

valves

# **2009 Series**

*Solenoid Pilot Actuated Valves*

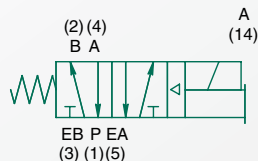


# **numatics®**

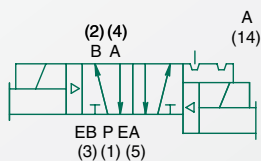
|                                                        |      |
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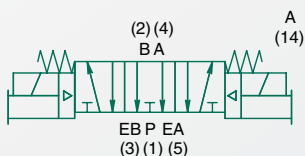
single solenoid air pilot  
2 position 4-way



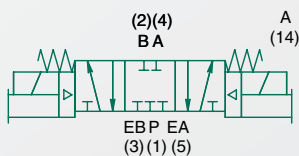
double solenoid air pilot  
2 position 4-way



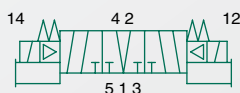
double solenoid air pilot  
3 position 4-way  
open center



double solenoid air pilot  
3 position 4-way  
closed center



double solenoid pilot  
3 Position 4-Way (5/3),  
open to 4 (A) and  
2 (B) in center



5-ported, 4-way, 2 and 3 position, Spool & Sleeve  
Cv: 0.9

- Solenoid pilot actuated
- Lightweight magnesium alloy valve body
- Plug-in solenoid with indicator light
- Multi-purpose
- 1/8 and 1/4 NPTF or G Tap ports
- For unlubricated or lubricated service
- Integral plug-in and regulators available
- Integral plug-in speed control with adjustments on the same end.
- Plug-in manifold with terminal block for ease of wiring
- Optional push-in tubing connections on subbases and manifolds.
- NEMA 4



## Technical Data

| VALVE DATA                          | NPTF                                                 | G TAP                                                 |
|-------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| Cv                                  | 0.9                                                  | 0.9                                                   |
| Flow Capacity                       | 41 SCFM<br>@ 80 PSIG upstream pressure to atmosphere | 887 NI/m<br>@ 80 PSIG upstream pressure to atmosphere |
| Main Valve Operating Pressure Range | 28" Hg. to 150 PSIG                                  | Vacuum to 10 bar                                      |
| Pilot Pressure Range                | 14.5 to 120 PSIG                                     | 1 to 8.23 Bar                                         |
| Temperature Range (Ambient)         | -10°F to +115°F ambient                              | -23°C to +46°C                                        |

## Operating Data

|                                         |          |             |                                     |             |
|-----------------------------------------|----------|-------------|-------------------------------------|-------------|
| ALL SOLENOIDS ARE CONTINUOUS DUTY RATED |          | 24 VDC      | 110 V AC/ 50 Hz. to 120 V AC/60 Hz. |             |
| Power (Watts)                           |          | 2.5 W       | 4.2 W                               |             |
| Holding Current (Amps)                  |          | 0.10 amps   | 0.03 amps                           |             |
| RESPONSE TIME IN SECONDS                | ENERGIZE | DE-ENERGIZE | ENERGIZE                            | DE-ENERGIZE |
| 2 - Position, Single, Spring Return     | 0.010    | 0.024       | 0.010                               | 0.024       |
| 2 - Position, Double, Detented          | 0.010    | N/A         | 0.010                               | N/A         |
| 3 - Position, Spring Centered           | 0.011    | 0.031       | 0.010                               | 0.031       |



### How to Order

**091 BA 4 11 M N 000 61**

#### Valve Series & Port Size

091 = 1/8  
092 = 1/4  
09H = 8mm  
09F = 6mm

#### Valve Type

BA = Solenoid Pilot 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 Blocked Center  
7 = 3 Position 4-Way (5/3),  
Open to 4 (A) and 2 (B) in Center  
P = Blank Station

#### Mounting

00 = Valve Unit Only (Used with Blank Station)  
3A = Plug-in Base, Side Ports  
Individual Exhaust  
3C = 3A with Speed Control  
11 = Standard Blok, Side Ports  
15 = 11 with Side and Bottom Cylinder Ports  
21 = 11 with Speed Control  
25 = 15 with Speed Control

#### Voltage

20 = 24/50-60 VAC  
30 = 110-120/50-60 VAC  
61 = 24 VDC

#### Options

000 = Standard  
11B = Flush Locking Override  
14X = External Pilot  
16T = Bottom P Port

#### Port Type

G = G Tap  
L = Push-in Fitting  
N = NPTF  
0 = Valve Unit Only

#### Wiring Option

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

**092 RS 3 25 J N 000 00**

#### Valve Series & Port Size

091 = 1/8  
092 = 1/4  
09H = 8mm  
09F = 6mm

#### Regulator Type

RS = Single Pressure to Port P (1)  
RD = Dual Pressure to Ports EB (3) & EA (5)

#### Pressure Range

3 = 3-30 PSIG Regulator  
7 = 0-100 PSIG Regulator

#### Mounting

3A = Plug-in Base, Side Ports  
Individual Exhaust  
3C = 3A with Speed Control  
11 = Standard Blok, Side Ports  
15 = 11 with Side and Bottom Cylinder Ports  
21 = 11 with Speed Control  
25 = 15 with Speed Control

#### Voltage

00 = Not Applicable

#### Options

000 = Standard  
12H = Less Gauge  
14X = External Pilot  
16N = Jumper on A End  
16P = Jumper on B End  
16T = Bottom P Port

