

FEATURES

- High flow rate up to 650 l/min
- Spool & Sleeve or rubber packed technology in the same dimension body
- Wide electrical connection selection : G3 or 580 Fieldbus Electronics, 25 or 37 Pin Sub-D connector, 19 Pin Round connector, 26 Pin Round connector or Terminal Strip
- Internal or external pilot pressure supply capability
- Compliance with ISO standard 15407-2 18 mm
- Solenoid air operated valves which can be mounted on manifold bases
- 580 Electronics (See X021-28)

GENERAL

Operating pressure	See «SPECIFICATIONS» [1 bar =100 kPa]
Ambient temperature range (TS)	See «SPECIFICATIONS»
Rated flow	See «SPECIFICATIONS»
conforming to ISO 6358	C (5/2) = 24,24 x 10 ⁻⁹ m ³ /s.Pa (sonic conductance) b (5/2) = 0,28 (critical pressure ratio)
Pneumatic base	High flow subbase or ISO 15407-2 18 mm
Connection	Joinable subbase
Response time	See «SPECIFICATIONS»



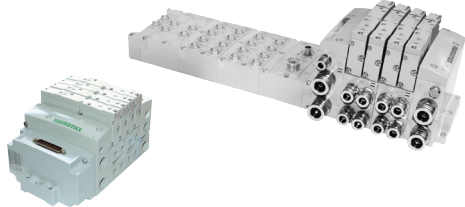
fluids (*)	temperature range (TS)	technology	seal materials (*)
air or inert gas ISO 8573 Level 7.4.4	-10°C to +50°C	rubber packed	PUR (polyurethane)
	-10°C to +50°C	spool & sleeve	metal-to-metal sealing

CONSTRUCTION

MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body	Aluminium, E-coating treatment
Spool	Aluminium or st. steel (spool & sleeve)
Piston	POM (rubber packed)
Spring	Stainless steel
Other seals	NBR
Other materials	PA (polyamide) GF 50% (glass fiber reinforced)
Subbases	Aluminium, E-coating treatment

ELECTRICAL CHARACTERISTICS

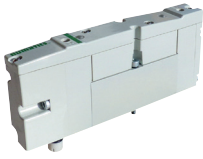
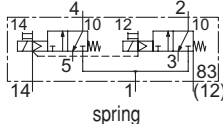
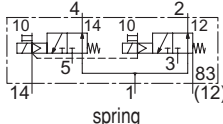
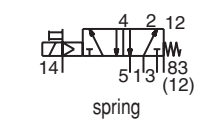
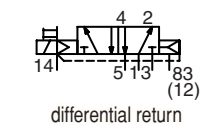
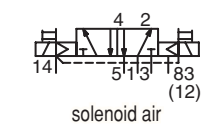
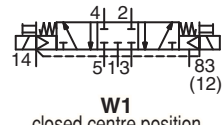
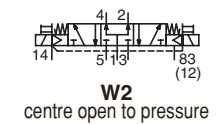
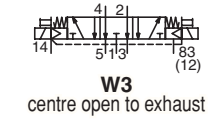
Coil insulation class	F
Electrical safety	IEC-EN 60730-1 / IEC-EN 60730-2-8
Electrical enclosure protection	IP65 (EN 60529)
Standard voltages	DC (=) : 24V
Power ratings (hot/cold) (=)	1,1 W / 1,3 W



