numatics[®]

Mark 8 Series

Direct Solenoid Actuator





www.numatics.com



numatics[®]

Numatics, Inc. is a leading manufacturer of pneumatic products and motion control products. Our broad spectrum of standard, custom developed products and application components

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



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

Emerson (NYSE:EMR), based in St. Louis, Missouri (USA), is a global leader in bringing technology and engineering together to provide innovative solutions for customers in industrial, commercial, and consumer markets through its network power, process management, industrial automation, climate technologies, and appliance and tools businesses. For more information, visit www. Emerson.com.





Numatics Express Shipping Program guarantees[†] product shipment in two, three or five business days. Unlike most

traditional quick ship programs, the Numatics Express Shipping Program includes the most comprehensive offering in the industry. This program encompasses the range and options that you require!

Numatics is committed to offering you the highest level of customer service, quality and performance.



Numatics Express 2Day shipping program guarantees[†] product shipment in two business days. The program includes the most popular valve, air preparation and actuator products and includes applicable switches and mounting accessories.

Numatics guarantees[†] to ship any order received before 3 pm EST for up to 10 2Day products* in two business days.



Numatics Express shipping program offers a 3Day shipping program that guarantees[†] product shipment of a fully assembled and tested valve manifold in 3 business days. The program includes the most popular manifold configurations of the 2000 and Mark series valves:

- Sub D, Terminal Strip and Fieldbus Electronic Options
- Can be configured for DIN Rail Mounting and Muffled Exhaust
- Shipped complete and 100% tested

The 3Day Express shipping program enables you to create a 2 to 8 station manifold assembly complete with any combination of valves, regulators, and blank stations that can be configured from the valve model charts in this catalog.

Numatics guarantees[†] to ship any order received before 3 pm EST for up to 5 manifold assemblies configured from this catalog in three business days or Numatics pays the shipping cost.



We are pleased to expand Numatics Express to include a broad range of products in a 5Day shipping program. Numatics guarantees[†] to ship up to 10 of any 5Day product** for orders received before 3 pm EST in 5 business days or Numatics pays the shipping cost.

We are committed to providing you with an unmatched level of customer service, quality, and reliability. If you cannot locate the specific product for your application or need additional product specifications, visit www.numatics.com or call 888-686-2842. Numatics Express orders cannot be canceled or adjusted once entered. Saturdays, Sundays, and Holidays are excluded.

[†]As industry requirements change, Numatics reserves the right to modify the contents of this catalog and program without notification. Updates on this program can be obtained from the Numatics website www.numatics.com or by calling 888-686-2842, or by contacting your local Numatics representative or distributor and referencing the Numatics Express program.

*Sentronic^D Proportional Valves, CGT Compact Slides, NR Series Rodless and Air Bellows are limited to orders up to 5.

**A Series Large Bore NFPA, ASP Series Steel Body NFPA and G Series Guide Rail Rodless are limited to orders up to 5.

Welcome to the World of Fluid Automation...

Since 1945, Numatics has emerged as the prominent specialist in developing and manufacturing pneumatic and fluid power components for a widely diverse field of automated industry. From idea to implementation, leading engineers choose Numatics as their single source for:

- Quality Fluid Power components
- Technologically advanced design resources
- Quick response time in delivery and service from around the world





Numasizing®

Developed by Numatics, Numasizing[®] offers a whole new level of fluid power system optimization. Compare large amounts of component and process data against user objectives and industry benchmarks for the best possible size, pneumatic pressure, actuator stroke velocities and other part and process variable determinations.

CAD Modeling

Save critical development time with the most innovative CAD configuration program in the pneumatic component industry. Numatics in 3D eliminates the time consuming process associated with designing components from scratch based on information found in conventional paper catalogs.

The models are available in 85 different native CAD formats in 2D drawings and 3D models, including all the popular formats including Catia, I-DEAS, Pro/Engineer, SolidWorks, Unigraphics and more.

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

Cv: 0.8 - 1.0

- Direct solenoid actuated
- Plug-in solenoid with indicator light
- Unlubricated or lubricated service
- Integral speed control available
- Integral regulators available
- NEMA 4

Technical Data

Valve Data	English		Metric			
Cv	1/8 NPTF = 0.80	1/4 NTPF = 1.0	1/8 G Tap = 0.80	1/4 G Tap = 1.0		
Flow Capacity	37 SCFM	46 SCFM	790 NI/m	985 NI/m		
. ion capacity	Upstream press atmosphere @8		@ 6 bar upstream/5 bar downstream			
Operating Pressure Range	28"Hg Vacuum	to 150 PSIG	Vacuum to 10 bar			
Temperature Range (Ambient)	-10°F to + 115	°F	-23°C to +46°	С		





