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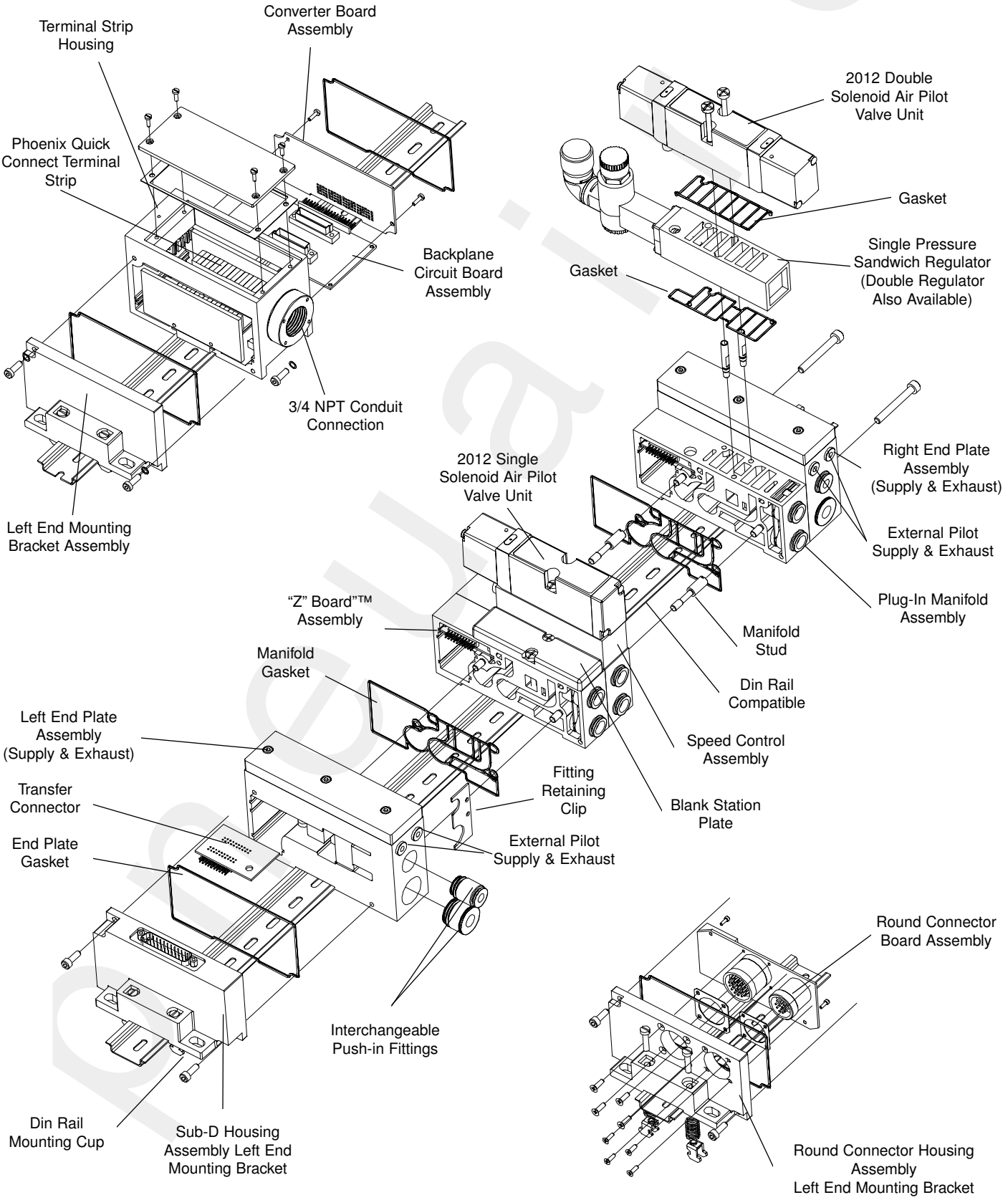
Find the *Emerson / Numatics 2012 Series* at our website: ***Click HERE***

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Terminal Strip. Sub-D, and Round Connector Options

(exploded view)



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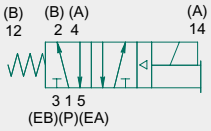
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numatics®

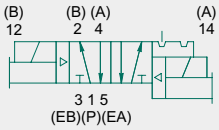


2012 Series

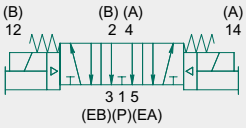
single solenoid air pilot
2 position 4-way



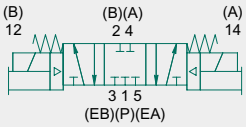
double solenoid air pilot
2 position 4-way



double solenoid air pilot
3 position 4-way
open center



double solenoid air pilot
3 position 4-way
closed center



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

- Solenoid air pilot actuated
- Low wattage plug-in – 2.5 watt for DC application
- DC solenoids polarity insensitive with surge suppression
- Plug together circuit boards eliminate internal wiring
- Integral recessed gaskets
- Interchangeable push-in fittings to accommodate various tube sizes
- Simple conversion from internal to external pilot
- Modular plug-together Fieldbus electronics
- NEMA 4/IP65

CE CSA

Technical Data

VALVE DATA	ENGLISH	METRIC
Cv	1.20	1.20
Flow Capacity	56 SCFM @ 80 PSIG upstream pressure to atmosphere	1180 Nl/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

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How to Order

Valves

122 BB 4 Z6 M L 000 61

Valve Series & Port Size
122* = 1/4
123 = 3/8
12H = 8mm
12K = 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
P = Blank Station

Mounting
00 = Valve Unit only
3A = Individual Base, Side Ports, Individual Exhaust
3C = 3A 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

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

Port Type
L = Push-in Fitting
N = NPTF
G = G Tap
O = Valve Unit only

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

Voltage
20 = 24/50-60 VAC
30 = 110-120/50-60 VAC
60 = 12 VDC
61 = 24 VDC

NOTE:
Manifold assembly kit ordering information for:
- Electrical interface options *see page 42.*
- Fieldbus electronics see Electronics section.

Regulators

122 RS 3 Z1 J L 000 00

Valve Series & Port Size
122* = 1/4
123 = 3/8
12H = 8mm
12K = 10mm
*Use for regulator unit only (Mounting = 00).

Regulator Type
RS = Single Pressure to Port 1 (P)
RD = Dual Pressure to Ports 3 (EB) & 5 (EA)
RC = Dual Pressure w/Non-relieving Checks
RQ = Dual Pressure w/Relieving Checks
RE = Dual Pressure to Ports 4 (A) & 2 (B)
RT = 2 Pressure Selector
*For metric gauge, replace R with E in 4th digit.

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

Mounting
00 = Regulator Unit Only
3A = Individual Base, Side Ports, Individual Exhaust
3C = 3A 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
Z0 = Manifold Block w/Side and Bottom Ports, Transfer Board, 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

Wiring Option
J = Plug-In Receptacle Ass'y
O = Non-Plug-In (Type RE only)

Port Type
L = Push-In
N = NPTF
G = G Tap

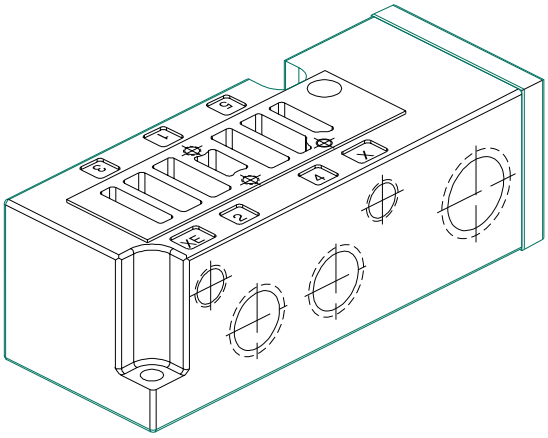
Special Options
12H = Less gauge
16N = Jumper on 14 (A) End
16P = Jumper on 12 (B) End
16W = Top Facing Gauge

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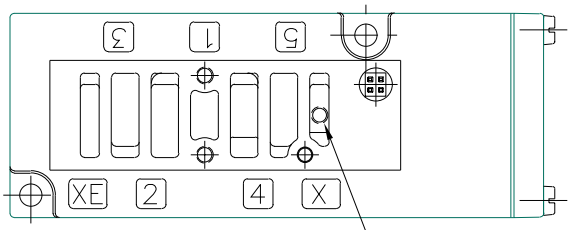