#### Port Type

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

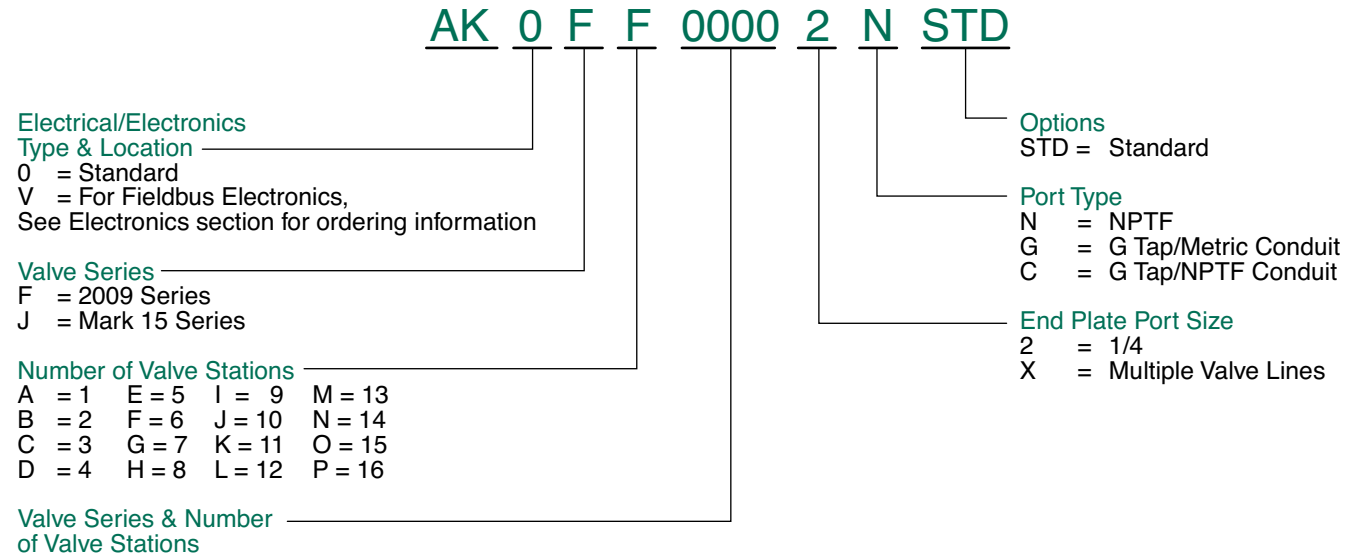
#### Wiring Option

J = Plug-in Recetacle Assembly



### How to Order continued

#### Manifold Assembly

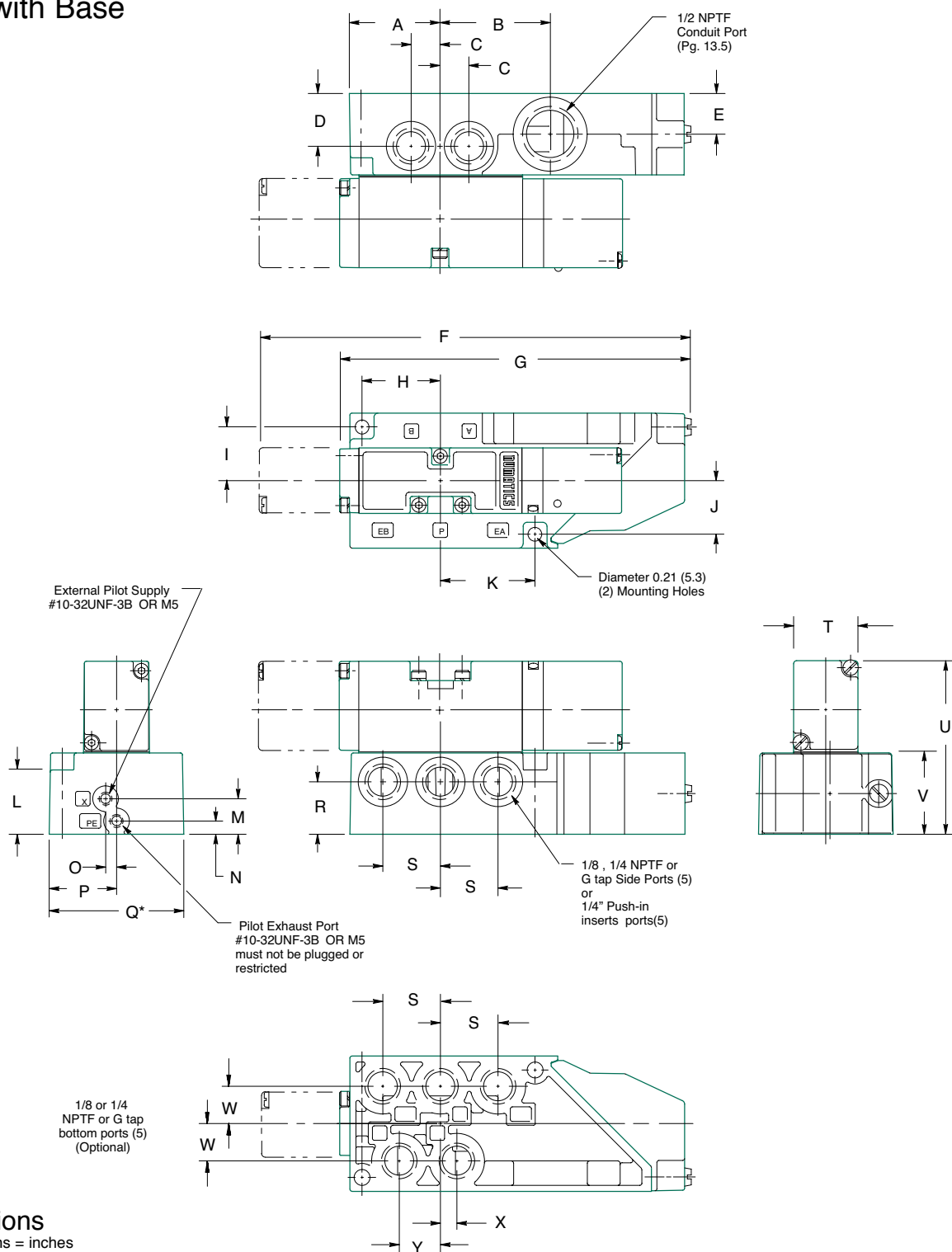


Example order  
 List in order, left to right, facing cylinder ports

|              |                 |
|--------------|-----------------|
| Assembly kit | AKOFF00002NSTD  |
| Station 1    | 091BA415KN00030 |
| Station 2    | 092BA425KN00030 |
| Station 3    | 092BS415KN00030 |
| Station 4    | 092BS415KN00030 |
| Station 5    | 091BA400KO00030 |
|              | 092RS115JN00000 |
| Station 6    | 091BA415KN00030 |
|              | ASSEMBLED       |



