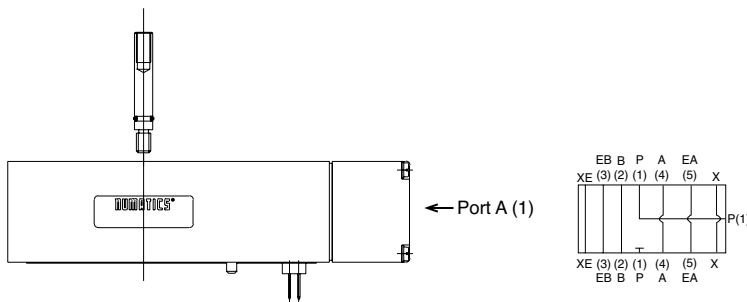
### Mid-Station Supply and Exhaust Block



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

|             | PART NO. |
|-------------|----------|
| 1/4 Push-in | 245-130  |
| 6mm Push-in | 245-161  |
| 8mm Push-in | 245-131  |
| NPTF 1/8    | 245-128  |
| G 1/8       | 245-129  |

### Sandwich Pressure Block

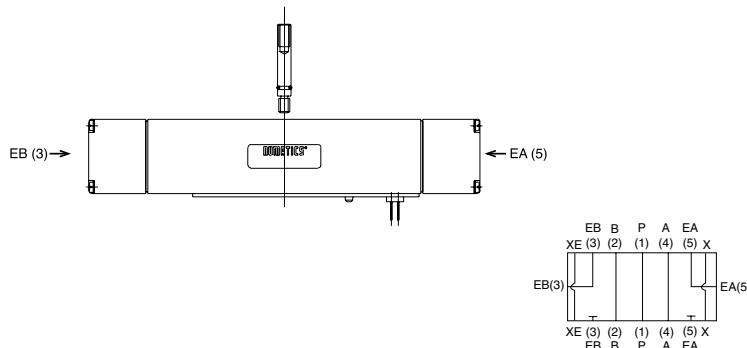


- Used to supply a separate pressure to a single valve station without needing blocking disks

#### Sandwich Pressure Block Kit

| PORT TYPE | PART NO. |
|-----------|----------|
| NPTF 1/8  | 245-165  |
| G 1/8     | 245-164  |

### Sandwich Exhaust Block



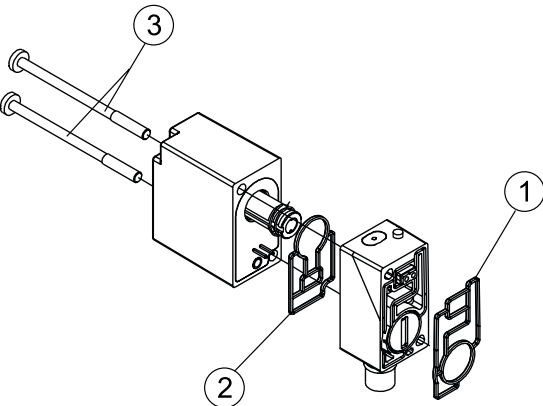
- Used to isolate the exhaust of a single valve station from the manifold.
- Allows faster exhaust response by re-routing.
- Exhaust externally to the manifold.

#### Sandwich Exhaust Block Kit

| PORT TYPE | PART NO. |
|-----------|----------|
| NPTF 1/8  | 245-166  |
| G 1/8     | 245-163  |

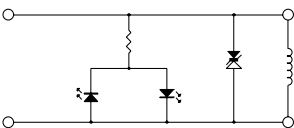


### Solenoid Pilot Assembly

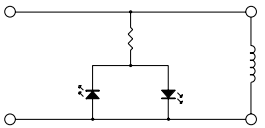


| DET. NO. | NO. REQ'D. | PART NAME        | PART NO. |
|----------|------------|------------------|----------|
| 1        | 1          | Gasket           | 113-573  |
| 2        | 1          | Gasket           | 113-572  |
| 3        | 2          | Screw ('12' End) | 127-658  |
| 3        | 2          | Screw ('14' End) | 127-1024 |

| DESCRIPTION                       | 12 VDC  | 24 VDC  | 24 VAC   | 120 VAC  |
|-----------------------------------|---------|---------|----------|----------|
| 14 end, push non-locking override | 236-599 | 236-600 | 237-1209 | 237-1208 |
| 12 end, push non-locking override | 236-501 | 236-502 | 237-1121 | 237-1118 |
| 14 end, turn & lock override      | 236-597 | 236-598 | 237-1207 | 237-1206 |
| 12 end, turn & lock override      | 236-500 | 236-503 | 237-1120 | 237-1117 |
| 14 end, no override               | 236-595 | 236-596 | 237-1205 | 237-1204 |
| 12 end, no override               | 236-499 | 236-504 | 237-1119 | 237-1116 |



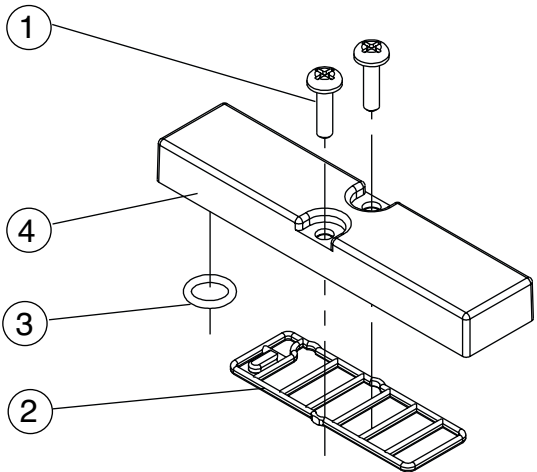
DC Solenoid  
Circuit Diagram



AC Solenoid  
Circuit Diagram

### Blank Station Plate Kit

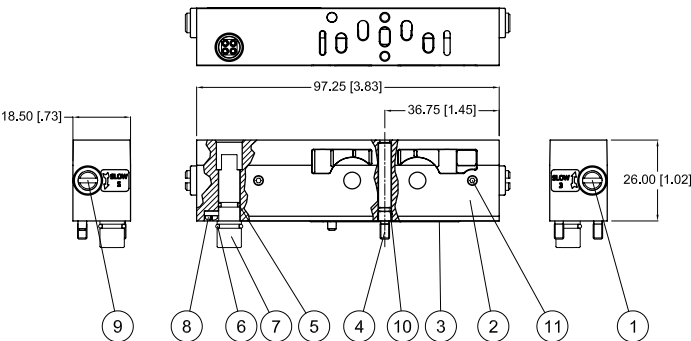
245-123



| DET. NO. | NO. REQ'D. | PART NAME           | PART NO. |
|----------|------------|---------------------|----------|
| 1        | 2          | Screw               | 127-570  |
| 2        | 1          | Gasket              | 113-661  |
| 3        | 1          | O-Ring              | 126-191  |
| 4        | 1          | Blank Station Plate | 104-844  |

### Speed Control Kit

245-122



| DET. NO.  | NO. REQ'D. | PART NAME          | PART NO. |
|-----------|------------|--------------------|----------|
| 1         | 1          | Metering Screw     | 118-184  |
| Not Shown | 2          | Nylon Rod          | 125-131  |
| 2         | 1          | Speed Control Body | 119-802  |
| 3         | 1          | Gasket             | 113-661  |
| 4         | 2          | Stud               | 125-1180 |
| 5         | 1          | O-Ring             | 126-419  |
| 6         | 1          | O-Ring             | 126-144  |
| 7         | 1          | Plug Assembly      | 230-1006 |
| 8         | 1          | Screw              | 127-318  |
| 9         | 1          | Metering Screw     | 118-205  |
| 10        | 2          | O-Ring             | 126-345  |
| 11        | 2          | Set Screw          | 127-686  |



## ISO 15407-2 Series 18 mm

**numatics**

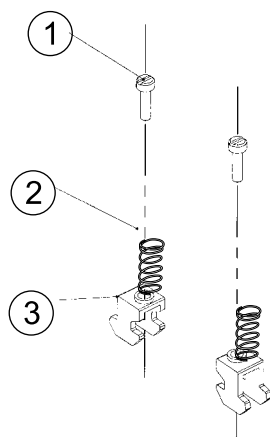
### Interchangeable Push-in Cartridge Fittings



| PORTS   | SIZE       | TYPE       | 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 Assy. | 239-1190 |
| X, XE   | N/A        | Plug Assy. | 239-1086 |
| 2, 4    | N/A        | Plug Assy. | 239-1085 |

### DIN Rail Clamp Kit

239-980



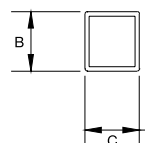
| DET. NO. | NO. REQ'D. | PART NAME | PART NO. |
|----------|------------|-----------|----------|
| 1        | 4          | Screw     | 127-472  |
| 2        | 4          | Spring    | 115-355  |
| 3        | 4          | Clamp     | 125-720  |

### Blocking Discs

Port 3/5



Port 1

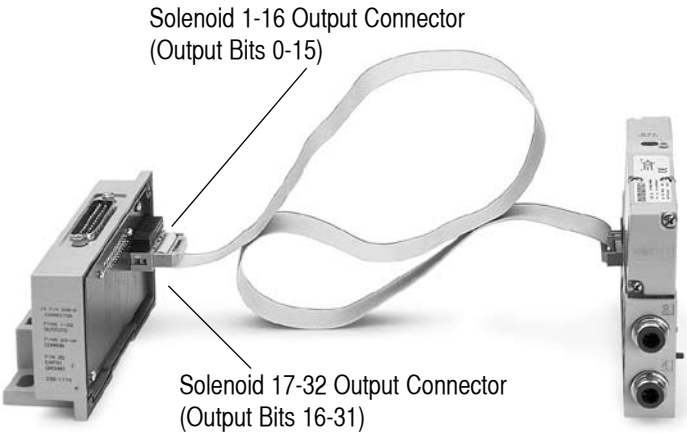


| PORT | PART NO. | A              | B              | C              |
|------|----------|----------------|----------------|----------------|
| 1    | 124-341  | N/A            | 0.54<br>(13.7) | 0.50<br>(12.6) |
| 3/5  | 239-907  | 0.70<br>(17.8) | N/A            | N/A            |





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.



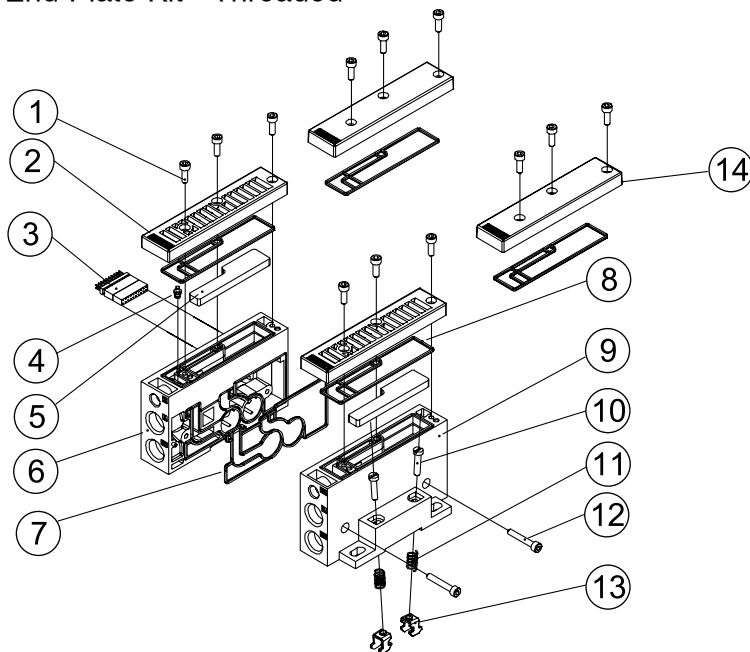
Label on manifold block indicates installed-  
"Z-Board"™ type.



## ISO 15407-2 Series 18 mm

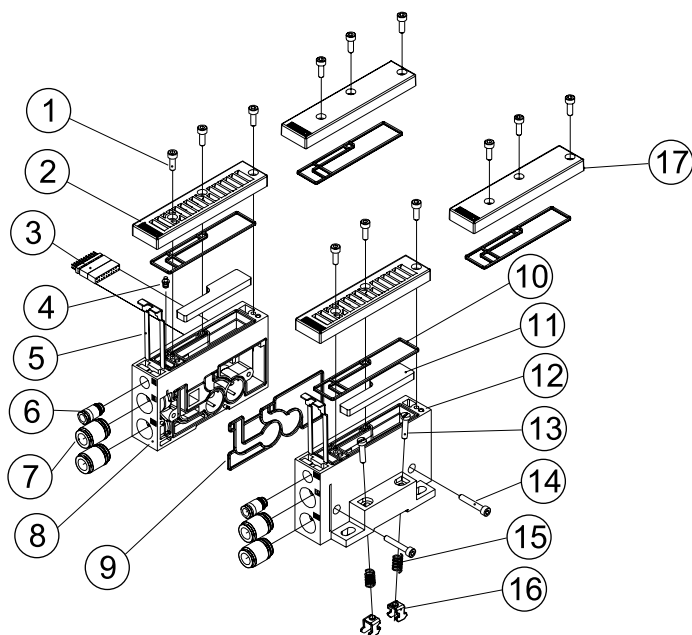
**numatics**

### End Plate Kit - Threaded



| DET. NO. | NO. REQ'D | PART NAME              | PART NO. |
|----------|-----------|------------------------|----------|
| 1        | 6         | Cover Screw            | 127-368  |
| 2        | 2         | Vented Cover           | 105-435  |
| 3        | 1         | Transfer Conn.         | 256-698  |
| 4        | 1         | Pilot Plug Ass'y       | 213-497  |
| 5        | 2         | Muffler                | 125-1012 |
| 6        | 1         | LH Endplate            | 104-849  |
| 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 Kit - Push-in

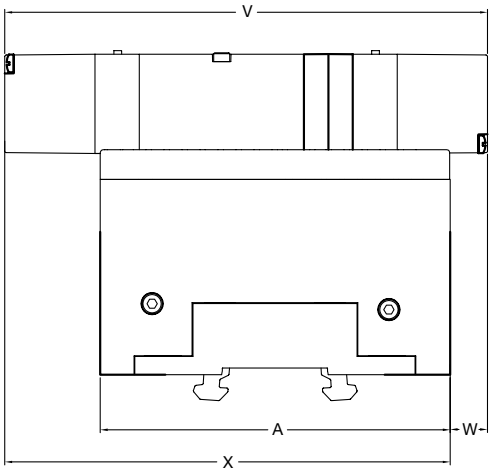
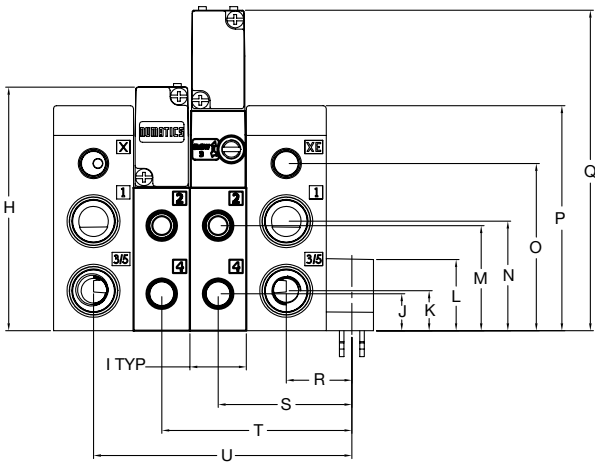
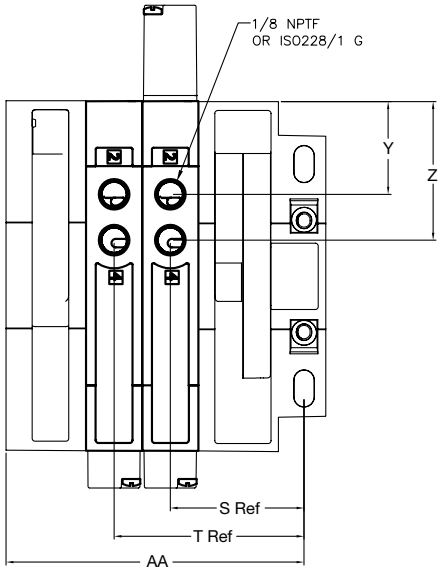
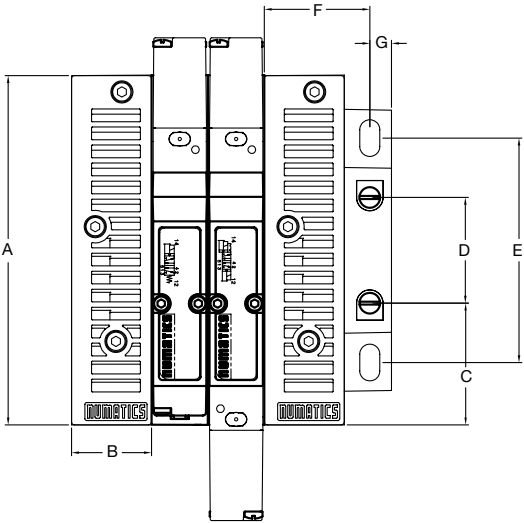


| DET. NO. | NO. REQ'D | PART NAME                      | PART NO.  |
|----------|-----------|--------------------------------|-----------|
| 1        | 6         | Cover Screw                    | 127-368   |
| 2        | 2         | Vented Cover                   | 105-435   |
| 3        | 1         | Transfer Conn.                 | 256-968   |
| 4        | 1         | Pilot Plug Ass'y               | 213-497   |
| 5        | 2         | Retaining Clip                 | 125-1014  |
| 6        | 2         | Pilot Push-in Fitting          | See p. 12 |
| 7        | 4         | Supply/Exhaust Push-in Fitting | See p. 12 |
| 8        | 1         | LH Endplate                    | 104-851   |
| 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    |     |       | ISO228/1-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     | 3/8 | 1/4   | 10mm    | 10mm | 6mm   |
| Kit w/o muffler, w/o DIN Rail | 242-124 |     |       | 242-128    |     |       | 242-132 |     |       | 242-136 |      |       |
| Kit w/o muffler, w/ DIN Rail  | 242-123 |     |       | 242-127    |     |       | 242-131 |     |       | 242-135 |      |       |
| Kit w/ muffler, w/o DIN Rail  | 242-122 |     |       | 242-126    |     |       | 242-130 |     |       | 242-134 |      |       |
| Kit w/ muffler, w/ DIN Rail   | 242-121 |     |       | 242-125    |     |       | 242-129 |     |       | 242-133 |      |       |