Individual Base Assembly Kit



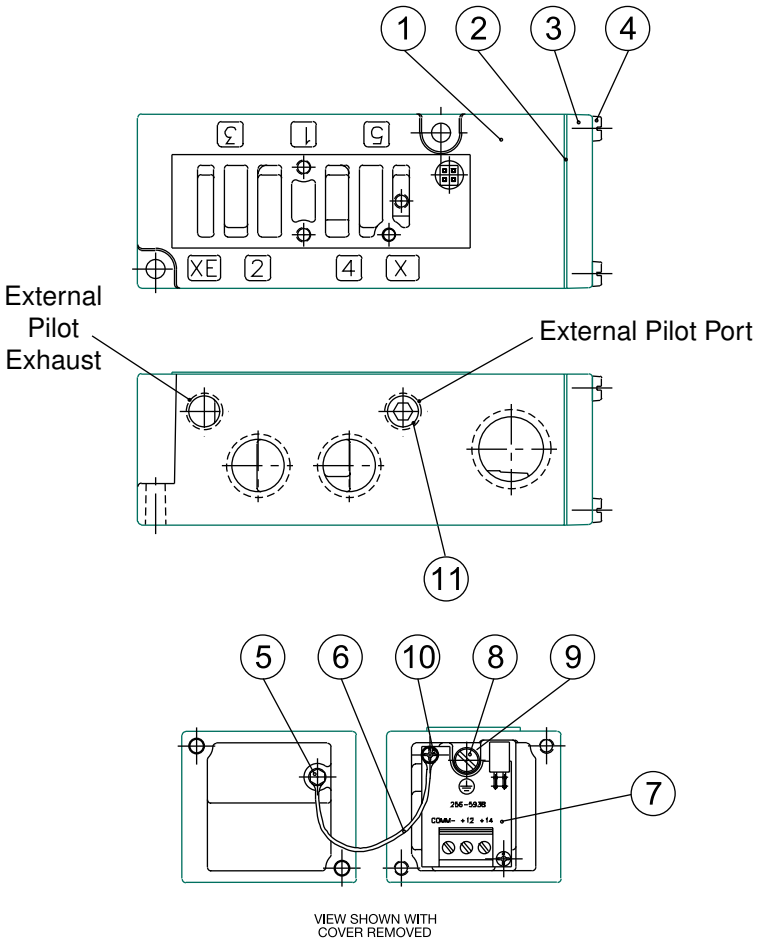
PORT SIZE	PART NO.
1/4 NPTF	203-1100
3/8 NPTF	203-1101
1/4 G	203-1137
3/8 G	203-1138

Internal/External Pilot Selection



M4 Pilot Port Location
(plug# 127-691 order separately)

Note: Base assemblies are supplied set up for internal pilot supply. To convert to external pilot supply install plug P.N. 127-691 (sold separately) in the “X” gallery as indicated above. Remove the 1/8 NPTF pipe plug from the “X” port to supply pilot pressure.



VIEW SHOWN WITH
COVER REMOVED

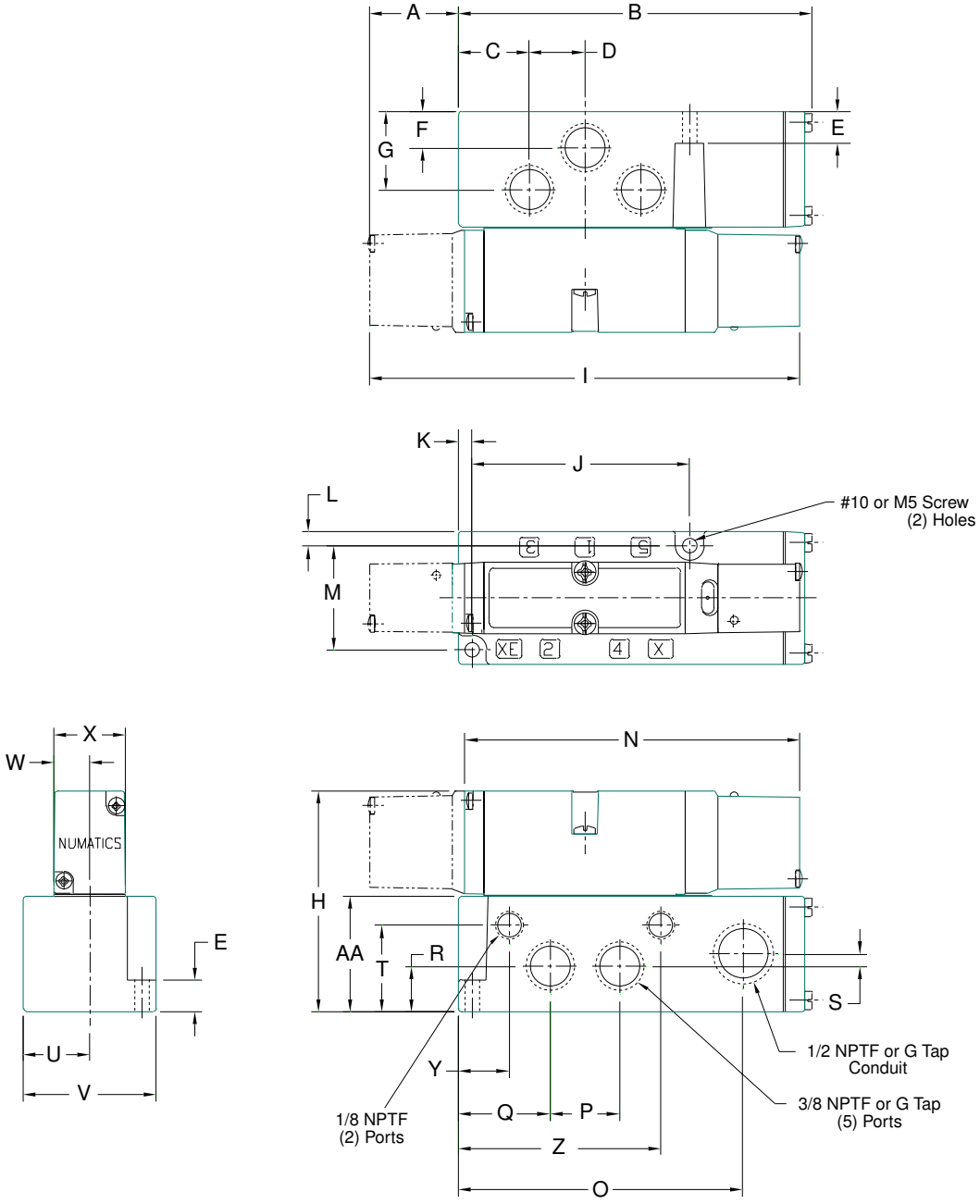
DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	1	Base (not sold separately)	
2	1	Gasket	113-528
3	1	Cover	105-397
4	2	Screw	127-850
5	1	Screw	127-172
6	1	Strap	125-772
7	1	Terminal Strip Ass'y	256-593
8	1	Screw	127-176
9	1	Washer	128-162
10	2	Screw	127-318
11	1	1/8 NPTF Pipe Plug	129-100

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Valve on Individual Base



Dimensions

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

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1.27 (32.3)	5.14 (130.6)	1.03 (26.3)	0.81 (20.6)	0.46 (11.7)	0.53 (13.5)	1.14 (29.0)	3.21 (81.5)	6.26 (159.0)	3.16 (80.3)	0.20 (5.1)	0.21 (5.3)	1.51 (38.4)	5.00 (127.0)	4.14 (105.2)	1.00 (25.4)

Q	R	S	T	U	V	W	X	Y	Z	AA
1.33 (33.8)	0.65 (16.5)	0.18 (4.6)	1.25 (31.8)	0.97 (24.6)	1.93 (49.0)	0.52 (13.2)	1.04 (26.4)	0.69 (17.7)	2.94 (74.7)	1.67 (42.4)

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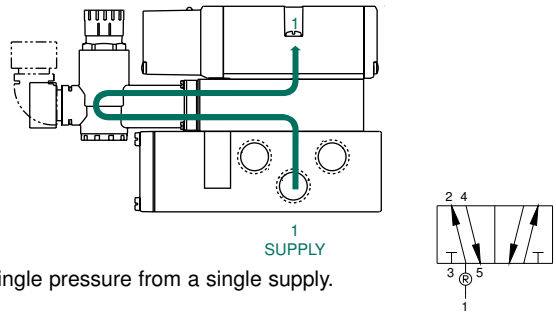
Sandwich Pressure Regulators
Types: RS / RD / RC / RQ / RE / RT



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.”