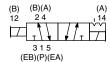




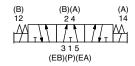
single solenoid 2 position 4-way



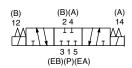
double solenoid 2 position 4-way



double solenoid 3 position 4-way open center



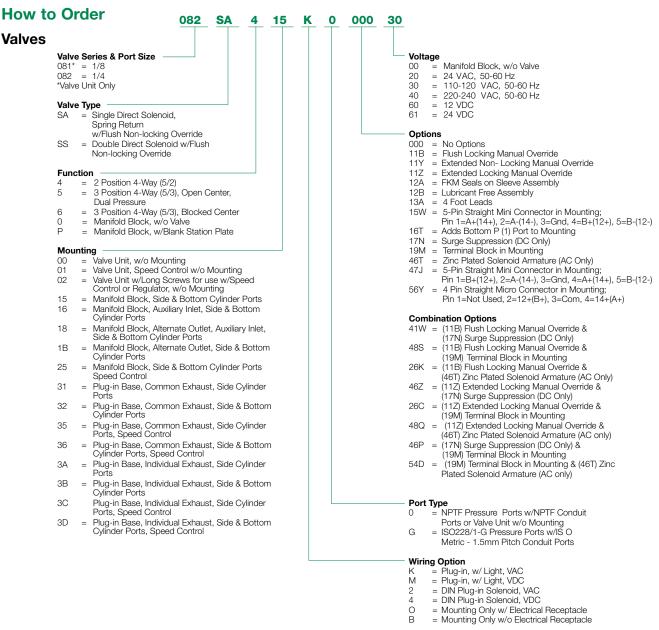
double solenoid 3 position 4-way closed center



Operating Data

All Solenoids A	re 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)	Power (Watts)		6.0	N/A	N/A	N/A	N/A	N/A	N/A
Holding Current	(Amps.)	0.50	0.25	0.84	0.38	0.15	0.09	0.007	0.04
Inrush Current (A	mps.)	N/A	N/A	2.25	1.85	0.41	0.38	0.021	0.19
Energize in	2-Position, Single, Spring Return	0.032	0.032	0.011	0.011	0.011	0.011	0.011	0.011
Energize in seconds	2-Position, Double, Detented	0.028	0.028	0.012	0.012	0.012	0.012	0.012	0.012
	3-Position, Spring Centered	0.028	0.028	0.012	0.012	0.012	0.012	0.012	0.012
	2-Position, Single, Spring Return	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011
De-energize in seconds	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	0.018	0.018	0.018	0.018	0.018	0.018

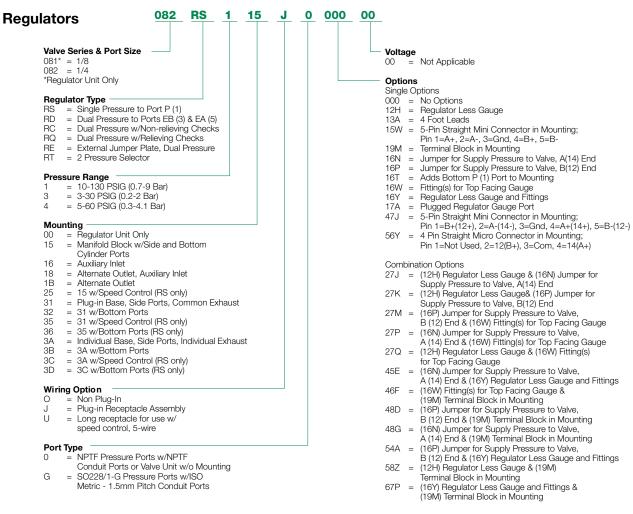
numatics



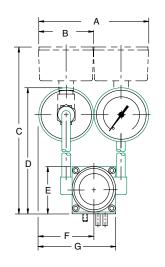
Dimensions: Inches (mm) (numerics ΓÀ S ΝĹ С B 0 0 U U Р 1/4 NPTF common exhaust port 0 0 S U ٧ C M N R 0.84 1.37 0.94 0.44 0.06 2.00 1.50 2.23 3.03 0.94 4.57 (23.9)(50.8)(56.6)(21.3)(34.8)(23.9)(11.2)(1.5)(38.1)(77.0)(116.1)

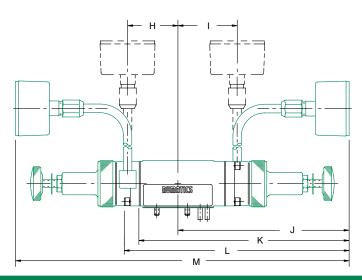


How to Order



Dimensions: Inches (mm)





A	В	C	D	E	F	G	Н	1	J	K	L	M	N
3.22	1.62	6.07	4.91	1.39	1.61	2.27	1.50	1.76	5.19	6.31	6.76	10.11	0.53
(82.0)	(41.0)	(154.0)	(125.0)	(35.3)	(41.0)	(58.0)	(38.0)	(45.0)	(132.0)	(160.0)	(172.0)	(257.0)	(13.5)



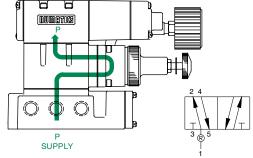
Sandwich Pressure Regulators

Types: RS / RD / RE / RT / RC / RQ

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

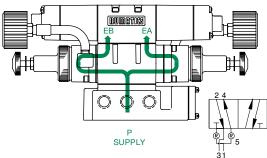
Example orders:	Type RS	Type RD
Valve unit only:	081SA400K000030	081SA400K000030
Regulator	082RS115J000000	082RD115J000000
+mounting	ASSEMBLED	ASSEMBLED

Type RS

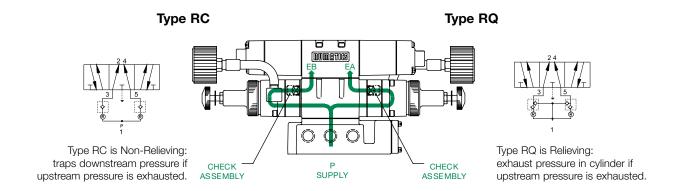


Single pressure from a single supply.