### Manifold Assembly – 18 mm



NOTE:  
For Electrical Interface option dimensions see pg.46

### 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              |
|-----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 4.65<br>(118.2) | 1.06<br>(27.0) | 1.57<br>(40.0) | 1.40<br>(35.7) | 2.98<br>(75.8) | 1.34<br>(34.1)  | 0.35<br>(8.8)  | 3.24<br>(82.3)  | 0.75<br>(19.5) | 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) | 2.99<br>(76.0) |
| Q               | R              | S              | T              | U              | V               | W              | X               | Y              | Z              | AA             |                |                |                |                |                |
| 4.26<br>(108.3) | 0.81<br>(20.6) | 1.72<br>(43.6) | 2.47<br>(62.7) | 3.38<br>(85.9) | 6.42<br>(163.1) | 0.50<br>(12.6) | 5.93<br>(150.5) | 1.24<br>(31.5) | 1.85<br>(47.0) | 3.91<br>(99.2) |                |                |                |                |                |

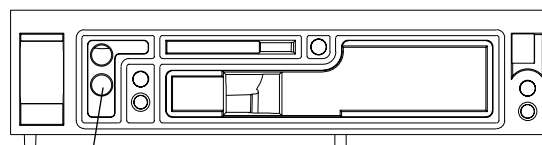
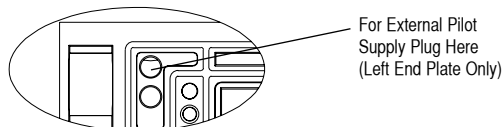
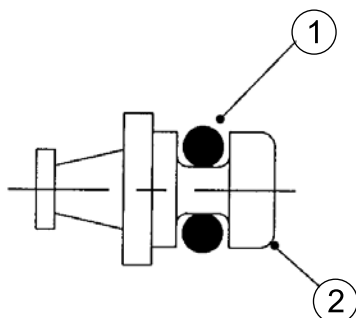


## ISO 15407-2 Series 18 mm

**numatics®**

Internal Pilot Plug 213-497

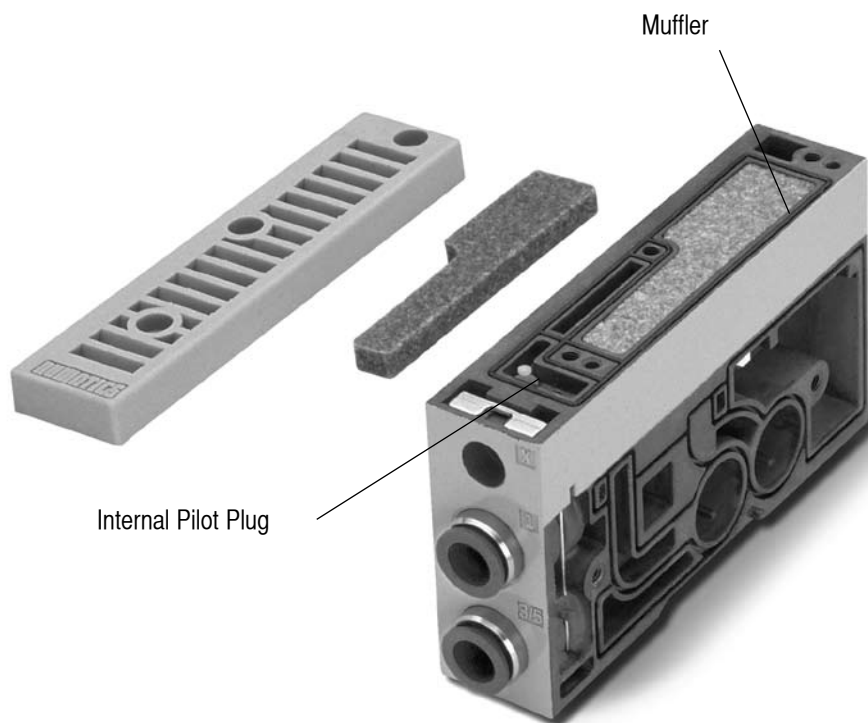
Internal/External Pilot Selection



| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|----------|-----------|-----------|----------|
| 1        | 1         | Plug      | 125-820  |
| 2        | 1         | O-Ring    | 126-412  |

Internal Muffler

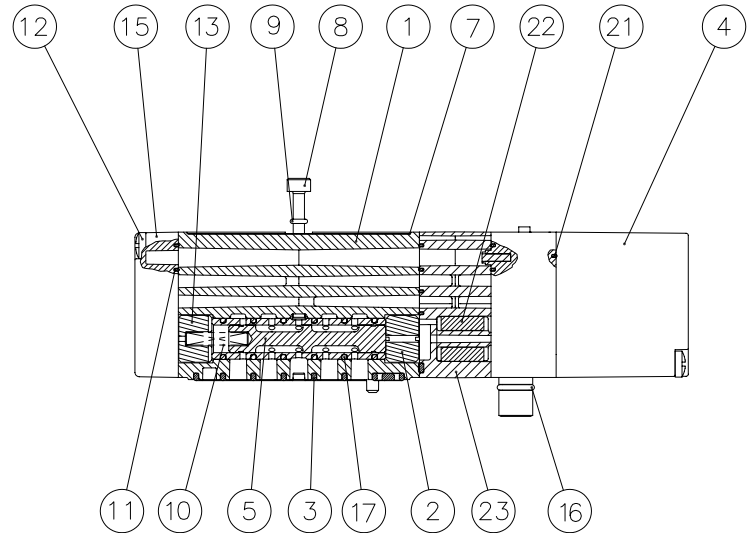
125-1012





### Valve Service Kits and Parts

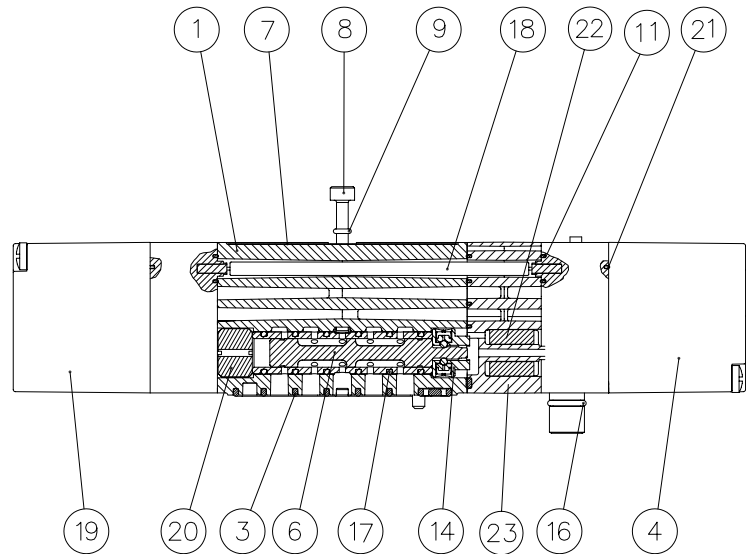
Kit No. I51-K1  
(For Models I51BA4, I52BA4)



| DET NO. | BA4 | BB4 | PART NAME                  | PART NO.         |
|---------|-----|-----|----------------------------|------------------|
| 1       | 1   | 1   | Body (not sold separately) |                  |
| 2 *     | 1   | N/A | Detent Spacer              | 116-516          |
| 3 *     | 1   | 1   | Gasket Body/Manifold       | 113-574          |
| 4       | 1   | 1   | Solenoid Pilot – 14 End    | <i>See p. 11</i> |
| 5       | 1   | N/A | Spool & Sleeve Assembly    | 209-512          |
| 6       | N/A | 1   | Spool & Sleeve Assembly    | 209-634          |
| 7       | 1   | 1   | Nameplate                  | 122-1121         |
| 8       | 2   | 2   | Screw                      | 127-1027         |
| 9 *     | 2   | 2   | O-Ring                     | 126-345          |
| 10 *    | 1   | N/A | Spring                     | 115-273          |
| 11 *    | 3   | 3   | Gasket Adaptor/Body        | 113-573          |
| 12      | 2   | N/A | Screw                      | 127-650          |
| 13 *    | 1   | N/A | Spring Retainer            | 116-517          |
| 14 *    | N/A | 1   | Detent Assembly            | 218-157          |
| 15      | 1   | N/A | Spring Cover               | 104-768          |
| 16 *    | 1   | 1   | O-Ring                     | 126-144          |
| 17 *    | 6   | 6   | O-Ring                     | 126-133          |
| 18      | N/A | 1   | 14 to 12 Conn.             | 230-1139         |
| 19      | N/A | 1   | Solenoid Pilot - 12 End    | <i>See p. 11</i> |
| 20 *    | N/A | 1   | Spacer                     | 116-516          |
| 21      | 1   | 2   | Gasket Adapter             | 113-572          |
| 22      | 1   | 1   | Spacer                     | 116-553          |
| 23      | 1   | 1   | Pilot Adapter Spacer       | 119-798          |

\*Indicates parts included in service kit.

Kit No. I51-K2  
(For Models I51BB4, I52BB4)



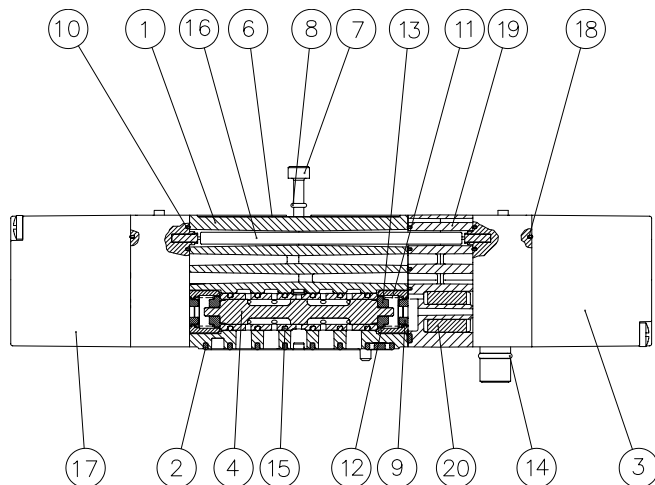


## ISO 15407-2 Series 18 mm

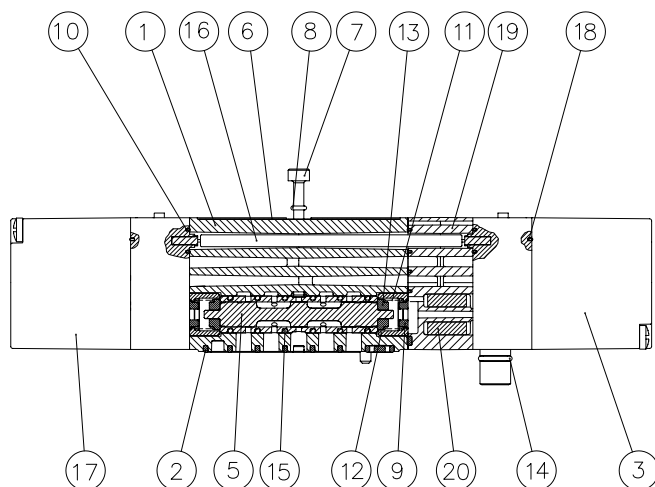
**numatics**

### Valve Service Kits and Parts

Kit No. I51-K3  
(For Models I51BB5, I52BB5)



Kit No. I51-K3  
(For Models I51BB6, I52BB6)



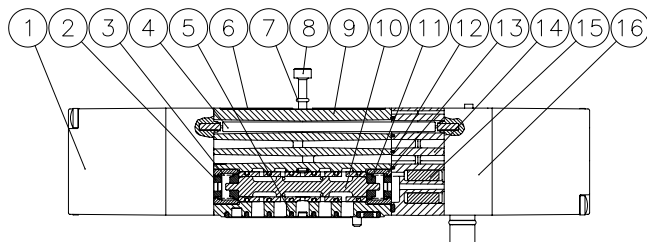
| DET NO. | BB5 | BB6 | PART NAME                  | PART NO.         |
|---------|-----|-----|----------------------------|------------------|
| 1 *     | 1   | 1   | Body (not sold separately) |                  |
| 2       | 1   | 1   | Gasket Body/Manifold       | 113-574          |
| 3       | 1   | 1   | Solenoid Pilot - 14 End    | <i>See p. 11</i> |
| 4       | 1   | N/A | Spool & Sleeve Assembly    | 209-514          |
| 5       | N/A | 1   | Spool & Sleeve Assembly    | 209-515          |
| 6       | 1   | 1   | Nameplate                  | 122-1121         |
| 7       | 2   | 2   | Screw                      | 127-1027         |
| 8 *     | 2   | 2   | O-Ring                     | 126-345          |
| 9 *     | 2   | 2   | Bumper                     | 114-204          |
| 10 *    | 3   | 3   | Gasket Adaptor/Body        | 113-573          |
| 11 *    | 2   | 2   | Spring                     | 115-266          |
| 12 *    | 2   | 2   | Spacer                     | 116-519          |
| 13 *    | 2   | 2   | Spring Retainer            | 116-386          |
| 14 *    | 1   | 1   | O-Ring                     | 126-144          |
| 15 *    | 6   | 6   | O-Ring                     | 126-133          |
| 16      | 1   | 1   | 14 to 12 Conn.             | 230-1139         |
| 17      | 1   | 1   | Solenoid Pilot - 12 End    | <i>See p. 11</i> |
| 18      | 2   | 2   | Gasket Adapter             | 113-572          |
| 19      | 1   | 1   | Pilot Adapter Spacer       | 119-798          |
| 20      | 1   | 1   | Spacer                     | 116-553          |

\* Indicates parts included in service kit.



### Valve Service Kits and Parts

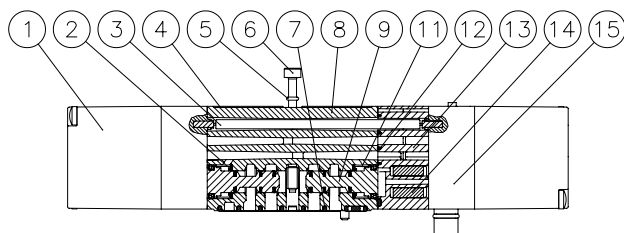
Kit No. I51-K3  
(For Models I51BB7, I52BB7)



| DET NO. | NO. REQ'D | PART NAME                  | PART NO.         |
|---------|-----------|----------------------------|------------------|
| 1       | 1         | Solenoid Pilot - 12 End    | <i>See p. 11</i> |
| 2 *     | 2         | Bumper                     | 114-204          |
| 3 *     | 2         | Spring                     | 115-266          |
| 4       | 1         | 14 to 12 Connector         | 230-1139         |
| 5 *     | 1         | Gasket Body / Manifold     | 113-574          |
| 6       | 1         | Nameplate                  | 122-1121         |
| 7 *     | 2         | O-Ring                     | 126-345          |
| 8       | 2         | Screw                      | 127-1027         |
| 9       | 1         | Body (not sold separately) |                  |
| 10      | 1         | Spool & Sleeve Assembly    | 209-516          |
| 11      | 2         | Spring Retainer            | 116-386          |
| 12 *    | 1         | Gasket                     | 113-573          |
| 13 *    | 2         | Spacer                     | 116-519          |
| 14      | 1         | Pilot Adapter Spacer       | 119-798          |
| 15 *    | 1         | Spacer                     | 116-553          |
| 16      | 1         | Solenoid Pilot - 14 End    | <i>See p. 11</i> |

\* Indicates parts included in service kit.

Kit No. I51-K4  
(For Models I51BBD, I52BBD)



| DET NO. | BBD | PART NAME                  | PART NO.         |
|---------|-----|----------------------------|------------------|
| 1       | 1   | Solenoid Pilot - 12 End    | <i>See p. 11</i> |
| 2 *     | 2   | Bumper                     | 114-205          |
| 3       | 1   | 14 to 12 Connector         | 230-1139         |
| 4       | 1   | Nameplate                  | 122-1121         |
| 5 *     | 2   | O-Ring                     | 126-345          |
| 6       | 2   | Screw                      | 127-1027         |
| 7 *     | 1   | Gasket Body / Manifold     | 113-574          |
| 8       | 1   | Body (not sold separately) |                  |
| 10      | 2   | Spool Assembly with Seals  | 221-186          |
| 11 *    | 2   | Spring                     | 115-395          |
| 12 *    | 1   | Gasket                     | 113-573          |
| 13      | 1   | Pilot Adapter Spacer       | 119-798          |
| 14 *    | 1   | Spacer                     | 116-553          |
| 15      | 1   | Solenoid Pilot - 14 End    | <i>See p. 11</i> |

\* Indicates parts included in service kit.

