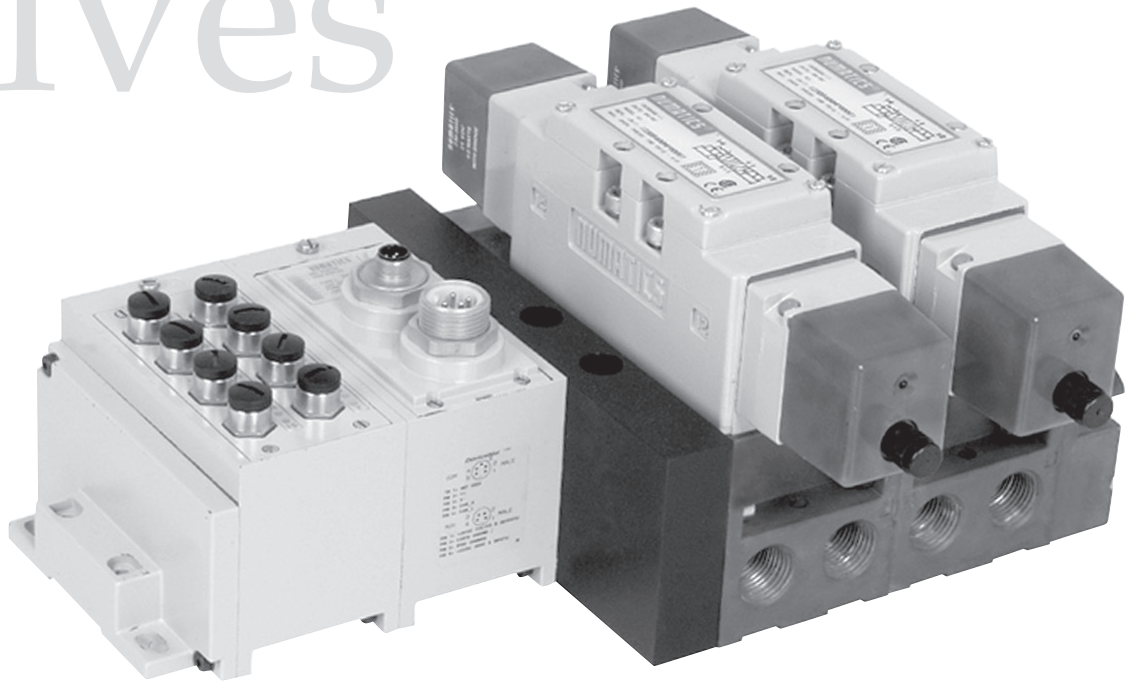




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Tél : + 237 233 424 913
et + 237 674 472 158

www.2comappro.com

Valves



Sub-Base Mounted Valves to ISO 5599/2

ISO 9001:2000



Certificate No. FM 38113

ASCO


EMERSON

General Information

ISO 1, ISO 2 and ISO 3 valve series incorporate the famous Numatics lapped spool and sleeve for ultimate service life.

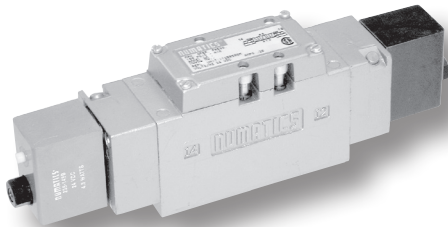
Due to the great variety of configuration and drive possibilities, they adapt to each task.

Characteristics:

- Modular reality, thus flexible and wear-free.
- **Strong and light** due to aluminium alloy housing.
- Equipped with the famous **Numatics lapped spool and sleeve assembly**:
- Insensitive, self-cleaning spool made of stainless steel with "air bearing effect" by air entrained between spool and sleeve (1 µm clearance), typical service life of **more than 200 million cycles**.
- Can operate with **different pressures at the same time** within one valve, **independent** of flow direction.
- Available as **5-port., 2-pos. and 3-position valves**.
- Can be combined with **G2-2 Electronics**.
- **Worldwide support** by Numatics subsidiaries and dealers in **almost all countries in the world**.

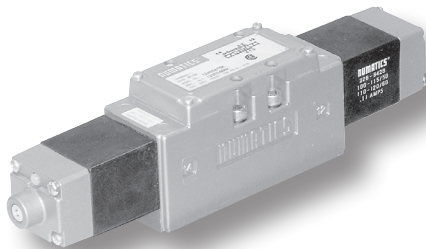


Sub-base mounted valves to ISO 5599/2



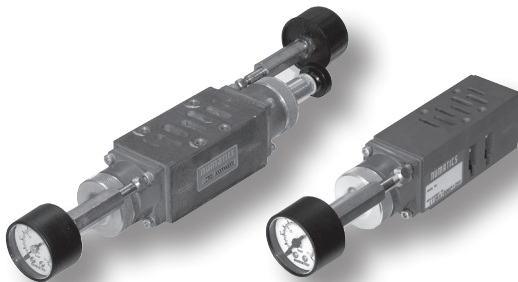
**ISO 1 / ISO 2 / ISO 3 Series
Solenoid pilot actuated**

Port size 1/4 to 1/2
Flow capacity 1300 NI/min (C_v 1.3)
to 5250 NI/min (C_v 5.25)



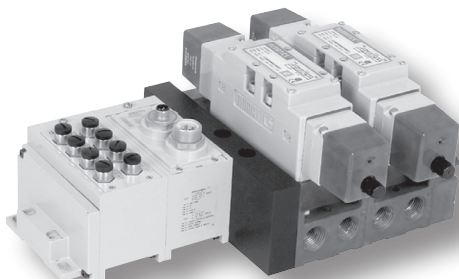
**Serie ISO 1 / ISO 2 / ISO 3
Direct solenoid actuated**

Port size 1/4 bis 1/2
Flow capacity 1200 NI/min (C_v 1.2)
to 4400 NI/min (C_v 4.4)



**ISO 1 / ISO 2 / ISO 3 Series
Single or dual regulators**

Port size 1/4 to 1/2



G2-2 Electronics

Can be connected to G2-2 electronics
see page 321

Contents

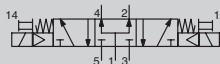
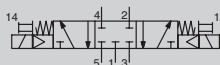
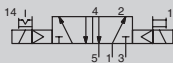
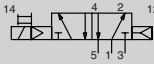
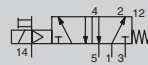
Series	Description	Page	
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	Sandwich pressure regulator • Overview	253	
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ISO 1 / ISO 2 / ISO 3 Series • Solenoid pilot actuated valves

5-ported, 2- and 3-position valves with spool and sleeve assembly

NI/min = 1300 to 5250 / C_v = 1.3 to 5.25

- Solenoid pilot actuated
- Meets with ISO standard 5599/2
- ISO size 1, 2 and 3
- Terminal block for simplified wiring
- Standard side and bottom ports
- VAC/VDC colour-coded solenoids
- Sandwich pressure regulator possible
- Plug-in sandwich speed control possible
- Valve isolating plate
- No internal wiring
- Protection IP 65/NEMA 4
- For flow media please see operating instructions for compressed air



Solenoid pilot actuated

- BA4** 5-ported, 2-pos., single actuated, spring return
- BW4** 5-ported, 2-pos., single actuated, air return
- BB4** 5-ported, 2-pos., double actuated, locking
- BB5** 5-ported, 3-pos., double actuated, spring centred (1 blocked, 4 & 2 exhausted)
- BB6** 5-ported, 3-pos., double actuated, spring centred (all ports blocked)
- BB7** 5-ported, 3-pos., double actuated, spring centred 1 connected with 2 & 4

Technical Data Valves

Solenoid pilot actuated valves

Flow capacity (at 6 bar, Δp 1 bar):	ISO 1 Series = 1300 NI/min = C _v 1.3
	ISO 2 Series = 2900 NI/min = C _v 2.9
	ISO 3 Series = 5250 NI/min = C _v 5.25
Operating pressure:	Vacuum to 10 bar
Pilot pressure:	1 to 9 bar
Ambient temperature range:	-20 °C to 45 °C

Materials

Body:	Aluminium alloy
Other parts:	Stainless steel, steel, aluminium alloy or plastic
Static seals:	NBR
Finish:	Anodized or varnished