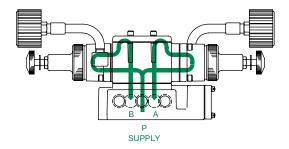
Type RD



Dual pressure from a single supply.

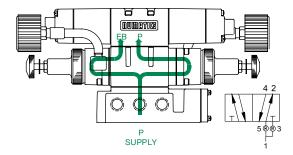






External outlet regulator used with jumper plate for single or dual pressure.

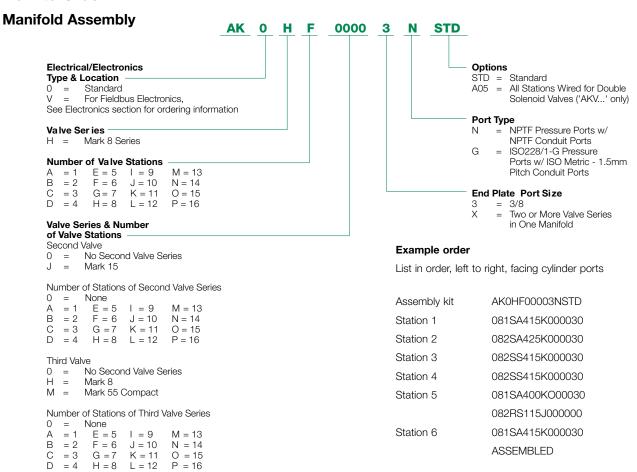
Type RT



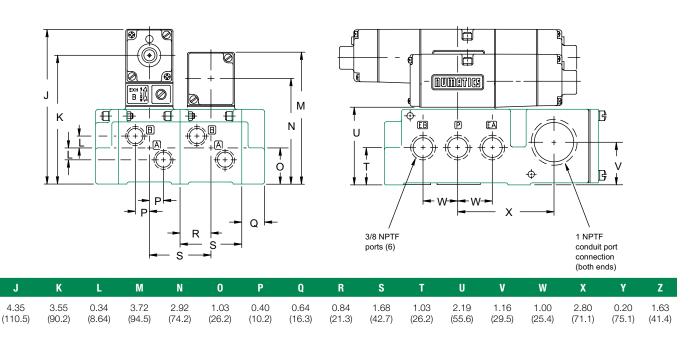
Two-pressure selector used for multi-pressure applications.



How to Order

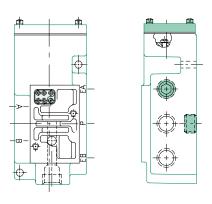


Dimensions: Inches (mm)





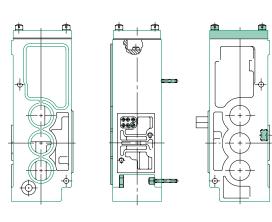
Base Assembly Kits



		1/8 NPTF		1/4 NPTF				
Base Type	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug		
31 & 35	203-429	203-437	203-445	203-433	203-441	203-449		
32 & 36	203-430	203-438	203-446	203-434	203-442	203-450		
3A & 3C	203-427	203-435	203-443	203-431	203-439	203-447		
3B & 3D	203-428	203-436	203-444	203-432	203-440	203-448		

		G 1/8		G 1/4				
Base Type	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug		
31 & 35	203-671	203-671	203-673	203-558	203-556	203-674		
32 & 36	203-675	203-677	203-678	203-676	203-693	203-679		
3A & 3C	203-680	203-682	203-684	203-681	203-649	203-685		
3B & 3D	203-686	203-688	203-690	203-687	203-689	203-691		

FlexiBlok Manifold Kit



		1/8 NPTF			1/4 NPTF	
FlexiBlok	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug
Side & Bottom Ports	229-669	229-675	229-681	229-670	229-676	229-682
Side & Bottom Ports w/Bottom P	229-671	229-677	229-683	229-672	229-678	229-684
Auxiliary Inlet	229-756	229-759	N/A	229-762	229-765	N/A
Alternate Outlet	229-757	229-760	N/A	229-763	229-766	N/A
Alternate Outlet, Auxiliary Inlet	229-758	229-761	N/A	229-764	229-767	N/A

		G 1/8			G 1/4	
FlexiBlok	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug
Side & Bottom Ports	239-385	229-945	239-386	229-936	229-937	239-387
Side & Bottom Ports w/Bottom P	239-388	239-390	239-392	239-389	239-391	239-393
Auxiliary Inlet	239-394	239-396	N/A	239-385	239-397	N/A
Alternate Outlet	239-402	239-404	N/A	239-403	239-405	N/A
Alternate Outlet,	239-398	239-400	N/A	239-399	239-401	N/A

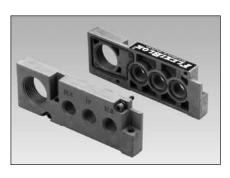
End Plate Kit

NPTF 229-691

G Tap 229-938

G Tap 239-529

G galleries/metric conduit G galleries/NPTF conduit





Blank Station Plate Kit

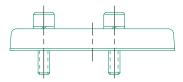
229-686

Blocking Disc Kit

229-994

Includes gasket #113-278 and screw assemblies #127-

235.