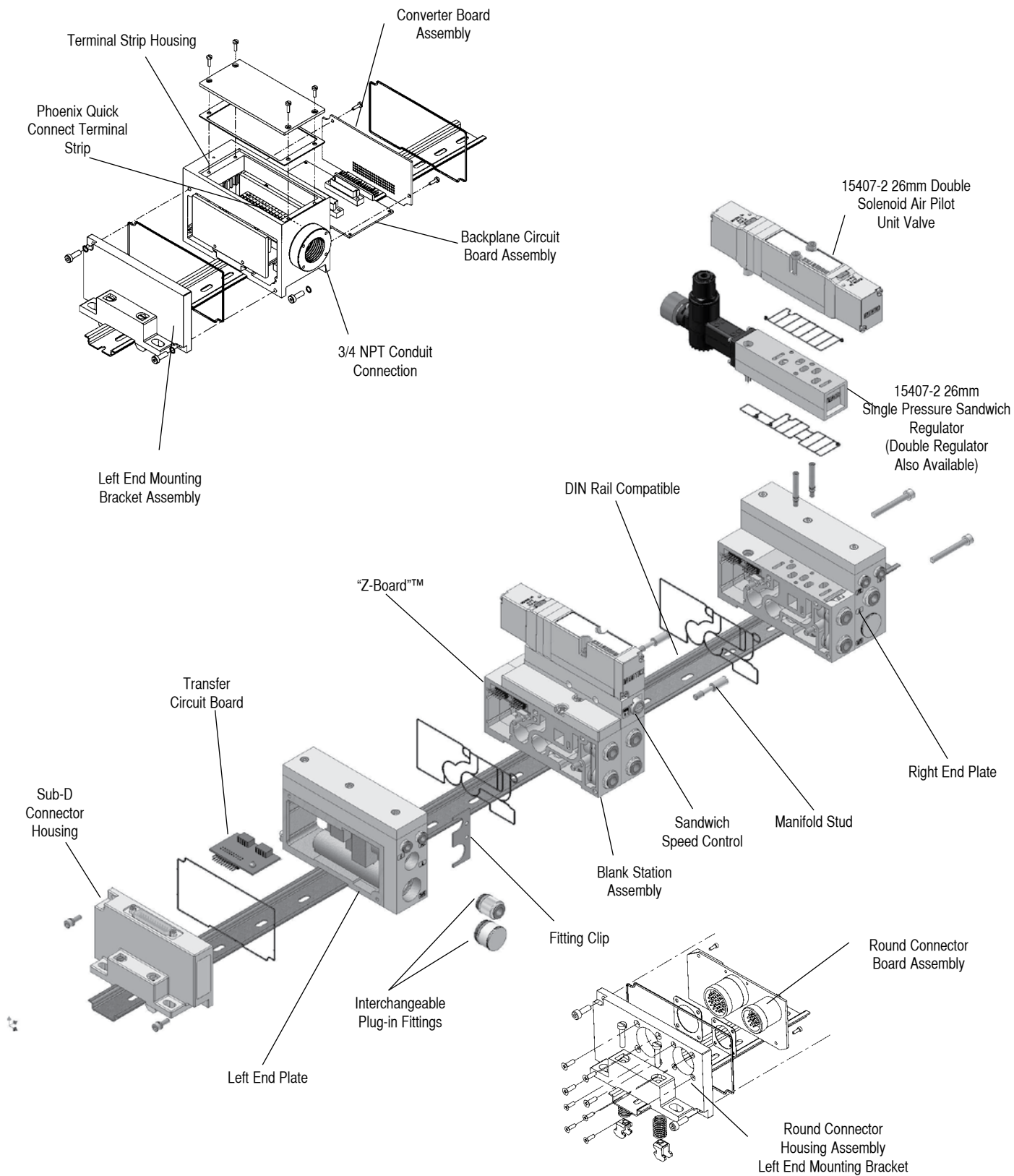




## ISO 15407-2 Series 26 mm

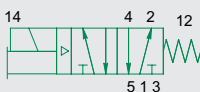
**numatics®**

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

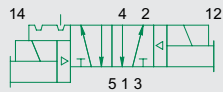




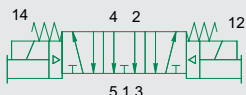
single solenoid air pilot  
2 position 4-way



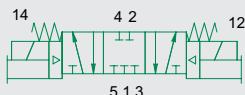
double solenoid air pilot  
2 position 4-way



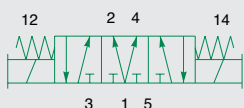
double solenoid air pilot 3 position  
4-way open center



double solenoid air pilot 3 position  
4-way closed center



double solenoid 3 position 4-way,  
open to 4 and 2 in center



### 5 Ported, 2 and 3 position, 4-way, Spool & Sleeve Cv: 1.2

- Solenoid air pilot actuated
- Low wattage plug-in
- 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
- Modular plug-together Fieldbus electronics
- NEMA 4/IP65

## Technical Data - 26mm

| VALVE DATA                  | ENGLISH                                           | METRIC                                         |
|-----------------------------|---------------------------------------------------|------------------------------------------------|
| Cv                          | 1.2                                               | 1.2                                            |
| Flow Capacity               | 56 SCFM @ 80 PSIG upstream pressure to atmosphere | 1180 NI/m @ 6 bar upstream to 5 bar downstream |
| Operating Pressure Range    | 28"Hg Vacuum to 150 PSIG                          | Vacuum to 10 bar                               |
| Pilot Pressure Range        | 26 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   | 0.05                    |

| RESPONSE TIME IN SECONDS          | ENERGIZE | DE-ENERGIZE | ENERGIZE | DE-ENERGIZE |
|-----------------------------------|----------|-------------|----------|-------------|
| 2-Position, Single, Spring Return | 0.010    | 0.020       | 0.010    | 0.020       |
| 2-Position, Double, Detented      | 0.010    | N/A         | 0.010    | N/A         |
| 3-Position, Spring Centered       | 0.010    | 0.020       | 0.010    | 0.020       |



## ISO 15407-2 Series 26 mm

**numatics®**

### How to Order 15407-2 26 mm

#### Valves

**I62 BB 4 Z6 M L 000 61**

##### Valve Series and Port Size

I62\* = 1/4

I63 = 3/8

I6H = 8mm

I6K = 10mm

\*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

##### Function

4 = 2 Position, 4-Way

5 = 3 Position, 4-Way Open Center

6 = 3 Position, 4-Way Closed Center

7 = 3 Position, 4-Way, Open to 4 and 2  
in Center

P = Blank Station Plate

##### Mounting

00 = Valve Unit only

01 = 00 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

3A = Individual Base, Side Ports, Individual Exhaust

##### Voltage

20 = 24/50-60 VAC

30 = 110-120/50-60 VAC

60 = 12 VDC

61 = 24 VDC

00 = Blank Station

##### Options

000 = Standard

11M = No Override

11B = Flush Locking Override

56Y = 12 mm Electrical

Connector in Conduit Port of  
Base Mounting Only  
(See Below)

##### Port Type

L = Push-in Fitting

N = NPTF

G = G tap ISO228/I-G

0 = Valve Unit Only

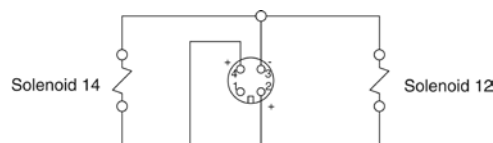
##### Wiring Option

K = Plug-in AC w/Light

M = Plug-in DC w/Light

0 = Blank Station

4 Pin 12mm (Micro) Connector  
56Y (Mounting)



#### Regulators

**I62 RS 3 Z1 J L 000 00**

##### Valve Series & Port Size

I62\* = 1/4

I63 = 3/8

I6H = 8mm

I6K = 10mm

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

##### Regulator Type

RS = Single Pressure to Port 1

RD = Dual Pressure to Ports 3 & 5

RC = Dual Pressure w/Non-Relieving Checks

RQ = Dual Pressure w/Relieving Checks

RE = Dual Pressure to Ports 4 & 2

RT = 2 Pressure Selector

##### 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)

##### Mounting

00 = Regulator Unit only

Z0 = Manifold Block w/Side and Bottom Ports,  
Transfer Board w/ISO 15407-2 Interface, Used w/RE Regulators  
RE only (no Z-board)

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

##### Options

12H = Less Gauge

16N = Jumper on 14 End

16P = Jumper on 12 End

16W = Top Facing Gauge

##### Port Type

L = Push-in

N = NPTF

G = G Tap ISO228/I-G

0 = Regulator Unit Only

##### Wiring Option

J = Plug-in Receptacle Ass'y

0 = Non-Plug-in (Type RE only)



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

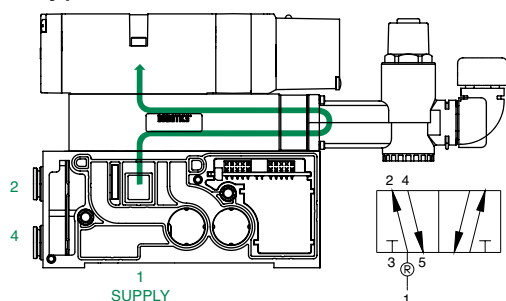
When ordering a valve plus regulator mounted on a base or manifold, list the valve unit only model number and include the mounting requirements with the regulator. Specify "Assembled."

Example orders: Type RS                      Type RD

Valve unit only: I62BA400M000061                      I62BB500M000061

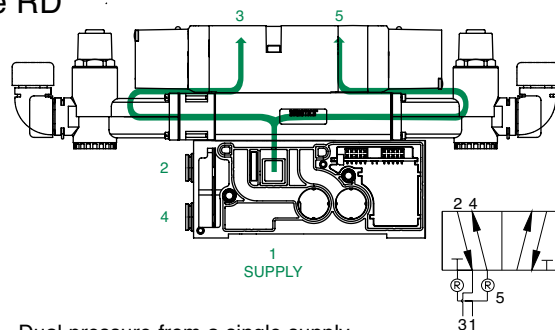
Regulator                      I62RS1Z1JN00000                      I62RD1Z2JN00000  
+mounting                      ASSEMBLED                      ASSEMBLED

#### Type RS



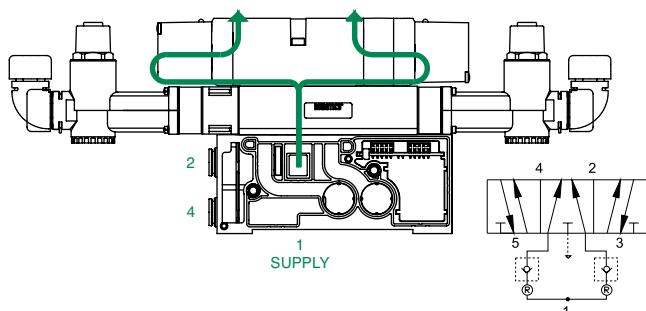
Single pressure from a single supply.

#### Type RD



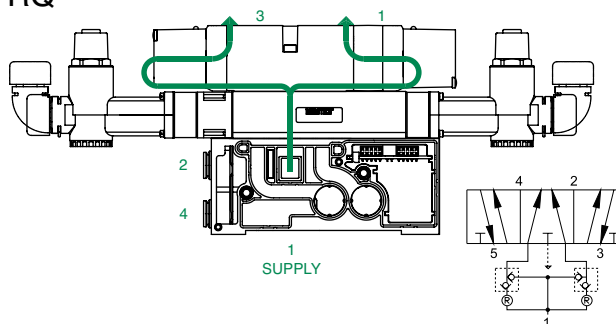
Dual pressure from a single supply.

#### Type RC



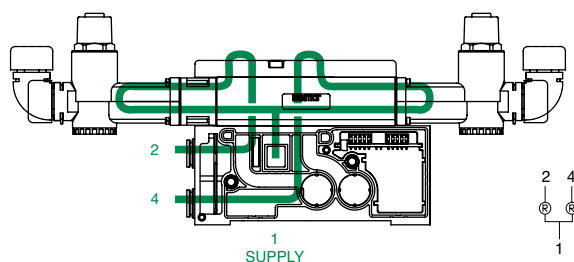
Type RC is Non-Relieving:  
traps downstream pressure if upstream pressure is exhausted.

#### Type RQ



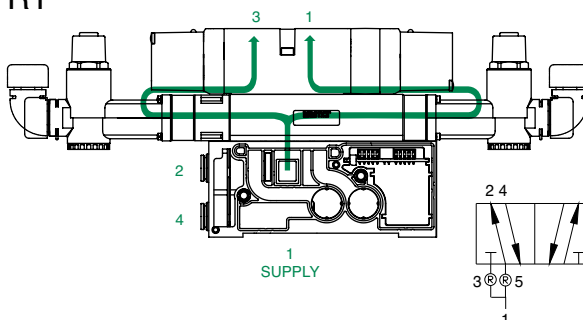
Type RQ is Relieving:  
exhausts pressure in cylinder if upstream pressure is exhausted.

#### Type RE



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

#### Type RT



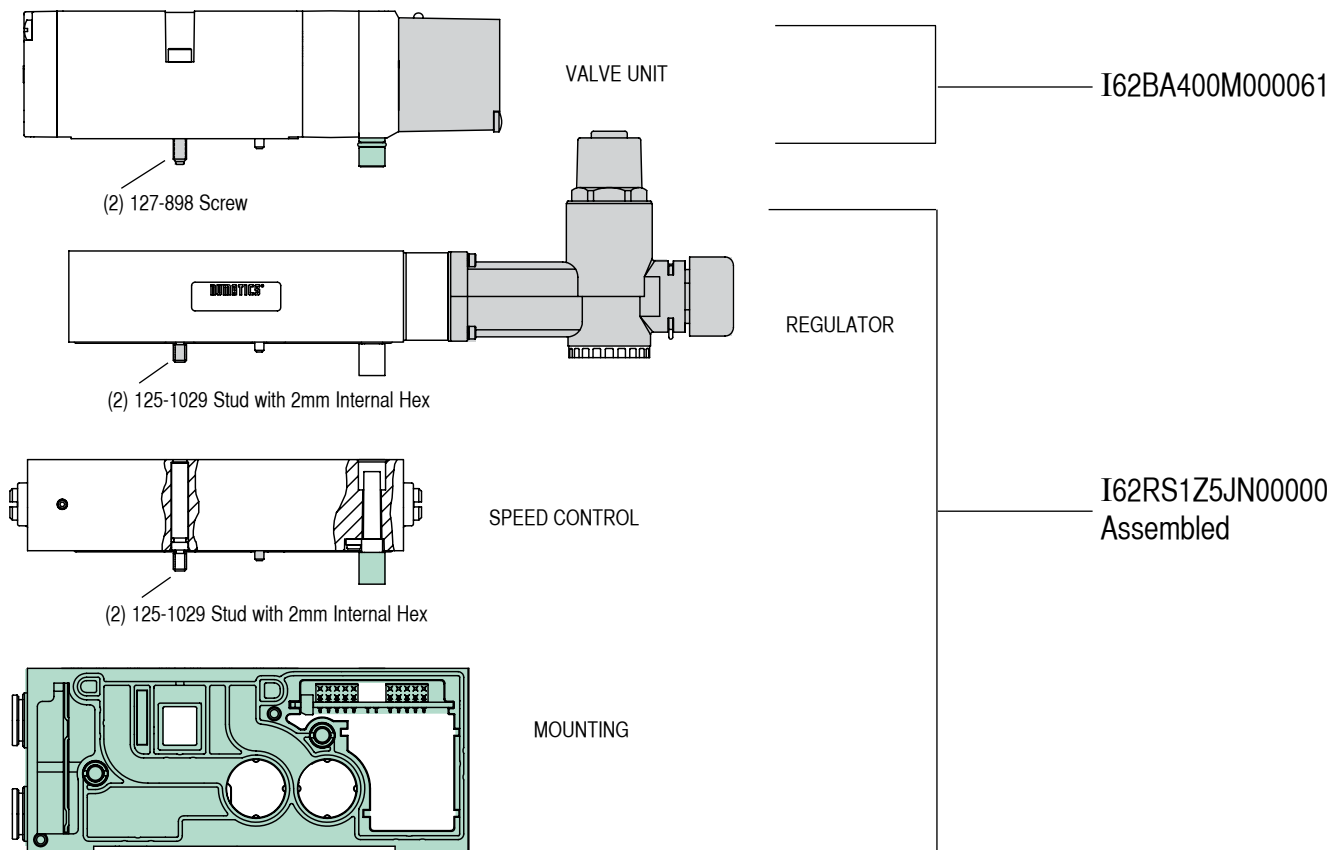
Two-pressure selector used for multi-pressure applications.