Operating Data Valves

Solenoid pilot actuated valves

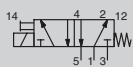
Voltage: all ISO sizes	24 VDC	24 VAC	24 VAC	115 VAC	120 VAC	230 VAC	240 VAC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Power (Watts): all ISO sizes	4.0	N/A	N/A	N/A	N/A	N/A	N/A
Holding current (A): all ISO sizes	0.16	0.36	0.29	0.06	0.06	0.03	0.03
Peak energise voltage (A): all ISO sizes	N/A	0.52	0.47	0.10	0.09	0.05	0.05

Response Time [ms]

ISO 1 single actuated (5-ported, 2-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
	De-en. 36	De-en. 34	De-en. 35	De-en. 35	De-en. 36	De-en. 39	De-en. 38
ISO 2 single actuated (5-ported, 2-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
	De-en. 60	De-en. 53	De-en. 53	De-en. 55	De-en. 54	De-en. 57	De-en. 58
ISO 3 single actuated (5-ported, 2-pos.):	Energ. 20	Energ. 18	Energ. 19	Energ. 17	Energ. 17	Energ. 18	Energ. 18
	De-en. 66	De-en. 67	De-en. 67	De-en. 69	De-en. 68	De-en. 72	De-en. 72
ISO 1 double actuated (5-ported, 2-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
ISO 2 double actuated (5-ported, 2-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
ISO 3 double actuated (5-ported, 2-pos.):	Energ. 20	Energ. 18	Energ. 19	Energ. 17	Energ. 17	Energ. 18	Energ. 18
ISO 1 double actuated (5-ported, 3-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
	De-en. 36	De-en. 34	De-en. 35	De-en. 35	De-en. 36	De-en. 39	De-en. 38
ISO 2 double actuated (5-ported, 3-pos.):	Energ. 13	Energ. 13	Energ. 12	Energ. 12	Energ. 12	Energ. 13	Energ. 13
	De-en. 60	De-en. 53	De-en. 53	De-en. 55	De-en. 54	De-en. 57	De-en. 56
ISO 3 double actuated (5-ported, 3-pos.):	Energ. 20	Energ. 18	Energ. 19	Energ. 17	Energ. 17	Energ. 18	Energ. 18
	De-en. 66	De-en. 67	De-en. 67	De-en. 69	De-en. 68	De-en. 72	De-en. 72

ISO 1 / ISO 2 / ISO 3 Series • Direct Solenoid Pilot Actuated

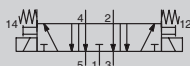
Direct Solenoid Actuated



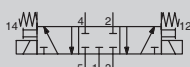
SA4 5-ported, 2-pos., single actuated, spring return



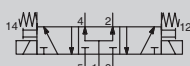
SS4 5-ported, 2-pos., double actuated, locking



SS5 5-ported, 3-pos., double actuated, spring centred (1 blocked, 4 & 2 exhausted)



SS6 5-ported, 3-pos., double actuated, spring centred (all ports blocked)

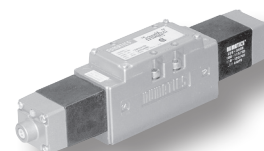


SS7 5-ported, 3-pos., double actuated, spring centred (1 connected with 2 & 4)

5-ported, 2- and 3-position valves with spool and sleeve assembly

NI/min = 1200 to 4400 / $C_v = 1.2$ to 4.4

- Direct solenoid pilot actuated
- Meets with ISO standard 5599/2
- ISO sizes 1, 2 and 3
- Terminal block for simplified wiring
- Standard side an bottom ports
- VAC/VDC colour-coded solenoids
- Sandwich pressure regulator possible
- Plug-in Sandwich speed control possible
- Valve isolating plate
- No internal wiring
- Protection IP 65/NEMA 4
- For flow media please see operating instructions for compressed air,



Technical Data Valves

Direct solenoid actuated	
Flow capacity (at 6 bar, Δp 1bar):	ISO 1 Series = 1200 NI/min = C_v 1.2 ISO 2 Series = 2200 NI/min = C_v 2.2 ISO 3 Series = 4400 NI/min = C_v 4.4
Operating pressure:	Vacuum to 10 bar
Pilot pressure:	1 to 9 bar
Ambient temperature range:	-20 °C to 45 °C

Materials	
Body:	Aluminium alloy
Other parts:	Stainless steel, steel, aluminium alloy or plastic
Static seals:	NBR
Finish:	Anodized or varnished

Operating Data Valves

Direct solenoid actuated							
Voltage: all ISO sizes	24 VDC	24 VAC	24 VAC	115 VAC	120 VAC	230 VAC	240 VAC
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Power (Watts) ISO 1 / ISO 2:	6.0	N/A	N/A	N/A	N/A	N/A	N/A
ISO 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Holding current (A) ISO 1 / ISO 2:	0.25	0.59	0.42	0.11	0.09	0.07	0.05
ISO 3	N/A	0.59	0.42	0.11	0.09	0.07	0.05
Peak energise voltage (A): all ISO sizes	N/A	2.85	2.53	0.63	0.58	0.31	0.29

Response Time [ms]							
ISO 1 / ISO 2 single actuated (5-ported, 2-pos.)	Energ.	38	12	12	12	12	12
	De-en.	12	12	12	12	12	12
ISO 3 single actuated (5-ported, 2-pos.)	Energ.	N/A	12	12	12	12	12
	De-en.	N/A	12	12	12	12	12
ISO 1 / ISO 2 double act. (5-ported, 2-pos.)	Energ.	12	12	12	12	12	12
ISO 3 double actuated (5-ported, 2-pos.)	Energ.	N/A	12	12	12	12	12
ISO 1 / ISO 2 double actuated (5-ported, 3-pos.)	Energ.	38	12	12	12	12	12
	De-en.	12	12	12	12	12	12
ISO 3 double actuated (5-ported, 3-pos.)	Energ.	N/A	N/A	12	12	12	12
	De-en.	N/A	12	12	12	12	12

Valves Series ISO 1 / ISO 2 / ISO 3 • Overview

How to Order: (example)

I24 BA 4 15 M Q 000 61

Series and Port Size

- I12* = ISO 5599/2 Size 1 = 1/4
- I13 = ISO 5599/2 Size 1 = 3/8
- I23* = ISO 5599/2 Size 2 = 3/8
- I24 = ISO 5599/2 Size 2 = 1/2
- I34* = ISO 5599/2 Size 3 = 1/2
- I35 = ISO 5599/2 Size 3 = 3/4

* Use for valve unit only

**First letter = "14" Actuator
Second letter = "12" Actuator**

- BA** = Single solenoid pilot actuated valve with spring control
- BB** = Double solenoid pilot actuated valve locking
- BW** = Single solenoid pilot actuated valve with differential air return (ISO 2 + ISO 3 series only)
- SA** = Single direct solenoid actuated valve with spring return
- SS** = Double direct solenoid actuated valve locking
- 00** = Valve without manifold block

Function

- 4** = 5-ported, 2-pos. valve
- 5** = 5-ported, 3-pos. valve, 1 blocked, 2 & 4 exhausted
- 6** = 5-ported, 3-pos. valve, all ports blocked
- 7** = 5-ported, 3-pos. valve, 1 connected with 4 & 2
- P** = Blank station plate

Mounting

- 00** = Valve unit only
- 01** = 00 with speed control
- 15*** = Manifold block with side and bottom ports
- 25** = 15 with speed control
- 3*A** = Manifold block with side ports and individual exhaust
- 3B** = Manifold block with side and bottom ports and individual exhaust
- 3C** = 3A with speed control
- 3D** = 3B with speed control
- MN** = Midstation supply and exhaust block without "Z-Board"™
- MS** = Midstation supply and exhaust block with "Z-Board"™
- Z1** = Manifold block with side and bottom ports, single "Z-Board"™
- Z2*** = Manifold block with side and bottom ports, double "Z-Board"™
- Z5** = Z1 with speed control
- Z6** = Z2 with speed control

*also used with function P = blank station
** not available for ISO 5599/2 Size 1

Voltage

- 00** = Blank station plate
- 20** = 24 VAC/50-60 Hz
- 30** = 110 VAC/50-60 Hz
- 40** = 230 VAC/50-60 Hz
- 61** = 24 VDC*

* cannot be used with direct solenoid actuated Valves of ISO 3 Series

Options

- 000** = Standard
- 11B** = Flush manual override
- 11Z** = Extended locking manual override
- 14B** = Internal pilot supply from port 1 if not standard
- 14C*** = Internal pilot supply from port 3
- 14D*** = Internal pilot supply from port 5
- 15G** = 5 pin mini connector (valve conduit cover)
- 14X*** = External pilot supply through base or manifold end plates
- 17N** = DC solenoid with surge suppression diode
- 46T** = Zinc plated "T" armature in solenoid(s)-AC only, direct acting only
- 56Y** = 4 pin micro connector in mounting
- 60V** = 4 pin micro connector (valve conduit cover)

* must use one of these options when used with RC, RQ or RD regulators and solenoid pilot valves.