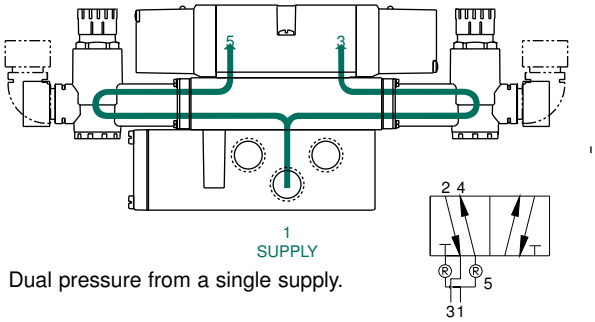
Example orders:	Type RS	Type RD
Valve unit only:	122BA400K000030	122BB400M000061
Regulator +mounting	122RS1Z1JN00000 ASSEMBLED	122RD1Z2JN00000 ASSEMBLED

Type RS



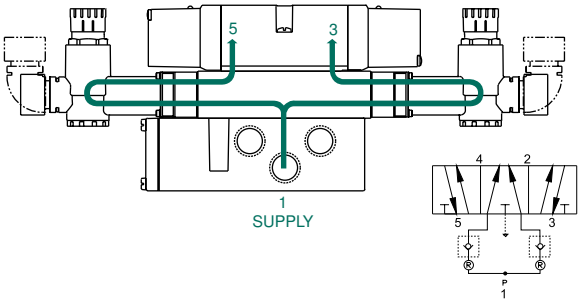
Single pressure from a single supply.

Type RD



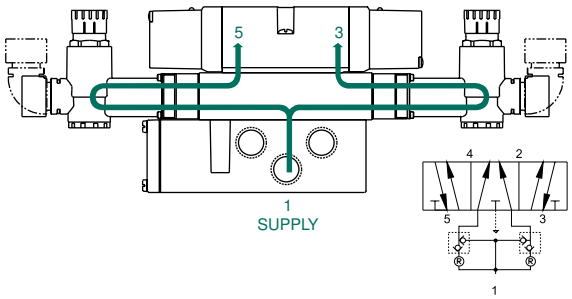
Dual pressure from a single supply.

Type RC



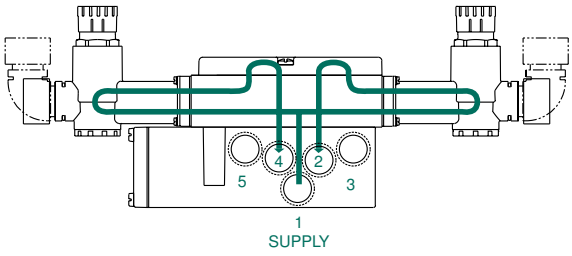
Type RC is Non-Relieving:
traps downstream pressure if upstream pressure is exhausted.

Type RQ



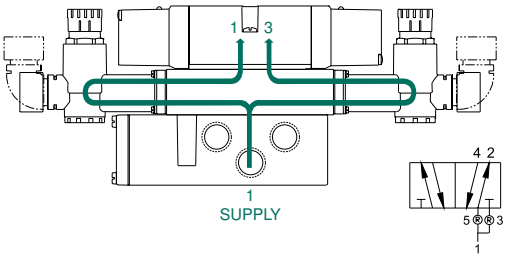
Type RQ is Relieving:
exhausts pressure in cylinder if upstream pressure is exhausted.

Type RE



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

Type RT



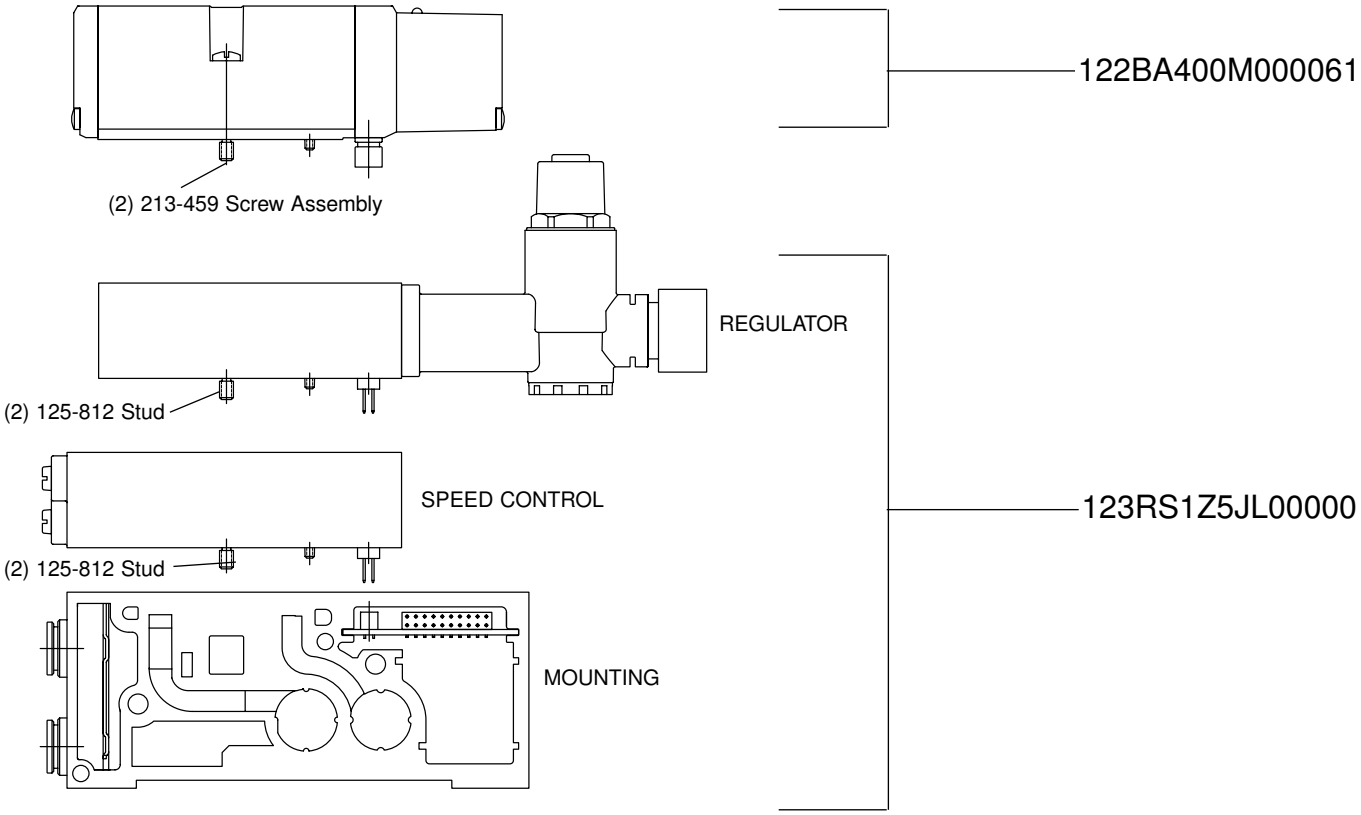
Two-pressure selector used for multi-pressure applications.

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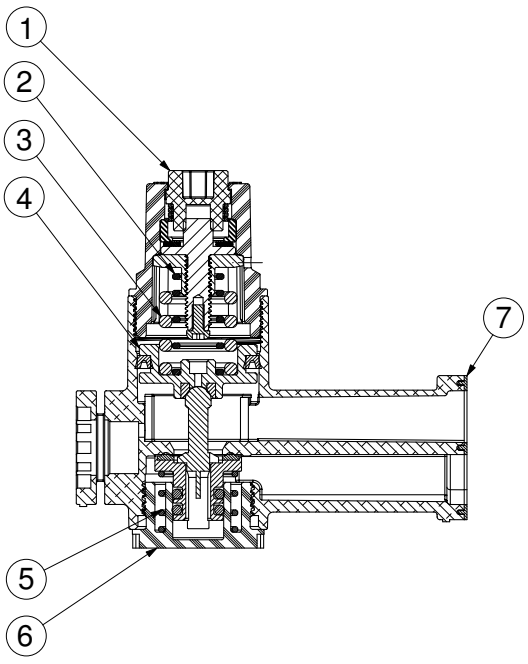
Valve Regulator / Speed Control Plug-in Assembly



Refer to *page 22* for ordering codes.