### Valve with Base



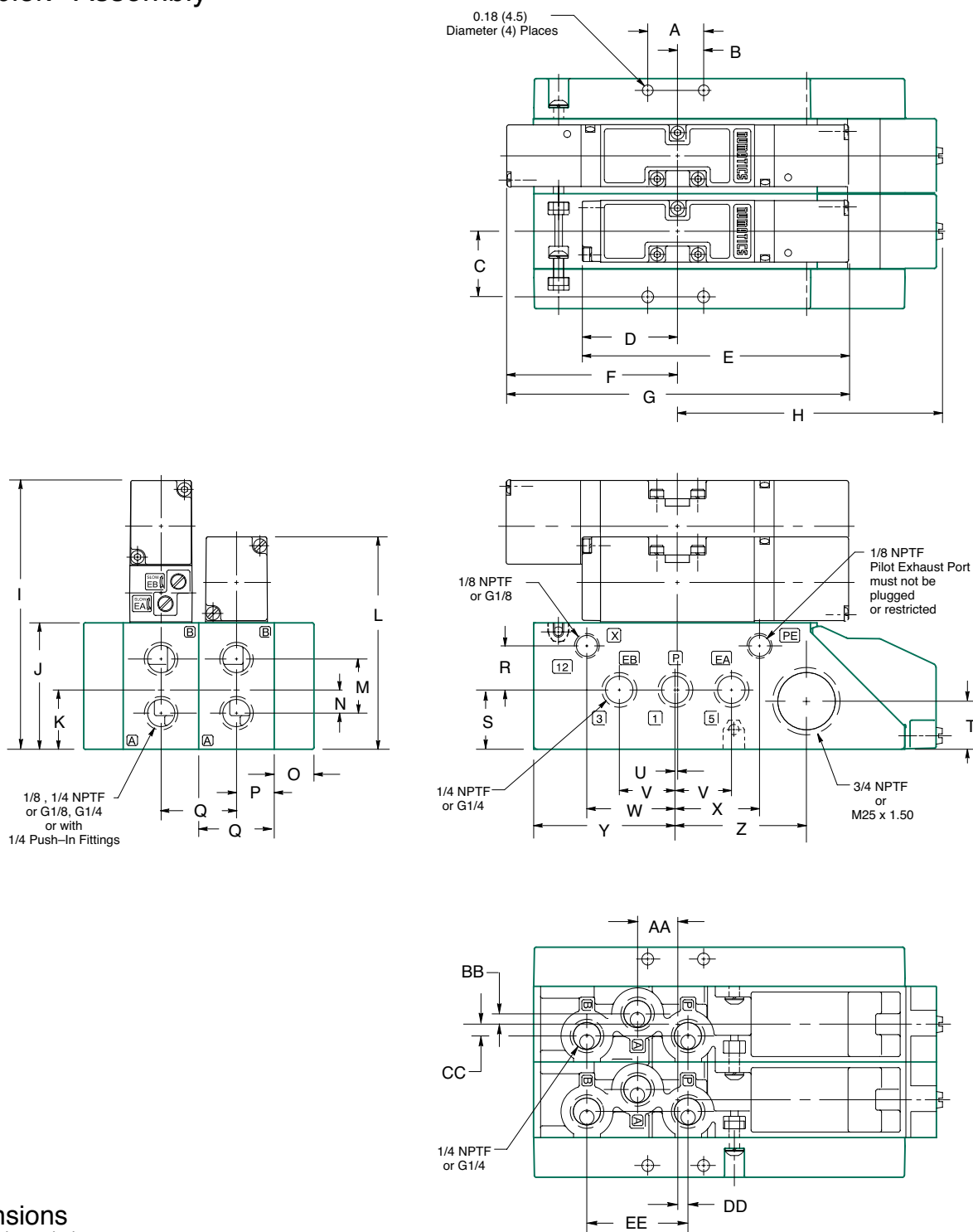
### Dimensions

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

| A              | B              | C              | D              | E              | F               | G               | H              | I              | J              | K              | L              | M              |
|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 1.37<br>(35.0) | 1.67<br>(42.4) | 0.44<br>(11.0) | 0.80<br>(20.2) | 0.62<br>(16.0) | 6.53<br>(166.0) | 5.35<br>(136.0) | 1.19<br>(30.0) | 0.81<br>(20.6) | 0.81<br>(11.2) | 1.44<br>(36.5) | 0.97<br>(24.6) | 0.54<br>(14.0) |
| N              | O              | P              | Q              | R              | S               | T               | U              | V              | W              | X              | Y              |                |
| 0.20<br>(5.2)  | 0.17<br>(4.2)  | 1.02<br>(26.0) | 2.05<br>(52.0) | 0.80<br>(20.0) | 0.88<br>(22.0)  | 1.00<br>(25.4)  | 2.63<br>(67.0) | 1.25<br>(32.0) | 0.57<br>(14.4) | 0.25<br>(6.4)  | 0.63<br>(16.0) |                |



### Flexiblok® Assembly



### 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              |
|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|
| 0.91<br>(23.0) | 0.42<br>(11.0) | 1.06<br>(27.0) | 1.54<br>(39.0) | 4.31<br>(109.0) | 2.77<br>(70.0) | 5.49<br>(139.0) | 4.28<br>(109.0) | 4.38<br>(110.0) | 2.05<br>(52.0) | 0.96<br>(24.4) | 3.44<br>(87.0) | 0.88<br>(22.2) | 0.38<br>(9.5) | 0.64<br>(16.3) | 0.61<br>(16.0) |
| Q              | R              | S              | T              | U               | V              | W               | X               | Y               | Z              | AA             | BB             | CC             | DD            | EE             |                |
| 1.22<br>(31.0) | 0.71<br>(18.0) | 0.96<br>(24.4) | 0.78<br>(20.0) | 0.03<br>(0.76)  | 0.91<br>(23.0) | 1.43<br>(36.0)  | 1.36<br>(34.5)  | 2.32<br>(59.0)  | 2.12<br>(54.0) | 0.65<br>(16.4) | 0.17<br>(4.2)  | 0.19<br>(4.8)  | 0.17<br>(4.2) | 1.46<br>(37.2) |                |



### Sandwich Pressure Regulators Types: RS / RD

When ordering a valve plus regulator mounted on a base or manifold, list the valve unit-only model number and include the mounting requirements within the regulator model selection. Specify “Assembled.”

#### EXAMPLE ORDERS: TYPE RS

Valve unit only: 091BA400K000030

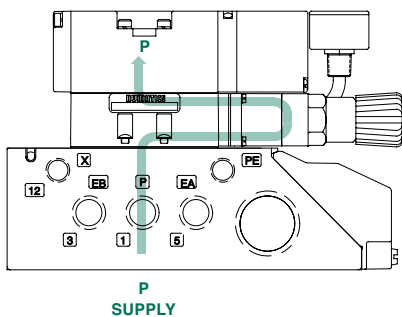
Regulator + mounting 091RS73AJL00000  
ASSEMBLED

#### TYPE RD

091BA400K000030

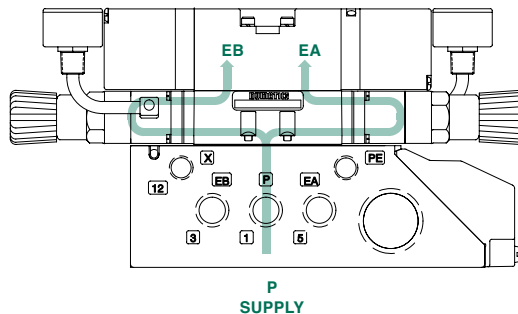
092RD711JL00000  
ASSEMBLED

#### Type RS



Single pressure from a single supply.