Port Type

- 0** = NPTF-thread (direct solenoid valves)
- G** = G-thread (direct solenoid valves)
- P*** = NPTF-thread (solenoid pilot valves)
- Q** = G-thread (solenoid pilot valves)

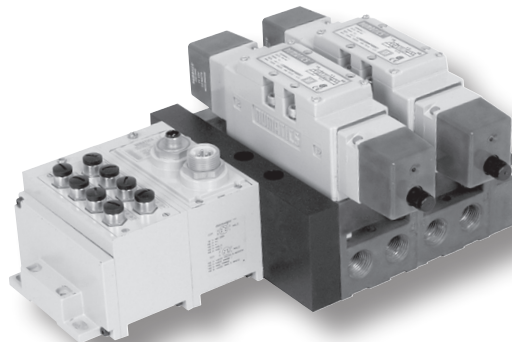
* Standart by option 17N

Wiring Option

- K** = Plug-in VAC with LED indicator
- L** = Standard VAC, with special connector (15G)
- M** = Plug-in VDC with LED indicator
- O** = Blank station plate
- R** = Standard VDC with special connector (60V)

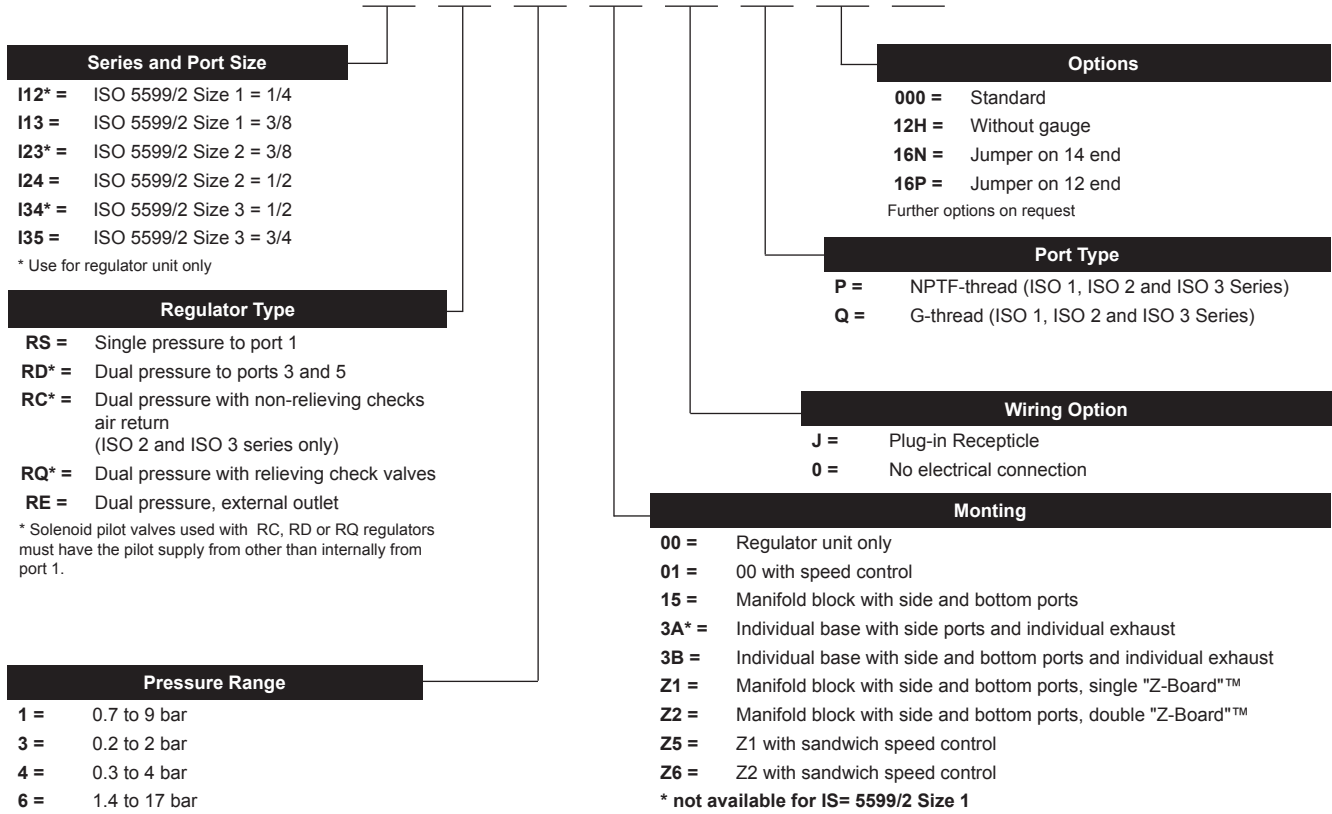
Note:

Internal pilot supply from port 1 is standard for all ISO 5599/2 valve series.



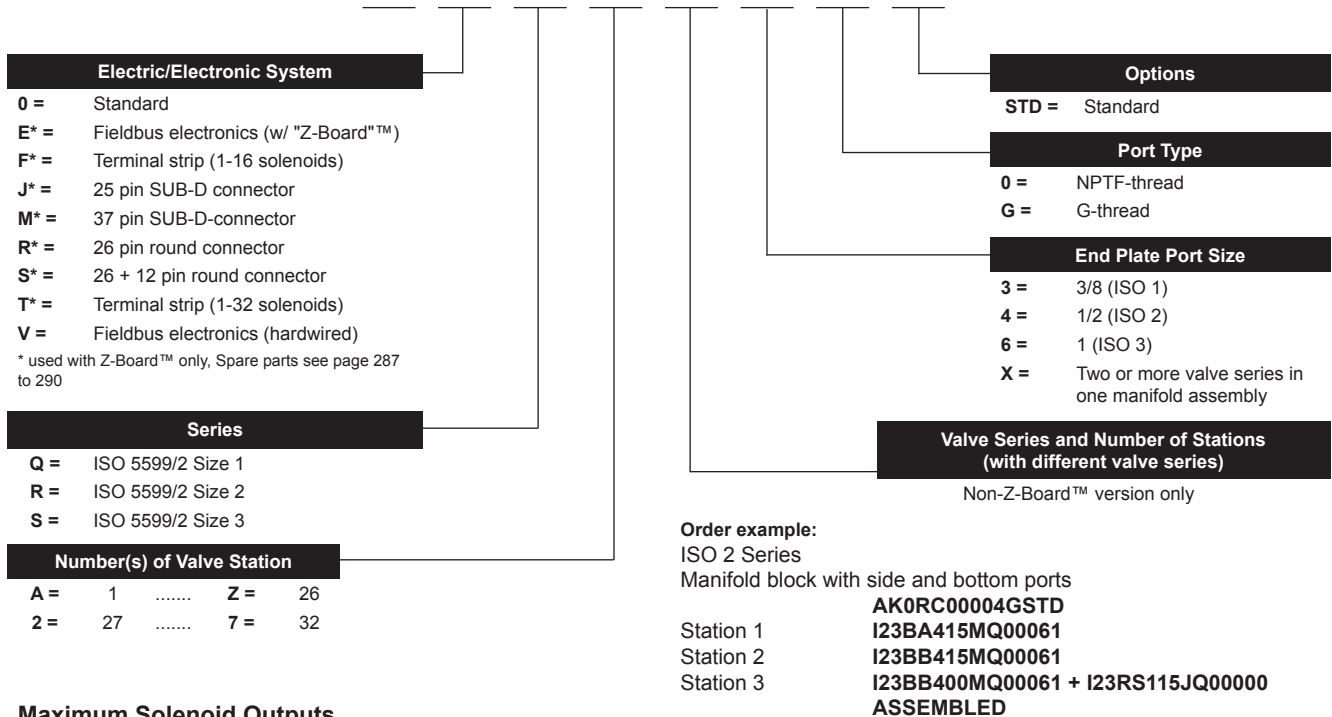
Regulators Series ISO 1 / ISO 2 / ISO 3 • Overview