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

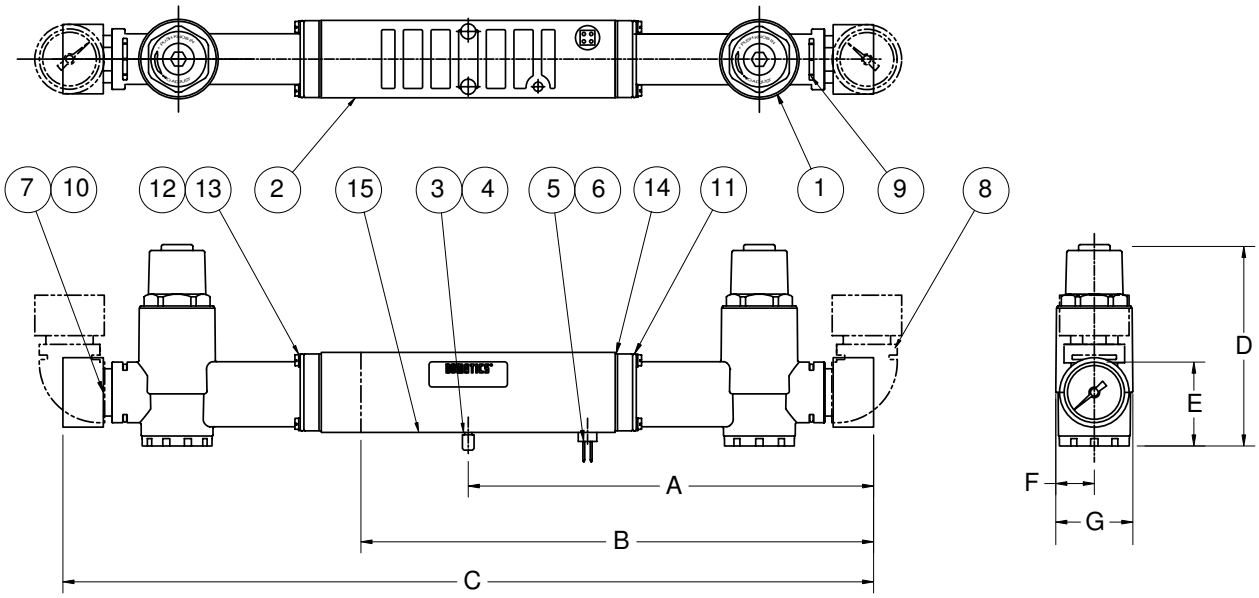
DET. NO.	NO. REQ'D	PART NAME
1	1	Bonnet
2	1	Spring
3	1	Spring
4	1	Piston Assembly
5	1	Spring
6	1	Cap
7	1	Gasket

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Sandwich Pressure Regulator



Dimensions

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

A	B	C	D	E	F	G
5.48 (139.2)	6.94 (176.3)	10.97 (278.6)	2.7 (68.6)	1.14 (29.0)	0.52 (13.2)	1.04 (26.4)



Shown with "16W" option (90º elbow)

Gauge Kit

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

Elbow Kit	239-1217
Gauge Adaptor Kit 1/8 NPTF	239-1561

Parts List

DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	2*	Regulator	*See p. 26*
2	1	Single riser block	125-798
2	1	Double riser block	125-799
3	2	O-Ring	126-528
4	2	Stud	125-812
5	1	Screw	127-318
6	1	Plug-Assembly	230-904
7	2*	Gauge 160 PSI max.	214-212
7	2*	Gauge 11 bar max.	214-213
7	2*	Gauge 60 PSI max.	214-217
7	2*	Gauge 4 bar max.	214-218
8	2*	Elbow	134-505
9	4**	Pin	131-236
10	4**	O-Ring	126-105
12	8***	Screw	127-960
13	8***	Lockwasher	128-172
14	2*	Gasket	113-535
15	1	Gasket	113-534

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

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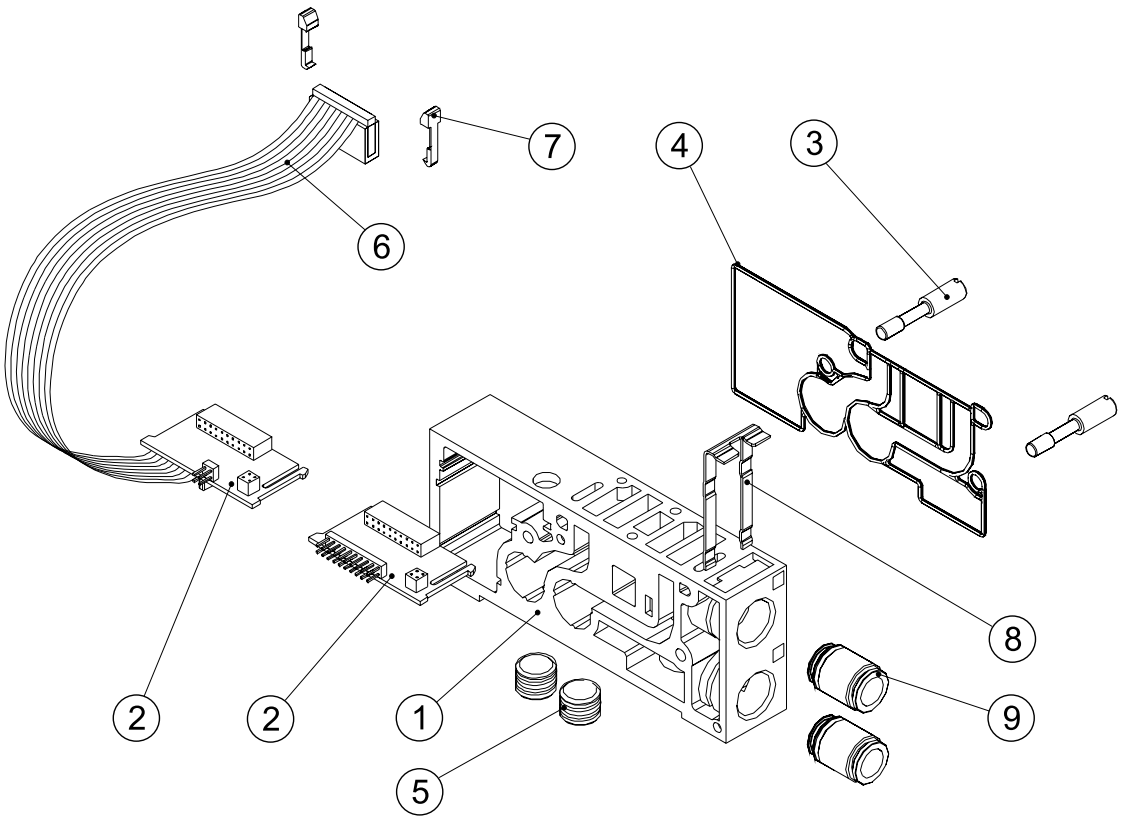
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Manifold Assemblies





DET. NO.	NO REQ'D	PART NAME	PART NO.
1	1	Manifold Block (not sold separately)	
2 *	1	"Z-Board"™	*See p. 34*
3	2	Stud	125-813
4	1	Gasket	113-537
5	2	Pipe Plug, 1/4 NPTF	129-101
5	2	Pipe Plug, 1/4 G	129-161
6	1	Ribbon Cable Ass'y	230-905
7	2	Snap In Latch	140-721
8	1	Retaining Clip	125-751
9	2	Push-in Fitting	*See p. 33*

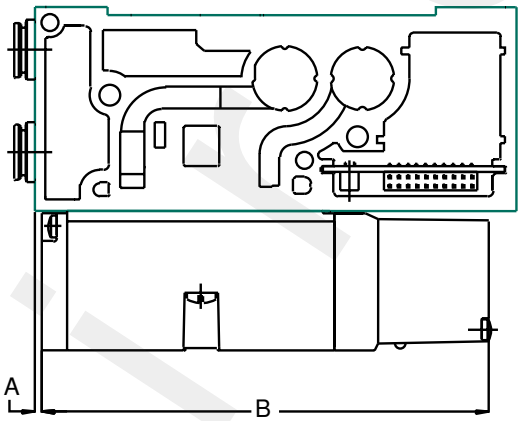
MANIFOLD ASSEMBLY KITS								
Side Cylinder Ports	1/4 NPTF	3/8 NPTF	G 1/4	G 3/8	1/4 Push-in	3/8 Push-in	8mm Push-in	10mm Push-in
Bottom Cylinder Ports	1/4 NPTF	1/4 NPTF	G 1/4	G 1/4	1/4 NPTF	1/4 NPTF	G 1/4	G 1/4
Single "Z-Board"™	206-1272	206-1271	206-1256	206-1255	206-1273	206-1274	206-1257	206-1258
Double "Z-Board"™	206-1280	206-1279	206-1264	206-1263	206-1281	206-1282	206-1265	206-1266
Single "Z-Board"™ w/Ribbon Cable	206-1276	206-1275	206-1260	206-1259	206-1277	206-1278	206-1261	206-1262
Double "Z-Board"™ w/Ribbon Cable	206-1284	206-1283	206-1268	206-1267	206-1285	206-1286	206-1269	206-1270