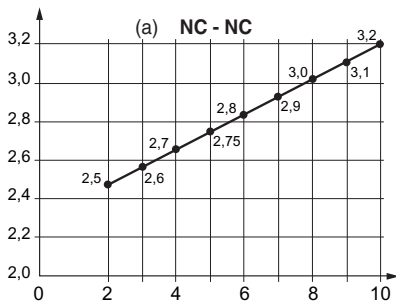
502 series

SPECIFICATIONS

15-DIGIT PRODUCT CODE

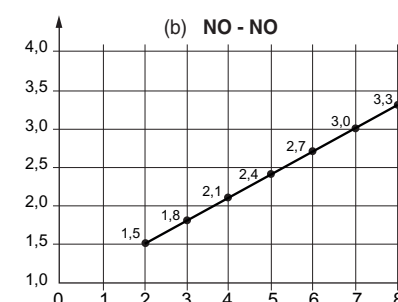
function	type	symbol pilot (14) return (12)	rated flow		response time open / closed (ms)	pilot pressure at 23°C (bar)		operating pressure port 1			
			at 6,3 bar ΔP 1 bar l/min (ANR)			min.	max.	max. (PS) air (*)			
			1 → 2 1 → 4	2 → 3 4 → 5	=						
SPOOL VALVE, RUBBER PACKED TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR											
2 x 3/2 NC	K	 spring	High flow subbase	650	600	42 / 22	(a)	8	2	8	R502A2BD0MA00F1
			ISO subbase	500	440						
2 x 3/2 NO	N	 spring	High flow subbase	640	610	17 / 27	(b)	8	2	8	R502A2BA0MA00F1
			ISO subbase	500	440						
	S	 spring	High flow subbase	625	695	21 / 36	2,5	8	-0,95	8	R502A2B10MA00F1
			ISO subbase	500	470						
5/2	M	 differential return	High flow subbase	625	695	21 / 37	3	8	-0,95	8	R502A2BN0MA00F1
			ISO subbase	500	470						
	J	 solenoid air	High flow subbase	625	695	15 / 15	2	8	-0,95	8	R502A2B40MA00F1
			ISO subbase	500	470						
5/3	G	 W1 closed centre position	High flow subbase	590	660	18 / 21	3,5	8	-0,95	8	R502A2B60MA00F1
			ISO subbase	500	460						
		B	 W2 centre open to pressure	High flow subbase	540	530	25 / 37	3,5	8	-0,95	8
ISO subbase				440	410						
	E	 W3 centre open to exhaust	High flow subbase	500	550	32 / 24	3,5	8	-0,95	8	R502A2B50MA00F1
			ISO subbase	440	420						

Pp = Pilot pressure

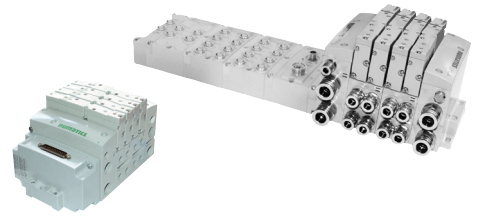


P1 = Working pressure

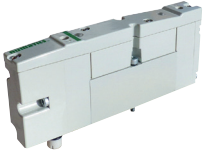

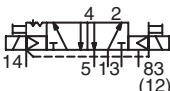
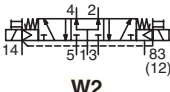

Pp = Pilot pressure



P1 = Working pressure



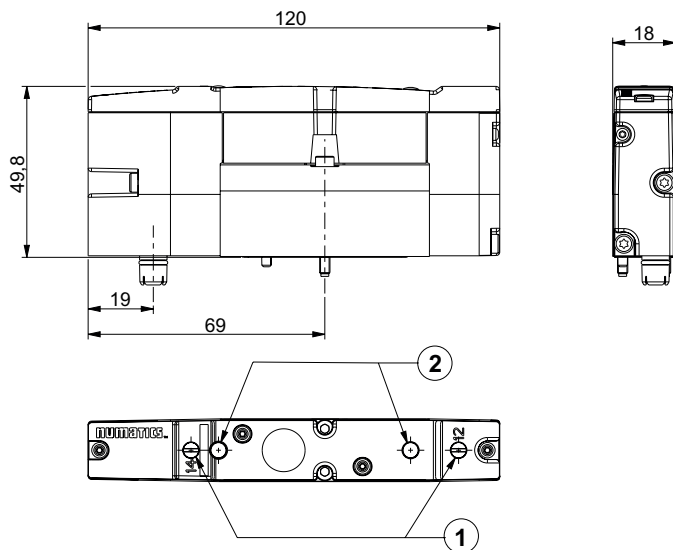
SPECIFICATIONS

											15-DIGIT PRODUCT CODE
function	type	symbol	rated flow		response time	pilot pressure		operating pressure			
			at 6,3 bar ΔP 1 bar l/min (ANR)			at 23°C (bar)		port 1			
			1 → 2 1 → 4	2 → 3 4 → 5	open / closed	min.	max.	min.	max. (PS) air (*)		
SPOOL VALVE, SPOOL AND SLEEVE TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR											
5/2	S	 spring	High flow subbase	470	530	16 / 49	2	8	-0,95	8	R502A1B10MA00F1
			ISO subbase	410	390						
	J	 solenoid air	High flow subbase	470	530	16 / 16	2	8	-0,95	8	R502A1B40MA00F1
			ISO subbase	410	390						
5/3	B	 W2 centre open to pressure	High flow subbase	440	450	13 / 28	2	8	-0,95	8	R502A1B70MA00F1
			ISO subbase	415	400						
	E	 W3 centre open to exhaust	High flow subbase	420	490	29 / 16	2	8	-0,95	8	R502A1B50MA00F1
			ISO subbase	400	415						