## ISO 15407-2 Series 26 mm

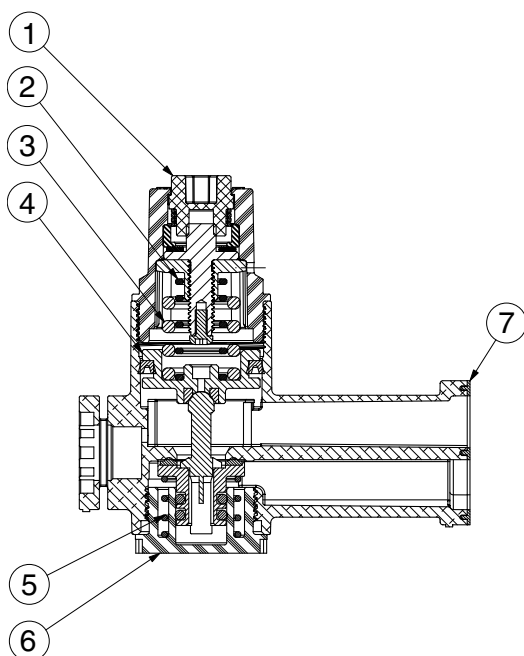
**numatics®**

### Valve Regulator / Speed Control Plug-in Assembly



### Regulator Kits and Service Parts Regulator Service Kit

239-1393



### Regulator Unit Kits

(includes regulator assembly, gaskets, screws)

| PSIG        | PART NO. |
|-------------|----------|
| 3-30 PSIG   | 239-1909 |
| 5-60 PSIG   | 239-1910 |
| 10-130 PSIG | 239-1911 |

### Bonnet Springs

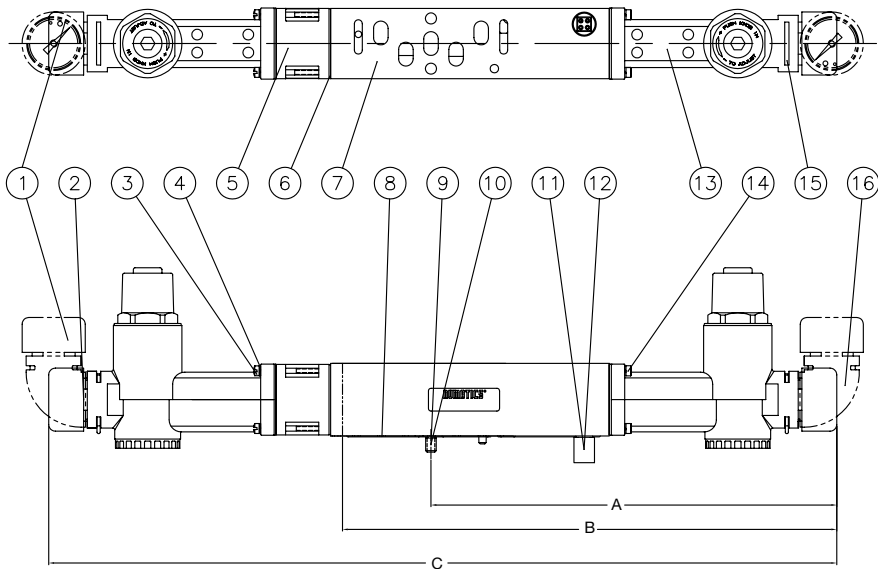
| PSIG         | PART NO. |
|--------------|----------|
| 3-30 PSIG    | 115-423  |
| 5-60 PSIG    | 115-425  |
| 10-130 PSIG* | 115-423  |
|              | 115-424  |

\* = Both Springs Required

| DET. NO. | NO. REQ'D | PART NAME       |
|----------|-----------|-----------------|
| 1        | 1         | Bonnet          |
| 2        | 1         | Spring          |
| 3        | 1         | Spring          |
| 4        | 1         | Piston Assembly |
| 5        | 1         | Spring          |
| 6        | 1         | Cap             |
| 7        | 1         | Gasket          |



### Sandwich Pressure Regulator



### Dimensions

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

| A               | B               | C                | D              | E              | F             | G              |
|-----------------|-----------------|------------------|----------------|----------------|---------------|----------------|
| 6.15<br>(156.1) | 7.60<br>(193.1) | 11.13<br>(282.8) | 2.73<br>(69.3) | 1.20<br>(30.4) | .52<br>(13.3) | 1.05<br>(26.6) |



### Gauge Kit

| 160 PSI | 11 BAR MAX. | 60 PSI  | 4 BAR MAX. |
|---------|-------------|---------|------------|
| 214-214 | 214-215     | 214-219 | 214-220    |

### Elbow Kit

Gauge Adaptor Kit 1/8 NPTF

239-1217

239-1561

### Parts List

| DET. NO. | NO. REQ'D | PART NAME          | PART NO.  |
|----------|-----------|--------------------|-----------|
| 1        | 2**       | Gauge 160 PSI max. | 214-212   |
| 1        | 2**       | Gauge 11 bar max.  | 214-213   |
| 1        | 2**       | Gauge 60 PSI max.  | 214-217   |
| 1        | 2**       | Gauge 4 bar max.   | 214-218   |
| 2        | 2**       | O-Ring             | 126-105   |
| 3        | 4*        | Screw              | 127-280   |
| 4        | 8****     | Lockwasher         | 128-172   |
| 5        | 1*        | "12" End Adapter   | 119-796   |
| 6        | 3***      | Gasket             | 113-535   |
| 7        | 1         | Single Riser Block | 125-1146  |
| 7        | 1         | Double Riser Block | 125-1169  |
| 8        | 1         | Gasket             | 113-640   |
| 9        | 2         | Stud               | 125-812   |
| 10       | 2         | O-Ring             | 126-528   |
| 11       | 1         | J-Plug Assembly    | 230-904   |
| 12       | 1         | Screw              | 127-318   |
| 13       | 2**       | Regulator          | See p. 24 |
| 14       | 4         | Screw              | 127-959   |
| 15       | 2**       | Pin                | 131-236   |
| 16       | 2**       | Elbow              | 134-505   |

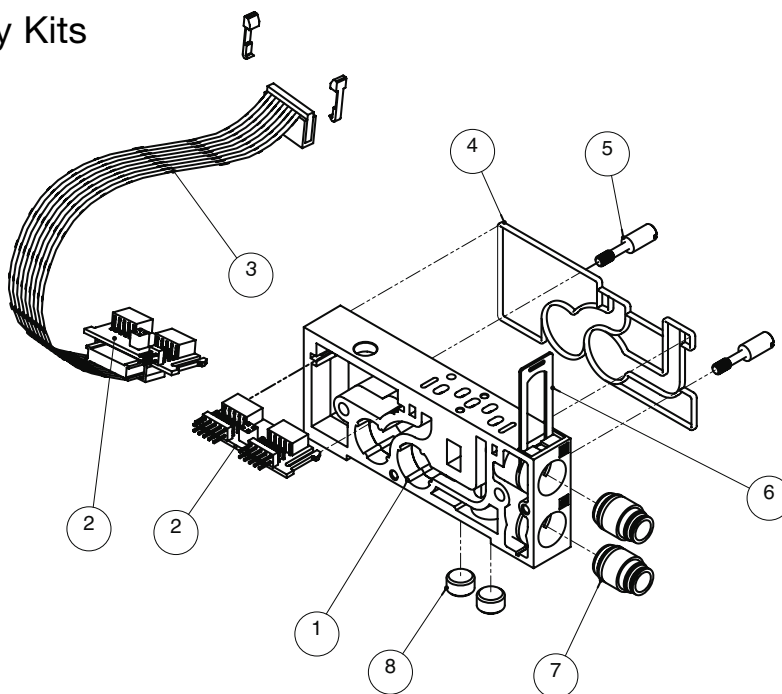
\* (0) Required for RS  
\*\* (1) Required for RS  
\*\*\* (2) Required for RS  
\*\*\*\* (4) Required for RS



## ISO 15407-2 Series 26 mm

**numatics®**

### Manifold Assembly Kits



#### Component List

| DET. NO. | NO. REQ'D | PART NAME             | PART NO.                   |
|----------|-----------|-----------------------|----------------------------|
| 1        | 1         | Manifold Block        | <i>Not sold separately</i> |
| 2        | 1         | "Z-Board"™            | <i>Not sold separately</i> |
| 3        | 1         | Ribbon Cable Assembly | 230-905                    |
| 4        | 1         | Gasket                | 113-537                    |
| 5        | 2         | Stud                  | 125-813                    |
| 6        | 1         | Retaining Clip        | 125-751                    |
| 7        | 2         | Push-in Fitting       | <i>See p.31</i>            |
| 8        | 2         | Pipe Plug 1/4 NPTF    | 129-101                    |
| 8        | 2         | Pipe Plug 1/4 G       | 129-161                    |



#### MANIFOLD ASSEMBLY KITS - 26 mm

| Side Port                        | 1/4 NPTF | 3/8 NPTF | ISO228-G 1/4 | ISO228-G 3/8 | 1/4 Push-in |
|----------------------------------|----------|----------|--------------|--------------|-------------|
| Bottom Port                      | 1/4 NPTF | 1/4 NPTF | ISO228-G 1/4 | ISO228-G 1/4 | 1/4 NPTF    |
| Single "Z-Board"™                | 206-1665 | 206-1668 | 206-1669     | 206-1672     | 206-1679    |
| Double "Z-Board"™                | 206-1666 | 206-1667 | 206-1670     | 206-1671     | 206-1680    |
| Single "Z-Board"™ w/Ribbon Cable | 206-1687 | 206-1686 | 206-1683     | 206-1681     | 206-1695    |
| Double "Z-Board"™ w/Ribbon Cable | 206-1688 | 206-1685 | 206-1684     | 206-1682     | 206-1696    |
| Passive                          | 206-1700 | 206-1699 | 206-1698     | 206-1697     | 206-1704    |

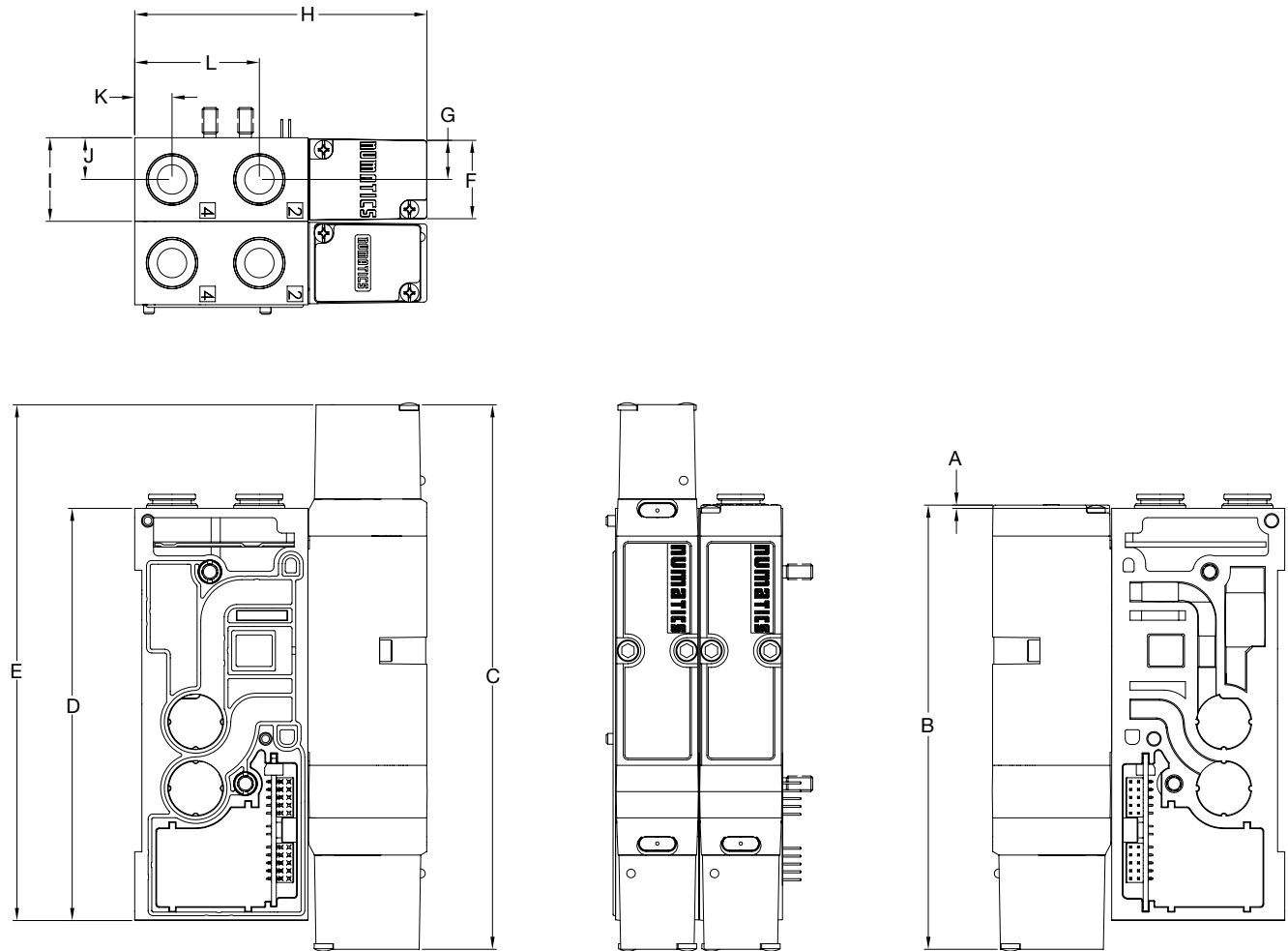
#### MANIFOLD ASSEMBLY KITS - 26 mm continued

| Side Port                        | 3/8 Push-in | 8 mm Push-in | 10 mm Push-in |
|----------------------------------|-------------|--------------|---------------|
| Bottom Port                      | 1/4 NPTF    | ISO228-G 1/4 | ISO228-G 1/4  |
| Single "Z-Board"™                | 206-1677    | 206-1673     | 206-1675      |
| Double "Z-Board"™                | 206-1678    | 206-1674     | 206-1676      |
| Single "Z-Board"™ w/Ribbon Cable | 206-1693    | 206-1689     | 206-1691      |
| Double "Z-Board"™ w/Ribbon Cable | 206-1694    | 206-1690     | 206-1692      |
| Passive                          | 206-1703    | 206-1701     | 206-1702      |





### Valve on Manifold Block



### Dimensions

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

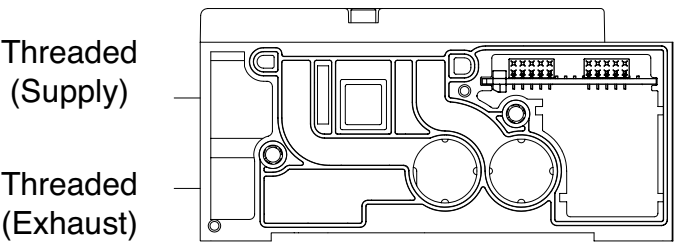
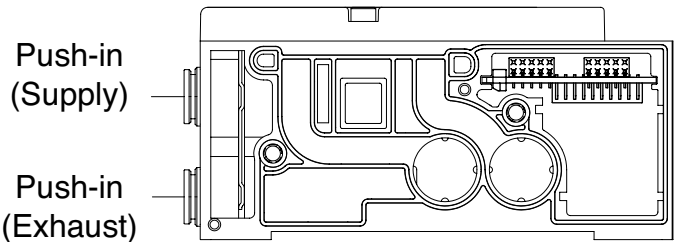
| A             | B               | C               | D               | E               | F              | G              | H              | I              | J              | K              | L              |
|---------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 0.04<br>(1.1) | 5.65<br>(143.6) | 6.93<br>(176.1) | 5.24<br>(133.0) | 6.56<br>(166.5) | 1.04<br>(26.3) | 0.52<br>(13.2) | 3.72<br>(94.5) | 1.07<br>(27.1) | 0.54<br>(13.6) | 0.48<br>(12.1) | 1.59<br>(40.3) |



ISO 15407-2 Series  
26 mm

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Mid-Station Supply and Exhaust Block

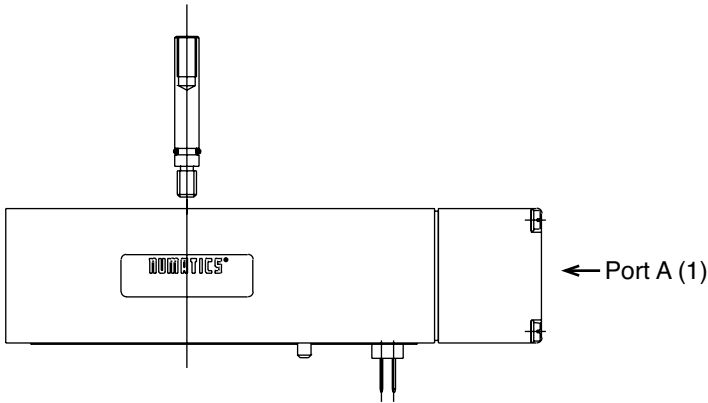


Mid-Station Supply & Exhaust Block Kits

|              | PART NO. |
|--------------|----------|
| NPTF 1/4     | 245-135  |
| NPTF 3/8     | 245-134  |
| G 1/4        | 245-137  |
| G 3/8        | 245-136  |
| 3/8 Push-in  | 245-138  |
| 10mm Push-in | 245-139  |



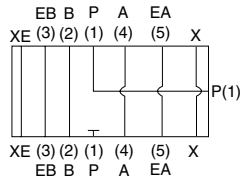
## Sandwich Pressure Block



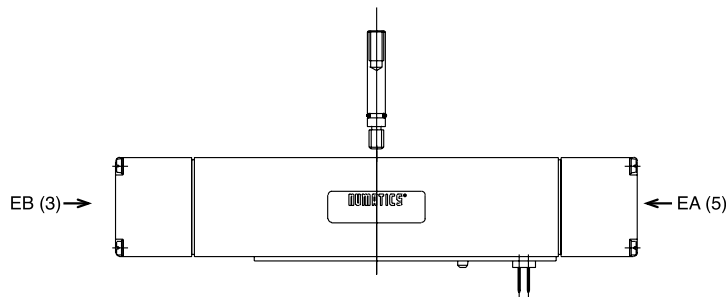
- Used to supply a separate pressure to a single valve station without needing blocking disks.