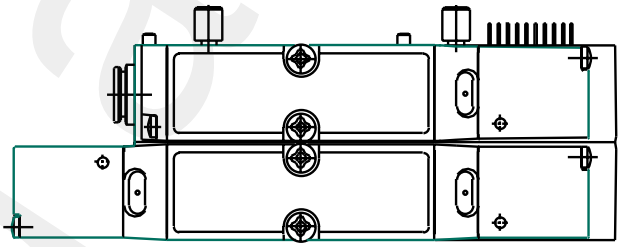
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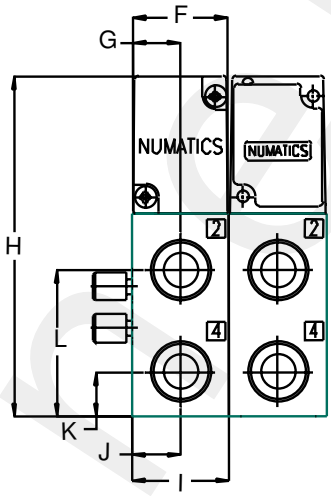
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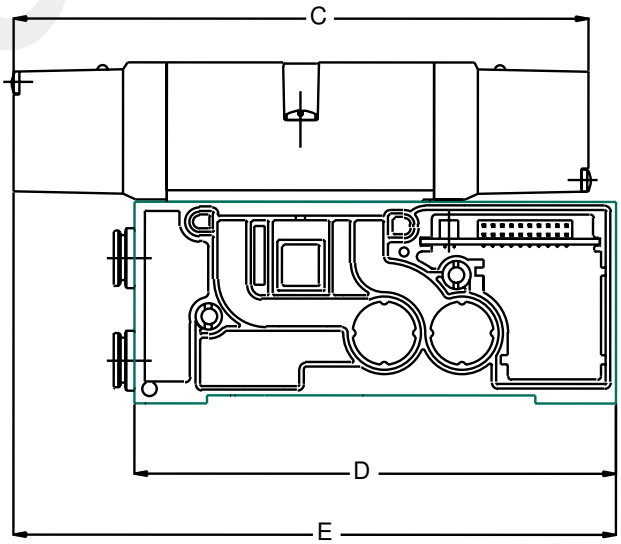


Valve on Manifold Block









Dimensions

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

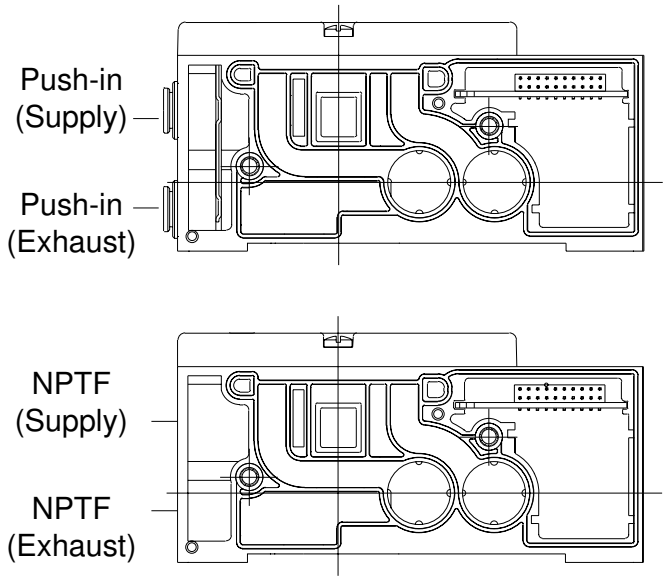
A	B	C	D	E	F	G	H	I	J	K	L
0.07 (1.8)	4.87 (123.7)	6.26 (159.0)	5.25 (133.3)	6.57 (166.9)	1.04 (26.4)	0.52 (13.2)	3.72 (94.5)	1.06 (27.0)	0.55 (14.0)	0.47 (11.9)	1.59 (40.4)

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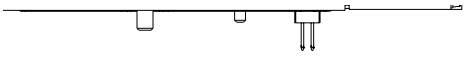
Mid-Station Supply and Exhaust Block

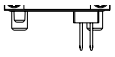


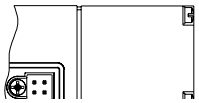
Mid-Station Supply & Exhaust Block Kits

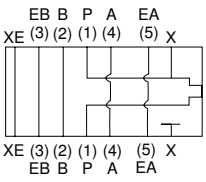
FITTING TYPE	PART NO.
NPTF 3/8	239-1330
G 3/8	239-1331
3/8 Push-in	239-1332
10mm Push-in	239-1333

Sandwich Shut Off Block 239-1585









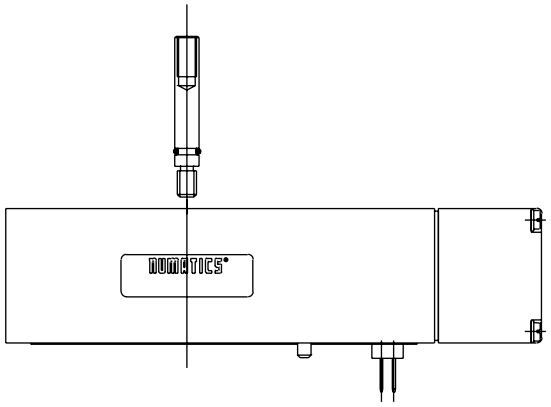
- Used to shut-off pressure to the valve which is mounted above it.
- Allows easy maintenance without the need to shut-off pressure to the whole manifold.

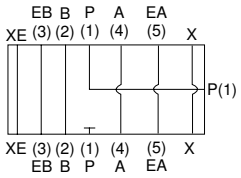
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Sandwich Pressure Block



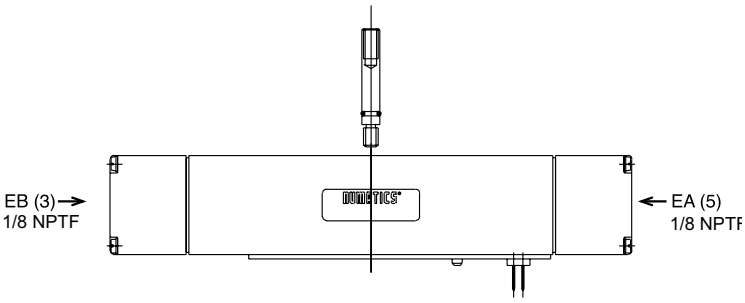


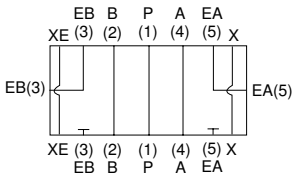
- Used to supply a separate pressure to a single valve station without needing blocking disks.

Sandwich Pressure Block Kit

PORT TYPE	PART NO.
NPTF 1/4	239-1422
G 1/4	239-1436

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	239-1554
G 1/4	239-1556

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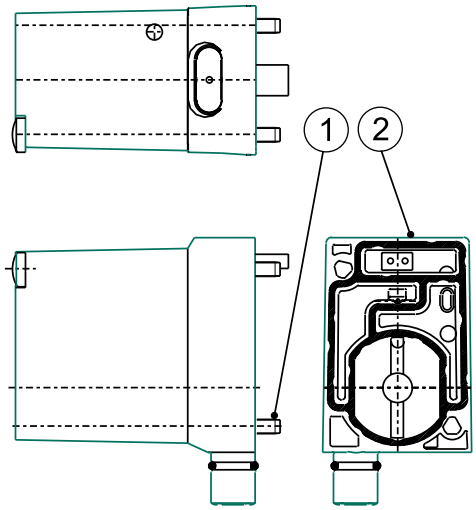
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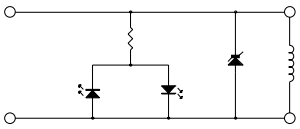
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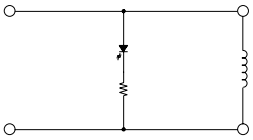
Solenoid Pilot Assembly