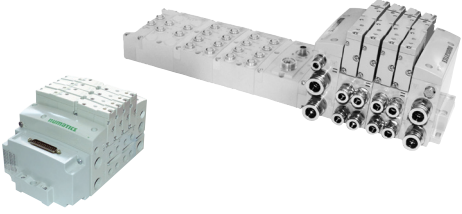
(*) Vérifier la compatibilité du fluide avec les matériaux en contact.
 (c) Contact us.

Plug in Valve

Dimensions (mm)



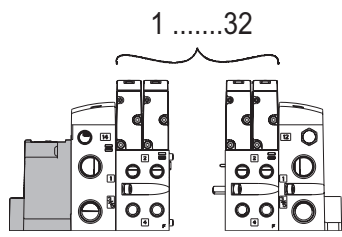
weight (kg)
0,169



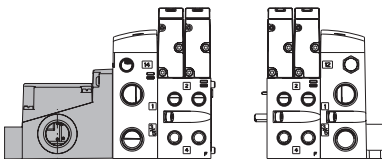
502 series

Assembly kits

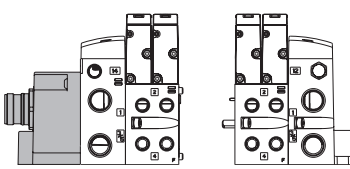
25 or 37 Pin Sub-D



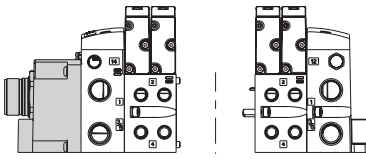
1-32 Terminal Strip



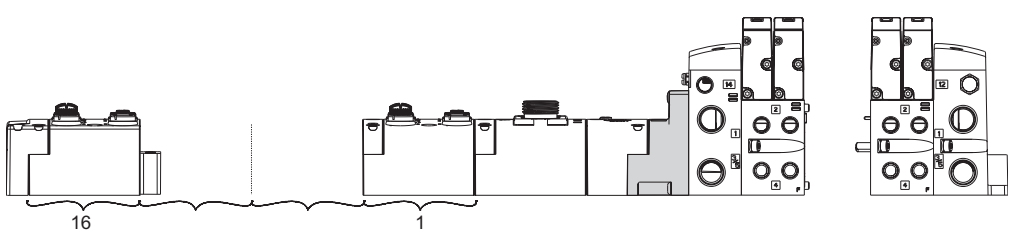
19 Pin Round Connector

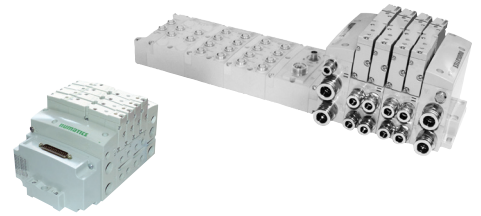


26 Pin Round Connector

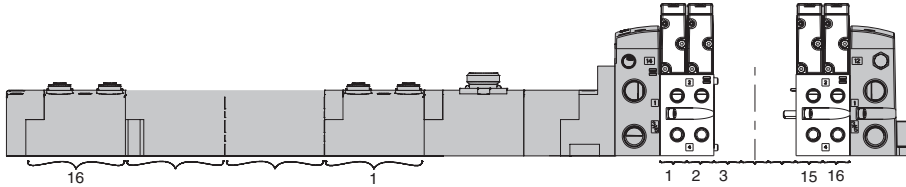
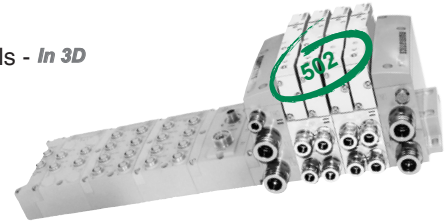


Manifold assembly with G3 Electronics & Discrete I/O (see page 27 and X021-26)





2D/3D CAD models - In 3D



How to Order

Manifold assemblies kit (Electronic + End plate)

15-DIGIT PRODUCT CODE

G 502 A V 3 2 2 0 0 V A00

Thread connection

- G** = ISO 228/1
- 8** = NPT (contact us)
- K** = Push-in connectors

Product series

502 (18 mm valve)