Includes o-ring seal #126-204.

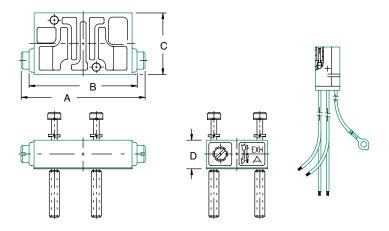




Speed Control Kit

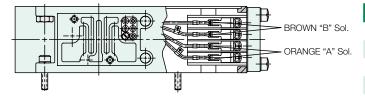
229-667

Must order extended plug, #230-276 with kit. Mounts between valve and base. May be used with type RS regulator.

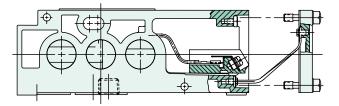


Dimens	ions: Inc	hes (mm)
A	В	C	D
2.75 (70.0)	2.35 (59.7)	1.33 (33.8)	0.60 (15.3)

Terminal Block Assembly



Port Size	No Plug	STD. Plug	S.C. Plug
1/8 NPTF Ports	239-753	239-735	239-739
1/4 NPTF Ports	239-754	239-736	239-740
G 1/8 Ports	239-755	239-737	239-741
G 1/4 Ports	239-756	239-738	239-742

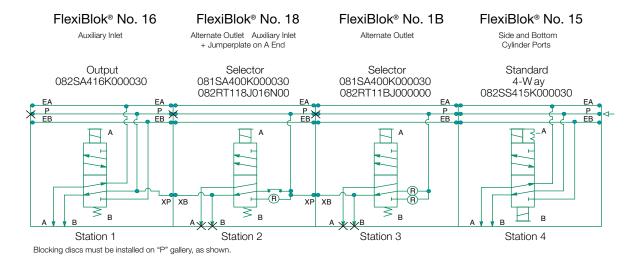


Mark 8 FlexiBlok with Terminal Block: OPTION 19tM



FlexiBlok® Diagrams

Sample diagram with regulators 3-pressure selector FlexiBlok with output valve and separate 4 way (1/4 NPTF).



Mountings

- = Manifold Block w/Side and Bottom Cylinder Ports
- 16 = Auxiliary Inlet
- 18 = Alternate Outlet, Auxiliary Inlet
- 1B = Alternate Outlet
- = 15 w/Speed Control (RS only)
- = Plug-in Base, Side Ports, Common Exhaust
- 32 = 31 w/Bottom Port
- = 31 w/Speed Control (RS only)
- = 35 w/Bottom Ports (RS only)

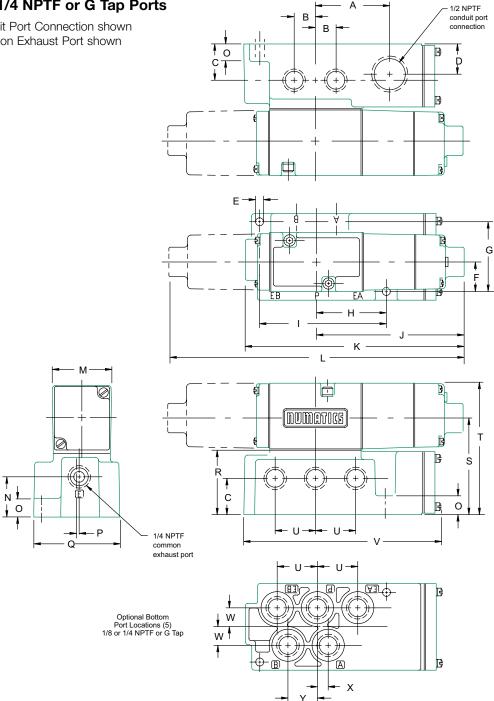


Valve on Individual Base

Dimensions: Inches (mm)

Base 1/8 or 1/4 NPTF or G Tap Ports

1/2 NPTF Conduit Port Connection shown 1/4 NPTF Common Exhaust Port shown



A	В	C	D	E	F	G	Н	1	J (AC)	J (DC)	K (AC)	K (DC)	L (AC)	L (DC)
1.75 (44.5)	0.47 (11.9)	0.84 (21.3)	0.69 (17.5)	0.20 (5.1)	0.69 (17.5)	1.63 (41.4)	1.63 (41.4)	2.94 (74.7)	3.44 (87.4)	4.13 (104.9)	5.07 (128.8)	5.75 (146.1)	6.89 (175.0)	8.26 (209.8)
М	N	0	P	Q	R	S	T	U	٧	W	Х	Y		

