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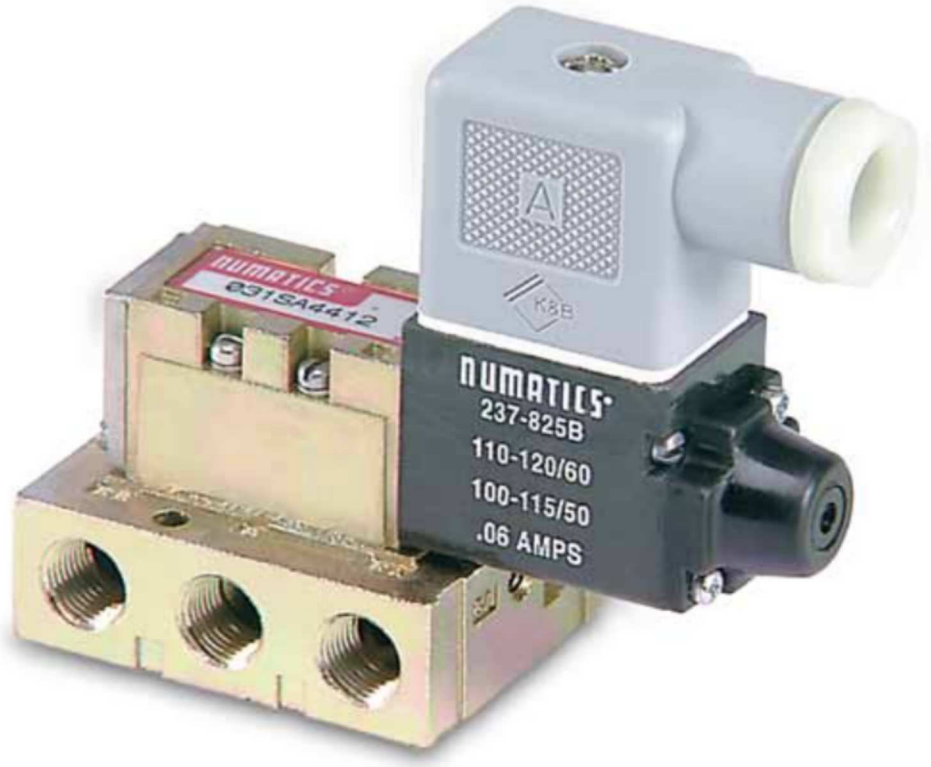
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Find the *Emerson / Numatics 031PA4000* at our website: *Click HERE*

numatics®

Mark 3, PA 3, and SPA 3 Series

Direct Solenoid Air Pilot, or Solenoid Pilot Actuated Valves





www.numatics.com

EMERSON
Industrial Automation

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Mark 3, SPA 3 & PA 3 Series

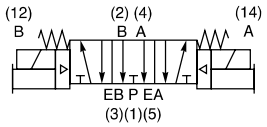
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5 Ported, 2 and 3 position, 4-way, Spool & Sleeve,
Cv: 0.35

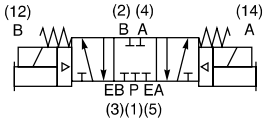
- Direct solenoid, air pilot or solenoid air pilot actuated
- DIN plug-in solenoid with indicator light
- Unlubricated or lubricated service
- Integral speed control available
- Integral regulators available
- NEMA 4



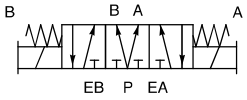
double solenoid pilot
3 position 4-way
open center



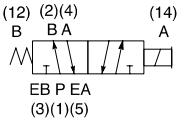
double solenoid pilot
3 position 4-way
closed center



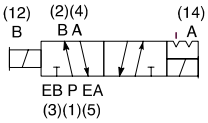
double solenoid
3 Position 4-Way (5/3),
pressure center



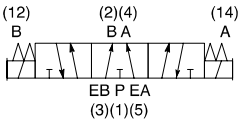
single solenoid
2 position 4-way



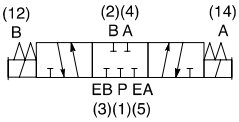
double solenoid
2 position 4-way



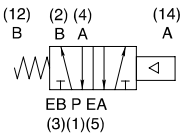
double solenoid
3 position 4-way
open center



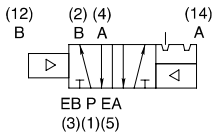
double solenoid
3 position 4-way
closed center



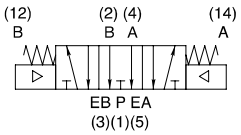
single air pilot
2 position 4-way



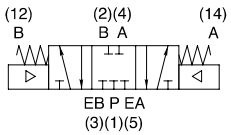
double air pilot
2 position 4-way



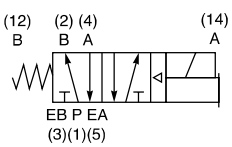
double air pilot
3 position 4-way
open center



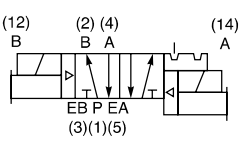
double air pilot
3 position 4-way
closed center



single solenoid pilot
2 position 4-way



double solenoid pilot
2 position 4-way



Technical Data

Valve Data		English		Metric	
Cv		1/8 NPTF = 0.35	10-32 UNF = 0.18	1/8 = 0.35	M5 = .018
Flow Capacity		16.21 SCFM	8.34 SCFM	345 Nl/m	177 Nl/m
		Upstream pressure to atmosphere @80 PSIG		@ 6 bar upstream/5 bar downstream	
Operating Pressure Range		28" HG. Vacuum to 150 PSIG		Vacuum to 10 bar	
Pilot Pressure Range	2-Position, Spring Return 2-Position, Detented 3-Position	20-100 PSIG 15-100 PSIG 20-100 PSIG			
Temperature Range (Ambient)	Direct Solenoid Air Pilot Solenoid Air Pilot	-10°F to +115°F -10°F to +200°F -10°F to +115°F		-23°C to +46°C -23°C to +93°C -23°C to +16°C	

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

Operating Data - Mark 3

All Solenoids Are Continuous Duty Rated		12 VDC	24 VDC	24 VAC 50 Hz	24 VAC 60 Hz	115 VAC 50 Hz	120 VAC 60 Hz	230 VAC 50 Hz	240 VAC 60 Hz
Power (Watts)		6.0	6.0	4.0	3.0	5.5	4.0	5.2	4.6
Holding Current (Amps.)		0.500	0.250	0.290	0.234	0.063	0.052	0.025	0.021
Inrush Current (Amps.)		N/A	N/A	0.490	0.450	0.093	0.090	0.042	0.041
Energize in seconds	2-Position, Single, Spring Return	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.008
	2-Position, Double, Detented	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.008
	3-Position, Spring Centered	0.012	0.012	0.008	0.008	0.008	0.008	0.008	0.008
De-energize in seconds	2-Position, Single, Spring Return	0.008	0.008	0.012	0.012	0.012	0.012	0.012	0.012
	2-Position, Double, Detented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3-Position, Spring Centered	0.008	0.008	0.012	0.012	0.012	0.012	0.012	0.012

Operating Data - SPA 3

All Solenoids Are Continuous Duty Rated		12 VDC	24 VDC
Power (Watts)		1.2	1.2
Holding Current (Amps.)		0.100	0.050
Energize in seconds	2-Position, Single, Spring Return	0.009	0.009
	2-Position, Double, Detented	0.010	0.010
	3-Position, Spring Centered	0.010	0.010
De-energize in seconds	2-Position, Single, Spring Return	0.015	0.015
	2-Position, Double, Detented	N/A	N/A
	3-Position, Spring Centered	0.040	0.040

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How to Order

Valves

031 SA 4 15 4 0 000 61

Valve Series & Port Size
030 = 10-32
031* = 1/8
*Valve Unit Only (Mounting = 00)

Valve Type
BA = Single Solenoid Pilot, Spring Return w/Flush Non-Loc
BB = Double Solenoid Pilot w/Flush Non-Locking Override
PA = Single Air Pilot, Spring Return
PP = Double Air Pilot
SA = Single Solenoid, Spring Return w/Flush Non-locking Override
SS = Double Solenoid w/Flush Non-locking Override

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 (5/3), Pressure Center
*available with SS only