How to Order: (example) **I24 RS 1 15 J P 000 00**



Completely Assembled Manifolds ISO 1 / ISO 2 / ISO 3 Series • Overview

How to Order: (example) **AK 0 R C 0000 4 GSTD**

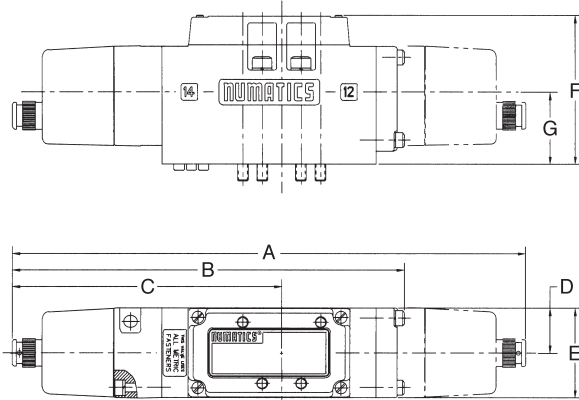


Maximum Solenoid Outputs

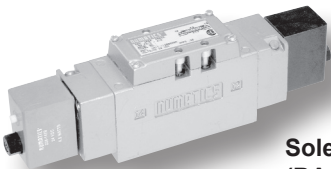
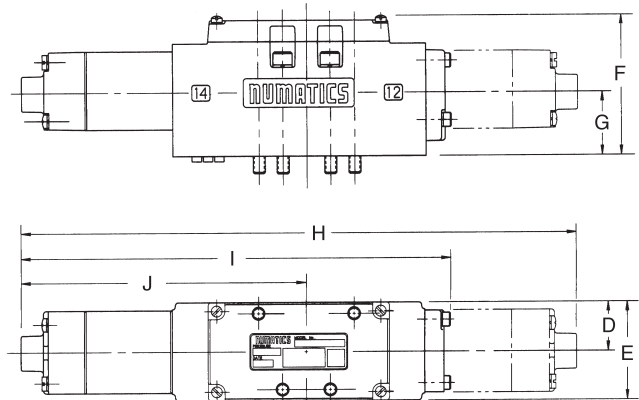
Terminal strip		25 pin SUB-D connector	37 pin SUB-D connector	26 pin Round connector	26 + 12 pin Round connector
AK "F"	AK "T"	AK "J"	AK "M"	AK "R"	AK "S"
16	32	22	32	22	32

Valves • Sandwich Pressure Regulator • Dimensions

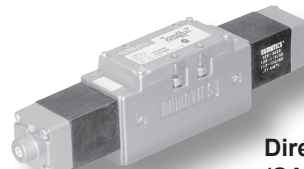
Solenoid Pilot Actuated Valves



Direct Solenoid Actuated Valves



Solenoid pilot actuated valve (BA..BW..BB..)

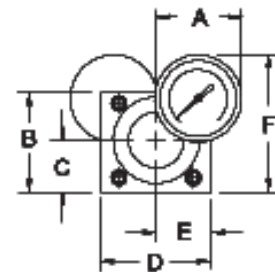
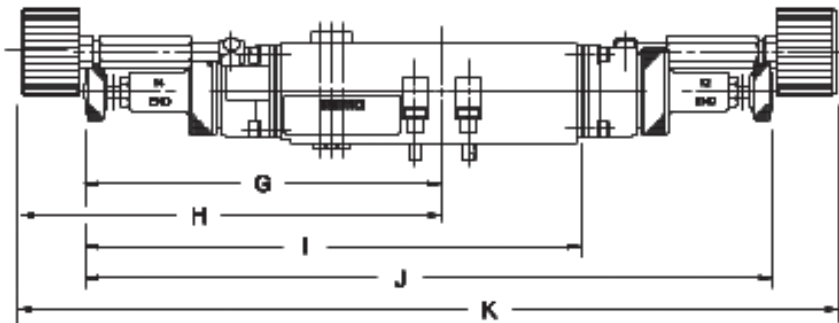


Direct solenoid actuated valve (SA..SS..)

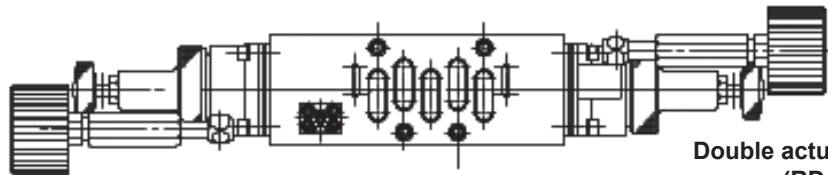
Dimensions [mm]

Serie	A	B	C	D	E	F	G	H		I		J	
								VDC	VAC	VDC	VAC	VDC	VAC
ISO 1	236.7	180.6	124.2	21.0	41.9	68.4	33.0	285.3	247.7	205.5	186.7	148.1	129.5
ISO 2	264.4	210.1	136.1	25.1	50.0	70.8	31.8	313.4	275.8	233.2	214.7	160.5	141.7
ISO 3	295.9	235.5	153.7	32.0	64.0	74.4	31.0	N/A	315.0	N/A	229.9	N/A	148.8

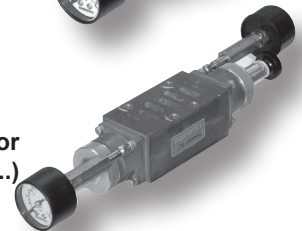
Sandwich Pressure Regulator, Single or Double Actuated



Single actuated regulator (RS..)



Double actuated regulator (RD..RC..RQ..RE..)



Dimensions [mm]

Serie	A	B	C	D	E	F	G	H	I	J	K
ISO 1	39.4	45.0	23.4	43.2	21.6	62.5	151.9	180.3	198.9	284.2	341.4
ISO 2	39.4	45.0	23.4	51.3	25.9	62.5	160.8	189.5	223.8	309.6	366.8
ISO 3	39.4	67.3	33.5	64.0	32.0	85.3	231.4	195.8	299.0	443.2	371.6

Spare Part Kits see page 434

Sandwich Pressure Regulator • General Information

Sandwich Pressure Regulator Types RS / RD / RC and RQ

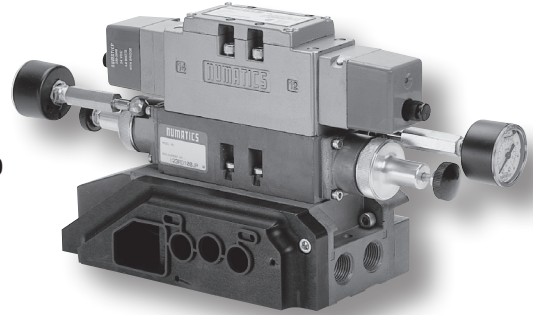
When ordering a valve plus regulator mounted on a base or manifold, list the valve unit-only model number and include the mounting requirements only with the regulator.

Example 1:

A single solenoid pilot actuated 5-port., 2-pos. valve is to be assembled with a single sandwich pressure regulator on an individual base with side and bottom ports and individual exhaust.

Order code:

5-port., 2-pos. valve (without individual base) **I23BA400MQ00061**
 Sandwich pressure regulator with individual base **I23RS13AJQ000000**
ASSEMBLED



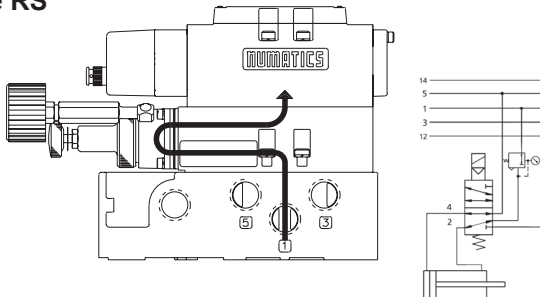
Example 2:

A double solenoid pilot actuated 5-port., 2-pos. valve is to be assembled with a dual sandwich pressure regulator on a manifold block with side and bottom ports.