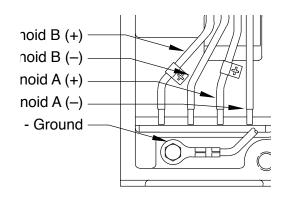


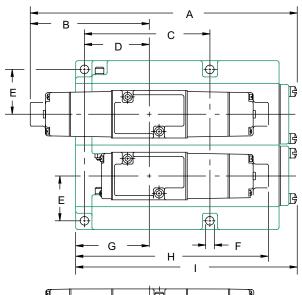
Manifold Assembly

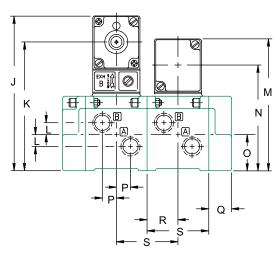
Dimensions: Inches (mm)

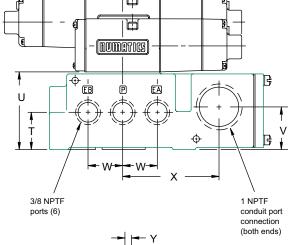
1/8 or 1/4 NPTF or G Tap Ports

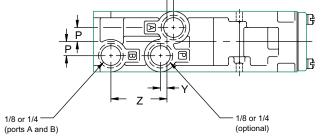
1 NPTF Conduit Port Connection shown







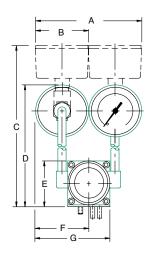


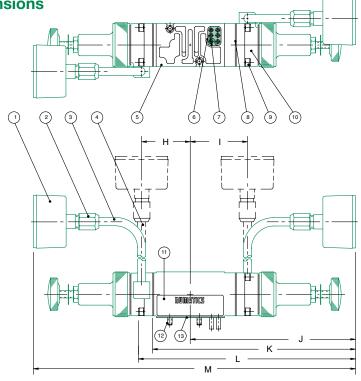


A (AC)	A (DC)	B (AC)	B (DC)	C	D	E	F	G	H (AC)	H (DC)		J	K	L
7.73 (196.3)	8.42 (213.9)	3.44 (87.4)	4.13 (104.9)	3.59 (91.2)	1.84 (46.7)	1.23 (31.2)	0.258 (6.55)	2.13 (54.1)	5.57 (141.5)	6.26 (159)	6.40 (162.6)	4.35 (110.5)	3.55 (90.2)	0.3 (8.6
M	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	



Sandwich Pressure Regulator Dimensions



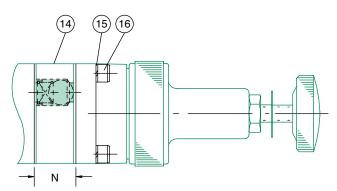


Check Assembly Kits

RC: 239-541 RQ: 239-536

Jumper Plate Kit

229-685



134-303
134-303
134-304
125-338 125-339 125-340 125-344
230-286 230-286 230-276
127-318
113-281
127-144
ely)
122-551
127-313
113-278
239-541 239-536
128-116
127-606

- * RS models require (1).

 ** (1) for RS;
 (2) for RD, RE, RT;
 (4) for RC, RQ.

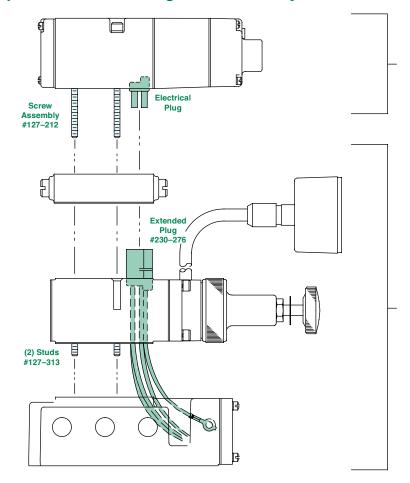
 ~ RS models require (4).

 *** For converting RD into RC or RQ.

Dimensions: Inches (mm)													
A	В	C	D	E	F	G	Н	I	J	K	L	M	N
3.22 (82.0)	1.62 (41.0)	6.07 (154.0)	4.91 (125.0)	1.39 (35.3)	1.61 (41.0)	2.27 (58.0)	1.50 (38.0)	1.76 (45.0)	5.19 (132.0)	6.31 (160.0)	6.76 (172.0)	10.11 (257.0)	0.53 (13.5)

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Speed Control and Regulator Assembly



EXAMPLE

081SA402K000030

Single solenoid valve unit with plugs and extra long mounting screws for use with speed control

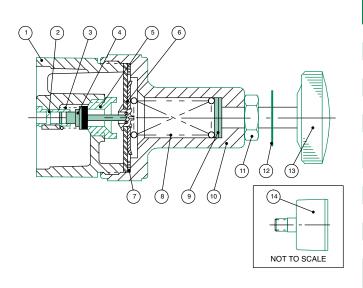
082RS135U000000

1/4 NPTF single pressure regulator (10–130 PSIG) with extended plug receptacle and speed control sandwich mounted on an individual base with side ports and common exhaust