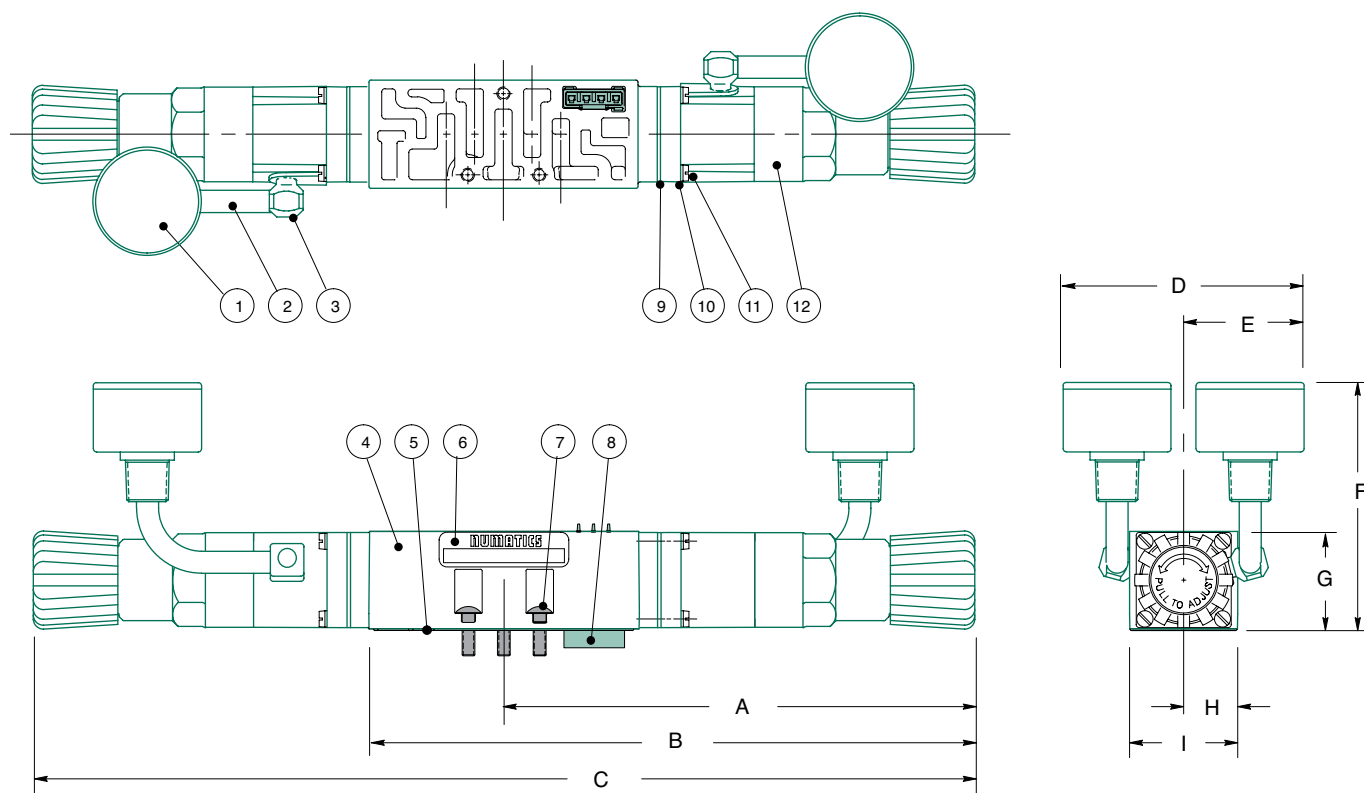
#### Type RD



Dual pressure from a single supply.



### Sandwich Pressure Regulator



#### Dimensions

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

| A               | B               | C               | D              | E              | F              | G              | H              | I              |
|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| 4.38<br>(111.2) | 5.80<br>(147.3) | 8.76<br>(222.5) | 2.14<br>(54.4) | 1.07<br>(27.2) | 2.28<br>(57.9) | 0.90<br>(22.9) | 0.50<br>(12.7) | 1.00<br>(25.4) |

#### Parts List

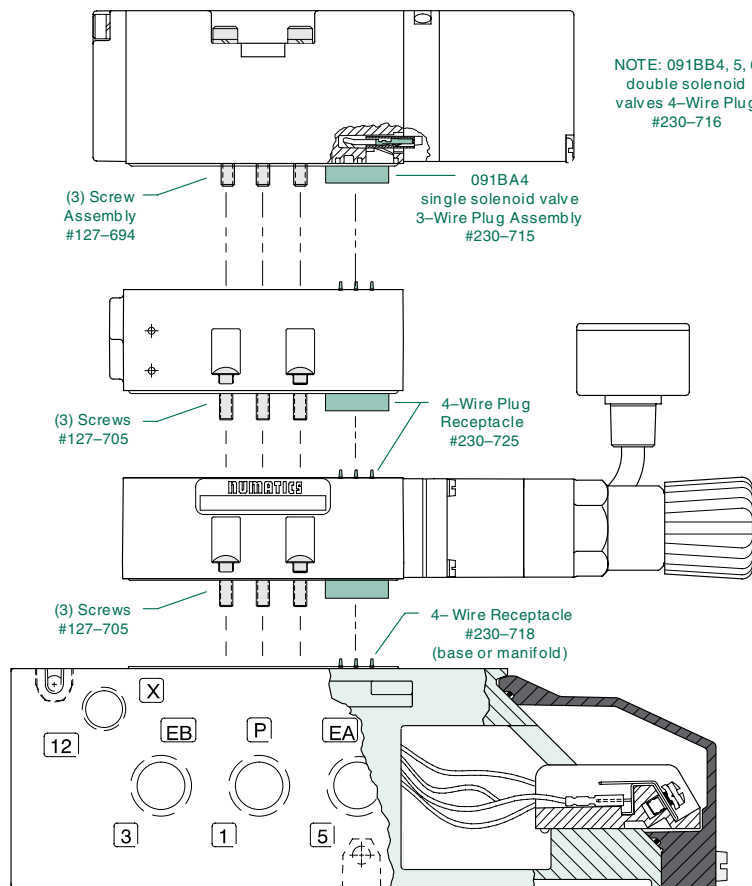
| DET. NO. | NO. REQ'D | PART NAME                                | PART NO.                 |
|----------|-----------|------------------------------------------|--------------------------|
| 1        | 2*        | Gauge 0-150 PSIG                         | 214-209                  |
|          |           | Gauge 0-60 PSIG                          | 214-216                  |
| 2        | 2*        | Tube Fitting                             | 134-469                  |
| 3        | 2*        | Fitting                                  | 134-472                  |
| 4        | 1         | Regulator Block:                         | RS 125-615<br>RD 125-616 |
| 5        | 1         | Gasket body/base                         | 113-464                  |
| 6        | 1         | Nameplate                                | 122-991                  |
| 7        | 3         | Screw                                    | 127-705                  |
| 8        | 1         | Plug Receptacle                          | 230-725                  |
| 9        | 1         | Gasket (to regulator block)              | 113-472                  |
| 10       | 8**       | Lockwasher                               | 128-172                  |
| 11       | 8**       | Screw                                    | 127-380                  |
| 12       | 2*        | Regulator Assembly (not sold separately) |                          |

\* (1) required for RS

\*\* (4) required for RS



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



#### EXAMPLE

**091BA400K000030**

2009 single solenoid valve unit with plug-in assembly

**092RS721JL00000**

Single pressure regulator Type RS + speed control sandwich mounted on a 1/4 NPTF FlexiBlok manifold with side ports and push-in fittings.