Revision letter

A = Initial release

Product type

V = Valve Manifold Assembly

Electronics

- 8** = 580 Fieldbus Electronics (see page X021-28)
- 3** = G3 Fieldbus Electronics
- J** = 25 Pin Sub-D Connector
- M** = 37 Pin Sub-D Connector
- Q** = 19 Pin Round Connector
- R** = 26 Pin Round Connector
- T** = Terminal Strip 1-32
- 0** = No Electronics

Number of Valve Stations

- | | | |
|---------------|---------------|---------------|
| B = 2 | N = 14 | Z = 26 |
| D = 4 | P = 16 | 3 = 28 |
| F = 6 | R = 18 | 5 = 30 |
| H = 8 | T = 20 | 7 = 32 |
| J = 10 | V = 22 | |
| L = 12 | X = 24 | |

Options

- A00** = Standard (no options)
- MUF** = Muffler in End Plates
- DRM** = DIN Rail Mount
- DWM** = DIN Rail Mount with Muffler
- 14X** = External pilot supply from port 14
- D12** = External pilot supply from port 14 and Muffler in End Plates
- D14** = External pilot supply from port 14 and DIN Rail Mount
- F06** = External pilot supply from port 14 Muffler in End Plates and DIN Rail Mount

End Plate Style

V = Vertical

Second Valve Series

- 0** = No Second Valve Series
- 1** = 11 mm Valve

Second Valve Series Port Size

- 0** = No Second Valve Series
- B** = M7 (female thread only)
- F** = 4 x 6 mm [push-in connector only]
- D** = 2,7 x 4 mm [push-in connector only]

End Plate Port Size (1-3-5)

Used with the first digit «G» or «8»:

3 = 3/8 (manifold base)

Used with the first digit «K»:

K = 8 x 10 mm (push-in connector)

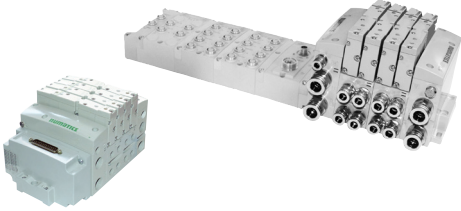
M = 10 x 12 mm (push-in connector)

Maximum Solenoid Outputs

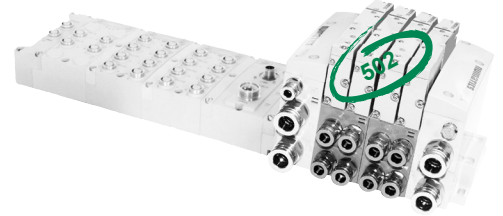
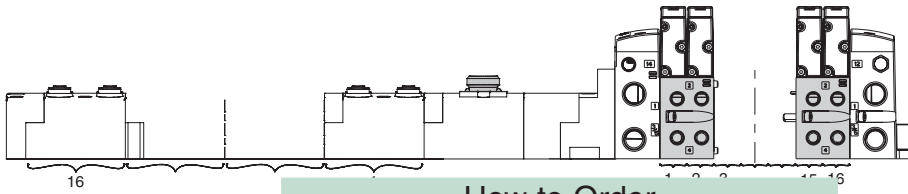
Terminal Strip 1-32	25 Pin Sub-D Connector	37 Pin Sub-D Connector	19 Pin Round Connector	26 Pin Round Connector	G3 Fieldbus Electronics
32	22	32	16	22	32

*Note: Maximum number of valve stations is determined by:

- The electrical connection type.
- The valve type: single and/or double solenoid valves
- Combination of all stations cannot exceed 32



502 series



How to Order

Subbases

15-DIGIT PRODUCT CODE

G 502 A M S2 2 M A00 1 0

Thread connection

- G = ISO 228/1
- 8 = NPT (contact us)
- K = Push-in connectors

Product series

502 (18 mm valve)

Revision letter

A = Initial release

Product type

- M = Manifold base
- Z = Mid station supply

Mounting

- S2 = Manifold base, 2 stations, side port, single Z-Board™
- M2 = Manifold base, 2 stations, side port, double Z-Board™
- V2 = Manifold base, 2 stations, side port
- 3A = Individual Sub Base, Side Ports, Individual Exhaust

Interface

- 1 = Pneumatic high flow
- 2 = ISO 15407-2 (18 mm)