Order code:

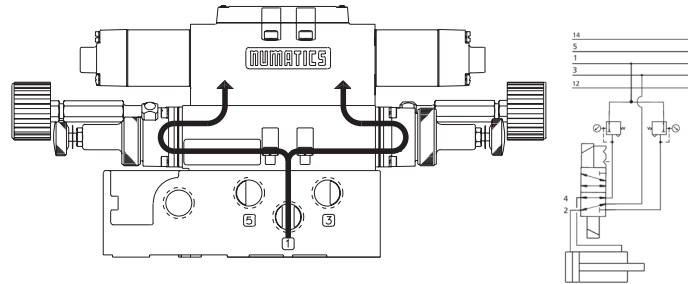
5-port., 2-pos. valve (without manifold block) **I23BB400MQ14C61**
 Sandwich pressure regulator with manifold block **I23RD115JQ000000**
ASSEMBLED

Type RS



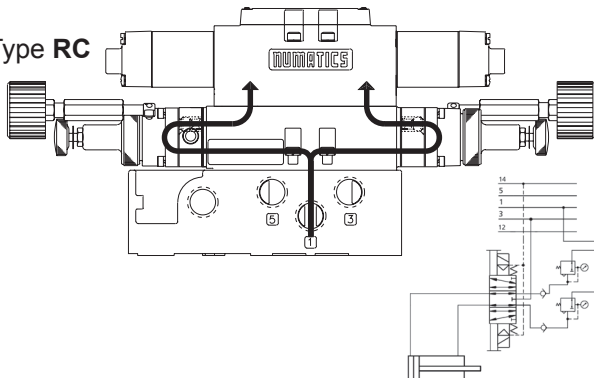
Single pressure from a single supply

Type RD



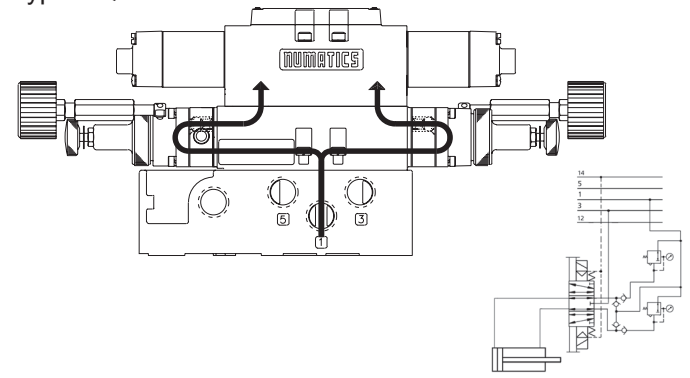
Dual pressure from a single supply.

Type RC



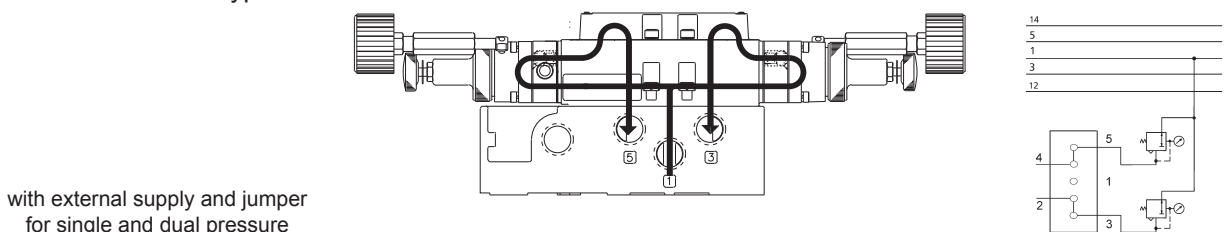
Non-relieving:
traps downstream pressure if upstream is exhausted.

Type RQ



Relieving:
exhausts pressure in cylinder if upstream is exhausted.

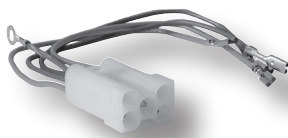
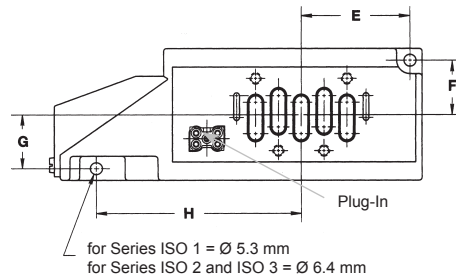
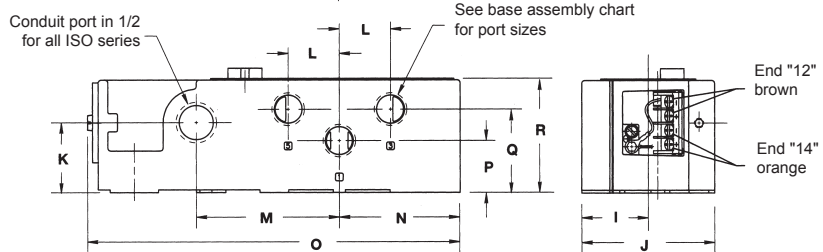
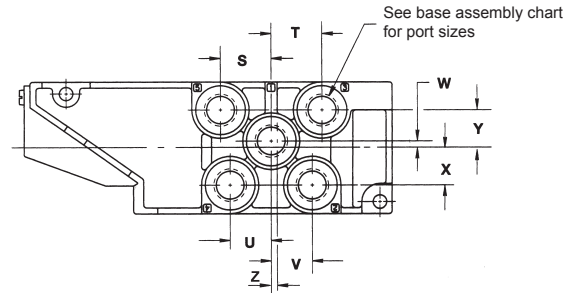
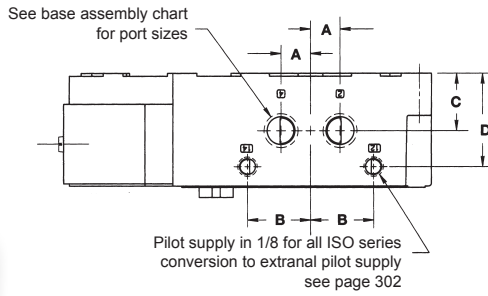
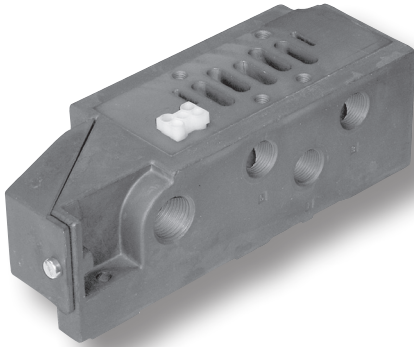
Type RE



with external supply and jumper
for single and dual pressure

Individual Bases

Individual Bases • Dimensions



Plug-In

Series	Order Code	
	Standard	with "Z-Board"™
ISO 1	230-680	230-1066
ISO 2	230-707	230-1062
ISO 3	230-707	230-1062