### Sandwich Pressure Block Kit

| PORT TYPE | PART NO. |
|-----------|----------|
| NPTF 1/4  | 245-141  |



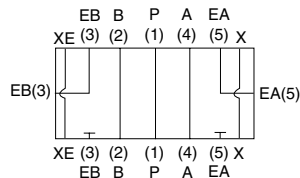
## Sandwich Exhaust Block



- 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 1/4  | 245-140  |

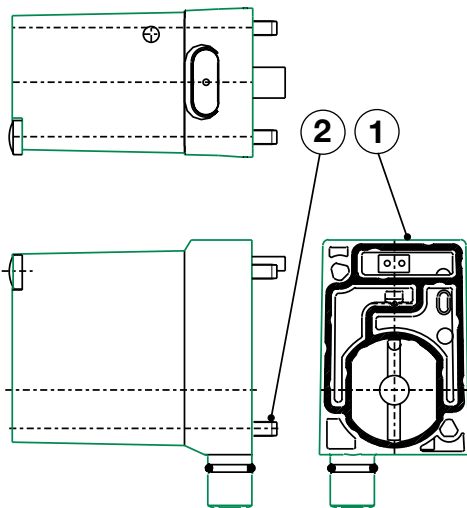




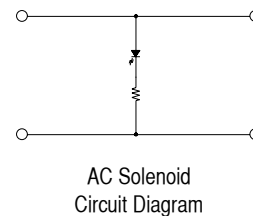
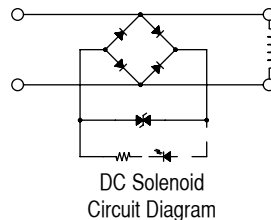
## ISO 15407-2 Series 26 mm

**numatics**

### Solenoid Pilot Assembly



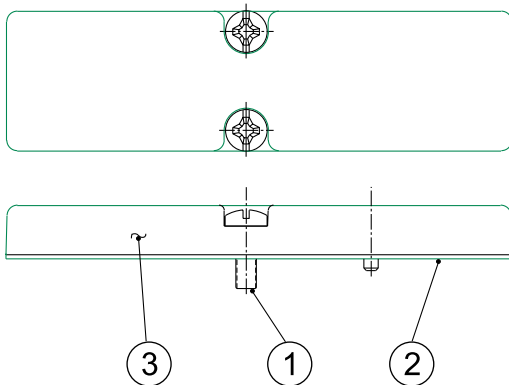
| DESCRIPTION                       | 12 VDC  | 24 VDC  | 24 VAC   | 120 VAC  |
|-----------------------------------|---------|---------|----------|----------|
| 14 end, push non-locking override | 236-579 | 236-576 | 237-1189 | 237-1186 |
| 12 end, push non-locking override | 236-418 | 236-357 | 237-1071 | 237-1080 |
| 14 end, turn & lock override      | 236-580 | 236-577 | 237-1190 | 237-1187 |
| 12 end, turn & lock override      | 236-421 | 236-360 | 237-1074 | 237-1083 |
| 14 end, no override               | 236-581 | 236-578 | 237-1191 | 237-1188 |
| 12 end, no override               | 236-424 | 236-363 | 237-1077 | 237-1086 |



| DET. NO. | NO. REQ'D | PART NAME        | PART NO. |
|----------|-----------|------------------|----------|
| 1        | 1         | Gasket           | 113-373  |
| 2        | 2         | Screw ('12' End) | 127-823  |
| 2        | 2         | Screw ('14' End) | 127-1024 |

### Blank Station Plate Kit

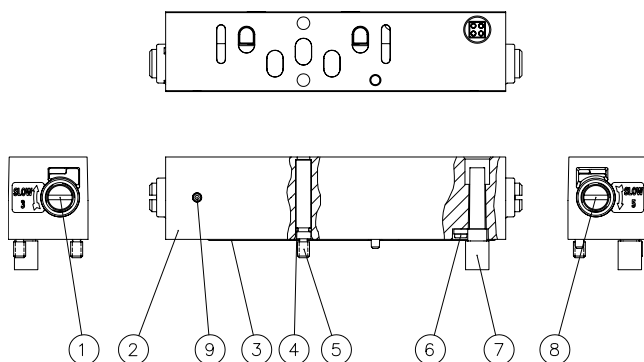
239-2497



| DET. NO. | NO. REQ'D | PART NAME           | PART NO. |
|----------|-----------|---------------------|----------|
| 1        | 2         | Screw               | 127-876  |
| 2        | 1         | Gasket              | 113-640  |
| 3        | 1         | Blank Station Plate | 104-841  |

### Speed Control Kit

239-2521



| DET. NO.  | NO. REQ'D. | PART NAME          | PART NO. |
|-----------|------------|--------------------|----------|
| 1         | 1          | Metering Screw     | 118-178  |
| Not Shown | 2          | Nylon Rod          | 125-131  |
| 2         | 1          | Speed Control Body | 119-795  |
| 3         | 1          | Gasket             | 113-640  |
| 4         | 2          | O-Ring             | 126-528  |
| 5         | 2          | Stud               | 125-812  |
| 6         | 1          | Screw              | 127-318  |
| 7         | 1          | Plug Assembly      | 230-904  |
| 8         | 1          | Metering Screw     | 118-204  |
| 9         | 2          | Set Screw          | 127-686  |



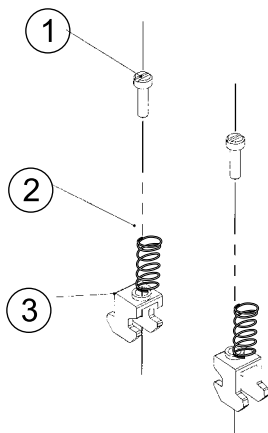
### Interchangeable Push-in Cartridge Fittings



| PORTS   | SIZE | TYPE       | PART NO. |
|---------|------|------------|----------|
| 1, 2, 4 | 1/4" | Push-in    | 134-506  |
| 1, 2, 4 | 3/8" | Push-in    | 134-508  |
| 1, 2, 4 | 8mm  | Push-in    | 134-507  |
| 1, 2, 4 | 10mm | Push-in    | 134-509  |
| 1, 2, 4 | N/A  | Plug Ass'y | 239-1190 |
| 3/5     | 3/8" | Push-in    | 134-510  |
| 3/5     | 1/2" | Push-in    | 134-512  |
| 3/5     | 12mm | Push-in    | 134-511  |
| 3/5     | 14mm | Push-in    | 134-513  |
| 3/5     | N/A  | Plug Ass'y | 239-1191 |
| X, XE   | 4mm  | Push-in    | 134-498  |
| X, XE   | 6mm  | Push-in    | 134-499  |
| X, XE   | 1/4" | Push-in    | 134-518  |
| X, XE   | N/A  | Plug Ass'y | 239-1086 |

### DIN Rail Clamp Kit

239-980



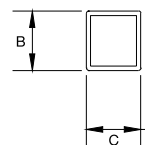
| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|----------|-----------|-----------|----------|
| 1        | 4         | Screw     | 127-472  |
| 2        | 4         | Spring    | 115-355  |
| 3        | 4         | Clamp     | 125-720  |

### Blocking Discs

Port 3/5



Port 1



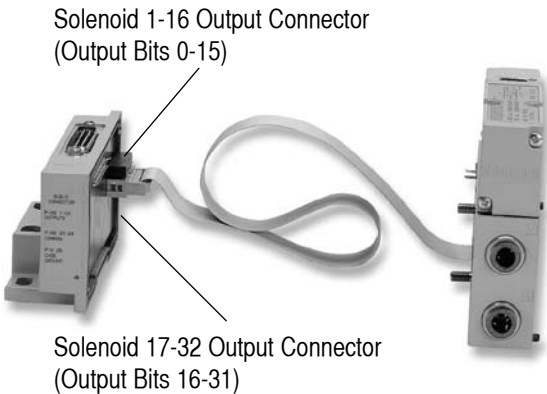
| PORT | PART NO. | A              | B              | C              |
|------|----------|----------------|----------------|----------------|
| 1    | 124-341  | N/A            | 0.54<br>(13.7) | 0.50<br>(12.6) |
| 3/5  | 239-907  | 0.70<br>(17.8) | N/A            | N/A            |



## ISO 15407-2 Series 26 mm

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### Ribbon Cable Assembly Kit 239-1336



| NO.<br>REQ'D. | PART NAME                         | PART NO. |
|---------------|-----------------------------------|----------|
| 1             | Replacement Ribbon Cable Assembly | 230-905  |
| 2             | Replacement Snap In Latch         | 140-721  |

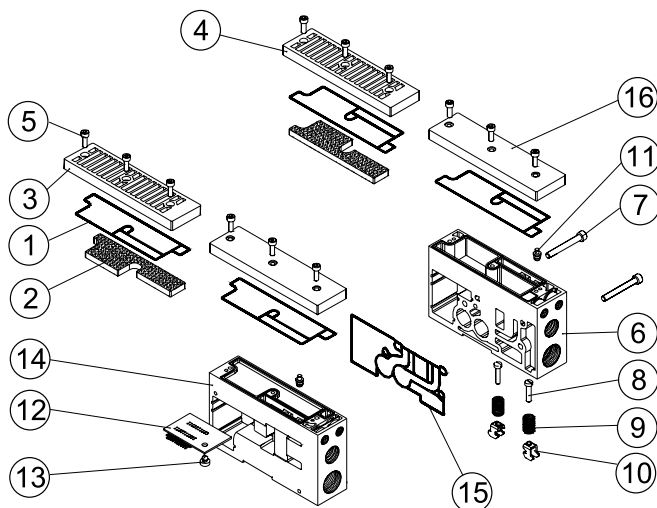
Ribbon cable option used for manifold assemblies that exceed 16 solenoid outputs.



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

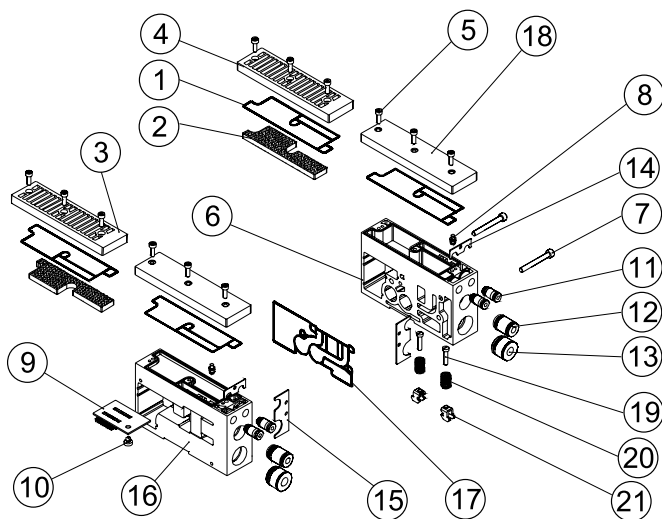


### End Plate Kit - Threaded



| DET NO. | NO. REQ'D | PART NAME                           | PART NO. |
|---------|-----------|-------------------------------------|----------|
| 1       | 2         | Cover Gasket                        | 113-536  |
| 2       | 2         | Muffler (Optional)                  | 125-851  |
| 3       | 1         | LH Endplate Cover Vented (Optional) | 005-193  |
| 4       | 1         | RH Endplate Cover Vented (Optional) | 005-194  |
| 5       | 6         | Screw                               | 127-368  |
| 6       | 1         | RH Endplate                         | 104-713  |
| 7       | 2         | Screw                               | 127-413  |
| 8       | 2         | Screw (DIN Rail Only)               | 127-472  |
| 9       | 2         | Spring (DIN Rail Only)              | 115-355  |
| 10      | 2         | Clamp (DIN Rail Only)               | 125-720  |
| 11      | 2         | Pilot Plug Ass'y                    | 213-497  |
| 12      | 1         | Transfer Conn. Board Ass'y          | 256-938  |
| 13      | 1         | Retention Pin                       | 125-845  |
| 14      | 1         | LH Endplate                         | 104-710  |
| 15      | 1         | Gasket                              | 113-537  |
| 16      | 2         | End Plate Cover                     | 105-400  |

### End Plate Kit - Push-in



| DET NO. | NO. REQ'D | PART NAME                           | PART NO.  |
|---------|-----------|-------------------------------------|-----------|
| 1       | 2         | Cover Gasket                        | 113-536   |
| 2       | 2         | Muffler (Optional)                  | 125-851   |
| 3       | 1         | LH Endplate Cover Vented (Optional) | 005-193   |
| 4       | 1         | RH Endplate Cover Vented (Optional) | 005-194   |
| 5       | 6         | Screw                               | 127-368   |
| 6       | 1         | RH Endplate                         | 104-712   |
| 7       | 2         | Screw                               | 127-413   |
| 8       | 2         | Pilot Plug Ass'y                    | 213-497   |
| 9       | 1         | Transfer Conn. Board Ass'y          | 256-938   |
| 10      | 1         | Retention Pin                       | 125-845   |
| 11      | 4         | Push-in Fittings                    | See p. 31 |
| 12      | 2         | Push-in Fittings                    | See p. 31 |
| 13      | 2         | Push-in Fittings                    | See p. 31 |
| 14      | 2         | Retaining Clip (Small)              | 125-814   |
| 15      | 2         | Retaining Clip (Large)              | 125-815   |
| 16      | 1         | LH Endplate (NPTF)                  | 104-709   |
| 17      | 1         | Gasket                              | 113-537   |
| 18      | 2         | End Plate Cover                     | 105-400   |
| 19      | 2         | Screw (DIN Rail Only)               | 127-472   |
| 20      | 2         | Spring (DIN Rail Only)              | 115-355   |
| 21      | 2         | Clamp (DIN Rail Only)               | 125-720   |

| PORT TYPE                     | NPTF     |     |       | ISO228/1-G |     |       | PUSH-IN  |     |       | PUSH-IN  |     |       | 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 | 1        | 3/5  | X, XE | 1        | 3/5  | X, XE |
| PORT SIZE                     | 3/8      | 1/2 | 1/8   | 3/8        | 1/2 | 1/8   | 1/4      | 3/8 | 1/4   | 3/8      | 1/2 | 1/4   | 8mm      | 12mm | 6mm   | 10mm     | 14mm | 6mm   |
| Kit w/o muffler, w/o DIN Rail | 239-2398 |     |       | 239-2402   |     |       | 239-2409 |     |       | 239-2410 |     |       | 239-2417 |      |       | 239-2418 |      |       |
| Kit w/o muffler, w/ DIN Rail  | 239-2397 |     |       | 239-2401   |     |       | 239-2407 |     |       | 239-2408 |     |       | 239-2415 |      |       | 239-2416 |      |       |
| Kit w/ muffler, w/o DIN Rail  | 239-2396 |     |       | 239-2400   |     |       | 239-2405 |     |       | 239-2406 |     |       | 239-2413 |      |       | 239-2414 |      |       |
| Kit w/ muffler, w/ DIN Rail   | 239-2395 |     |       | 239-2399   |     |       | 239-2403 |     |       | 239-2404 |     |       | 239-2411 |      |       | 239-2412 |      |       |

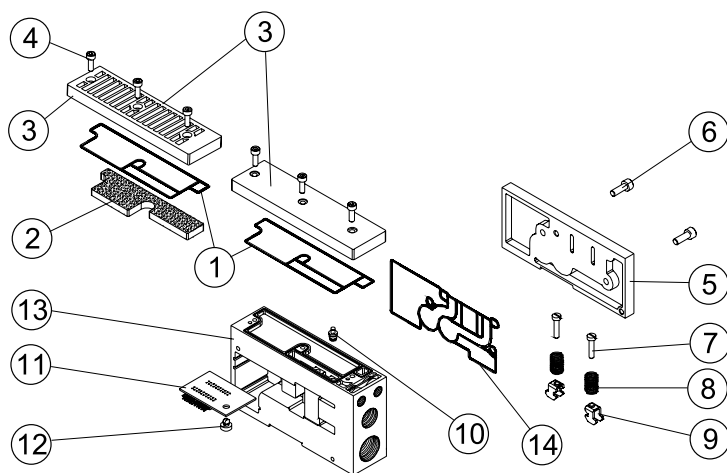




## ISO 15407-2 Series 26 mm

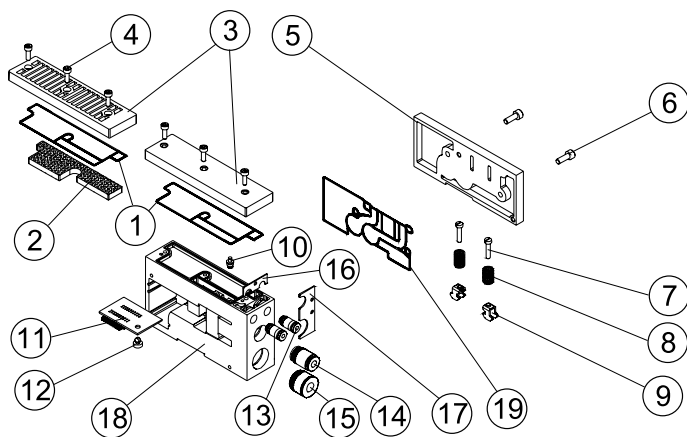
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### End Plate Kit with LH Ports Only - Threaded



| DET NO. | NO. REQ'D | PART NAME                          | PART NO. |
|---------|-----------|------------------------------------|----------|
| 1       | 1         | Gasket                             | 113-536  |
| 2       | 1         | Muffler (Optional)                 | 125-851  |
| 3       | 1         | LH Endplate Cover (Muffler Option) | 005-193  |
| 3       | 1         | LH Endplate Cover                  | 105-400  |
| 4       | 3         | Screw                              | 127-368  |
| 5       | 1         | RH Portless Endplate               | 105-423  |
| 6       | 2         | Screw                              | 127-407  |
| 7       | 2         | Screw (DIN Rail Only)              | 127-472  |
| 8       | 4         | Spring (DIN Rail Only)             | 115-355  |
| 9       | 4         | Clamp (DIN Rail Only)              | 125-720  |
| 10      | 1         | Pilot Plug Ass'y                   | 213-497  |
| 11      | 1         | Transfer Conn. Board Ass'y         | 256-938  |
| 12      | 1         | Retention Pin                      | 125-845  |
| 13      | 1         | LH Endplate (NPTF)                 | 104-710  |
| 13      | 1         | LH Endplate (G)                    | 104-711  |
| 14      | 1         | Gasket                             | 113-537  |