Mounting
00 = Valve Unit Only
01 = Valve Unit Only w/Speed Control
15 = Manifold Block w/Side and Bottom Ports
25 = 15 w/Speed Control
41 = Standard Base, Side Ports, Individual Exhaust
46 = 41 w/Speed Control
56** = Standard Base, Bottom Ports, Individual Exhaust
58** = 56 w/Speed Control
**10-32 Ports Only

Voltage
20 = 24/50-60 VAC
30 = 110-120/50-60 VAC
40 = 220-240/50-60 VAC
60 = 12 VDC
61 = 24 VDC
00 = No Voltage (PA/PP only)

Special Options
11B = Flush Locking Override
11Z = Extended Locking Override
13A = 48" Leads
17N = DC Solenoid w/Surge Suppression Diode

Port Type
0 = NPTF
G = G Tap
P = NPTF (Solenoid Pilot Valves)
Q = G-Tap (Solenoid Pilot Valves)

Wiring Option
B = DC Hardwired w/15" Leads
C = Proprietary AC Plug-In
E = Proprietary DC Plug-In
M = DC Straight 2-Pin Plug-in w/Light (BA or BB only)
O = AC Hardwired w/15" Leads (SA, SS or Air Pilot)
2 = DIN Plug-in AC Solenoid (SA or SS only)
4 = DIN Plug-in DC Solenoid (SA or SS only)

Plug Connector

M Wiring Option (SPA only)



Lead Length	Part No.
12" Lead	230-443
48" Lead	230-476
120" Lead	230-486

Part Name	Part No.
Housing	140-384
Terminal	140-385

Plug connector is not included with solenoid assemblies or valve models. Must order separately.
Note: Wire Gage = 22 AWG

Cable Assemblies

C and E Wiring Option



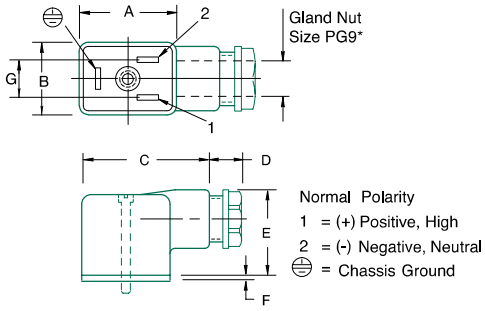
Cord Length	Part No.
4' Cord	230-214
6' Cord	230-260
10' Cord	230-348
16' Cord	230-432
20' Cord	230-434
40' Cord	230-843

NOTE: Plug connector is NOT included with solenoid. Order connector assembly separately (see ordering information below).

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

Plug-in Connector Assemblies for DIN Plug-In Valves

2 and 4 Wiring Option
Per DIN Spec. NO 43650. *Accepts cable diameter 0.240 to 0.310.
11mm Industry Standard DIN Form B



Connector Assembly	Part No.
Grey (A end solenoid) Plug Assembly	230-363
Black (B end solenoid) Plug Assembly	230-364
Plug Assembly with 24 V Light	230-365
Plug Assembly with 110 V Light	230-366
Plug Assembly with 220 V Light	230-367

Dimensions: Inches (mm)

A	B	C	D	E	F	G
1.12 (28.4)	0.83 (21.1)	1.57 (39.9)	0.40 (10.2)	1.10 (27.9)	0.06 (1.5)	0.43 (11.0)

How to Order Continued

Regulators

031 RS 7 00 O 0 000 00

Valve Series & Port Size
031 = 1/8

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

Pressure Range
3 = 3-30 PSIG (0.2 - 2 Bar)
7 = 0-100 PSIG (0-6.9 Bar)

Mounting
00 = Regulator Unit Only
02** = Regulator Unit for Use w/Speed Control

**Speed control can only be used with type RS. These model numbers include regulator with extra long screws #127-332. For complete information on ordering with speed control,
see page 13.

Wiring Option
O = Non Plug-in

Port Type
0 = NPTF

Special Options
16N = Jumper on (A) 14 End
16P = Jumper on (B) 12 End

Manifold Assembly Kit

AK 0 C E 0000 1 N STD

Electrical/Electronics Type & Location
0 = Standard

Valve Line
C = Mark 3 Series

Number of Valve Stations

A	= 1	E	= 5	I	= 9	M	= 13
B	= 2	F	= 6	J	= 10	N	= 14
C	= 3	G	= 7	K	= 11	O	= 15
D	= 4	H	= 8	L	= 12	P	= 16

End Plate Port Size
1 = 1/8
2 = 1/4

Port Type
N = NPTF
G = G tap

Options
STD = Standard

Example order

List in order, left to right, facing cylinder ports

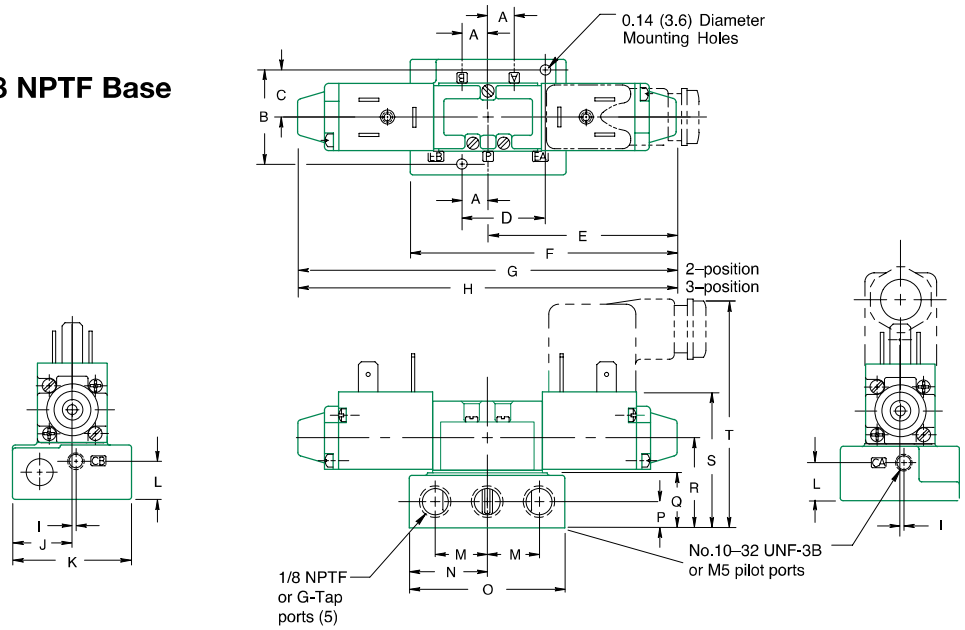
Assembly Kit	AK0CB00001NSTD
Station 1	030BB400BP00061
Station 2	030BA400BP00061
	ASSEMBLED

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

Dimensions: Inches (mm)

Mark 3

Valve with 1/8 NPTF Base

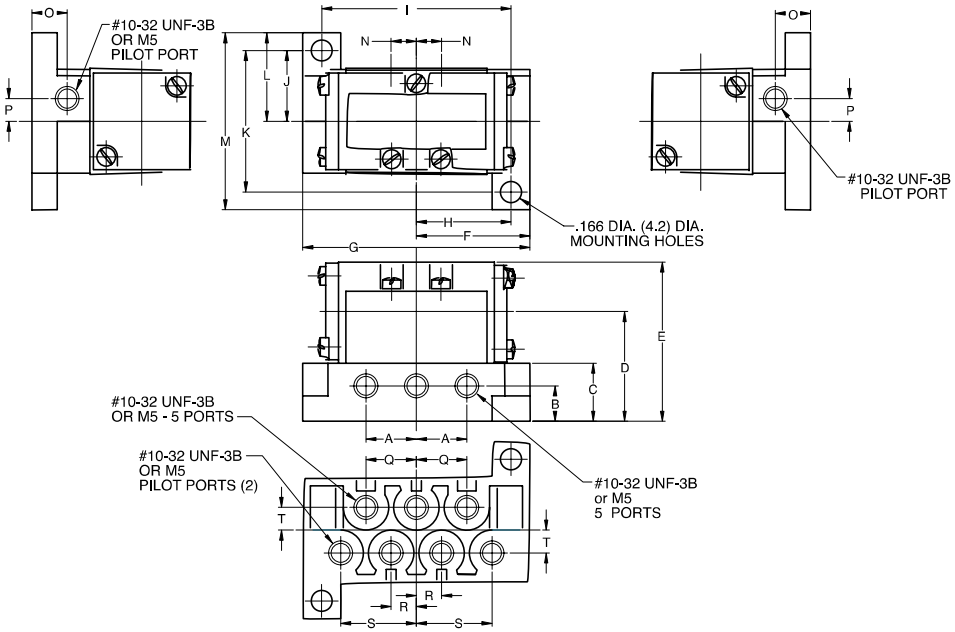


A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
0.31 (7.9)	1.09 (27.7)	0.55 (14.0)	1.00 (25.4)	2.30 (58.4)	3.24 (82.3)	4.60 (116.8)	4.86 (123.4)	0.03 (0.76)	0.69 (17.5)	1.38 (35.0)	0.44 (11.2)	0.63 (16.0)	0.94 (23.8)	1.88 (47.7)