Individual Bases

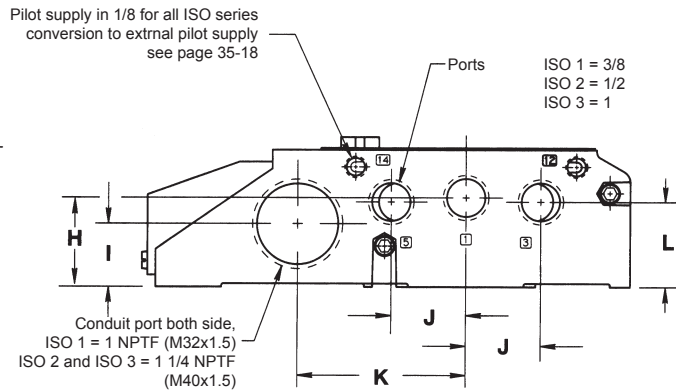
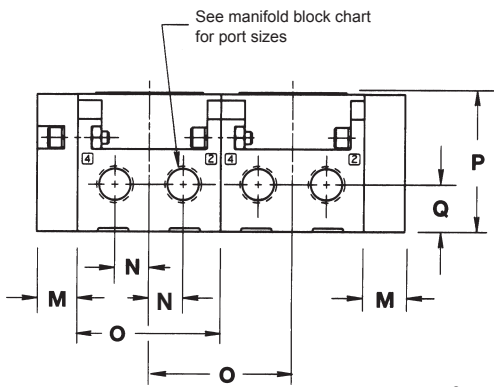
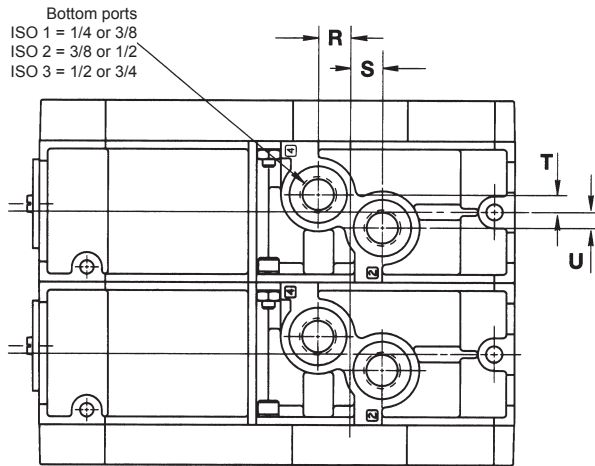
Series	Port Size		Order Code	
	G-thread	Side Ports	Side and Bottom Ports	
ISO 1	1/4	203-819	203-823	
	3/8	203-820	203-824	
ISO 2	3/8	203-831	203-835	
	1/2	203-832	203-836	
ISO 3	1/2	203-839	203-843	
	3/4	203-840	203-844	
NFPT-thread on request				

Dimensions [mm]

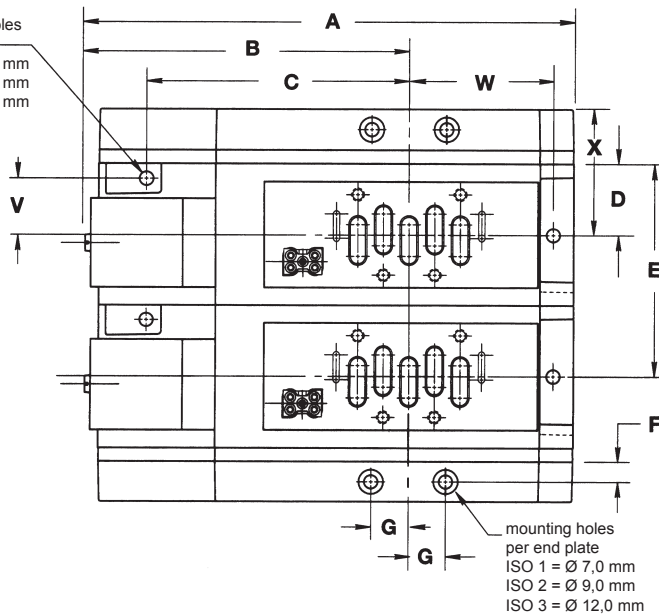
Serie	A	B	C	D	E	F	G	H	I	J	K	L	M
ISO 1	12.7	25.9	20.8	37.8	39.4	22.6	22.9	92.2	29.0	57.7	23.9	21.8	60.2
ISO 2	15.5	33.3	30.2	49.3	57.2	28.7	28.7	108.0	35.1	69.9	37.2	26.9	75.4
ISO 3	20.6	45.0	33.9	69.3	63.0	38.6	36.3	136.7	45.0	89.9	46.7	37.8	103.9
Serie	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
ISO 1	45.9	164.3	20.8	33.8	47.0	21.3	27.2	12.7	15.0	8.4	16.5	16.0	3.0
ISO 2	63.5	197.1	27.7	44.2	60.5	26.7	26.7	21.6	21.6	3.3	19.8	19.8	N/A
ISO 3	69.3	235.2	33.9	51.3	84.8	41.4	41.4	27.2	27.2	20.6	20.6	20.6	N/A

Manifolds • Dimensions

Manifolds



2 mounting holes per station
 ISO 1 = Ø 4.3 mm
 ISO 2 = Ø 6.4 mm
 ISO 3 = Ø 8.4 mm

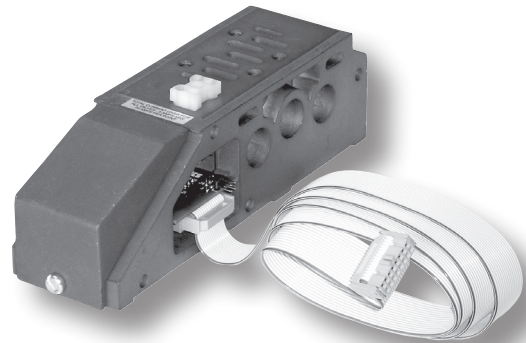


Dimensions [mm]

Series	A	B	C	D	E	F	G	H	I	J	K	L	M
ISO 1	182.6	125.0	N/A	26.4	79.0	14.0	14.0	33.5	24.6	27.9	63.5	30.5	22.1
ISO 2	228.6	151.6	122.9	33.3	100.1	16.0	17.5	41.9	29.5	35.1	78.7	39.9	25.4
ISO 3	269.5	180.3	150.9	42.7	128.3	15.0	25.9	45.5	31.0	52.1	104.1	42.4	30.0
Series	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
ISO 1	13.0	52.8	55.4	16.0	13.0	13.0	6.6	6.6	N/A	51.3	48.3		
ISO 2	16.0	66.8	65.5	21.8	15.0	15.0	8.1	7.6	26.4	67.3	58.7		
ISO 3	21.1	85.6	77.7	19.6	17.8	20.3	12.4	11.9	31.8	79.0	72.6		

Manifolds • Accessories

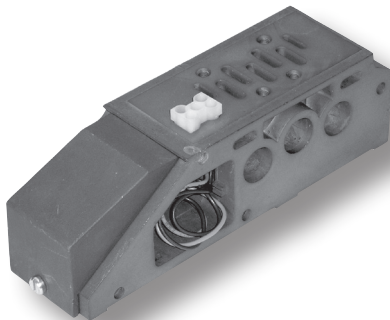
Completely Assembled Manifolds



Manifolds with "Z-Board"™

Series	Port Size G-thread	Order Code			
		Single "Z-Board"™	Double "Z-Board"™	Single Ribbon Cable	Double Ribbon Cable
ISO 1	1/4	239-2130	239-1933	239-2134	239-1937
	3/8	239-2131	239-1932	239-2135	239-1936
ISO 2	3/8	239-2138	239-1895	239-2142	239-1899
	1/2	239-2139	239-1896	239-2143	239-1900
ISO 3	1/2	239-2146	239-1903	239-2150	239-1907
	3/4	239-2147	239-1904	239-2151	239-1908

NFPT-thread on request

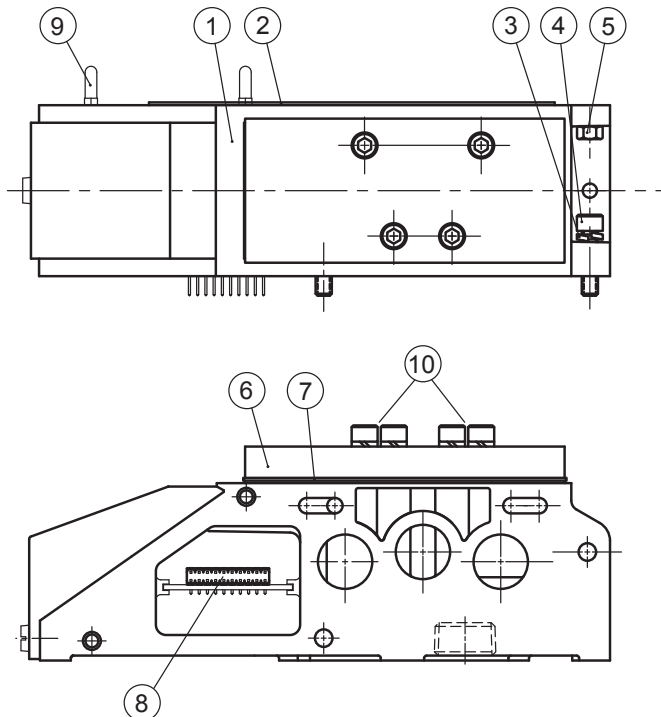


Manifolds without "Z-Board"™

Series	Port Size G-thread	Order Code
ISO 1	1/4	239-640
	3/8	239-639
ISO 2	3/8	239-649
	1/2	239-650
ISO 3	1/2	239-656
	3/4	239-657