DESCRIPTION	12 VDC	24 VDC	24 VAC	120 VAC
14 end, push non-locking override	236-417	236-356	237-1070	237-1079
12 end, push non-locking override	236-418	236-357	237-1071	237-1080
14 end, turn & lock override	236-420	236-359	237-1073	237-1082
12 end, turn & lock override	236-421	236-360	237-1074	237-1083
14 end, no override	236-423	236-362	237-1076	237-1085
12 end, no override	236-424	236-363	237-1077	237-1086



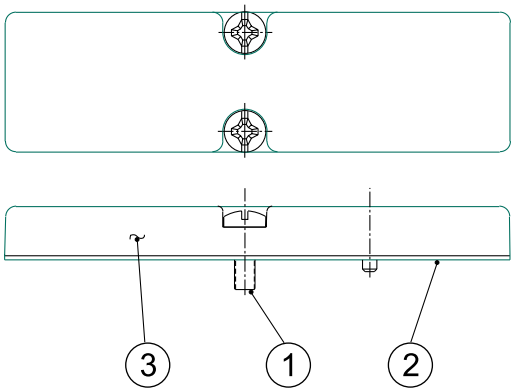
DC Solenoid
Circuit Diagram



AC Solenoid
Circuit Diagram

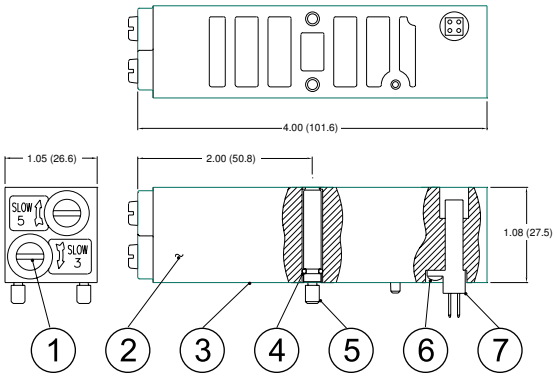
DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	1	Gasket	113-373
2	2	Screw	127-823

Blank Station Plate Kit 239-1390



DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	2	Screw	127-876
2	1	Gasket	113-534
3	1	Blank Station Plate	104-726

Speed Control Kit 239-1260



DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	2	Metering Screw	118-178
Not Shown	2	Nylon Rod	125-131
2	1	Speed Control Body	119-632
3	1	Gasket	113-534
4	2	O-Ring	126-528
5	2	Stud	125-812
6	1	Screw	127-318
7	1	Plug Assembly	230-904

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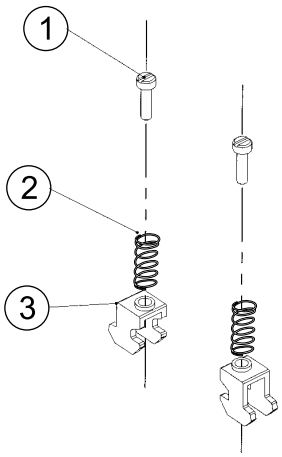


Interchangeable Push-in Cartridge Fittings



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

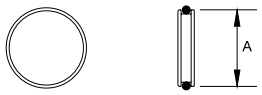
DIN Rail Clamp Kit 239-980



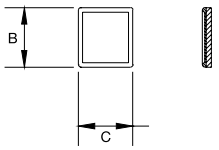
DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	4	Screw	127-472
2	4	Spring	115-355
3	4	Clamp	125-720

Blocking Discs

Port 3/5



Port 1



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

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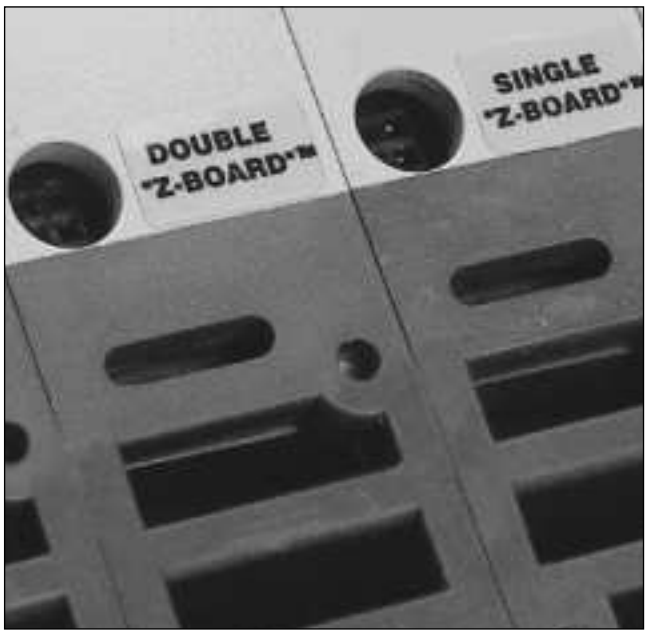
"Z-Board"™





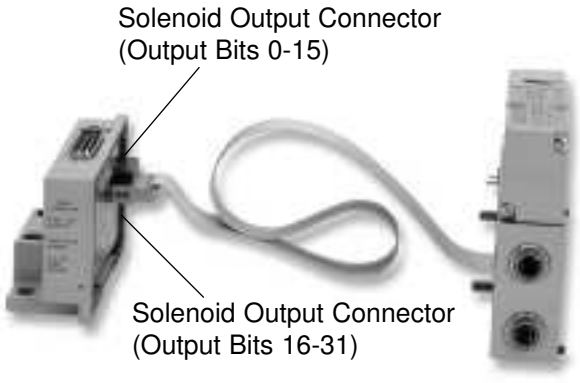
MANIFOLD "Z - BOARD"	PART NO.
Single "Z-Board"™	256-640
Double "Z-Board"™	256-641
Single "Z-Board"™ w/ribbon connector (excludes cable)*	256-642
Double "Z-Board"™ w/ribbon connector (excludes cable)*	256-643

*Used only with ribbon cable and solenoid output connector (Bits 16-31).



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

Ribbon Cable Assembly Kit 239-1336



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

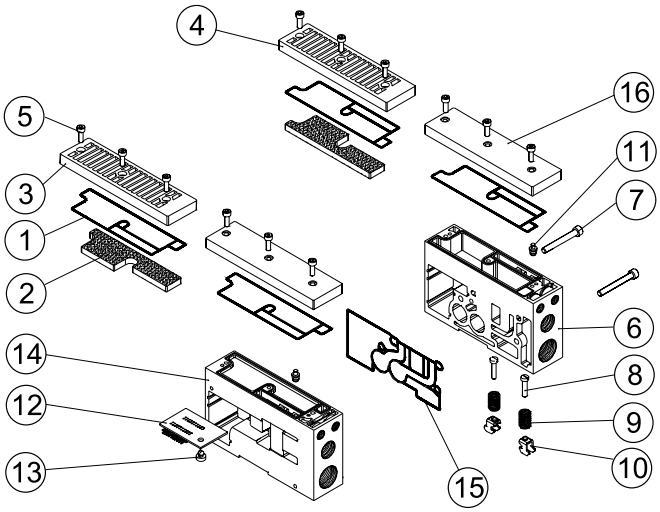
Ribbon cable option used for manifold assemblies that exceed 16 solenoid outputs.

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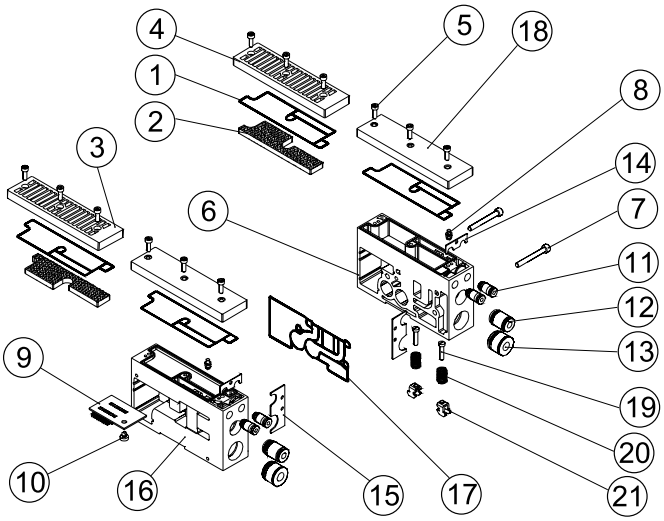


End Plate Kit - Threaded



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	256-644
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	256-644
10	1	Retention Pin	125-845
11	4	Push-in Fittings	*See p. 33*
12	2	Push-in Fittings	*See p. 33*
13	2	Push-in Fittings	*See p. 33*
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	239-1236			239-1240			239-1247			239-1248			239-1255			239-1256		
Kit w/o muffler, w/ DIN Rail	239-1235			239-1239			239-1245			239-1246			239-1253			239-1254		
Kit w/ muffler, w/o DIN Rail	239-1234			239-1238			239-1243			239-1244			239-1251			239-1252		
Kit w/ muffler, w/ DIN Rail	239-1233			239-1237			239-1241			239-1242			239-1249			239-1250		