P	Q	R	S	T
0.31 (7.8)	0.65 (16.5)	1.06 (26.9)	1.65 (41.9)	2.80 (71.1)

PA 3

Valve with 10-32 UNF-3B Base



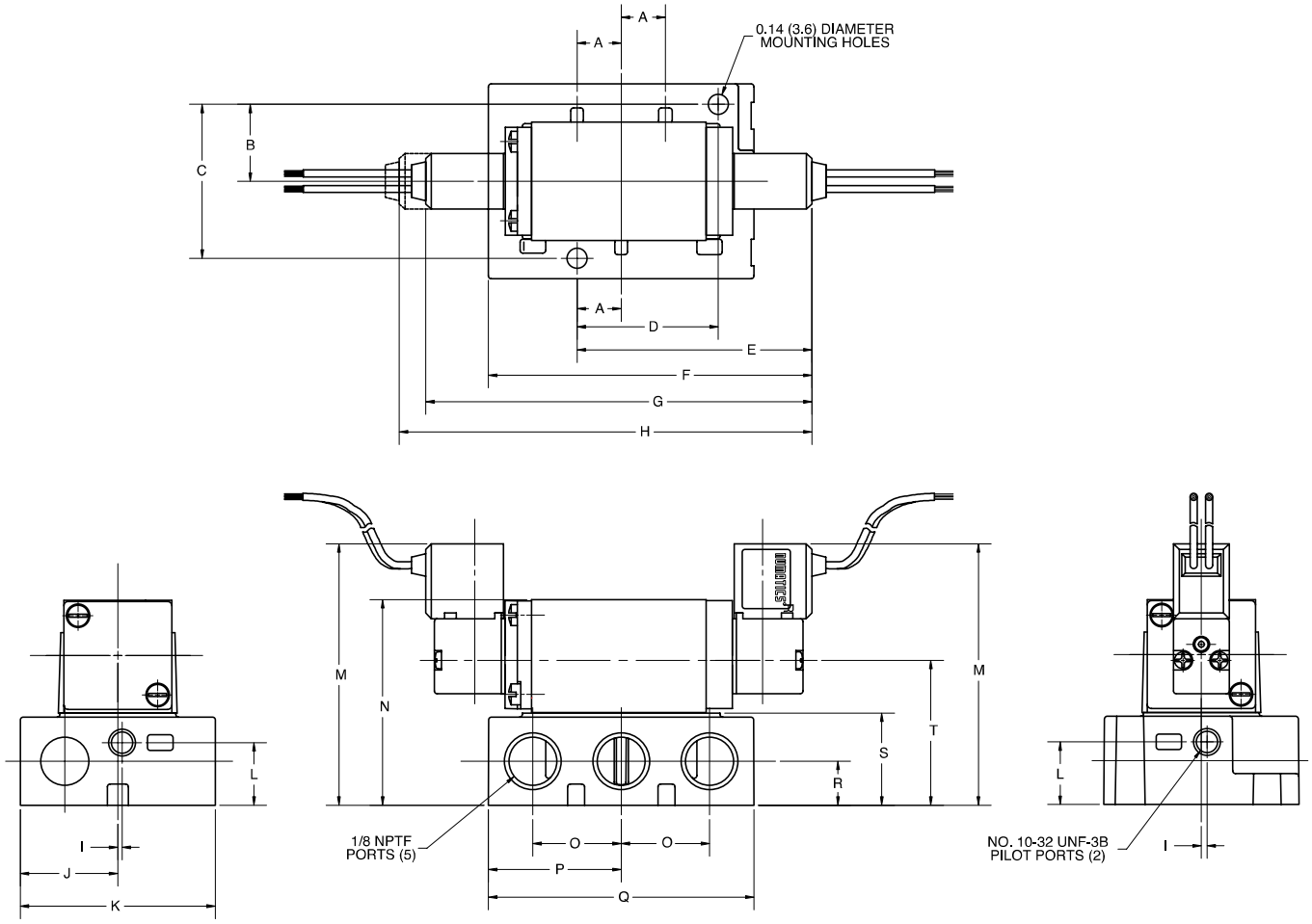
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
0.40 (10.2)	0.28 (7.1)	0.46 (11.7)	0.87 (22.1)	1.26 (32.0)	0.90 (22.9)	1.80 (45.7)	0.75 (19.1)	1.50 (38.1)	0.56 (14.2)	1.12 (28.4)	0.70 (17.8)	1.40 (35.6)	0.20 (5.1)	0.28 (7.1)	0.18 (4.6)	0.40 (10.2)	0.20 (5.1)	0.60 (15.2)	0.18 (4.6)

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Dimensions: Inches (mm)