NFPT-thread on request

Mid-station Supply & Exhaust Block



Pos.	No. req'd	Description
1	1	Manifold assembly
2	1	Gasket
3	6	Lockwasher
4	2	Screw
5	2	Nut
6	1	Blank station plate
7	1	Gasket
8*	1	Transfer board
9*	2	Guide pin
10*	4	Screw

*not required for midstation supply and exhaust block without Z-Board™

Series	Port Size G-thread	Order Code
ISO 1	3/8	239-1939
ISO 2	1/2	239-1941
ISO 3	3/4	239-1943

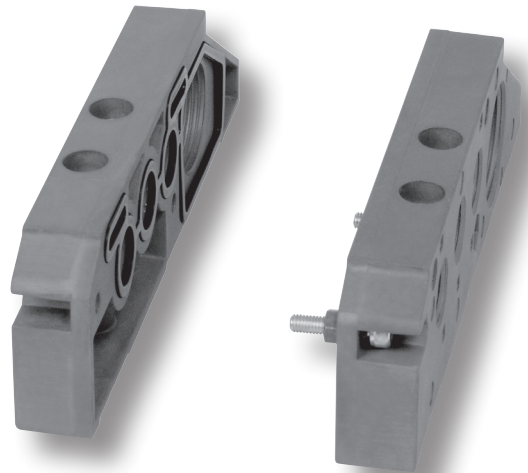
NFPT-thread on request

Accessories

End Plates for Manifolds without "Z-Board"™

End Plate Kit

Series	Port Size G-thread	Order Code
ISO 1	3/8	239-636
ISO 2	1/2	239-643
ISO 3	1	239-659
NFPT-thread on request		



Accessories for End Plates without "Z-Board"™

Description	Order Code
Screw fitting M32 x 1,5	140-295
Screw fitting M40 x 1,5	140-296
Plug M32 x 1,5	140-297
Plug M40 x 1,5	140-298

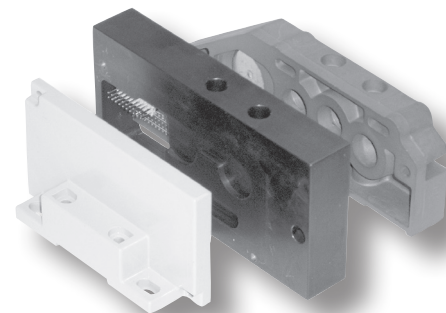
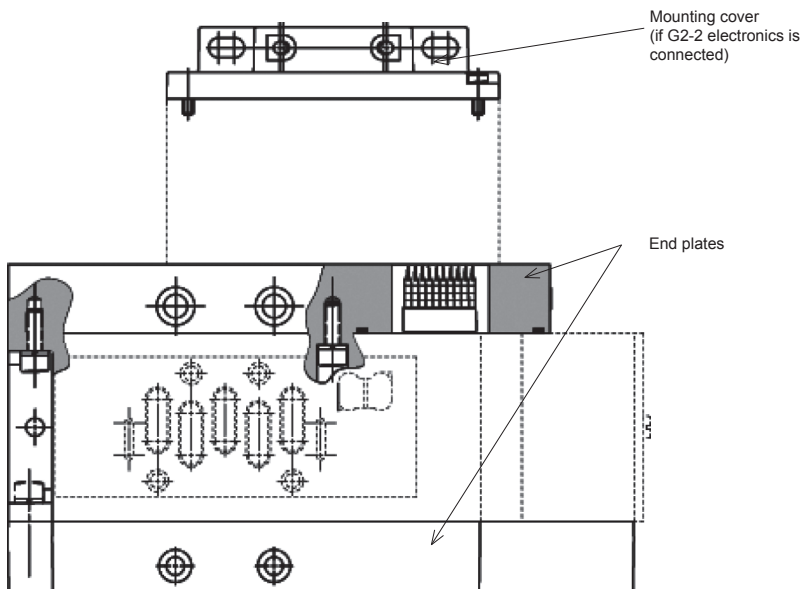


Screw fitting



Plug

End Plates for Manifolds with "Z-Board"™



End Plate Kit

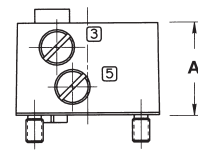
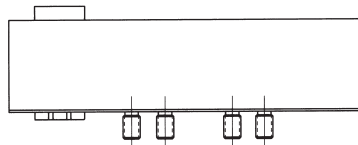
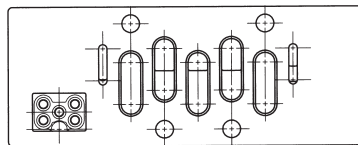
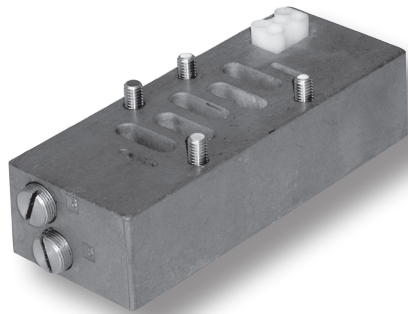
Series	Port Size G-thread	Order Code with Mounting Cover	Order Code without Mounting Cover
ISO 1	3/8	239-1948	239-1946
ISO 2	1/2	239-1952	239-1950
ISO 3	1	239-1956	239-1954
NFPT-thread on request			

Accessories

Sandwich Speed Control

Sandwich speed controls for valves and regulators are equipped with an integral plug-in system. Sandwich speed controls provide a variable restriction in ports 3 and 5 in order to control the cylinders' extend and retract speed.

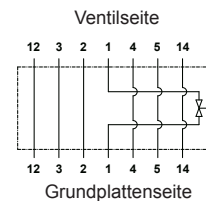
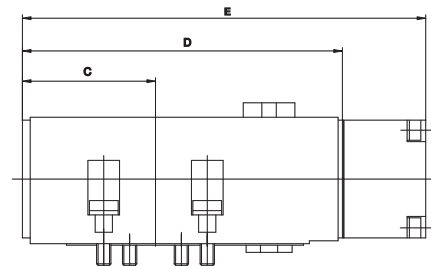
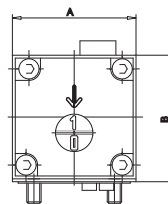
Attention: Sandwich speed controls can only be combined with single sandwich pressure regulators.



Dimensions [mm]

Series	A	Order Code
ISO 1	23.6	239-634
ISO 2	33.0	239-645
ISO 3	41.4	239-661

Valve Isolating Plate



Dimensions [mm]

Series	Operating pressure	A	B	C	D	E	Weight approx.[kg]	Order Code
ISO 1	vacuum to 21 bar	42.5	44.3	46.0	111.5	140.3	0.510	239-2247
ISO 2	vacuum to 21 bar	50.5	44.5	62.5	137.4	166.2	0.650	239-2249
ISO 3	vacuum to 21 bar	65.5	67.0	67.0	154.0	199.5	1.630	239-2257

Adapter Plates for mounting different ISO Sizes (without picture)

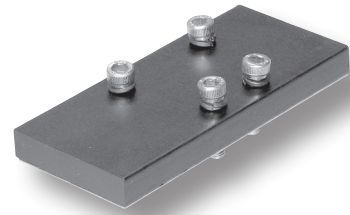
Order Code

Description	ISO 1 left on ISO 2 right	ISO 2 left on ISO 1 right	ISO 2 left on ISO 3 right	ISO 3 left on ISO 2 right
Hardwired	239-662	239-663	239-664	239-665
With "Z-Board"™	239-1957	—	239-1960	—

Accessories

Blank Station Plates

Serie	Description	Order Code
ISO 1	Blank station plate	239-641
ISO 2	Blank station plate	239-644
ISO 3	Blank station plate	239-660