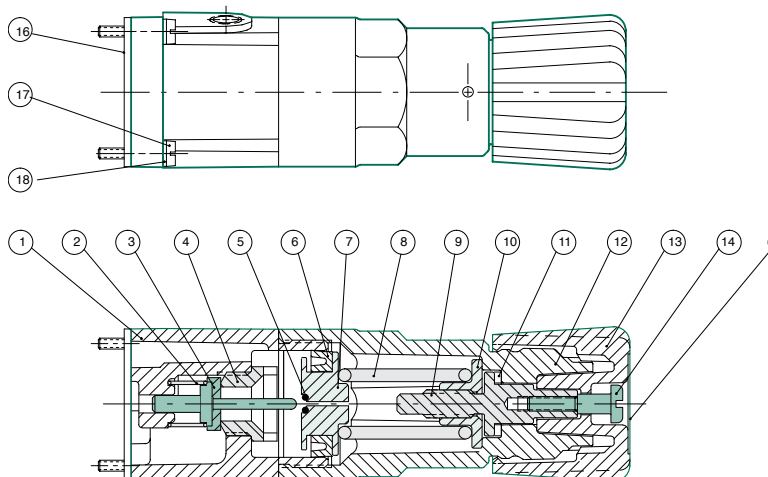
#### EXAMPLE ORDER:

Valve: 091BA400K000030  
Regulator: 092RS721JL00000  
ASSEMBLED

### Regulator Kits & Service Parts

Regulator Service Kit 239-708

Jumper Plate Kit 239-764



### Parts List

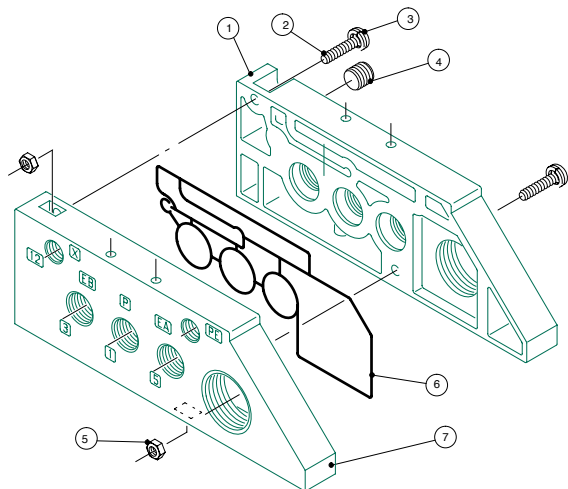
| DET. NO. | NO. REQ'D | PART NAME       | PART NO.                                |
|----------|-----------|-----------------|-----------------------------------------|
| 1        | 1         | Regulator Body  | 101-706                                 |
| 2        | 1*        | Spring          | 115-226                                 |
| 3        | 1*        | Poppet Assembly | 221-168                                 |
| 4        | 1         | Poppet Seat     | 124-148                                 |
| 5        | 1*        | O-Ring          | 126-336                                 |
| 6        | 1*        | Seal U-Packing  | 124-383                                 |
| 7        | 1         | Piston          | 125-618                                 |
| 8        | 1         | Spring          | 0-30 PSIG 115-352<br>0-100 PSIG 115-342 |
| 9        | 1         | Metering Screw  | 118-187                                 |
| 10       | 1         | Spring Guide    | 112-369                                 |
| 11       | 1*        | Bearing         | 125-617                                 |
| 12       | 1         | Bonnet          | 125-623                                 |
| 13       | 1         | Knob            | 125-624                                 |
| 14       | 1*        | Screw           | 127-706                                 |
| 15       | 1         | Label           | 122-992                                 |
| 16       | 1*        | Gasket          | 113-472                                 |
| 17       | 4         | Screw           | 127-380                                 |
| 18       | 4         | Lockwasher      | 128-172                                 |

\* (2) Required for RD

\*\* (8) Required for RD



### End Plate Assembly Kit



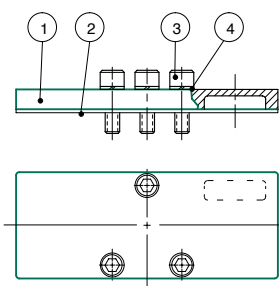
|                       |         |
|-----------------------|---------|
| 3/8 NPTF              | 239-928 |
| 1/4 NPTF              | 239-691 |
| G1/4 (Metric Conduit) | 239-692 |
| G1/4 (NPTF Conduit)   | 239-727 |

#### Parts List

| DET. NO. | NO. REQ'D | PART NAME       | NPTF    | PART NO.                |                       |
|----------|-----------|-----------------|---------|-------------------------|-----------------------|
|          |           |                 |         | G TAP<br>METRIC CONDUIT | G TAP<br>NPTF CONDUIT |
| 1        | 1         | Left End Plate  | 104-517 | 104-519                 | 104-553               |
| 2        | 2         | Screw           | 127-697 | 127-697                 | 127-697               |
| 3        | 2         | Lockwasher      | 128-279 | 128-279                 | 128-279               |
| 4        | 1         | Pipe Plug       | 129-100 | 129-160                 | 129-160               |
| 5        | 2         | Nut             | 128-191 | 128-191                 | 128-191               |
| 6        | 1         | Gasket          | 113-466 | 113-466                 | 113-466               |
| 7        | 1         | Right End Plate | 104-518 | 104-520                 | 104-554               |

### Blank Station Plate Kit

239-668

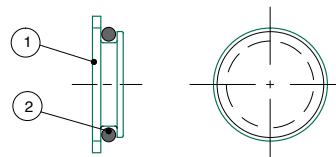


#### Parts List

| DET. NO. | NO. REQ'D | PART NAME           | PART NO. |
|----------|-----------|---------------------|----------|
| 1        | 1         | Blank Station Plate | 104-543  |
| 2        | 1         | Gasket              | 113-471  |
| 3        | 3         | Screw               | 127-570  |
| 4        | 3         | Lockwasher          | 128-192  |

### Blocking Disc Kit

239-667

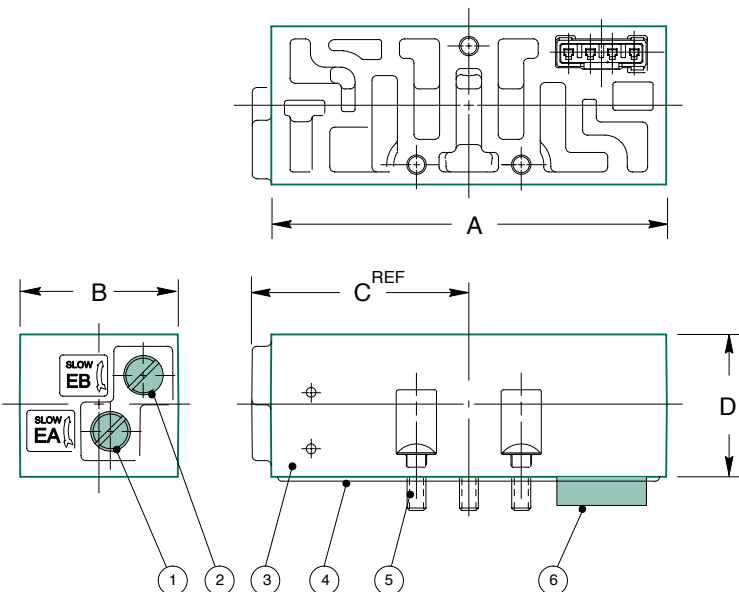


#### Parts List

| DET. NO. | NO. REQ'D | PART NAME     | PART NO. |
|----------|-----------|---------------|----------|
| 1        | 1         | Blocking Plug | 125-730  |
| 2        | 1         | O-Ring        | 126-427  |