SPA 3

Valve with 10-32 UNF-3B Base

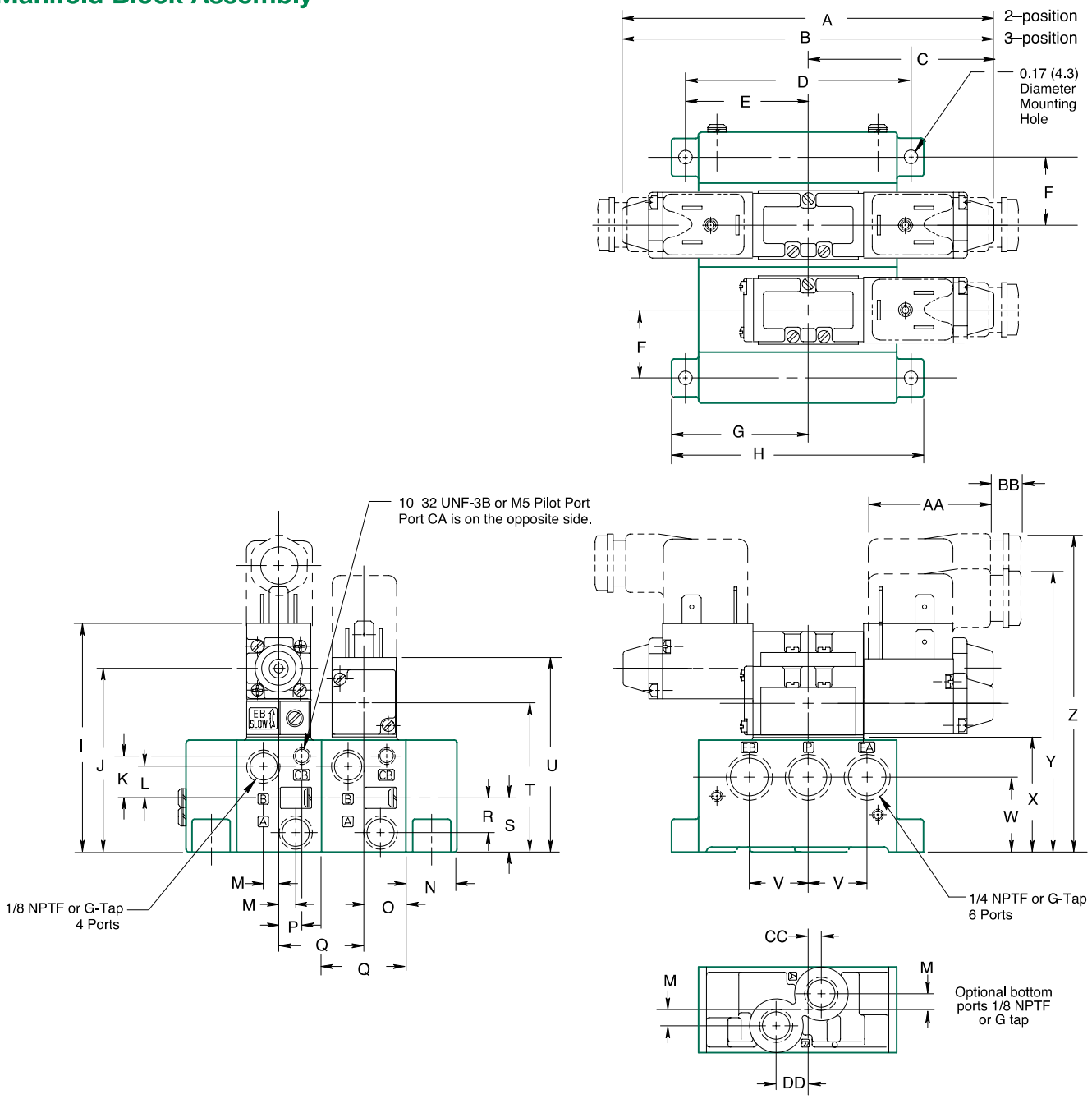


A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
0.31 (7.9)	0.55 (13.9)	1.09 (27.7)	1.00 (25.4)	1.66 (42.2)	2.29 (58.2)	2.73 (69.3)	2.92 (74.2)	0.03 (0.76)	0.69 (17.5)	1.38 (35.0)	0.44 (11.2)	0.63 (16.0)	0.94 (23.8)	1.88 (47.7)	0.94 (23.8)	1.88 (47.7)	0.31 (7.8)	0.65 (16.5)	1.03 (26.2)

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

Dimensions: Inches (mm)

Manifold Block Assembly



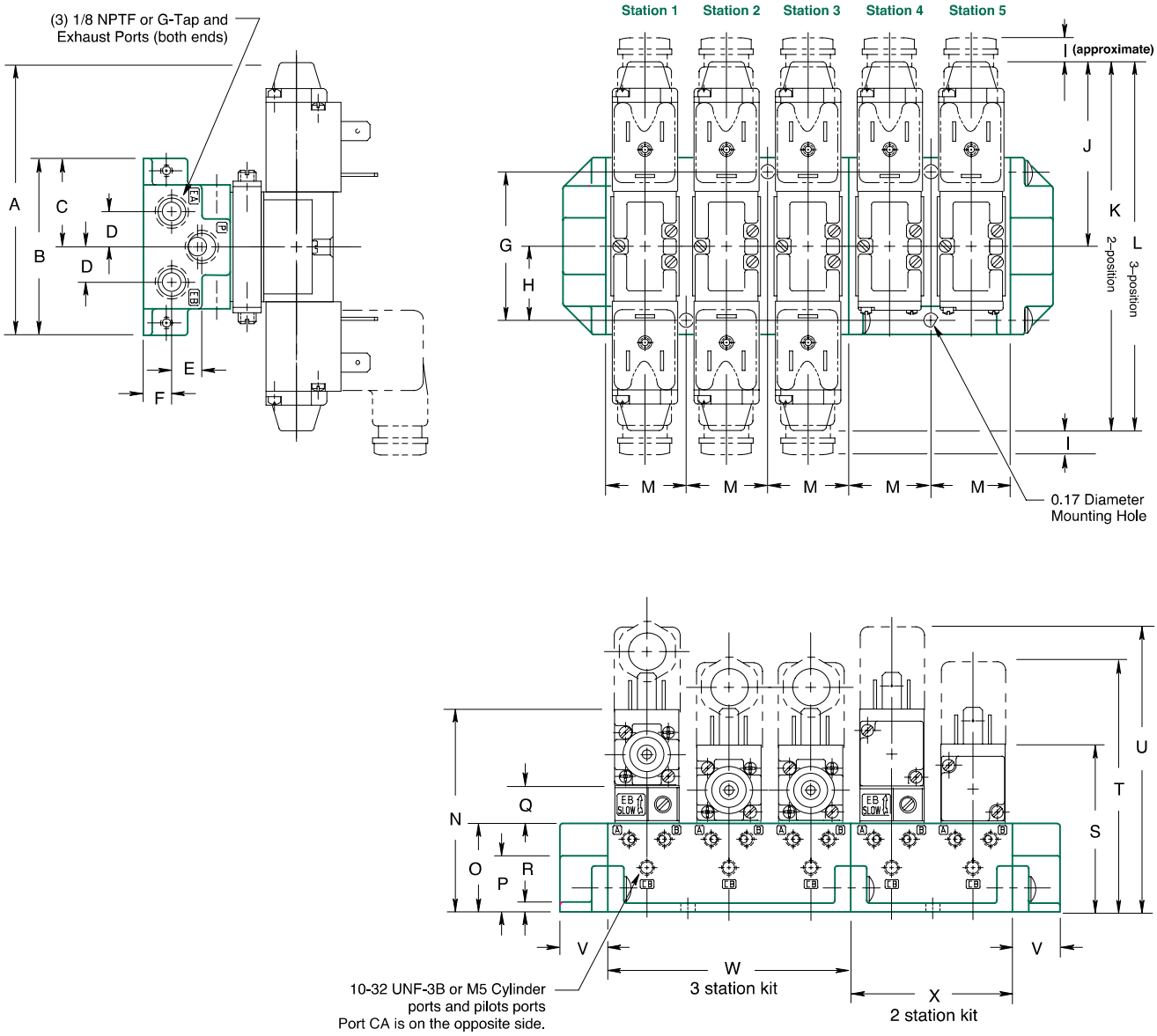
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
4.60 (116.8)	4.86 (123.4)	2.30 (58.4)	2.63 (66.8)	1.44 (36.5)	0.81 (20.6)	1.59 (40.4)	2.94 (74.6)	2.77 (70.4)	2.24 (56.9)	0.47 (11.9)	0.34 (8.6)	0.19 (4.8)	0.59 (15.0)	0.48 (12.2)

P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD
0.27 (6.8)	1.00 (25.4)	0.41 (10.4)	0.72 (18.3)	1.82 (46.2)	2.40 (61.0)	0.69 (17.5)	0.94 (23.9)	1.41 (35.8)	3.56 (90.4)	3.93 (99.8)	1.57 (39.9)	0.40 (10.2)	0.16 (4.1)	0.38 (9.6)

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Dimensions: Inches (mm)

10-32 UNF-3B Manifold Assembly

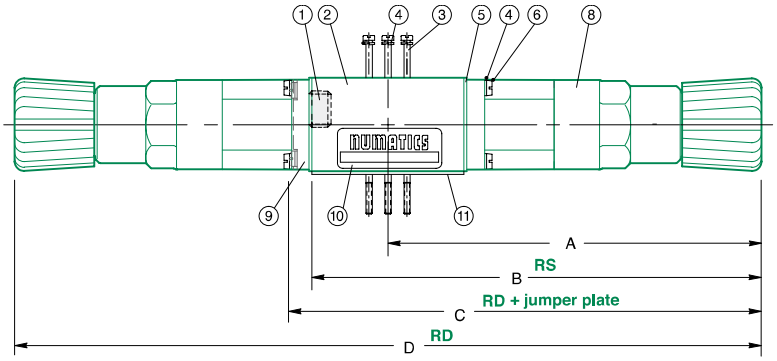


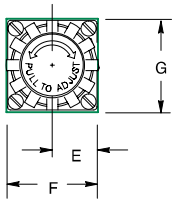
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
3.30 (83.8)	2.00 (50.8)	1.00 (25.4)	0.40 (10.2)	0.38 (9.7)	0.32 (8.1)	1.70 (43.2)	0.85 (21.6)	0.30 (7.6)	2.33 (58.4)	4.60 (116.8)	4.86 (123.4)	0.92 (23.4)	2.36 (59.9)	1.00 (25.4)	0.52 (13.2)	0.37 (9.4)	0.10 (2.5)

S	T	U	V	W	X
1.99 (50.5)	3.15 (80.0)	3.52 (89.4)	0.50 (12.7)	2.76 (70.1)	1.84 (46.7)