Blocking Disks

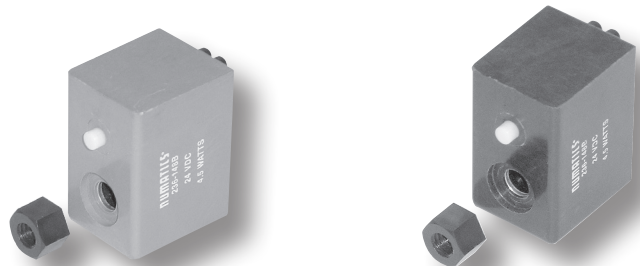
Order Codes

Series	Ports 1-5	Ports 12 / 14
ISO 1	239-251	239-651
ISO 2	239-252	239-652
ISO 3	239-253	239-653



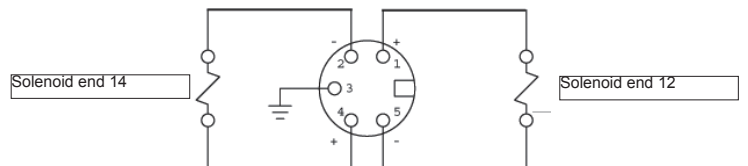
Solenoids for Solenoid Pilot Actuated Valves

Voltage	Order Code
220 VAC, 50-50 Hz (black)	237-1046
110 VAC, 50-60 Hz (black)	237-1045
24 VAC, 50-60 Hz (black)	237-1044
24 VDC, 4 Watt (blue)	236-384

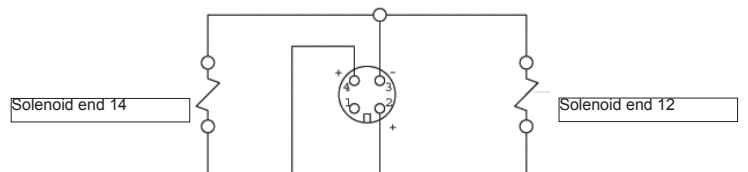


Circuit Diagrams

5 pin connector
Option 15G (valve conduit cover)



4 pin 12 mm connector
Option 15G (valve conduit cover)
Option 56Y (assembled)



Accessories

"Z-Boards"™ Ribbon Cable

for manifold assemblies that exceed 16 solenoid outputs.

ISO 5599/2 series includes 4 different "Z-Boards"™ for driving up to 32 solenoids of single and/or double solenoid actuated valves.

Ribbon cable features must be used for manifold assemblies that exceed 16 solenoids.

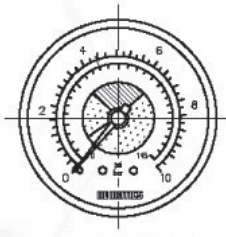
In order to allow the full capacity of 32 solenoids, the assembly must be configured so that an even number of solenoids is utilised prior to the station using the ribbon cable feature.

Note: The 16th and 17th solenoid cannot be on the same valve!



Description	Series	Order Code
Ribbon cable	ISO 1	230-1065
	ISO 2	230-1063
	ISO 3	230-1064

Gauge for Sandwich Pressure Regulator



Pressure range	R	Weights approx. [kg]	Order Code
0 to 2,5 bar	1/8	0,040	214-151
0 to 4 bar	1/8	0,040	214-152
0 to 10 bar	1/8	0,040	214-153
0 à 16 bar	1/8	0,040	214-154

Pressure range	NPTF	Weights approx. [kg]	Order Code
0 to 2,5 bar	1/8	0,040	214-138
0 to 4 bar	1/4	0,052	214-139
0 to 10 bar	1/8	0,040	214-140
0 to 16 bar	1/4	0,052	214-141

Pressure range	Ø	R	Weights approx. [kg]	Order Code
0 to 10 bar	40,0	1/8	0,040	217-274
0 to 10 bar	50,0	1/4	0,052	217-275

Accessories

Spare Part Kits for Solenoid Pilot Actuated Valves (BA / BW / BB)

Order Codes

Symbol	Valve	Series	Order Code
	BA4	ISO 1	I1BP-K1
	BA4	ISO 2	I2BP-K1
	BA4	ISO 3	I3BP-K1
	BW4	ISO 2	I2BP-K4
	BW4	ISO 3	I3BP-K4
	BB4	ISO 1	I1BP-K2
	BB4	ISO 2	I2BP-K2
	BB4	ISO 3	I3BP-K2
	BB5	ISO 1	I1BP-K3
	BB5	ISO 2	I2BP-K3
	BB5	ISO 3	I3BP-K3
	BB6	ISO 1	I1BP-K3
	BB6	ISO 2	I2BP-K3
	BB6	ISO 3	I3BP-K3
	BB7	ISO 1	I1BP-K3
	BB7	ISO 2	I2BP-K3
	BB7	ISO 3	I3BP-K3

Spare Part Kits for Direct Solenoid Actuated Valves (SA / SS)

Order Codes

Symbol	Valve	Series	Order Code
	SA4	ISO 1	I1SP-K1
	SA4	ISO 2	I2SP-K1
	SA4	ISO 3	I3SP-K1
	SS4	ISO 1	I1SP-K2
	SS4	ISO 2	I2SP-K2
	SS4	ISO 3	I3SP-K2
	SS5	ISO 1	I1SP-K3
	SS5	ISO 2	I2SP-K3
	SS5	ISO 3	I3SP-K3
	SS6	ISO 1	I1SP-K3
	SS6	ISO 2	I2SP-K3
	SS6	ISO 3	I3SP-K3
	SS7	ISO 1	I1SP-K3
	SS7	ISO 2	I2SP-K3
	SS7	ISO 3	I3SP-K3

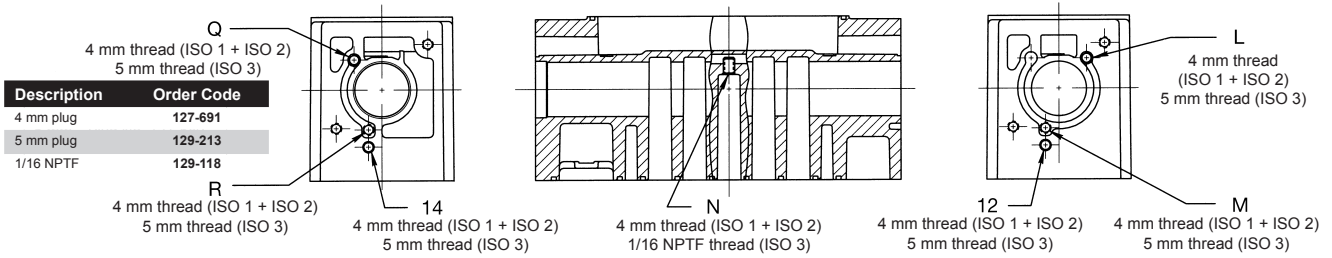
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 contact@2comappro.com
 Tél : + 237 233 424 913
 et + 237 674 472 158

www.2comappro.com

Technical Information

Conversion of Pilot Air Supply

The Numatics valve bodies used for the ISO 5599/2 series have a number of tapped pilot passages. Simply by opening or plugging certain passages, a number of different pilot supply options are available. A cross section of the valve bodies and both end views are shown below. These views show the location of all passages. The letters do not appear on the casting. They are used only to identify the ports and the locations.



Pilot Port	Internal Supply from port 1 (Standard)		External Supply from port 12		External Supply from port 14 (14X)		Internal Supply from port 3 (14C)		Internal Supply from port 5 (14D)	
	Single Pilot	Double Pilot	Single Pilot	Double Pilot	Single Pilot	Double Pilot	Single Pilot	Double Pilot	Single Pilot	Double Pilot
L	Plug	open	N/A	open	Plug	open	N/A	open	open	open
M	Plug	Plug	N/A	Plug	Plug	Plug	N/A	open	Plug	Plug
N	open	open	N/A	Plug	Plug	Plug	N/A	Plug	Plug	Plug
Q	open	open	N/A	open	Plug	open	N/A	open	Plug	open
R	Plug	Plug	N/A	Plug	Plug	Plug	N/A	Plug	open	open
12	Plug	Plug	N/A	open	Plug	Plug	N/A	Plug	Plug	Plug
14	Plug	Plug	N/A	Plug	open	open	N/A	Plug	Plug	Plug

Note: Standard for all ISO 5599/2 valve series is the internal supply from port 1.