### Speed Control Kit with Plug

239-687



#### Parts List

| DET. NO.  | NO. REQ'D | PART NAME                              | PART NO. |
|-----------|-----------|----------------------------------------|----------|
| 1         | 1         | Metering Screw                         | 125-730  |
| 2         | 1         | Metering Screw                         | 126-427  |
| not shown | 2         | Nylon Rod<br>for use w/ metering screw | 125-613  |
| 4         | 1         | Gasket                                 | 113-464  |
| 5         | 3         | Screw                                  | 127-705  |
| 6         | 1         | Plug Receptacle Assembly               | 230-725  |

#### Dimensions

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

| A              | B              | C              | D              |
|----------------|----------------|----------------|----------------|
| 2.50<br>(13.5) | 1.01<br>(25.7) | 1.37<br>(35.0) | 0.90<br>(23.0) |



## 2009 Series

### Adaptor Kits with End Plates

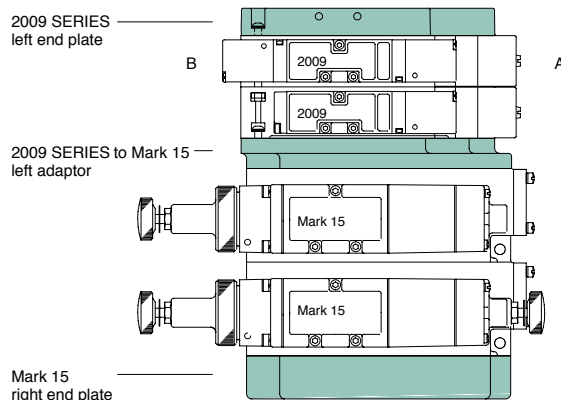
#### 2009 Series LEFT\* of Mark 15 (NPTF) 239-766

Includes kit #239-791 (2009 left adaptor, screws, seals)  
+ 2009 left end plate & Mark 15 right end plate

#### 2009 Series RIGHT\* of Mark 15 (NPTF) 239-767

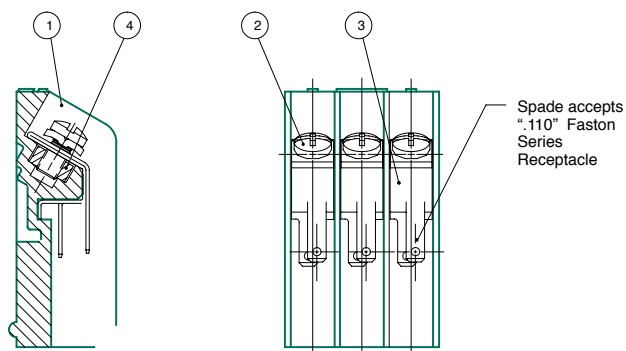
Includes kit #239-792 (2009 right adaptor, screws, seals)  
+ 2009 right end plate & Mark 15 left end plate

\*Left/right when view from the cylinder ports of assembly.



### Terminal Block Kit

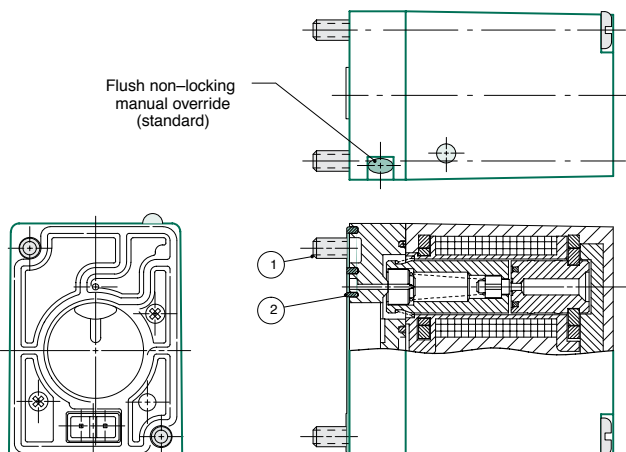
230-719



#### Parts List

| DET. NO. | NO. REQ'D | PART NAME      | PART NO. |
|----------|-----------|----------------|----------|
| 1        | 1         | Terminal Block | 140-580  |
| 2        | 3         | Screw          | 127-689  |
| 3        | 3         | Terminal Clip  | 140-556  |
| 4        | 3         | Nut            | 128-281  |

### Solenoid Pilot Assemblies

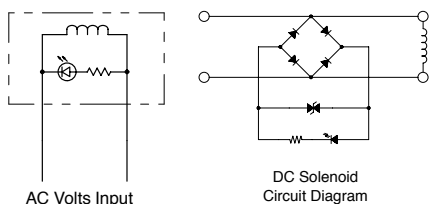


#### Parts List

| DET. NO. | NO. REQ'D | PART NAME | PART NO. |
|----------|-----------|-----------|----------|
| 1        | 2         | Screw     | 127-774  |
| 2        | 1         | Gasket    | 113-465  |

#### Override Description

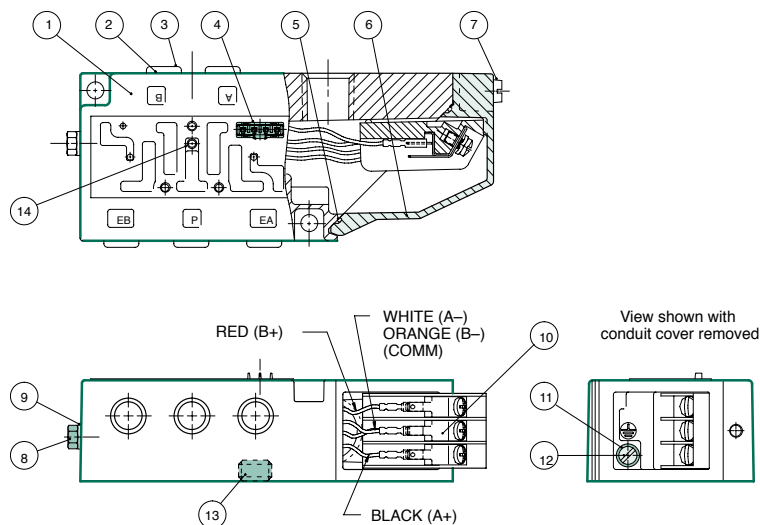
| Override Description                                                  | 120/60 V AC | 24 VDC  |
|-----------------------------------------------------------------------|-------------|---------|
| Flush non-locking override with light (standard)                      | 237-881     | 236-468 |
| Flush locking override with light (add option "011B" to valve number) | 237-880     | 236-230 |



Solenoid Wiring



### Base Assembly Kit



### Parts List

| DET. NO. | NO. REQ'D | PART NAME                  | NPTF PART NO.              | G TAP PART NO.     |
|----------|-----------|----------------------------|----------------------------|--------------------|
| 1        | 1         | Base (not sold separately) |                            |                    |
| 2        | 5**       | Tube Cartridge             | 134-458                    | 134-458            |
| 3        | 3**       | Manual Release Button      | 123-179                    | 123-179            |
| 4        | 1         | Plug-in Receptacle         | 230-718                    | 230-718            |
| 5        | 1         | Gasket                     | 113-463                    | 113-463            |
| 6        | 1         | Conduit Cover              | 105-339                    | 105-339            |
| 7        | 1         | Screw                      | 127-692                    | 127-692            |
| 8        | 1         | Plug                       | 129-127                    | 127-362            |
| 9        | 1         | Gasket                     | —                          | 113-311            |
| 10       | 1         | Terminal Block Assembly    | 230-719                    | 230-719            |
| 11       | 1         | Cup Washer                 | 128-162                    | 128-162            |
| 12       | 1         | Screw                      | 127-176                    | 127-176            |
| 13       | 5~        | Pipe Plug:                 | 1/8 129-100<br>1/4 129-101 | 129-160<br>129-161 |
| 14       | 1         | Plug (M3)                  | 127-693                    | 127-693            |