EXAMPLE ORDER:

Valve: 081SA402K000030 Regulator: 082RS135U000000 ASSEMBLED

Regulator Service Kit 229-668



Det.	No.	Post Name	Pre	ssure Range I	PSIG				
No.	Req'd	Part Name	3-30	5-60	10-130				
1	1	Regulator Assembly** (not	ssembly** (not sold separately)						
2 *	1	Retainer	116-310	116-310	116-310				
3 *	1	Spring	115-226	115-226	115-226				
4 *	1	Poppet Assembly	221-123	221-123	221-123				
5 *	1	Poppet Seat	124-148	124-148	124-148				
6 *	1	Diaphragm Assembly	213-302	213-302	213-302				
7 *	1	Washer	116-312	116-312	116-312				
8	1	Bonnet Spring	115-211	115-212	115-213				
9 *	1	Spring Guide	116-293	116-293	116-293				
10	1	Bonnet	125-342	125-342	125-342				
11	1	Locknut	128-177	128-177	128-177				
12	1	Pressure Label	122-508	122-509	122-510				
13	1	Knob Assembly	213-284	213-284	213-284				
14	1	Regulator Gauges (with PSIG of)	214-116 (0-30)	214-116 (0-30)	214-103 (0-160)				
_	0	it Kits ator assembly, gaskets,	229-696	229-697	229-698				

^{*} Indicates parts included in kit

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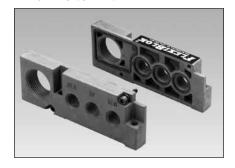
End Plate Kit

NPTF 229-691

G Tap 229-938

G Tap 239-529

G galleries/metric conduit G galleries/NPTF conduit



			Part No.		
Number Required	Part Name	NPTF	G Tap w/ Metric Conduit	G Tap w/ NPTF Conduit	
1	Gasket	113-280	113-280	113-280	
1	Right End Plate	104-228	104-275	104-466	
1	Left end Plate	104-227	104-276	104-467	
2	Screws	127-103	127-103	127-103	

Blank Station Plate Kit

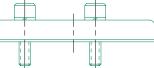
229-686

Blocking Disc Kit

229-994

Includes gasket #113-278 and screw assemblies #127-

235.



Includes o-ring seal #126-204.



Adaptor Kits with End Plates

Mark 8 RIGHT of Mark 15 Kit

229-693

(when viewed for the cylinder ports of assembly) Includes kit #229-692 (Mark 8 adaptor, screws, seals)

- + Mark 8 right end plate + Mark 15 left end plate
- + screw assembly

229-695

Mark 8 LEFT of Mark 15 Kit

(when viewed for the cylinder ports of assembly) Includes kit #229-694 (Mark 8 adaptor, screws, seals)

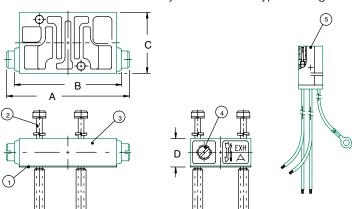
- + Mark 8 left end plate + Mark 15 right end plate
- + screw assembly

left end plate Mark 8 to 15 Mark 15 right end plate

Speed Control Kit

229-667

Must order extended plug, #230-276 with kit. Mounts between valve and base. May be used with type RS regulator.



Parts List

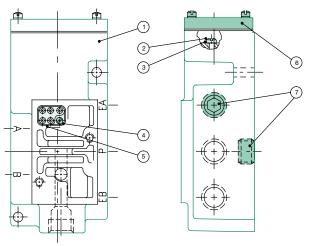
Port Type	Part. No.	Part Name	Part No.
1 *	1	Gasket	113-278
2 *	2	Screw Assembly	127-212
3 *	1	Speed Control (not sold separately)	
4 *	2	Metering Screw	213-219
5 *	1	Extended Plug Harness Assembly	230-276

*Indicates parts included in speed control kit.

Dimensions: Inches (mm)								
A	В	C	D					
2.75 (70.0)	2.35 (59.7)	1.33 (33.8)	0.60 (15.3)					

numatics*

Base Assembly Kits



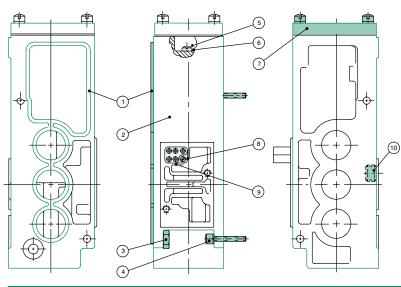
Parts List

Det. No.	No. Req'd	Part Name	Part No.
1 *	1	Base (not sold separately)	
2 *	2	Screw	127-176
3 *	1	Washer	128-162
4 *	1	Screw	127-318
5 *	1	Plug receptacle Standard: for use w/speed control:	230-274 230-276
6 *	1	Conduit Cover Assembly	205-309
7 **		Pipe Plug	Consult Factory

- * Indicates parts included in kit
- ** Not used on 3A, 3C; # plugs vary consult factory.