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

Sandwich Pressure Regulator





Dimensions: Inches (mm)

A	B	C	D	E	F	G
3.73 (94.7)	4.48 (113.8)	4.70 (119.4)	7.47 (189.7)	0.437 (11.1)	0.875 (22.2)	0.92 (23.4)

Gauges - RS Regulators only

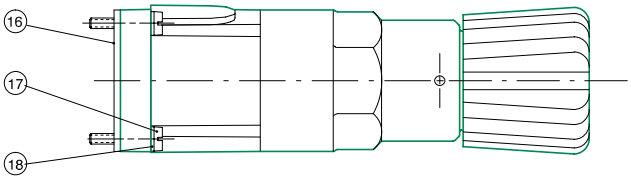
Pressure Gauge	Part No.
0-60 PSIG	214-216
0-150 PSIG	214-209
0-11 Bar	214-210

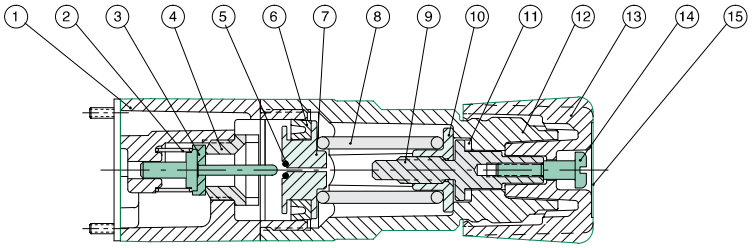
Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	1	Plug (type RS only)	129-100
2	2	Regulator Block RS: RD:	213-319 213-320
3	3	Screw standard: w/speed control:	127-331 127-332
4	7	Lockwasher	128-172
5	*	Gasket (body to reg. ass'y)	113-472
6	**	Screw	127-380
8	*	Regulator Assembly (not sold separately)	
9	1	Jumper Plate Kit***	229-733
10	1	Nameplate	122-571
11	1	Gasket	113-403

*(1) required for RS; (2) for RD
**(4) required for RS; (8) for RD
***Jumper plate kit (shown in phantom) includes jumper plate (4) screw #127-260; (4) lockwasher #128-172; and (1) gasket #113-290

Regulator Service Kits 239-708





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	124-302
7	1	Piston	125-928
8	1	Spring 0-30 PSIG: 0-100 PSIG:	115-352 115-342
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

*Indicates parts included in kit

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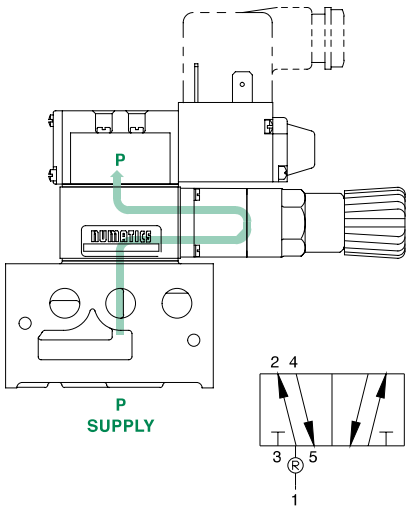
Sandwich Pressure Regulators

Types: RS / RD

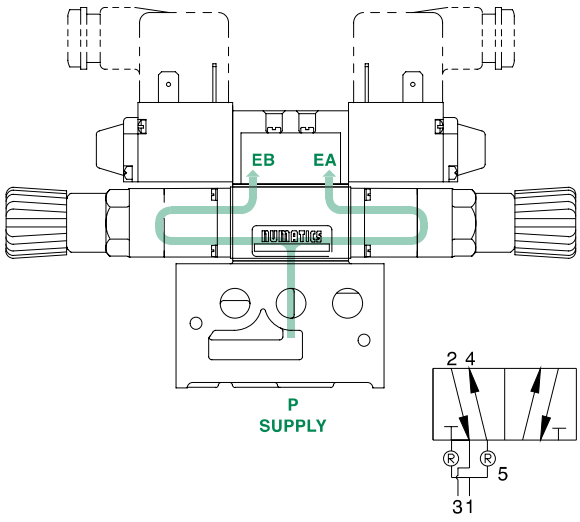
When ordering a valve plus regulator mounted on a base or manifold, list the regulator unit–only model number and include the mounting requirements only within the valve model selection. Specify “Assembled.”

Example orders:	**TYPE RS**	**TYPE RD**
Valve: +mounting	031SA4152000030	031SS4152000030
Regulator	031RS700O000000	031RD700O000000
(unit only)	ASSEMBLED	ASSEMBLED

Type RS

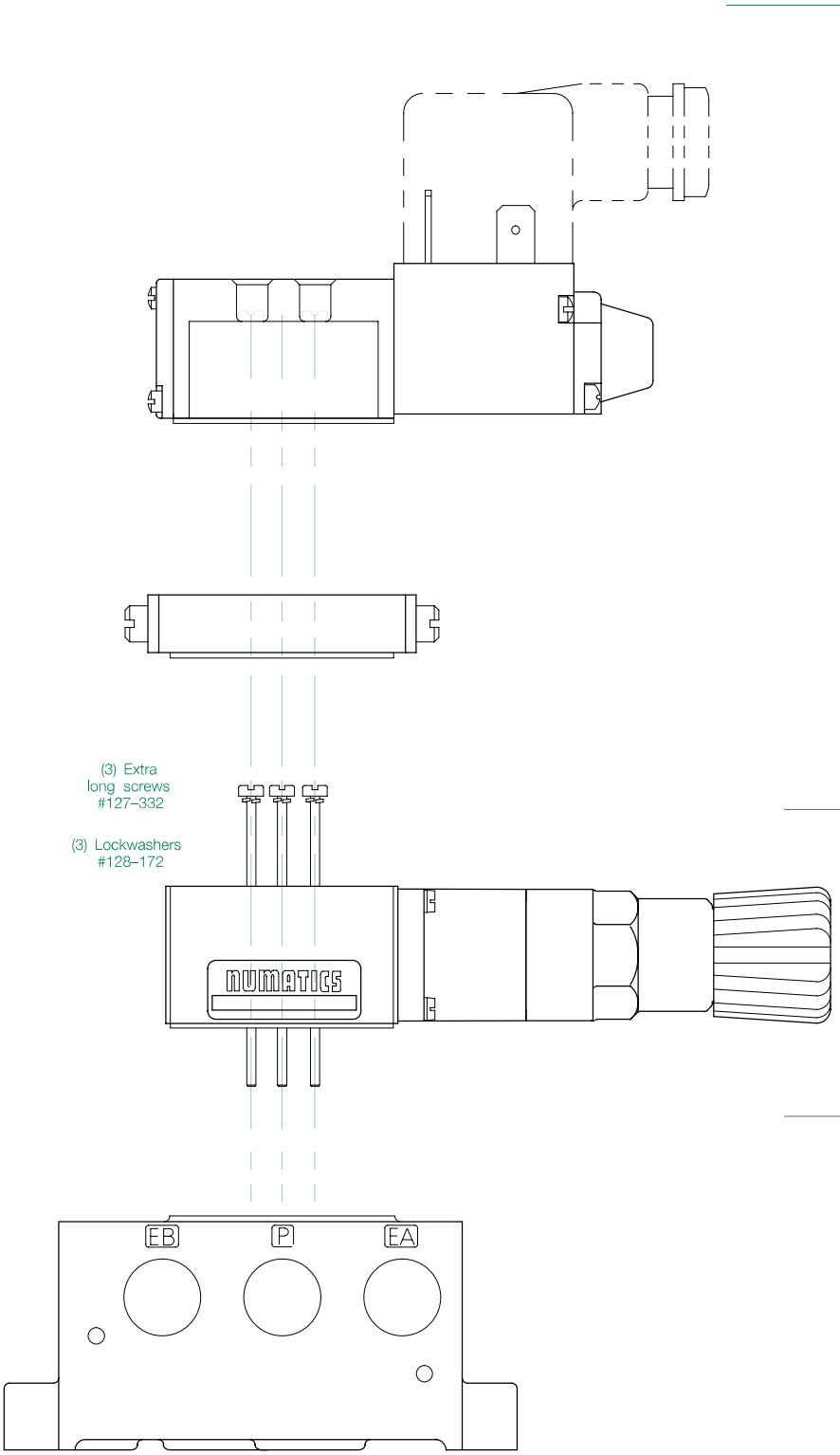


Type RD



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Valve, Speed Control, and Regulator Assembly