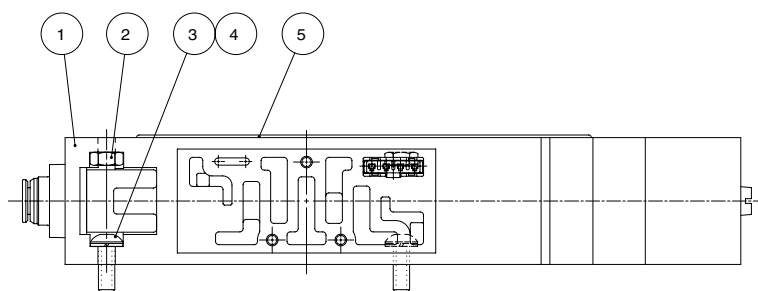
\* Details 8 & 9 omitted on external pilot option.

\*\* 1/4 push-in ports (5)-Base kits #203-852 and 203-866 only.

~ Used on bases with side and bottom ports, individual exhaust only.  
Used only with external pilot supply option.

| BASE DESCRIPTION                                       | 1/8 NPTF | 1/4 NPTF | G 1/8   | G 1/4   | 1/4 PUSH-IN |
|--------------------------------------------------------|----------|----------|---------|---------|-------------|
| 3A & 3C Bases: side ports only, individual exhaust     | 203-854  | 203-853  | 203-856 | 203-855 | 203-852     |
| 3B & 3D Bases: side & bottom ports, individual exhaust | 203-858  | 203-857  | 203-860 | 203-859 | N/A         |
| 3A + external pilot option                             | 203-868  | 203-867  | 203-870 | 203-869 | 203-866     |
| 3B + external pilot option                             | 203-872  | 203-871  | 203-874 | 203-873 | N/A         |

### Flexiblok Manifold Kit



### Parts List

| DET. NO. | NO. REQ'D | PART NAME             | PART NO. |
|----------|-----------|-----------------------|----------|
| 1        | 1         | Valve Block Assy      | 206-1653 |
| 2        | 2         | Nut                   | 128-191  |
| 3        | 2         | Screw                 | 127-697  |
| 4        | 2         | LockWasher            | 128-188  |
| 5        | 1         | Gasket                | 113-466  |
| 6        | 2         | 1/4 Slip-In Cartridge | 134-502  |
|          |           | 6mm Slip-In Cartridge | 134-534  |
|          |           | 8mm Slip-In Cartridge | 134-501  |

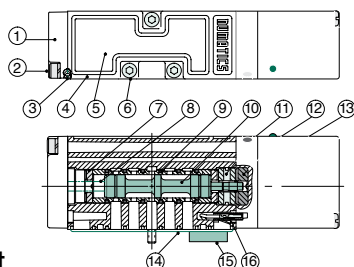
\* Used on #15 Flexibloks only (3 plugs supplied on #15 w/ bottom P port option)

| BASE DESCRIPTION                            | 1/8 NPTF | 1/4 NPTF | G 1/8   | G 1/4   | 1/4 PUSH-IN | 6mm PUSH-IN | 8mm PUSH-IN |
|---------------------------------------------|----------|----------|---------|---------|-------------|-------------|-------------|
| Flexiblok #11: side cylinder ports          | 239-694  | 239-695  | 239-696 | 239-697 | 239-2373    | 239-2374    | 239-2372    |
| Flexiblok #15: side & bottom cylinder ports | 239-698  | 239-699  | 239-700 | 239-701 | N/A         | N/A         | N/A         |
| Flexiblok #15: + bottom P port              | 239-702  | 239-703  | 239-704 | 239-705 | N/A         | N/A         | N/A         |



### Service Kits and Parts - 2 Position

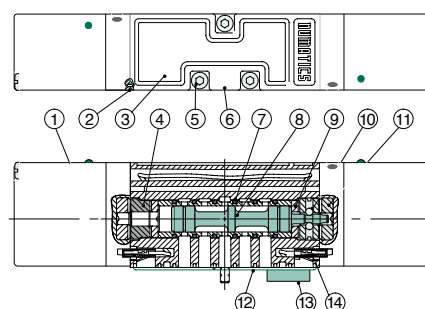
Kit No. 2009-K1 (For Models 091BA4, 092BA4)



#### Parts List

| DET. NO. | NO. REQ'D | PART NAME                        | PART NO.  |
|----------|-----------|----------------------------------|-----------|
| 1        | 1         | Spring Cover                     | 104-537   |
| 2*       | 2         | Screw Assembly                   | 127-564   |
| 3        | 2         | Gasket valve/cover               | 113-465   |
| 4        | 1         | Valve Body (not sold separately) |           |
| 5        | 1         | Nameplate                        | 122-986   |
| 6        | 3         | Screw Assembly                   | 127-694   |
| 7*       | 2         | Bumper                           | 114-181   |
| 8*       | 1         | Spring                           | 115-338   |
| 9*       | 6         | Seals                            | 126-347   |
| 10       | 1         | Spool and Sleeve Assembly        | 209-508   |
| 11*      | 1         | Detent Body                      | 110-135   |
| 12*      | 1         | Spacer                           | 116-447   |
| 13       | 1         | Solenoid Capsule Assembly        | See p. 12 |
| 14*      | 1         | Gasket valve/mounting            | 113-464   |
| 15       | 1         | 3-Wire Plug Assembly             | 230-715   |
| 16       | 1         | Electrical Receptacle            | 140-579   |

Kit No. 2009-K2 (For Models 091BB4, 092BB4)

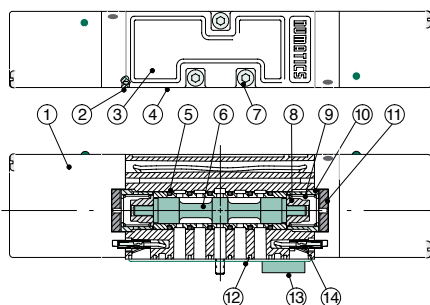


#### Parts List

| DET. NO. | NO. REQ'D | PART NAME                        | PART NO.  |
|----------|-----------|----------------------------------|-----------|
| 1        | 2         | Solenoid Capsule Assembly        | See p. 12 |
| 2*       | 2         | Gasket                           | 113-465   |
| 3        | 1         | Nameplate                        | 122-968   |
| 4*       | 1         | Spacer                           | 116-440   |
| 5        | 3         | Screw Assembly                   | 127-694   |
| 6        | 1         | Valve Body (not sold separately) |           |
| 7*       | 6         | Seals                            | 126-347   |
| 8        | 1         | Spool and Sleeve Assembly        | 209-508   |
| 9*       | 2         | Bumper                           | 114-181   |
| 10*      | 1         | Detent Assembly                  | 210-138   |
| 11*      | 2         | Spacer                           | 116-447   |
| 12*      | 1         | Gasket valve/mounting            | 113-464   |
| 13       | 1         | 5-Wire Plug Assembly             | 230-716   |
| 14       | 2         | Electrical Receptacle            | 140-579   |