1/8 NPTF				1/4 NPTF			G 1/8			G 1/4		
Base Type	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug
31 & 35	203-429	203-437	203-445	203-433	203-441	203-449	203-671	203-671	203-673	203-558	203-556	203-674
32 & 36	203-430	203-438	203-446	203-434	203-442	203-450	203-675	203-677	203-678	203-676	203-693	203-679
3A & 3C	203-427	203-435	203-443	203-431	203-439	203-447	203-680	203-682	203-684	203-681	203-649	203-685
3B & 3D	203-428	203-436	203-444	203-432	203-440	203-448	203-686	203-688	203-690	203-687	203-689	203-691

Flexiblok Manifold Kit



Det. No.	No. Req'd	Part Name	Part No.
1 *	1	Gasket	113-280
2 *	1	Valve Blok (not sold separately)	
3 *	2	Nut	128-128
4 *	2	Screw	127-103
5 *	2	Screw	127-176
6 *	1	Washer	128-162
7 *	1	Conduit Cover Assembly	205-303
8 *	1	Screw	127-318
9 *	1	Plug receptacle Standard: for use w/speed control:	230-274 230-276
10	1	Pipe Plug	Consult Factory
	1	O-Ring for Aux Inlet	126-202

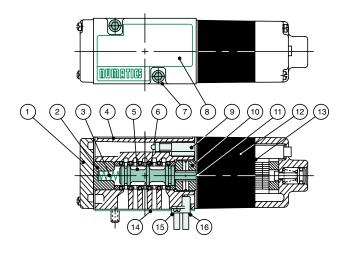
^{*} Indicates parts included in kit

1/8 NPTF				1/4 NPTF G 1/8				G 1/4				
Flexiblok	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug	No Plug	STD. Plug	S.C. Plug
Side & Bottom Ports	229-669	229-675	229-681	229-670	229-676	229-682	239-385	229-945	239-386	229-936	229-937	239-387
Side & Bottom Ports w/Bottom P	229-671	229-677	229-683	229-672	229-678	229-684	239-388	239-390	239-392	239-389	239-391	239-393
Auxiliary Inlet	229-756	229-759	N/A	229-762	229-765	N/A	239-394	239-396	N/A	239-385	239-397	N/A
Alternate Outlet	229-757	229-760	N/A	229-763	229-766	N/A	239-402	239-404	N/A	239-403	239-405	N/A
Alternate Outlet, Auxiliary Inlet	229-758	229-761	N/A	229-764	229-767	N/A	239-398	239-400	N/A	239-399	239-401	N/A



Service Kits and Parts

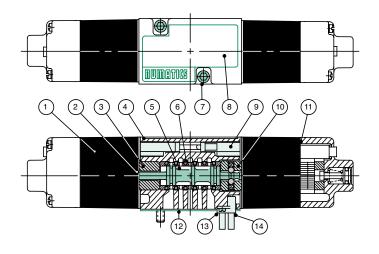
Kit No. MK8-K1 (For Models 081SA4, 082SA4)



Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	1	Spring Cover Assembly	204-258
2 *	1	Spring Retainer	116-305
3 *	1	Spring	115-117
4	1	Valve Body (not sold separately)	
5	1	Sleeve Assembly w/seals	126-202
6 *	6	Seals	126-202
7	2	Screw	127-211
8	1	Nameplate	122-936
9	1	Receptacle Housing	125-331
10 *	1	Detented Body	110-114
11 *	1	Gasket solenoid/valve	113-276
12	1	Solenoid Capsule	See p.24
13 *	1	Gasket solenoid/end cap	113-277
14 *	1	Gasket valve/base	113-278
15	1	Screw	127-318
16	1	3-Wire Plug Assembly	230-267

Kit No. MK8-K2 (For Models 081SS4, 082SS4)

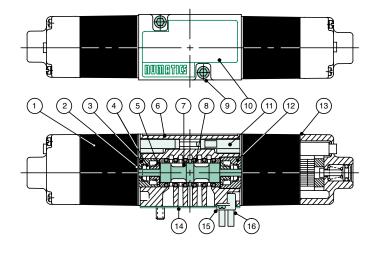


Det. No.	No. Req'd	Part Name	Part No.
1	2	Solenoid Assembly	See p.24
2 *	2	Gasket solenoid/valve	113-276
3 *	1	Spacer	116-306
4	1	Valve Body (not sold separately)	
5	1	Sleeve Assembly w/seals	209-264
6 *	6	Seals	126-202
7	2	Screw	127-211
8	1	Nameplate	122-936
9	2	Receptacle Housing	125-331
10 *	1	Detented Assembly	210-118
11 *	2	Gasket solenoid/end cap	113-277
12 *	1	Gasket valve/base	113-278
13	1	Screw	127-318
14	1	5-Wire Plug Assembly	230-268



Service Kits and Parts (continued)

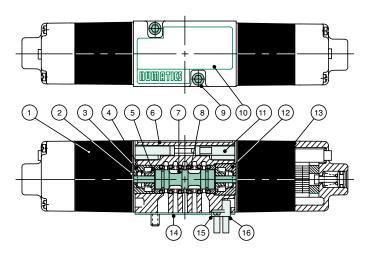
Kit No. MK8-K3 (For Models 081SS5, 082SS5)



Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	2	Solenoid Assembly	See p.24
2 *	2	Gasket solenoid/valve	113-276
3 *	1	Spacer	116-307
4 *	2	Spring	115-221
5 *	2	Spring Retainer	116-309
6	1	Valve Body (not sold separately)	
7	1	Sleeve Assembly w/seals	209-265
8 *	6	Seals	126-202
9	2	Screw	127-211
10	1	Nameplate	122-936
11	2	Receptacle Housing	125-331
12 *	1	Spacer	116-308
13 *	2	Gasket solenoid/end cap	113-277
14 *	1	Gasket valve/base	113-278
15	1	Screw	127-318
16	1	5-Wire Plug Assembly	230-268

Kit No. MK8-K3 (For Models 081SS6, 082SS6)

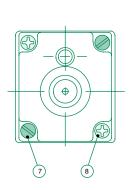


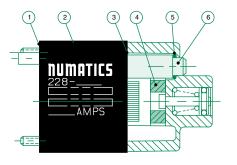
Det. No.	No. Req'd	Part Name	Part No.
1	2	Solenoid Assembly	See p.24
2 *	2	Gasket solenoid/valve	113-276
3 *	1	Spacer	116-307
4 *	2	Spring	115-221
5 *	2	Spring Retainer	116-309
6	1	Valve Body (not sold separately)	
7	1	Sleeve Assembly w/seals	209-266
8 *	6	Seals	126-202
9	2	Screw	127-211
10	1	Nameplate	122-936
11	2	Receptacle Housing	125-331
12 *	1	Spacer	116-308
13 *	2	Gasket solenoid/end cap	113-277
14 *	1	Gasket valve/base	113-278
15	1	Screw	127-318
16	1	5-Wire Plug Assembly	230-268



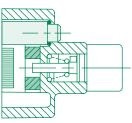
Solenoid Capsule Assemblies

					Voltage				Light (Option	
Override Type	Valve	Plug-In	AC		DC		AC		DC		
	Function		100-115/50 110-120/60	200-230/50 220-240-60	24/50-60	12VDC	24VDC	100-130V	200-260V	8-13VDC	14-24VDC
	2 Position	Std. w/light	237-415	237-416	237-423	226-591	226-592	204-252	204-253	204-304	204-305
Non Locking	2 Position	DIN no light	237-427	237-429	237-429	226-628	226-629	N/A	N/A	N/A	N/A
	3 Position	Std. w/light	237-417	237-418	237-424	226-595	226-596	204-254	204-255	204-308	204-309
	3 Position	DIN no light	237-430	237-431	237-432	226-632	226-633	N/A	N/A	N/A	N/A
Flush Locking	2 Position	Std. w/light	237-451	237-452	237-453	226-611	226-612	204-272	204-273	204-290	204-291
Ext. Knurled Rod Locking	2 Position	Std. w/light	237-454	237-455	237-456	226-619	226-620	204-270	204-271	204-298	204-299
Solenoid Only less end cap;		Std. Plug-In	228-703	228-704	228-704	225-284	225-285			204-250 204-251	
screws & gasket included	ts not	DIN Plug-In	228-675	228-676	228-676	225-238	225-239	Flush locking std. plug 2 position Extended knurled rod locking std. 2 position		204-269 204-268	

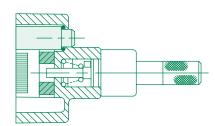




Flush Non-Locking override w/light Standard



Flush Locking override w/light (Add option "011B" to model no.) Example: 081SA400K<u>011B</u>30

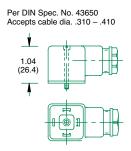


Extended Knurled Rod Locking override w/light (Add option "011Z" to model no.)
Example: 081SA400K<u>011Z</u>30

Parts List

Det. No.	No. Req'd	Part Name	Part No.
1	1	Gasket solenoid/valve	113-276
2	1	Solenoid Capsule Assembly	See chart above
3	1	Gasket end cap/solenoid	113-277
4	1	Bumper: Black for 2 position Red for 3 position	114-138 114-139
5	1	O-Ring Seal	126-144
6	1	Light Assembly: 100-115/50 110-120/60 200-230/50 220-240/60 12VDC 24VDC	230-235 230-235 230-236 230-236 230-283 230-284
7	2	Solenoid Screws AC Solenoid Screws DC	127-314 127-316
8	2	End Cap Screws	127-315

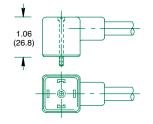
Plug Assemblies



Part Name	Part No.
Gray (A) Plug Ass'y	230-369
Black (B) Plug Ass'y	230-370
Plug w/24VDC Light	230-371
Plug w/110VAC Light	230-372
Plug w/220VAC Light	230-373

Superstructure Plug with Cord

Per DIN Spec. No. 43650 For plug–in solenoids wiring options 2 & 4, order cord separately .



Part No.
230-213
230-215

dimensions = inches (in parenthesis = mm)



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