EXAMPLE

031SA4252000030

1/8 NPTF Mark 3 single solenoid valve unit + speed control sandwich + FlexiBlok manifold with 1/8 NPTF side and bottom cylinder ports

031RS702O000000

Mark 3 single pressure regulator (0 – 100 PSIG) + extra long screws

EXAMPLE ORDER:

Valve: 031SA4252000030
Regulator: 031RS702O000000
ASSEMBLED

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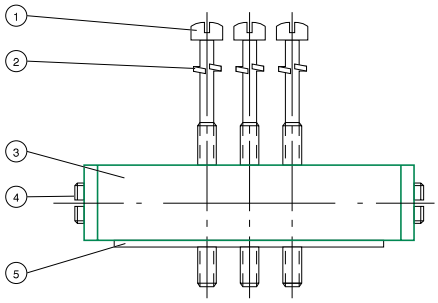
End Plate Kits

End Plate Ports	Manifold Port	Part No.
1/8 NPTF	10-32 UNF-3B	229-526
G 1/8	M5	239-260
1/4 NPTF	1/8 NPTF	229-719
G 1/4	G 1/8	239-261

Parts List

No. Req'd	Part Name	Part No.			
		1/8 NPTF	1/4 NPTF	G 1/8	G 1/4
1	Left End Plate	104-198	104-238	104-405	104-366
2	Screw	127-265	127-328	127-265	127-328
2	Lockwasher	128-109	128-116	128-109	128-116
3	Seal	126-107	126-201	126-107	126-201
1	Right End Plate	104-197	104-237	104-404	104-365

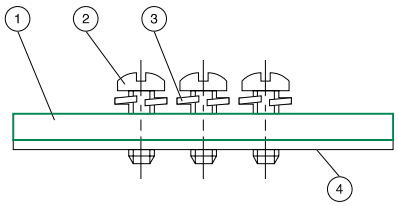
Speed Control Kit 239-469



Parts List

Port Type	Part. No.	Part Name	Part No.
1	3	Screw	127-293
2	3	Lockwasher	128-242
3	3	Speed Control (not sold separately)	
4	1	Metering Screw Assembly	213-255
5	2	Gasket	113-407

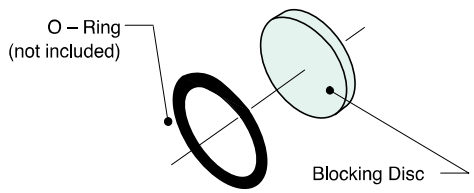
Blank Station Plate Kit 229-538



Parts List

Port Type	Part. No.	Part Name	Part No.
1	1	Blank Station Plate (not sold separately)	
2	3	Lockwasher	127-260
3	3	Screw	128-172
4	1	Gasket	113-403

Blocking Discs

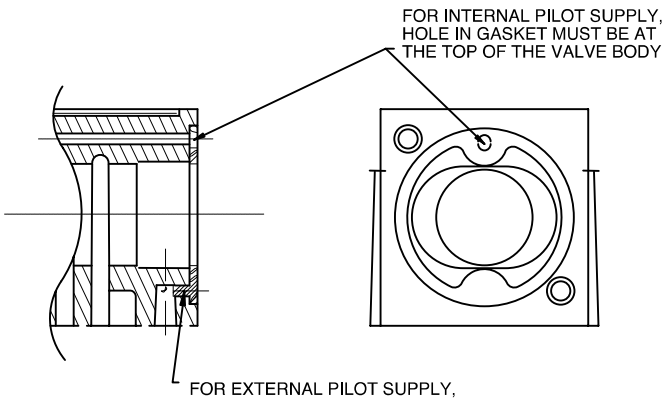


Port Type	Part No.
10-32 UNF-3B	124-138
1/8 NPTF	124-151

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SPA 3

Internal/External Pilot Selection



BOTH ENDS MUST BE CONVERTED
FOR DOUBLE SOL. PILOT VALVES,

Direct Solenoid Capsule Assemblies (Flushing Non-Locking Override)

Override Type	Valve Function	Wiring Option	B/A End	Voltage				
				AC			DC	
				100-115/50 110-120/60	200-230/50 220-240/60	24/50-60	12 VDC	24 VDC
Flush non-locking override (standard)	2 position	Hardwired	B/A	237-952	237-953	237-954	236-102	236-103
	2 position	DIN Plug-in	B/A	237-961	237-962	237-963	236-126	236-127
	3 position	Hardwired	B End	237-993	237-992	237-994	236-154	236-155
	3 position	Hardwired	A End	237-990	237-989	237-991	236-108	236-109
	3 position	DIN Plug-in	B End	237-1011	237-1010	237-1012	236-166	236-167
	3 position	DIN Plug-in	A End	237-1008	237-1007	237-1009	236-132	236-133

Includes solenoid and end cap assembly + screws and gaskets.