### 2 Position

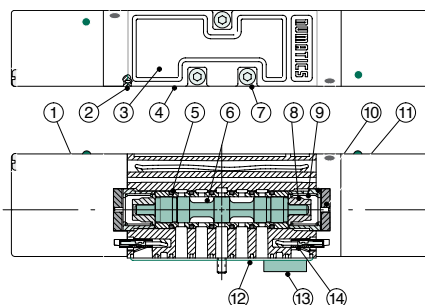
Kit No. 2009-K3 (For Models 091BB5, 092BB5)



#### Parts List

| DET. NO. | NO. REQ'D | PART NAME                        | PART NO.  |
|----------|-----------|----------------------------------|-----------|
| 1        | 2         | Solenoid Capsule Assembly        | See p. 12 |
| 2*       | 2         | Gasket                           | 113-465   |
| 3        | 1         | Nameplate                        | 122-968   |
| 4        | 1         | Valve Body (not sold separately) |           |
| 5*       | 6         | Seal                             | 126-347   |
| 6        | 1         | Spool and Sleeve Assembly        | 209-509   |
| 7        | 3         | Screw Assembly                   | 127-694   |
| 8        | 2         | Spring Retainer                  | 116-438   |
| 9*       | 2         | Spring                           | 115-340   |
| 10*      | 2         | Spacer                           | 116-439   |
| 11*      | 2         | Bumper                           | 114-180   |
| 12*      | 1         | Gasket                           | 113-464   |
| 13       | 1         | 5-Wire Plug Assembly             | 230-716   |
| 14       | 2         | Electrical Receptacle            | 140-579   |

Kit No. 2009-K3 (For Models 091BB6, 092BB6)



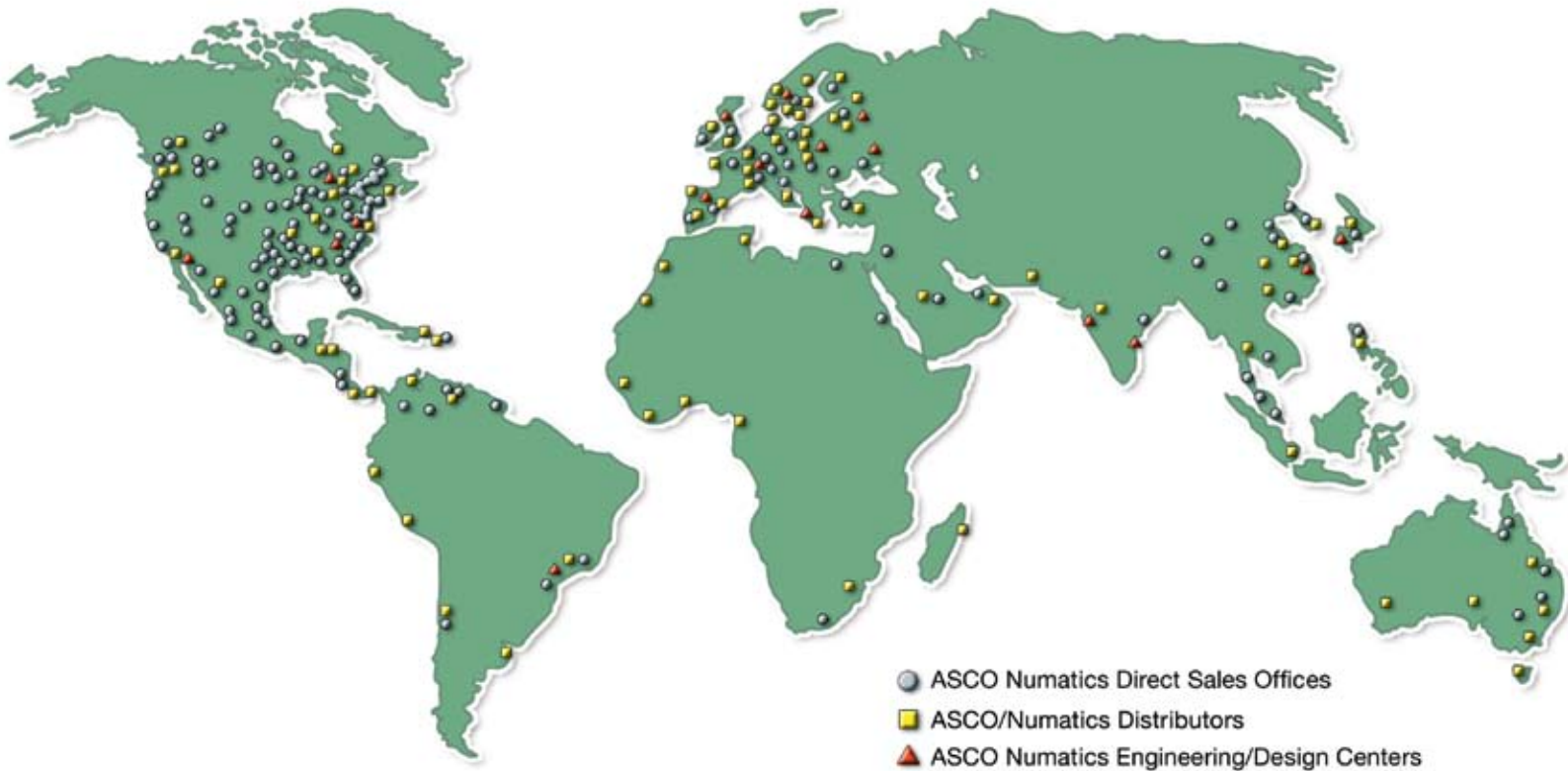
#### Parts List

| DET. NO. | NO. REQ'D | PART NAME                        | PART NO.  |
|----------|-----------|----------------------------------|-----------|
| 1        | 2         | Solenoid Capsule Assembly        | See p. 12 |
| 2*       | 2         | Gasket                           | 113-465   |
| 3        | 1         | Nameplate                        | 122-968   |
| 4        | 1         | Valve Body (not sold separately) |           |
| 5*       | 6         | Seal                             | 126-347   |
| 6        | 1         | Spool and Sleeve Assembly        | 209-510   |
| 7        | 3         | Screw Assembly                   | 127-694   |
| 8        | 2         | Spring Retainer                  | 116-438   |
| 9*       | 2         | Spring                           | 115-340   |
| 10*      | 2         | Spacer                           | 116-439   |
| 11*      | 2         | Bumper                           | 114-180   |
| 12*      | 1         | Gasket                           | 113-464   |
| 13       | 1         | 5-Wire Plug Assembly             | 230-716   |
| 14       | 2         | Electrical Receptacle            | 140-579   |

\*Indicates parts included in kit. Spool and sleeve assemblies are precision matched sets and include (6) 126-347 seals; spools are not interchangeable.

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