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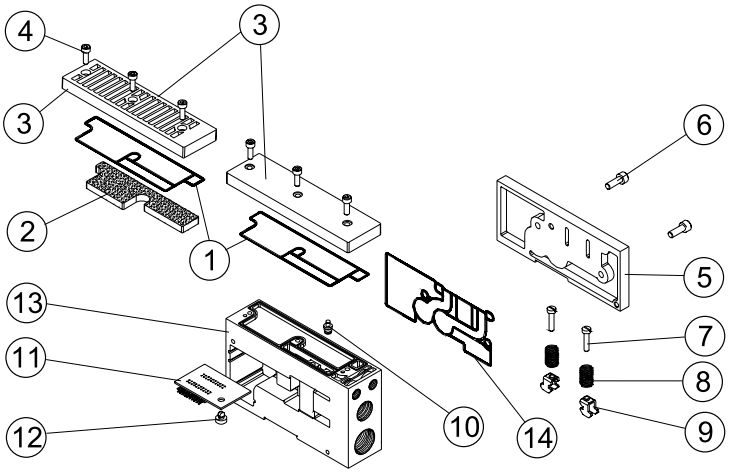
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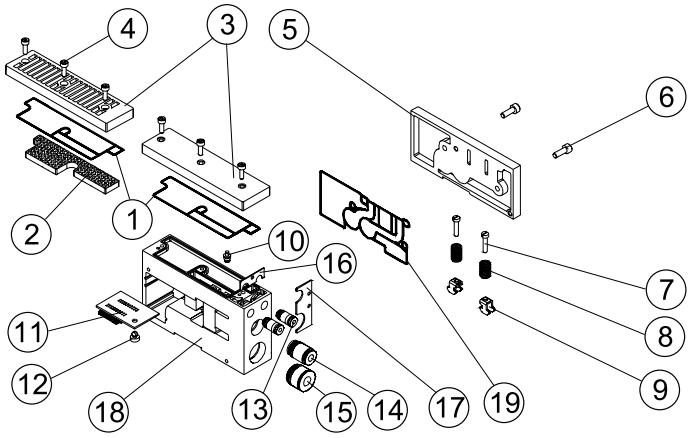


End Plate Kit with LH Ports Only - Threaded



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	256-644
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	256-644
12	1	Retention Pin	125-845
13	2	Push-in Fittings	*See p. 33*
14	1	Push-in Fittings	*See p. 33*
15	1	Push-in Fittings	*See p. 33*
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

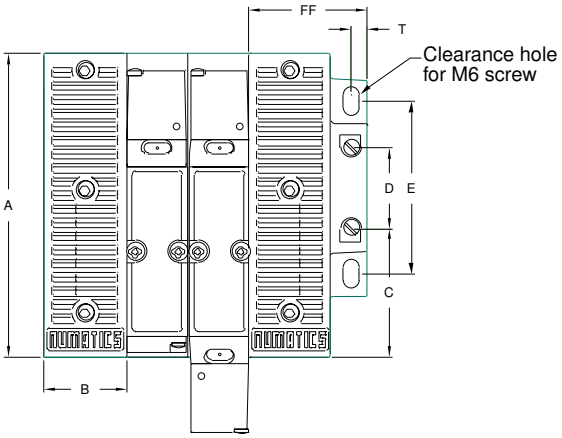
PORT TYPE	NPTF			ISO228/1-G			PUSH-IN			PUSH-IN			PUSH-IN			PUSH-IN		
PORT	1	3/5	X, XE	1	3/5	X, XE	1	3/5	X, XE	1	3/5	X, XE	1	3/5	X, XE	1	3/5	X, XE
PORT SIZE	3/8	1/2	1/8	3/8	1/2	1/8	1/4	3/8	1/4	3/8	1/2	1/4	8mm	12mm	6mm	10mm	14mm	6mm
LH Ports Only Kit w/o muffler, w/o DIN Rail	239-1688			239-1692			239-1699			239-1700			239-1707			239-1708		
LH Ports Only Kit w/o muffler, w/ DIN Rail	239-1687			239-1691			239-1697			239-1698			239-1705			239-1706		
LH Ports Only Kit w/ muffler, w/o DIN Rail	239-1686			239-1690			239-1695			239-1696			239-1703			239-1704		
LH Ports Only Kit w/ muffler, w/ DIN Rail	239-1685			239-1689			239-1693			239-1694			239-1701			239-1702		

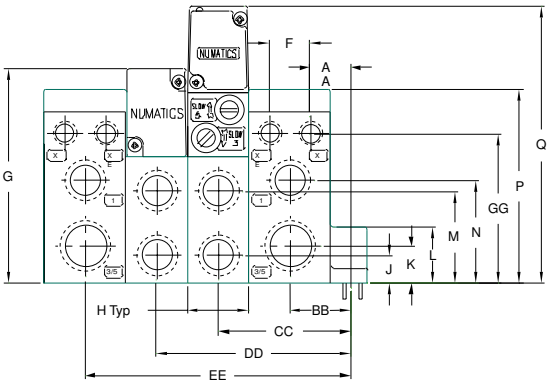
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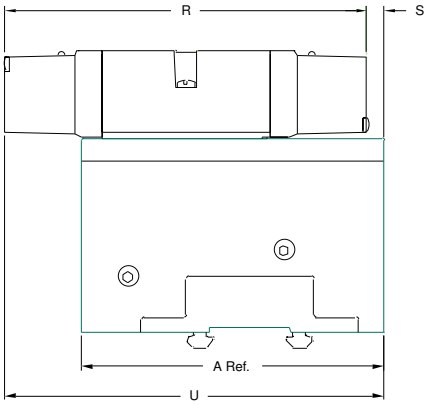
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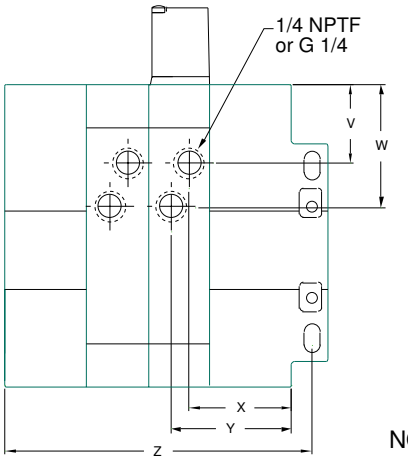


Manifold Assembly









NOTE:

- For Electrical Interface option dimensions see Electronics section.
- For Fieldbus Electronics dimensions see Electronics section.

Dimensions

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

A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U
5.25 (133.3)	1.42 (36.0)	2.16 (55.0)	1.50 (38.1)	3.02 (76.8)	0.71 (18.0)	3.71 (94.3)	1.06 (27.0)	0.47 (12.1)	0.63 (16.0)	0.97 (24.5)	1.59 (40.3)	1.77 (45.0)	3.35 (85.0)	4.80 (121.9)	6.26 (159.0)	0.30 (7.6)	0.29 (7.4)	6.56 (166.6)

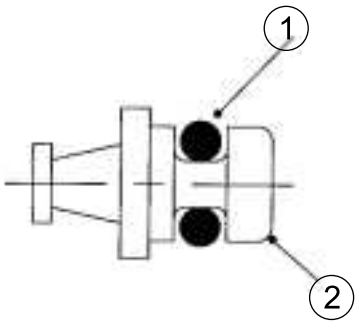
V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG
1.42 (36.1)	2.12 (53.8)	1.78 (45.2)	2.10 (53.3)	5.30 (134.6)	0.70 (17.8)	1.05 (26.7)	2.29 (58.2)	3.35 (85.1)	4.55 (115.6)	2.05 (52.0)	2.57 (65.4)