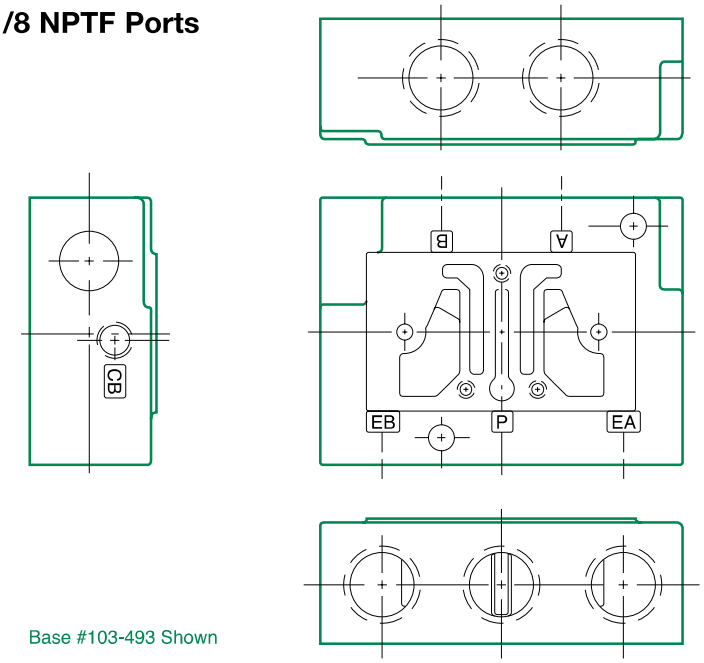
Solenoid Pilot Capsule Assemblies

	12 VDC	24 VDC
Hardwired	236-298	236-299
Straight Plug-In	236-301	236-302

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Base Assemblies

1/8 NPTF Ports



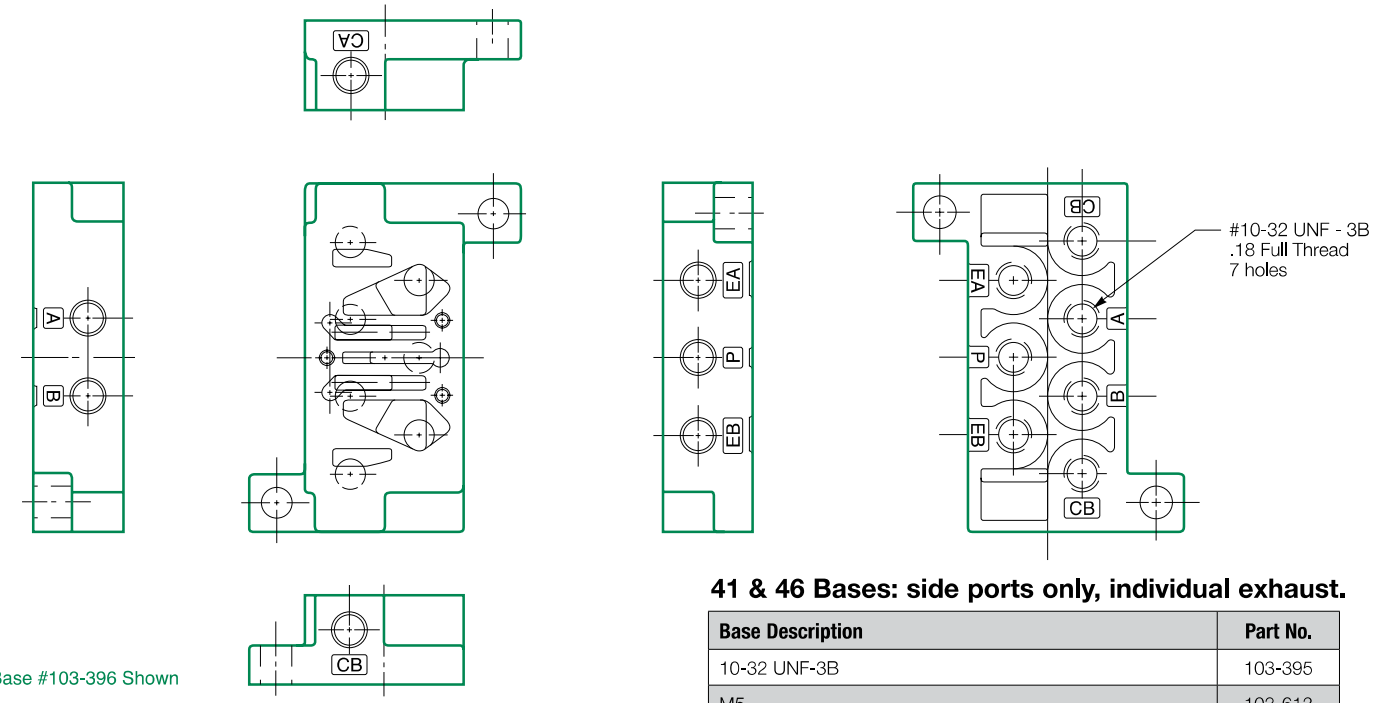
Base #103-493 Shown

41 & 46 Bases: side ports only, individual exhaust.

Base Description	Part No.
1/8 NPTF	103-493
G 1/8	103-592

Base Assemblies

10-32 UNF-3B Ports



Base #103-396 Shown

41 & 46 Bases: side ports only, individual exhaust.

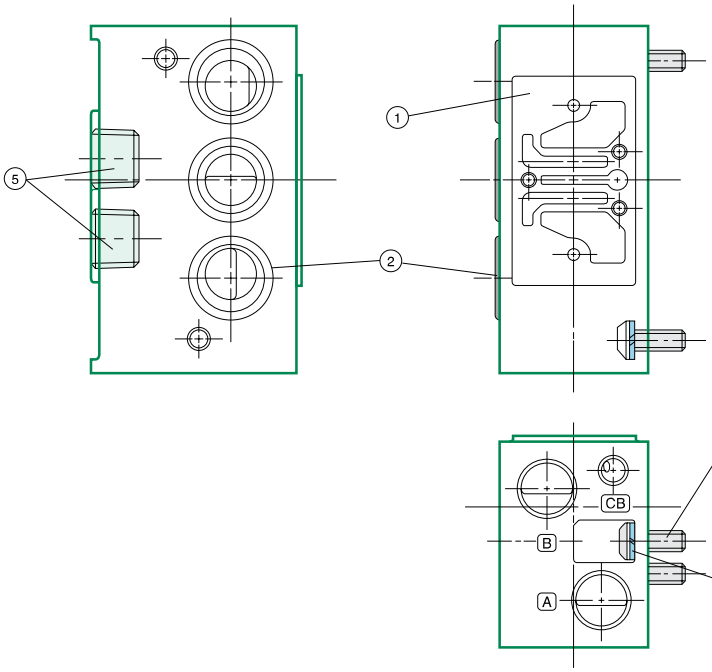
Base Description	Part No.
10-32 UNF-3B	103-395
M5	103-613

56 & 58 Bases: bottom ports, individual exhaust.

Base Description	Part No.
10-32 UNF-3B	103-396
M5	103-614

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Manifold Kits – FlexiBlok



Parts List

Port Type	Part. No.	Part Name	Part No.
1	1	Manifold Block (not sold separately)	
2	3	Seal	126-201
3	2	Screw	127-327
4	2	Lockwasher	128-116
5	2	Plug 1/8 NPTF: G 1/8:	129-100 129-160

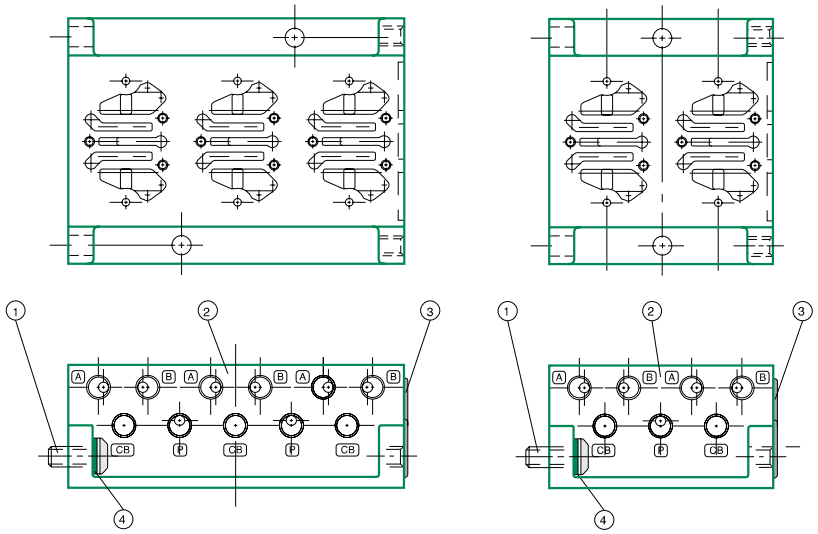
FlexiBlok #15: side & bottom cylinder ports

Manifold Description	Part No.
1/8 NPTF	229-718
G 1/8	239-262

Manifold Kits – 10-32 UNF-3B

3 Station Kit

2 Station Kit



Parts List

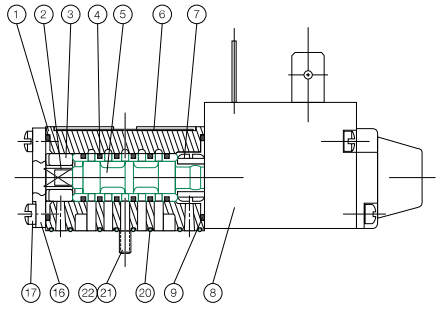
Det. No.	No. Req'd	Part Name	Part No.
1	2	Screw	127-265
2	1	Manifold Block (not sold separately)	
3	3	Seal	126-107
4	2	Lockwasher	128-109

Manifold Description	Part No.
10-32 UNF-3B – 2-station manifold kit	229-524
M5 – 2-station manifold kit	239-263
10-32 UNF-3B – 3-station manifold kit	229-525
M5 – 3-station manifold kit	239-264

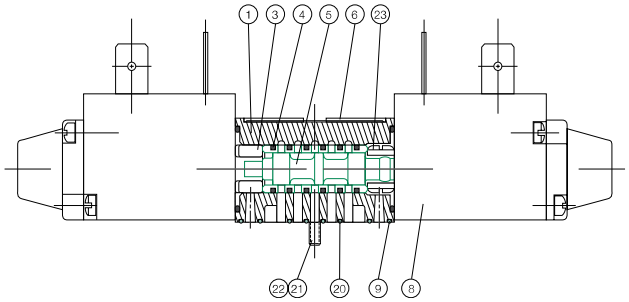
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Valve Service Kits and Parts - 2 Position

Kit No. MK3-K1 (for models 030SA4, 031SA4)

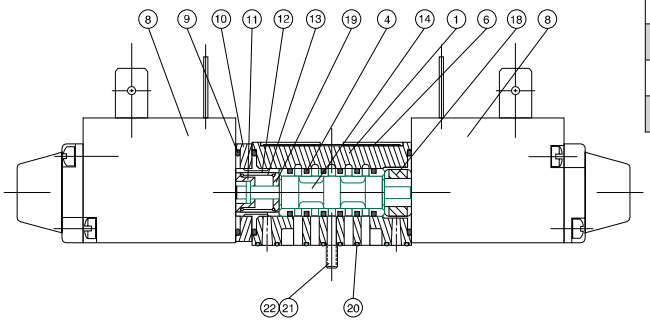


Kit No. MK3-K1 (for models 030PP4, 031PP4) 030SS4, 031SS4)