### End Plate Kit with LH Ports Only - Push-in

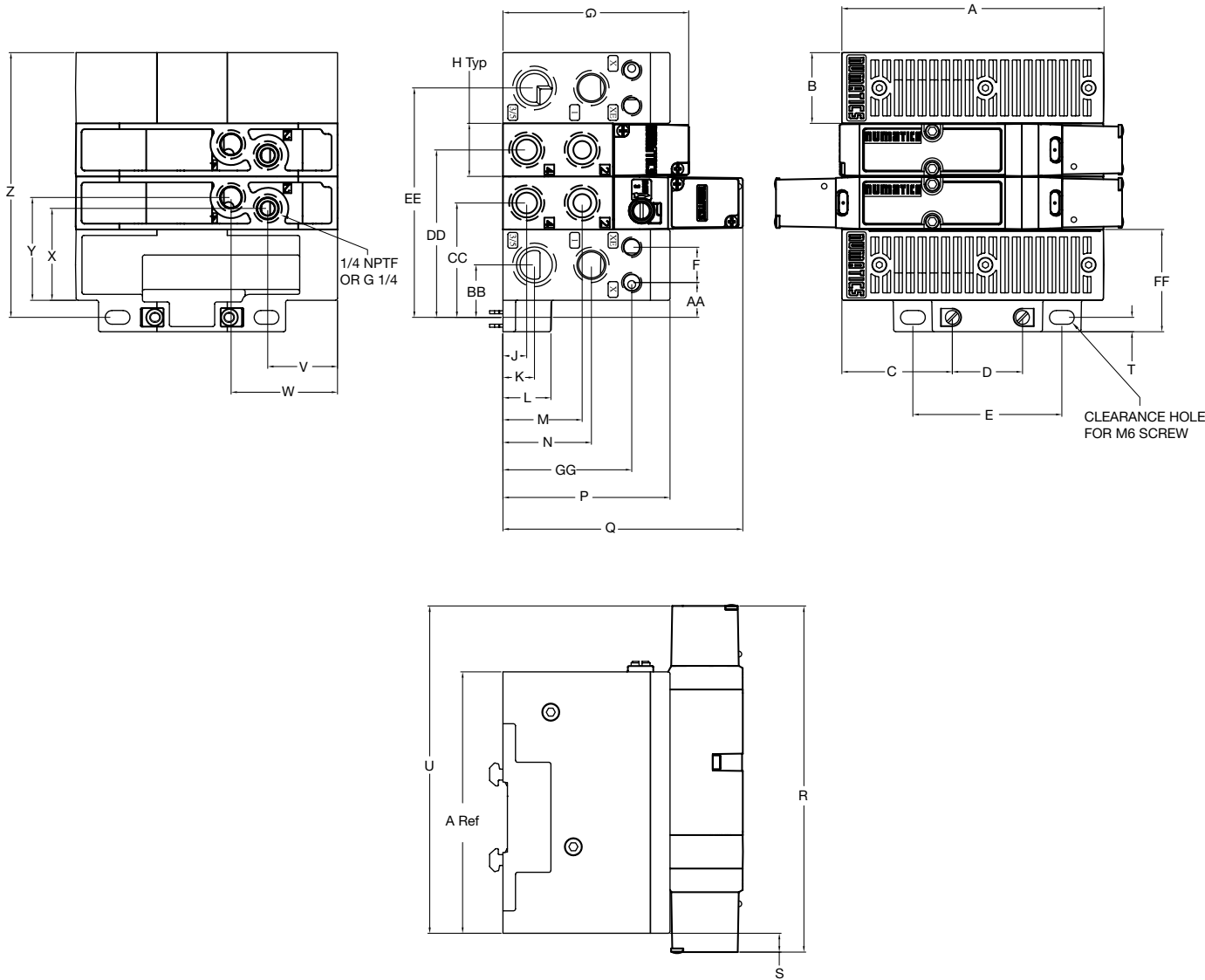


| DET NO. | NO. REQ'D | PART NAME                          | PART NO.  |
|---------|-----------|------------------------------------|-----------|
| 1       | 1         | Gasket                             | 113-536   |
| 2       | 1         | Muffler (Optional)                 | 125-851   |
| 3       | 1         | LH Endplate Cover (Muffler Option) | 005-193   |
| 3       | 1         | LH Endplate Cover                  | 105-400   |
| 4       | 3         | Screw                              | 127-368   |
| 5       | 1         | RH Portless Endplate               | 105-423   |
| 6       | 2         | Screw                              | 127-407   |
| 7       | 2         | Screw (DIN Rail Only)              | 127-472   |
| 8       | 4         | Spring (DIN Rail Only)             | 115-355   |
| 9       | 4         | Clamp (DIN Rail Only)              | 125-720   |
| 10      | 1         | Pilot Plug Ass'y                   | 213-497   |
| 11      | 1         | Transfer Conn. Board Ass'y         | 256-938   |
| 12      | 1         | Retention Pin                      | 125-845   |
| 13      | 2         | Push-in Fittings                   | See p. 31 |
| 14      | 1         | Push-in Fittings                   | See p. 31 |
| 15      | 1         | Push-in Fittings                   | See p. 31 |
| 16      | 1         | Retaining Clip (Small)             | 125-814   |
| 17      | 1         | Retaining Clip (Large)             | 125-815   |
| 18      | 1         | LH Endplate (NPTF)                 | 104-709   |
| 19      | 1         | Gasket                             | 113-537   |

| PORT TYPE                                   | NPTF     |     |       | ISO228/1-G |     |       | PUSH-IN  |     |       | PUSH-IN  |     |       | 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 | 1        | 3/5  | X, XE | 1        | 3/5  | X, XE |
| PORT SIZE                                   | 3/8      | 1/2 | 1/8   | 3/8        | 1/2 | 1/8   | 1/4      | 3/8 | 1/4   | 3/8      | 1/2 | 1/4   | 8mm      | 12mm | 6mm   | 10mm     | 14mm | 6mm   |
| LH Ports Only Kit w/o muffler, w/o DIN Rail | 239-2474 |     |       | 239-2478   |     |       | 239-2485 |     |       | 239-2486 |     |       | 239-2493 |      |       | 239-2394 |      |       |
| LH Ports Only Kit w/o muffler, w/ DIN Rail  | 239-2473 |     |       | 239-2477   |     |       | 239-2483 |     |       | 239-2484 |     |       | 239-2491 |      |       | 239-2492 |      |       |
| LH Ports Only Kit w/ muffler, w/o DIN Rail  | 239-2472 |     |       | 239-2476   |     |       | 239-2481 |     |       | 239-2482 |     |       | 239-2489 |      |       | 239-2490 |      |       |
| LH Ports Only Kit w/ muffler, w/ DIN Rail   | 239-2471 |     |       | 239-2475   |     |       | 239-2479 |     |       | 239-2480 |     |       | 239-2487 |      |       | 239-2488 |      |       |



### Manifold Assembly



#### NOTE:

- For Electrical Interface option dimensions see pg.46

#### Dimensions

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

| A               | B              | C              | D              | E               | F              | G              | H              | J              | K               | L              | M              | N              | P              | Q               | R               | S             | T             | U               |
|-----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|---------------|---------------|-----------------|
| 5.25<br>(133.3) | 1.42<br>(36.0) | 2.16<br>(55.0) | 1.50<br>(38.1) | 2.98<br>(75.8)  | 0.71<br>(18.0) | 3.72<br>(94.5) | 1.07<br>(27.1) | 0.47<br>(12.1) | 0.63<br>(16.0)  | 0.96<br>(24.4) | 1.59<br>(40.3) | 1.77<br>(45.0) | 3.35<br>(85.0) | 4.80<br>(122.0) | 6.93<br>(176.1) | 0.37<br>(9.5) | 0.29<br>(7.3) | 6.56<br>(166.5) |
| V               | W              | X              | Y              | Z               | AA             | BB             | CC             | DD             | EE              | FF             | GG             |                |                |                 |                 |               |               |                 |
| 1.40<br>(35.5)  | 2.13<br>(54.2) | 1.84<br>(46.7) | 2.06<br>(52.3) | 5.31<br>(134.8) | 0.70<br>(17.7) | 1.05<br>(26.7) | 2.29<br>(58.2) | 3.36<br>(85.3) | 4.60<br>(116.9) | 2.05<br>(52.0) | 2.58<br>(65.5) |                |                |                 |                 |               |               |                 |

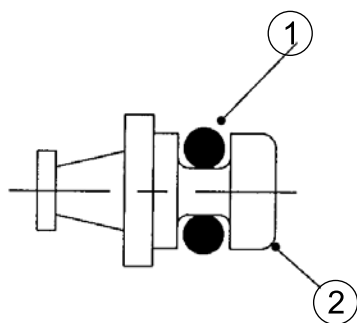


## ISO 15407-2 Series 26 mm

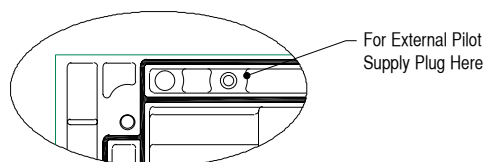
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### Internal Pilot Plug 213-497

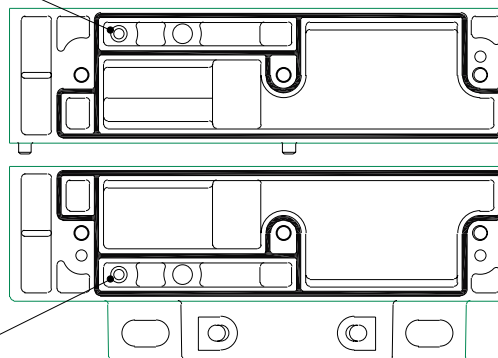
### Internal/External Pilot Selection



| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|----------|-----------|-----------|----------|
| 1        | 1         | Plug      | 125-820  |
| 2        | 1         | O-Ring    | 126-412  |

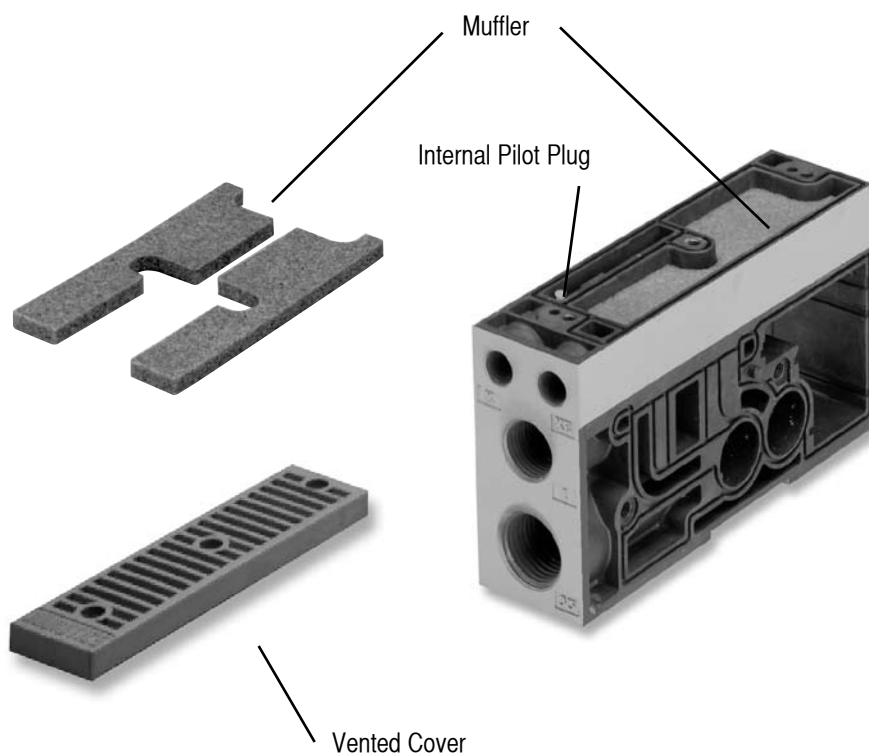


For Internal Pilot Supply Plug Here



### Internal Muffler

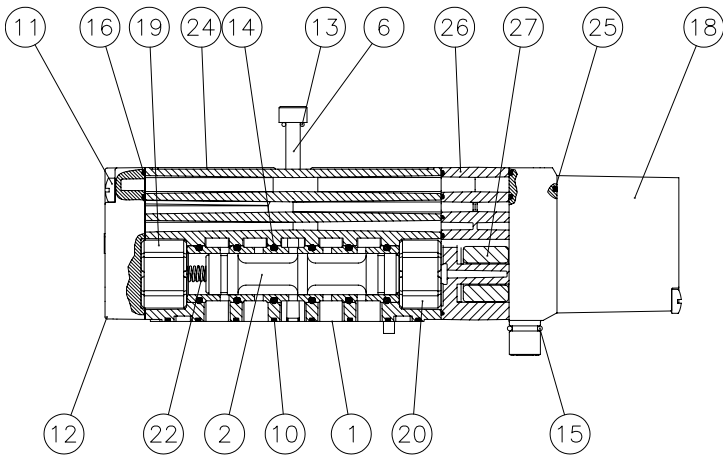
125-851





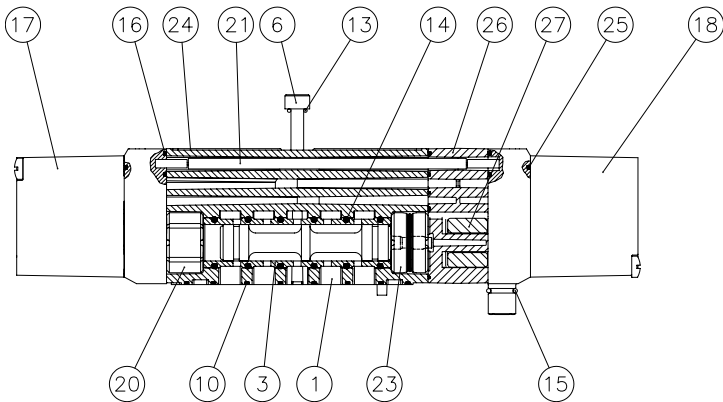
### Valve Service Kits and Parts

Kit No. I62-K1  
(For Models I62BA4, I63BA4, I6HBA4, I6KBA4)



| DET NO. | BA4 | BB4 | PART NAME                  | PART NO.  |
|---------|-----|-----|----------------------------|-----------|
| 1       | 1   | 1   | Body (not sold separately) |           |
| 2       | 1   | N/A | Spool & Sleeve Assembly    | 209-517   |
| 3       | N/A | 1   | Spool & Sleeve Assembly    | 209-518   |
| 6       | 2   | 2   | Screw                      | 127-1036  |
| 10 *    | 1   | 1   | Gasket Body/Manifold       | 113-370   |
| 11      | 2   | N/A | Screw                      | 127-650   |
| 12      | 1   | N/A | Spring Cap                 | 104-673   |
| 13 *    | 2   | 2   | O-Ring                     | 126-163   |
| 14 *    | 6   | 6   | O-Ring                     | 126-395   |
| 15 *    | 1   | 1   | O-Ring                     | 126-144   |
| 16 *    | 3   | 3   | Gasket Adaptor/Body        | 113-373   |
| 17      | N/A | 1   | Solenoid Pilot - 12 End    | See p. 30 |
| 18      | 1   | 1   | Solenoid Pilot - 14 End    | See p. 30 |
| 19 *    | 1   | N/A | Bumper 12 End              | 114-154   |
| 20 *    | 1   | N/A | Bumper 14 End              | 114-153   |
| 21      | N/A | 1   | 14-12 Recepticle           | 230-1138  |
| 22 *    | 1   | N/A | Spring                     | 115-271   |
| 23 *    | N/A | 1   | Detent Assembly            | 210-128   |
| 24      | 1   | 1   | Nameplate                  | 122-1074  |
| 25      | 1   | 2   | Gasket Adapter             | 113-376   |
| 26      | 1   | 1   | Pilot Adapter Spacer       | 119-792   |
| 27      | 1   | 1   | Spacer                     | 116-144   |

Kit No. I62-K2  
(For Models I62BB4, I63BB4, I6HBB4, I6KBB4)



\*Indicates parts included in service kit.