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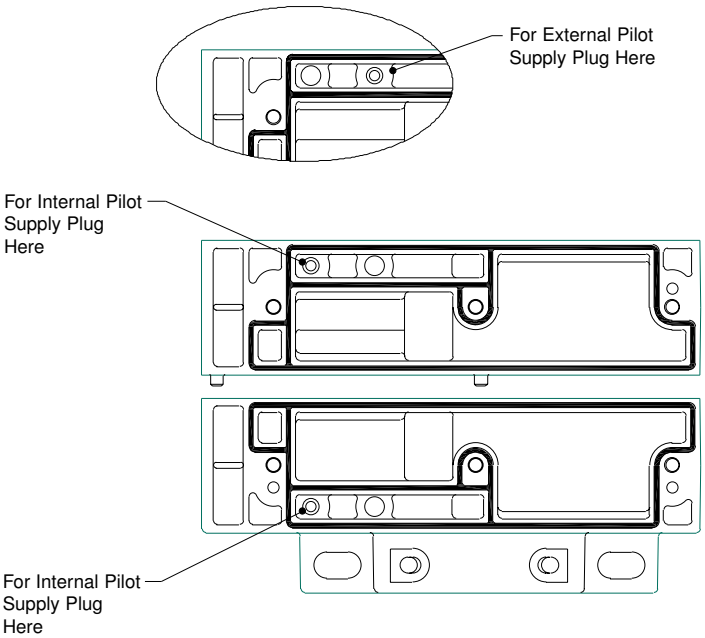


Internal Pilot Plug 213-497

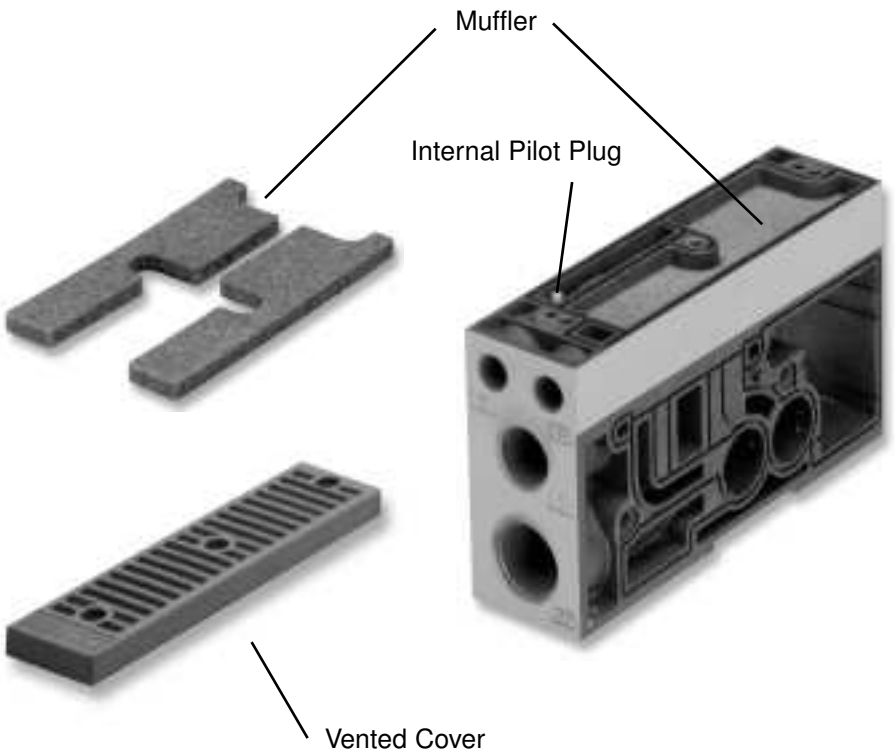


DET. NO.	NO. REQ'D	PART NAME	PART NO.
1	1	Plug	125-820
2	1	O-Ring	126-471

Internal/External Pilot Selection



Internal Muffler 125-851



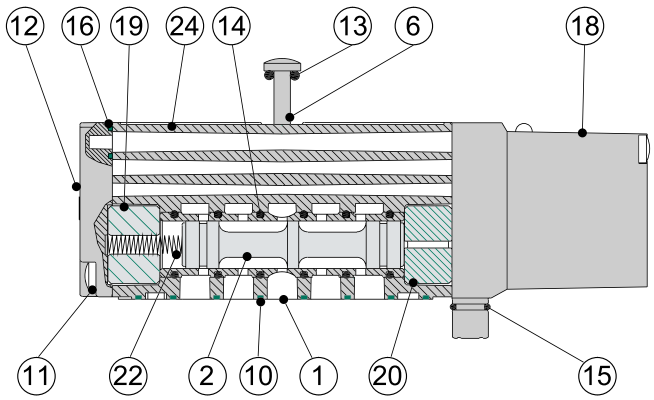
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Valve Service Kits and Parts

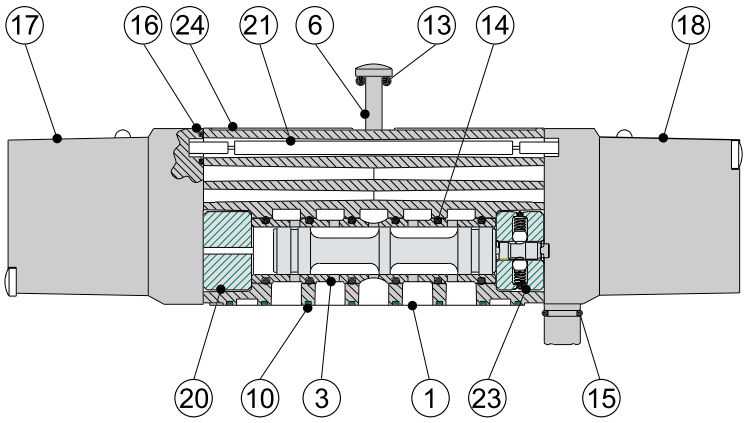
Kit No. 2012-K1*
(For Models 122BA4, 123BA4, 12HBA4, 12KBA4)



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 Assembly	213-459
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	*	2	2	Gasket Adaptor/Body	113-373
17		N/A	1	Solenoid Pilot - 12 End	*See p. 32*
18		1	1	Solenoid Pilot - 14 End	*See p. 32*
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	230-915
22	*	1	N/A	Spring	115-271
23	*	N/A	1	Detent Assembly	210-128
24		1	1	Nameplate	122-1074

*Indicates parts included in service kit.

Kit No. 2012-K2*
(For Models 122BB4, 123BB4, 12HBB4, 12KBB4)



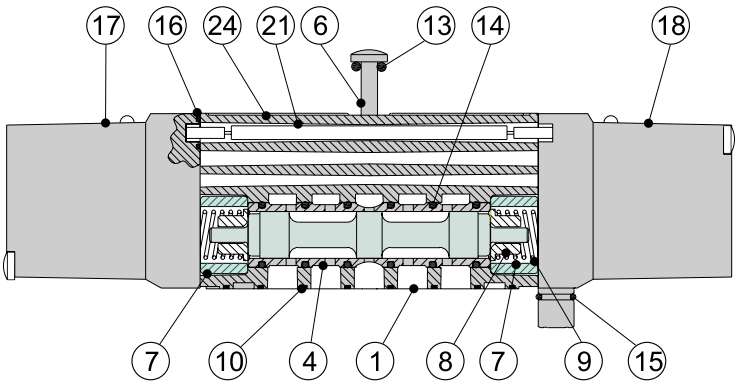
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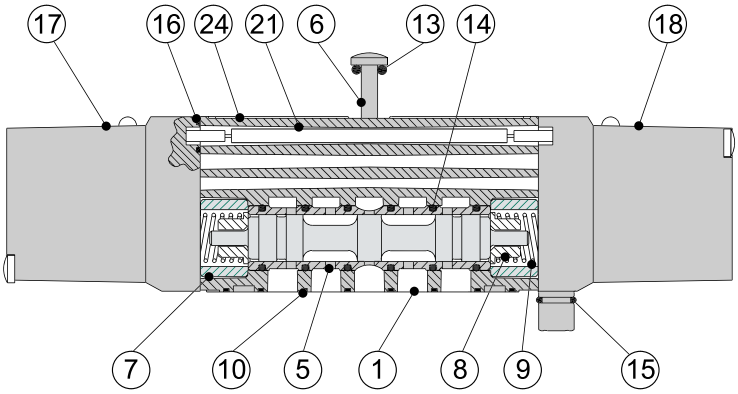
Kit No. 2012-K3*
(For Models 122BB5, 123BB5, 12HBB5, 12KBB5)



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 Assembly	213-459
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 *	2	2	Gasket Adaptor/Body	113-373
17	1	1	Solenoid Pilot - 12 End	*See p. 32*
18	1	1	Solenoid Pilot - 14 End	*See p. 32*
21	1	1	14-12 Recepticle	230-915
24	1	1	Nameplate	122-1074

*Indicates parts included in service kit.

Kit No. 2012-K3*
(For Models 122BB6, 123BB6, 12HBB6, 12KBB6)



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