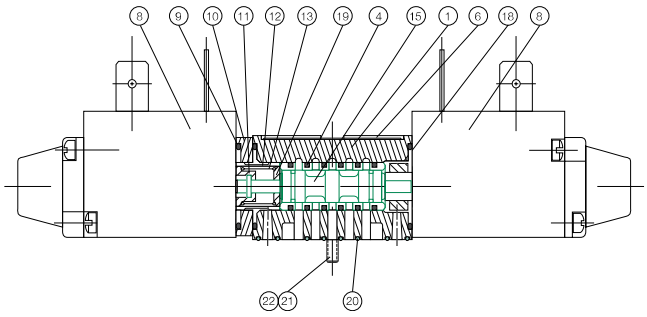


Valve Service Kits and Parts - 3 Position

Kit No. MK3-K3 (for models 030PP5, 031PP5, 030SS5, 031SS5)



Kit No. MK3-K3 (for models 030PP6, 031PP6, 030SS6, 031SS6)

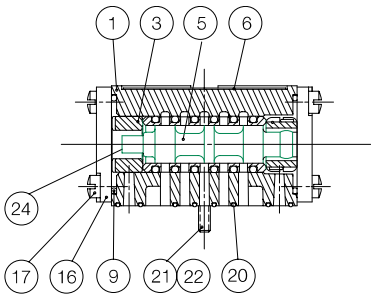


Parts List

Det. No.	SA4	SS4 & PP4	SS5 & PP5	SS6 & PP6	PA4	Part Name	Part No.
1	1	1	1	1	1	Valve Body (not sold separately)	
2 *	1	N/A	N/A	N/A	N/A	Spring	115-203
3 *	1	1	N/A	N/A	1	Bumper	114-130
4 *	6	6	6	6	6	Seal	126-133
5	1	1	N/A	N/A	1	Sleeve Assembly w/seals	209-278
6	1	1	1	1	1	Nameplate	122-571
7 *	1	N/A	N/A	N/A	N/A	Detent Body	110-109
8	1	2	2	2	N/A	Solenoid Capsule Assembly	See p. 15
9 *	2	2	3	3	2	O-Ring	126-134
10	N/A	N/A	1	1	N/A	Adaptor	119-343
11 *	N/A	N/A	1	1	N/A	Spring Retainer	116-396
12 *	N/A	N/A	1	1	N/A	Spacer	116-397
13 *	N/A	N/A	1	1	N/A	Spring	115-291
14	N/A	N/A	1	N/A	N/A	Sleeve Assembly w/seals	209-373
15	N/A	N/A	N/A	1	N/A	Sleeve Assembly w/seals	209-374
16	1	N/A	N/A	N/A	2	End Plate	104-199
17	2	N/A	N/A	N/A	4	Screw	127-260
18 *	N/A	N/A	1	1	N/A	Bumper	101-498
19 *	N/A	N/A	1	1	N/A	Spring Retainer	116-395
20 *	1	1	1	1	1	Gasket	113-407
21	3	3	3	3	3	Screw	127-292
22	3	3	3	3	3	Lockwasher	128-242
23 *	N/A	1	N/A	N/A	N/A	Detent Assembly	210-111
24 *	N/A	N/A	N/A	N/A	1	Spring	115-231

*Indicates parts included in repair kit.

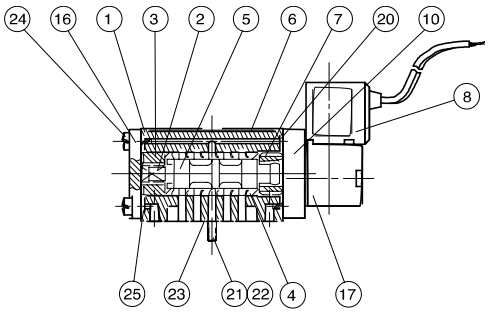
Kit No. PA3-K1 (for model 030PA4, 031PA4)



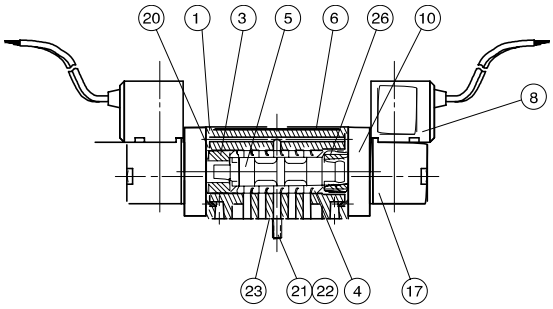
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Valve Service Kits and Parts - 2 Position

Kit No. SPA3P-K1 (for models 030BA4, 031BA4)

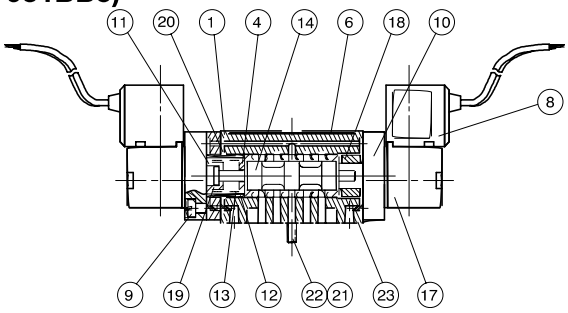


Kit No. SPA3P-K1 (for models 030BB4, 031BB4)

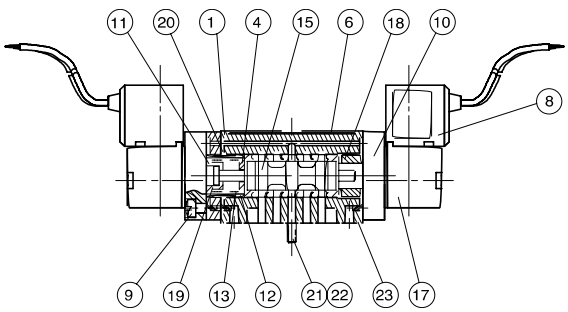


Valve Service Kits and Parts - 3 Position

Kit No. SPA3P-K3 (for models 030BB5, 031BB5)



Kit No. SPA3P-K3 (for models 030BB6, 031BB6)



Parts List

Det. No.	BA4	BB4	BB5	BB6	Part Name	Part No.
1	1	1	1	1	Valve Body (not sold separately)	
2	1*	N/A	N/A	N/A	Spring	115-231
3	1*	1*	N/A	N/A	Bumper	114-130
4	6*	6*	6*	6*	Seal	126-133
5	1	1	N/A	N/A	Sleeve Assembly w/seals	209-278
6	1	1	1	1	Nameplate	122-571
7	1*	N/A	N/A	N/A	Detent Body	110-109
8	1	2	2	2	Solenoid Capsule Assembly	See p. 15
9	N/A	N/A	3	3	Screw	127-613
10	1	2	2	2	Adaptor Assembly	219-343
11	N/A	N/A	1*	1*	Spring Retainer	116-395
12	N/A	N/A	1*	1*	Spacer	116-397
13	N/A	N/A	1*	1*	Spring	115-291
14	N/A	N/A	1	N/A	Sleeve Assembly w/seals	209-537
15	N/A	N/A	N/A	1	Sleeve Assembly w/seals	209-538
16	1	N/A	N/A	N/A	End Plate	104-199
17	1	2	2	2	Pilot Assembly	219-345
18	N/A	N/A	1*	1*	Bumper	114-171
19	N/A	N/A	1*	1*	Spring Retainer	116-396
20	1*	2*	3*	3*	Gasket	113-296
21	3	3	3	3	Screw	127-292
22	3	3	3	3	Lockwasher	128-242
23	1*	1*	1*	1*	Gasket	113-407
24	4	4	2	2	Screw	127-260
25	1*	N/A	N/A	N/A	Gasket	113-297
26	N/A	1*	N/A	N/A	Detent Assembly	210-111

*Indicates parts included in kit.

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2.5M-TGI-10/09

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