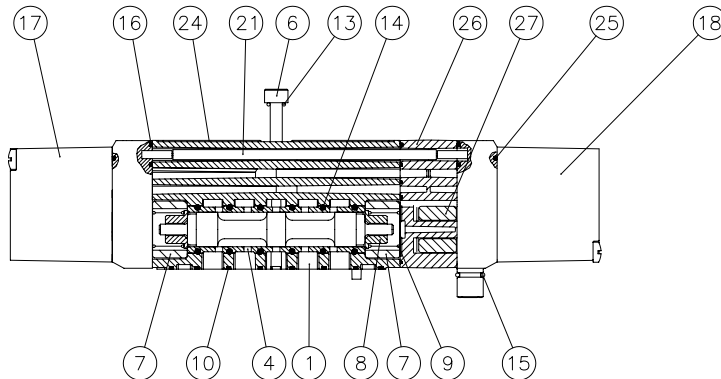


## ISO 15407-2 Series 26 mm

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### Valve Service Kits and Parts

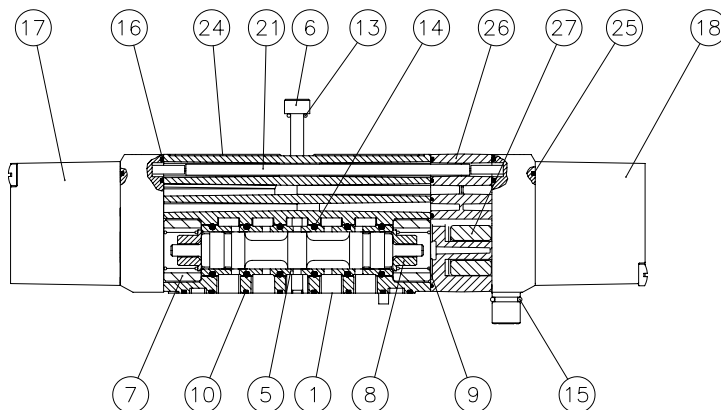
Kit No. I62-K3  
(For Models I62BB5, I63BB5)



| DET NO. | BB5 | BB6 | PART NAME                  | PART NO.  |
|---------|-----|-----|----------------------------|-----------|
| 1       | 1   | 1   | Body (not sold separately) |           |
| 4       | 1   | N/A | Spool & Sleeve Assembly    | 209-519   |
| 5       | N/A | 1   | Spool & Sleeve Assembly    | 209-520   |
| 6       | 2   | 2   | Screw                      | 127-1036  |
| 7 *     | 2   | 2   | Bushing                    | 117-174   |
| 8 *     | 2   | 2-  | Spring Retainer            | 116-464   |
| 9 *     | 2   | 2   | Return Spring              | 115-284   |
| 10 *    | 1   | 1   | Gasket Body/Manifold       | 113-370   |
| 13 *    | 2   | 2   | O-Ring                     | 126-163   |
| 14 *    | 6   | 6   | O-Ring                     | 126-395   |
| 15 *    | 1   | 1   | O-Ring                     | 126-144   |
| 16 *    | 3   | 3   | Gasket Adaptor/Body        | 113-373   |
| 17      | 1   | 1   | Solenoid Pilot - 12 End    | See p. 30 |
| 18      | 1   | 1   | Solenoid Pilot - 14 End    | See p. 30 |
| 21      | 1   | 1   | 14-12 Recepticle           | 230-1138  |
| 24      | 1   | 1   | Nameplate                  | 122-1074  |
| 25      | 2   | 2   | Gasket Adapter             | 113-376   |
| 26      | 1   | 1   | Pilot Adapter Spacer       | 119-792   |
| 27      | 1   | 1   | Spacer                     | 116-144   |

\*Indicates parts included in service kit.

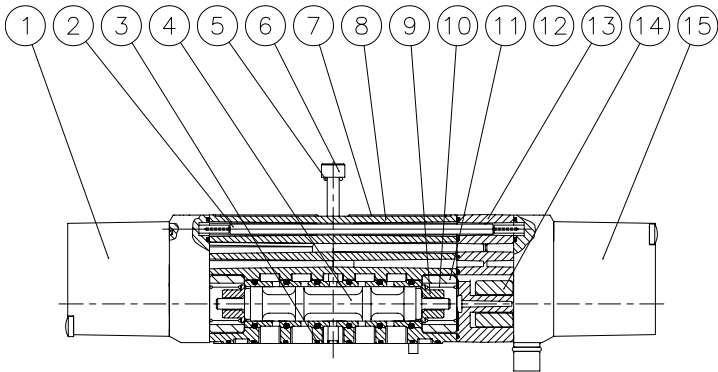
Kit No. I62-K3  
(For Models I62BB6, I63BB6)





### Valve Service Kits and Parts

Kit No. I62-K3  
(For Models I62BB7, I63BB7)



| DET NO. | NO. REQ'D | PART NAME               | PART NO.         |
|---------|-----------|-------------------------|------------------|
| 1       | 1         | Solenoid Pilot - 12 End | <i>See p. 30</i> |
| 2       | 1         | 14 to 12 Connector      | 230-1138         |
| 3 *     | 1         | Gasket                  | 113-370          |
| 4       | 1         | Spool & Sleeve Assembly | 209-521          |
| 5 *     | 2         | O-Ring                  | 126-163          |
| 6       | 2         | Screw                   | 127-1036         |
| 7       | 1         | Nameplate               | 122-1074         |
| 8       | 1         | Body                    | 101-423          |
| 9 *     | 2         | Spring Retainer         | 116-465          |
| 10 *    | 2         | Spring                  | 115-284          |
| 11 *    | 2         | Spacer                  | 117-174          |
| 12 *    | 1         | Gasket                  | 113-373          |
| 13      | 1         | Pilot Adapter Spacer    | 119-792          |
| 14      | 1         | Spacer                  | 116-144          |
| 15      | 1         | Solenoid Pilot - 14 End | <i>See p. 30</i> |

\*Indicates parts included in service kit.



## ISO 15407-2 Series 18 & 26 mm

**numatics®**

### Manifold Assembly

15407-2 18 mm

**AK J W D 0000 3 L STD**

#### Electrical/Electronics 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 = G2-2 Electronics  
3 = G3 Electronics

#### Valve Series

W = 15407-2 18 mm

#### 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 |

#### Options

STD = Standard  
DRM = DIN Rail Mounting  
MUF = Muffler in End Plates  
DWM = DIN Rail with MUF  
14X = External Pilot

#### Port Type

L = Push-in  
N = NPTF  
G = G tap ISO228/I-G

#### End Plate Port Size 2005

3 = Port type L, N or G  
Port 1 = 3/8 Port 3/5 = 3/8  
K = Port type L only  
Port 1 = 10mm Port 3/5 = 10mm

15407-2 26 mm

**A K J X D 0000 3 L 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 = G2-2 Electronics  
3 = G3 Electronics

#### Valve Series

X = 15407-2 26 mm

#### 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 |

#### Options

STD = Standard  
DRM = DIN Rail Mounting  
MUF = Muffler in End Plates  
DWM = DIN Rail with MUF  
A06 = End Plate with Ports on Left  
End only, Mounting Plate  
only on Right End  
D10 = A06 w/DIN Rail Mounting  
D11 = A06 w/Muffler in End Plates  
F05 = A06 w/DIN Rail with MUF  
14X = External Pilot

#### Port Type

L = Push-in  
N = NPTF  
G = G Tap

#### End Plate Port Size

3 = Port type L, N or G  
Port 1 = 3/8 Port 3/5 = 1/2  
2 = Port type L only  
Port 1 = 1/4 Port 3/5 = 3/8  
H = Port type L only  
Port 1 = 8mm Port 3/5 = 12mm  
K = Port type L only  
Port 1 = 10mm Port 3/5 = 14mm

\* 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.

### 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           |



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

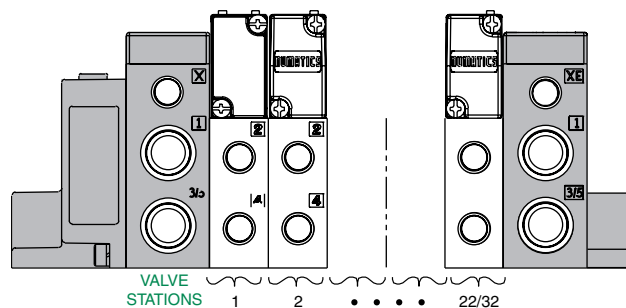
- Shaded components described by Assembly Kit (AK) model number designation.
- Each valve manifold station is listed in sequential order from left to right when facing the port side of the manifold as indicated.

Example order: (18mm)

|                 |                 |
|-----------------|-----------------|
| 25 Pin Sub-D    | AKJWD00003NSTD  |
| valve station 1 | I51BA4Z1MN00061 |
| valve station 2 | I51BA4Z1MN00061 |
| valve station 3 | I51BB4Z2MN00061 |
| valve station 4 | I51BB5Z2MN00061 |
|                 | ASSEMBLED       |

Example order: (26mm)

|                 |                 |
|-----------------|-----------------|
| 37 Pin Sub-D    | AKMXD00003GMUF  |
| valve station 1 | I63BA4Z1ML00061 |
| valve station 2 | I63BA4Z1ML00061 |
| valve station 3 | I63BB5Z2ML00061 |
| valve station 4 | I63BB6Z2ML00061 |
|                 | ASSEMBLED       |

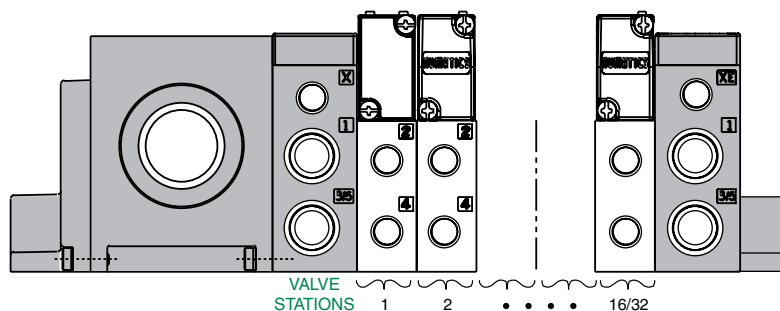


### AKF or AKT 1-16 or 1-32 Terminal Strip

- Ordered using the same method as Sub-D:

Example order: (18mm)

|                 |                 |
|-----------------|-----------------|
|                 | AKFWF00003LDRM  |
| valve station 1 | I5HBA4Z1ML00061 |
| valve station 2 | I5HBA4Z1ML00061 |
| valve station 3 | I5HBB4Z2ML00061 |
| valve station 4 | I5HBB4Z2ML00061 |
| valve station 5 | I5HBB5Z2ML00061 |
| valve station 6 | I5HBB6Z2ML00061 |
|                 | ASSEMBLED       |

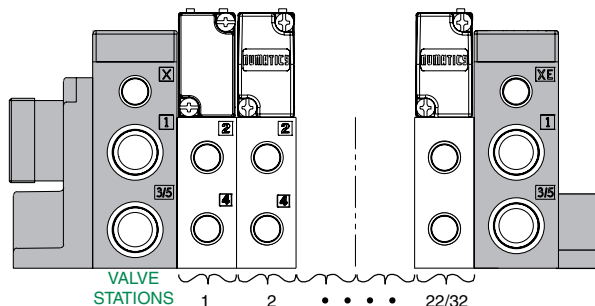


### AKP, AKQ, AKR or AKS 12, 19, 26 or 26+12 Pin Round Connector

- Ordered using the same method as Sub-D:

Example order: (26mm)

|                 |                 |
|-----------------|-----------------|
|                 | AKRXH00003LDWM  |
| valve station 1 | I63BA4Z1ML00061 |
| valve station 2 | I63BA4Z1ML00061 |
| valve station 3 | I63BA4Z1ML00061 |
| valve station 4 | I63BB4Z6ML00061 |
| valve station 5 | I63BB4Z6ML00061 |
| valve station 6 | I63BB4Z6ML00061 |
| valve station 7 | I63BB5Z6ML00061 |
| valve station 8 | I63BB5Z6ML00061 |
|                 | ASSEMBLED       |





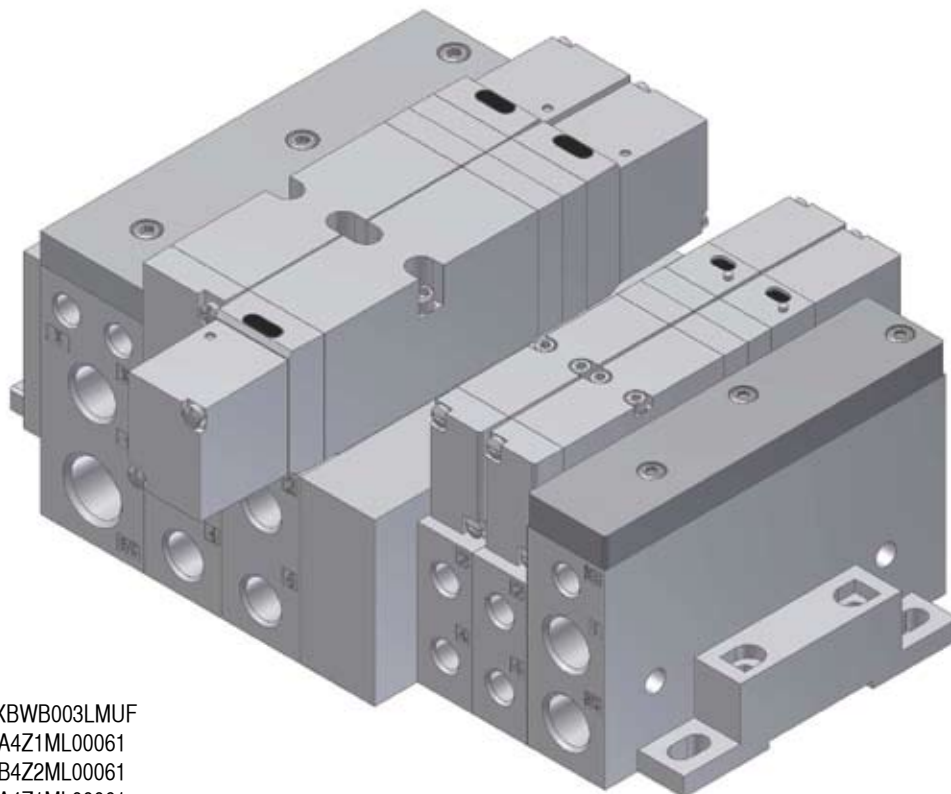


## Transition Plate 18 & 26 mm

**numatics®**

### Adaptor Plate Kits 245-156

This kit includes the adaptor plate, transfer board, gasket, screws, and studs. Individual end plates for the 18mm and 26mm are not included. This adaptor allows the transition from the 26mm to the 18mm series.



Example order

Adaptor Plate Kit  
AKJXBWB003LMUF  
I62BA4Z1ML00061  
I62BB4Z2ML00061  
I52BA4Z1ML00061  
I52BA4Z1ML00061  
ASSEMBLED

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

| DESCRIPTION                                            | PART NO. |
|--------------------------------------------------------|----------|
| 18mm with 3/8 NPTF - 26mm with 3/8 and 1/2 NPTF        | 244-136  |
| 18mm with 3/8 G-Tap - 26mm with 3/8 and 1/2 G-Tap      | 244-140  |
| 18mm with 3/8 Push-in - 26mm with 3/8 and 1/2 Push-in  | 244-148  |
| 18mm with 10 mm Push-in - 26mm with 10 & 14 mm Push-in | 244-156  |

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

| DESCRIPTION                                            | PART NO. |
|--------------------------------------------------------|----------|
| 18mm with 3/8 NPTF - 26mm with 3/8 and 1/2 NPTF        | 244-134  |
| 18mm with 3/8 G-Tap - 26mm with 3/8 and 1/2 G-Tap      | 244-138  |
| 18mm with 3/8 Push-in - 26mm with 3/8 and 1/2 Push-in  | 244-144  |
| 18mm with 10 mm Push-in - 26mm with 10 & 14 mm Push-in | 244-152  |

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

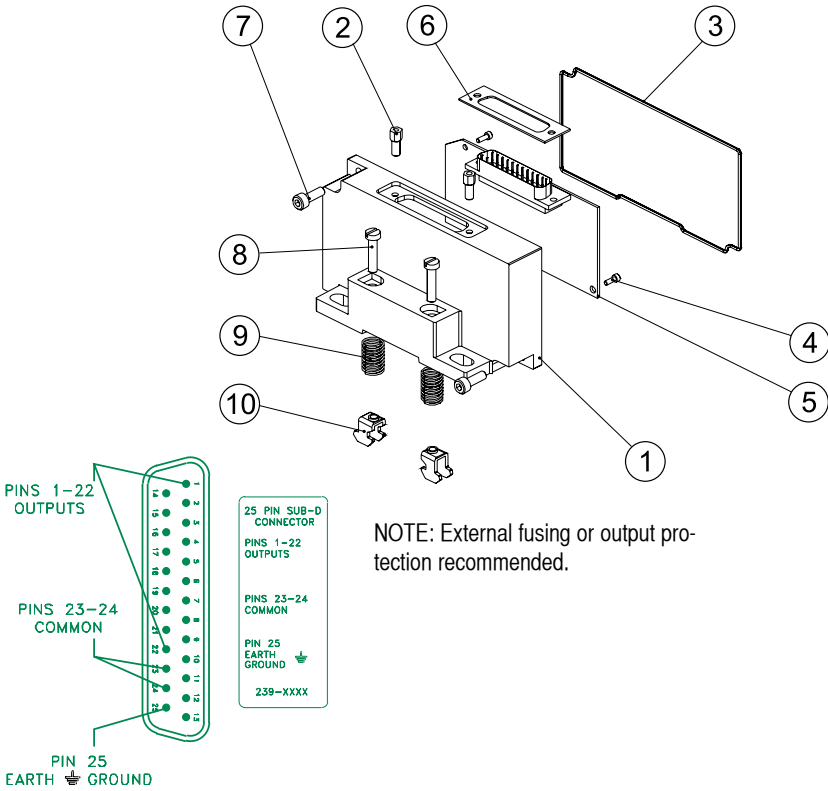
| DESCRIPTION                                            | PART NO. |
|--------------------------------------------------------|----------|
| 18mm with 3/8 NPTF - 26mm with 3/8 and 1/2 NPTF        | 244-135  |
| 18mm with 3/8 G-Tap - 26mm with 3/8 and 1/2 G-Tap      | 244-139  |
| 18mm with 3/8 Push-in - 26mm with 3/8 and 1/2 Push-in  | 244-146  |
| 18mm with 10 mm Push-in - 26mm with 10 & 14 mm Push-in | 244-154  |

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

| DESCRIPTION                                            | PART NO. |
|--------------------------------------------------------|----------|
| 18mm with 3/8 NPTF - 26mm with 3/8 and 1/2 NPTF        | 244-133  |
| 18mm with 3/8 G-Tap - 26mm with 3/8 and 1/2 G-Tap      | 244-137  |
| 18mm with 3/8 Push-in - 26mm with 3/8 and 1/2 Push-in  | 244-142  |
| 18mm with 10 mm Push-in - 26mm with 10 & 14 mm Push-in | 244-150  |



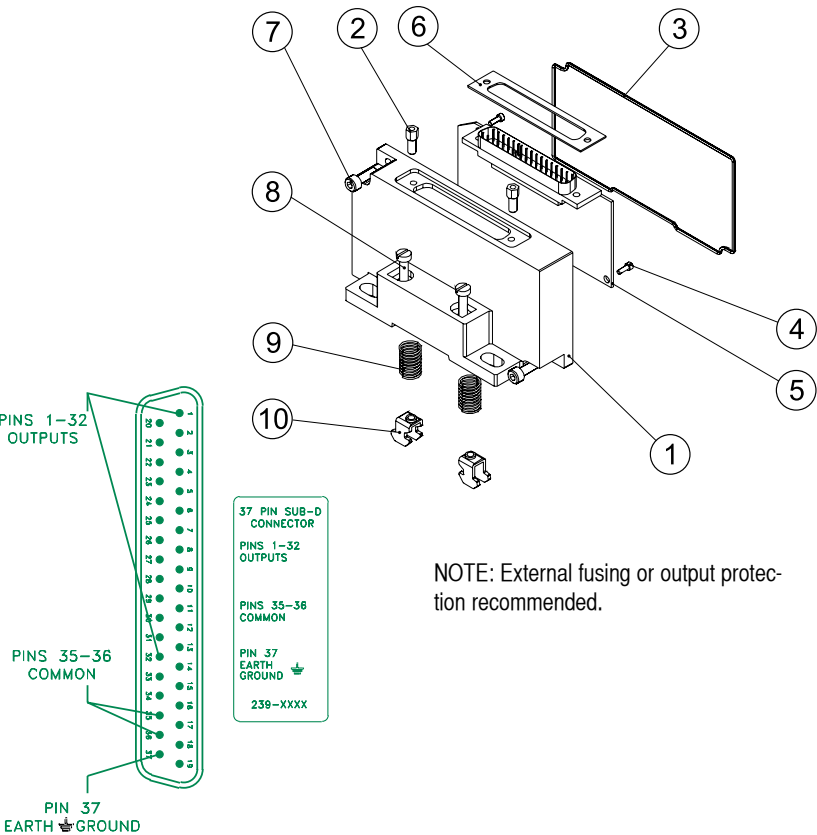
### 25 Pin Sub-D Connector Kit



| 25 PIN SUB-D HOUSING KITS | PART NO. |
|---------------------------|----------|
| Without DIN Rail          | 239-1174 |
| With DIN Rail             | 239-1175 |

| 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  |
| 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 |

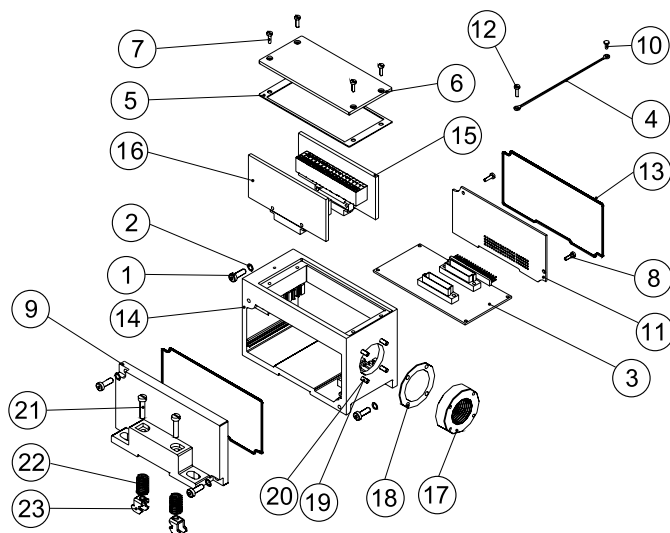
| DET. NO. | NO. REQ'D | PART NAME              | PART NO. |
|----------|-----------|------------------------|----------|
| 1        | 1         | Housing                | 105-402  |
| 2        | 2         | Hex Screw              | 127-825  |
| 3        | 1         | Gasket                 | 113-531  |
| 4        | 2         | Screw                  | 127-318  |
| 5        | 1         | PCB Ass'y              | 256-608  |
| 6        | 1         | Gasket                 | 113-530  |
| 7        | 2         | Screw Ass'y            | 127-396  |
| 8        | 2         | Screw (DIN Rail Only)  | 127-472  |
| 9        | 2         | Spring (DIN Rail Only) | 115-355  |
| 10       | 2         | Clamp (DIN Rail Only)  | 125-720  |



## ISO 15407-2 Series 18 & 26 mm

**numatics®**

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



NOTE: External fusing or output protection recommended.

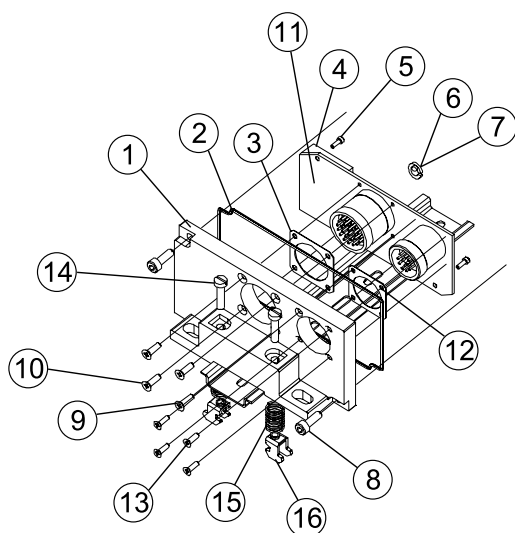
NOTE: Min. Wire AWG 26  
Max. Wire AWG 18

TERMINAL STRIP  
TERMINALS  
1-32 OUTPUTS  
TERMINAL COM  
COMMON  
TERMINAL GND  
EARTH  
GROUND  
18 AWG WIRE  
MAXIMUM

| 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. 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         | 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)  | 256-617  |
| 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



26 PIN ROUND  
CONNECTOR  
PINS 1-22  
OUTPUTS  
PINS 24-25  
COMMON  
PIN 26  
EARTH  
GROUND

26 Pin

26 PIN ROUND  
CONNECTOR  
PINS 1-22  
OUTPUTS 1-22  
PINS 24-25  
COMMON  
PIN 26  
EARTH  
GROUND  
12 PIN ROUND  
CONNECTOR  
PINS 1-10  
OUTPUTS 23-32

26 Pin + 12 Pin

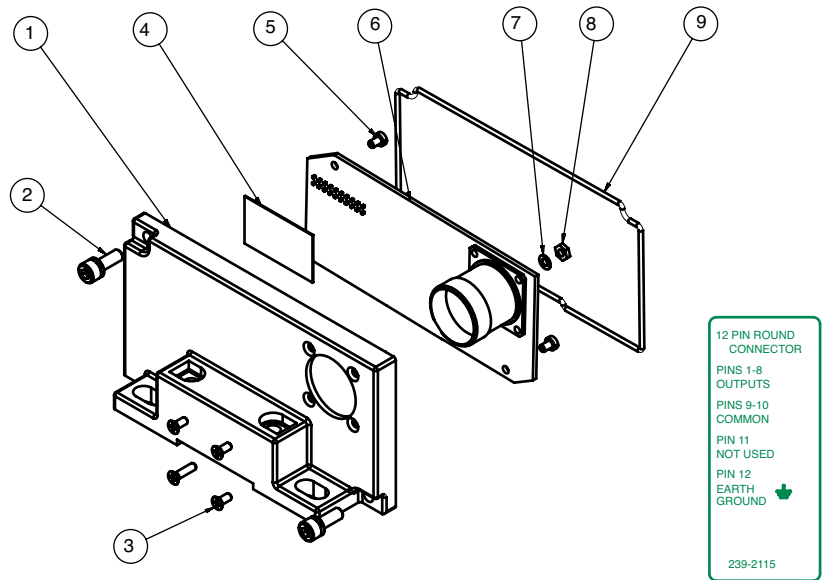
NOTE: External fusing or output protection recommended.

| 26 PIN ROUND KIT       | PART NO. |
|------------------------|----------|
| Without DIN            | 239-1184 |
| With DIN               | 239-1185 |
| 26 + 12 PIN ROUND KITS | PART NO. |
| Without DIN            | 239-1376 |
| With DIN               | 239-1377 |

| DET. NO. | NO. 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  |



12 Pin Round Connector Kit 239-2115

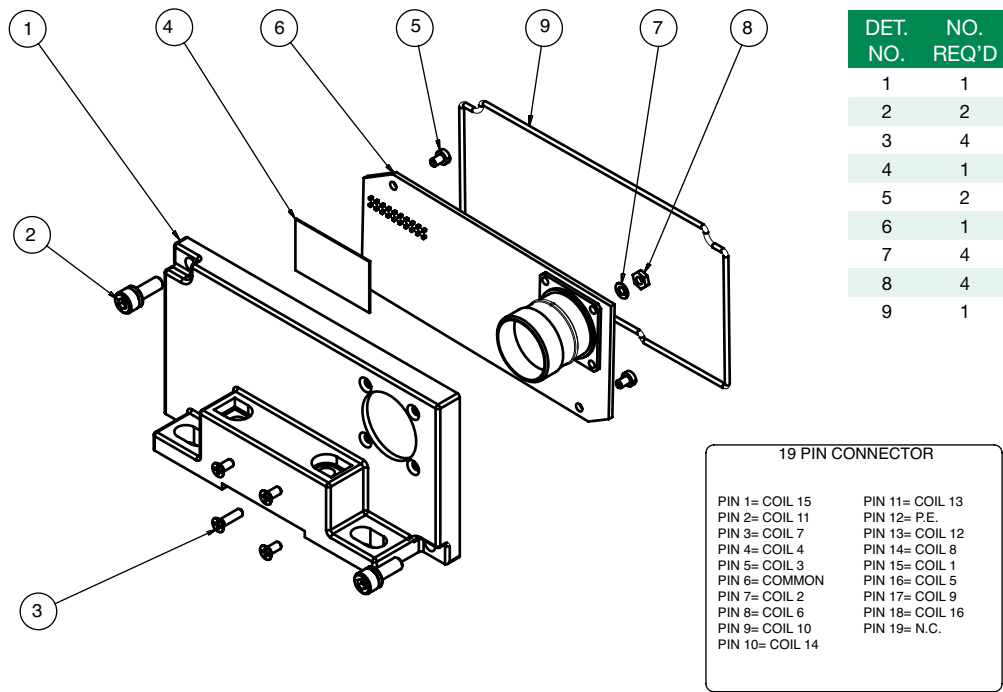


NOTE: External fusing or output protection recommended.

Parts List

| DET. NO. | NO. REQ'D | PART NAME  | PART NO. |
|----------|-----------|------------|----------|
| 1        | 1         | Cover      | 105-451  |
| 2        | 2         | Screw      | 127-391  |
| 3        | 4         | Screw      | 127-982  |
| 4        | 1         | Shield     | 140-759  |
| 5        | 2         | Screw      | 127-875  |
| 6        | 1         | PC Board   | 256-856  |
| 7        | 4         | Lockwasher | 128-352  |
| 8        | 4         | Nut        | 128-288  |
| 9        | 1         | Gasket     | 113-531  |

19 Pin Round Connector Kit 239-2307



NOTE: External fusing or output protection recommended.

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  |

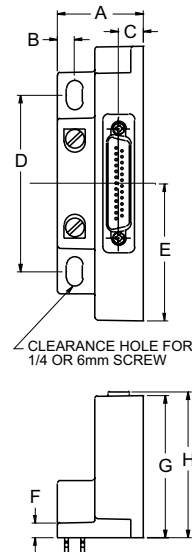


## ISO 15407-2 Series 18 & 26 mm

**NUMATICS®**

### Electrical Interface

#### 25 Pin Sub-D

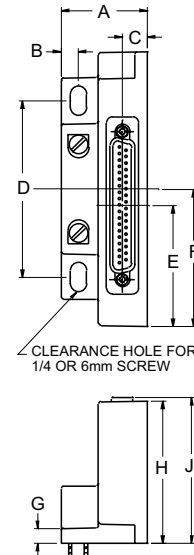


#### Dimensions

top dimensions = inches  
bottom dimensions (in parenthesis) = 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

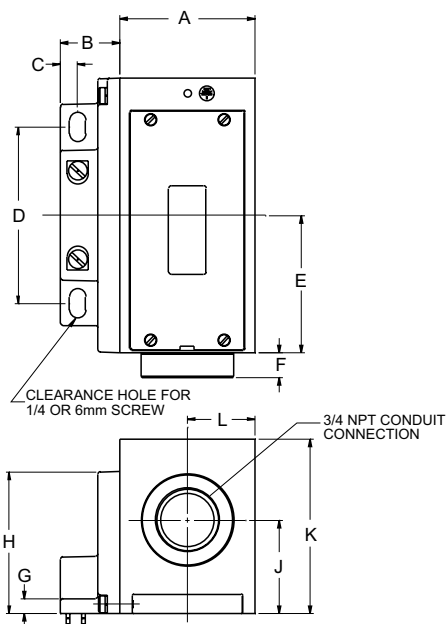


#### Dimensions

top dimensions = inches  
bottom dimensions (in parenthesis) = 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

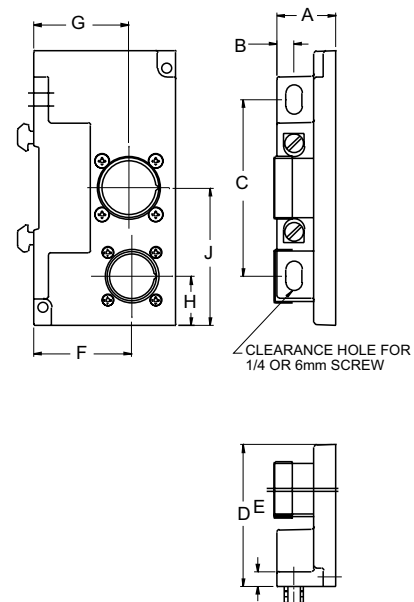


#### Dimensions

top dimensions = inches  
bottom dimensions (in parenthesis) = 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, 19, 26 & 26 + 12 Pin Round Connector



#### Dimensions

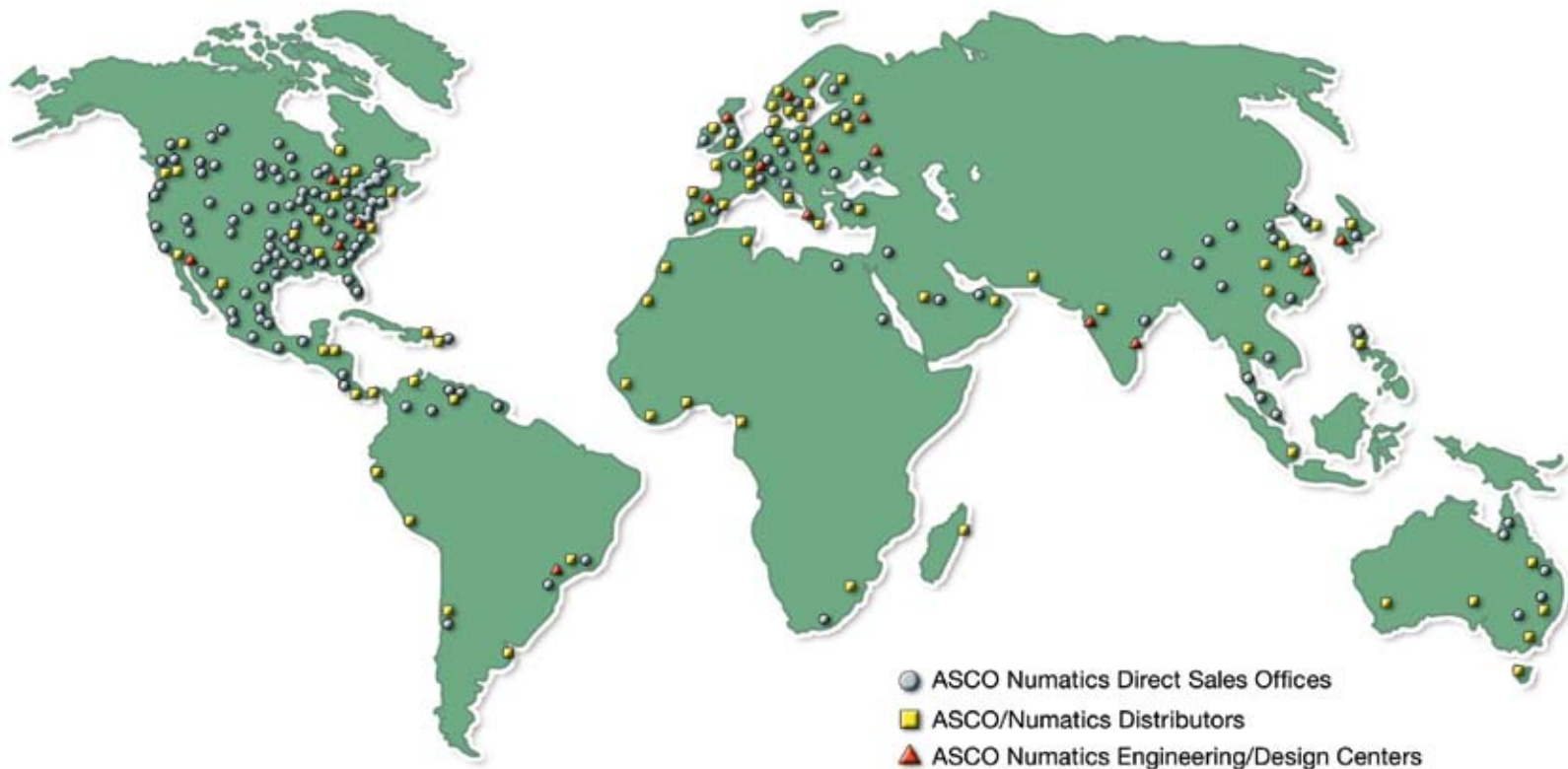
top dimensions = inches  
bottom dimensions (in parenthesis) = millimeters

| 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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