Options

- A00 = Standard (internal pilot)
- 14X = External pilot supply from port 14

Wiring option

- M = Plug-in

Port connection (2-4)

Used with the first digit «G» or «8»:

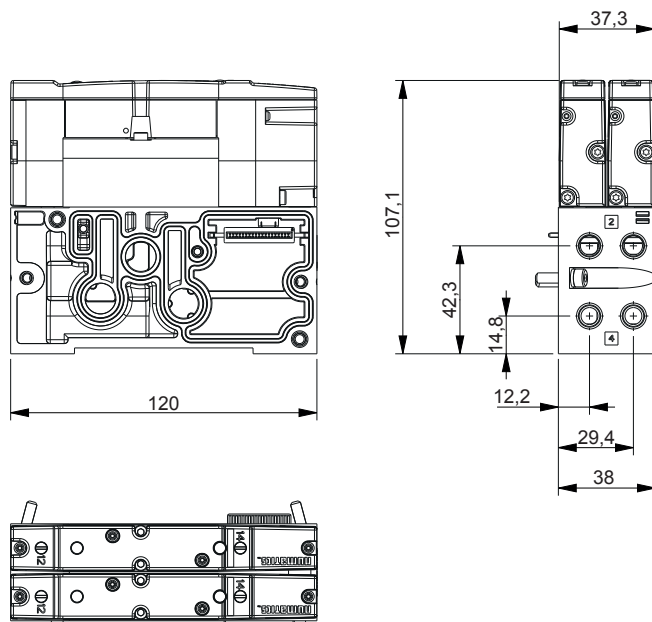
- 1 = 1/8 (female thread only)

Used with the first digit «K»:

- F = 6 x 8 mm [push-in connector only]
- H = 8 x 10 mm [push-in connector only]

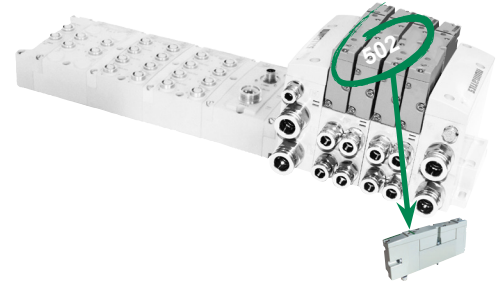
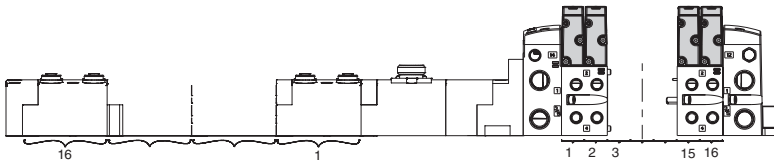
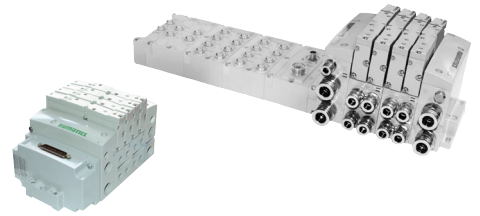
Dimensions (mm)

Plug in Valve Mounted



weight (kg)
0,661

502 series



**How to Order
Valves**

15-DIGIT PRODUCT CODE

R 502 A 2 B 1 0 M A00 F1

Thread connection
R = Pad mount

Product series
502 (18 mm valve)

Revision letter
A = Initial release

Actuation
1 = Spool and sleeve
2 = Rubber packed

Valve type
B = Solenoid pilot
(With impulse manual operator)

Function
A = 2x3/2 NO, dual 3-way ⁽²⁾
D = 2x3/2 NC, dual 3-way ⁽²⁾
N = 5/2, Differential air return ⁽²⁾
1 = 5/2, spring return
4 = 5/2, solenoid air return
5 = 5/3, W3, open center to exhaust
6 = 5/3, W1, center closed ⁽²⁾
7 = 5/3, W2, open center to pressure

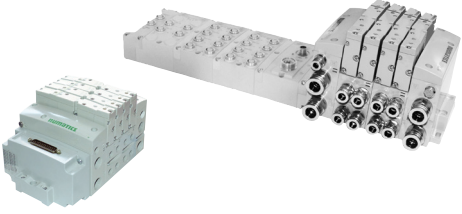
Voltage - class
F1 = 24 V DC - class F

Options
A00 = Standard (No option)
With impulse manual operator ⁽¹⁾
11B = With maintained manual operator
11M = Without manual operator

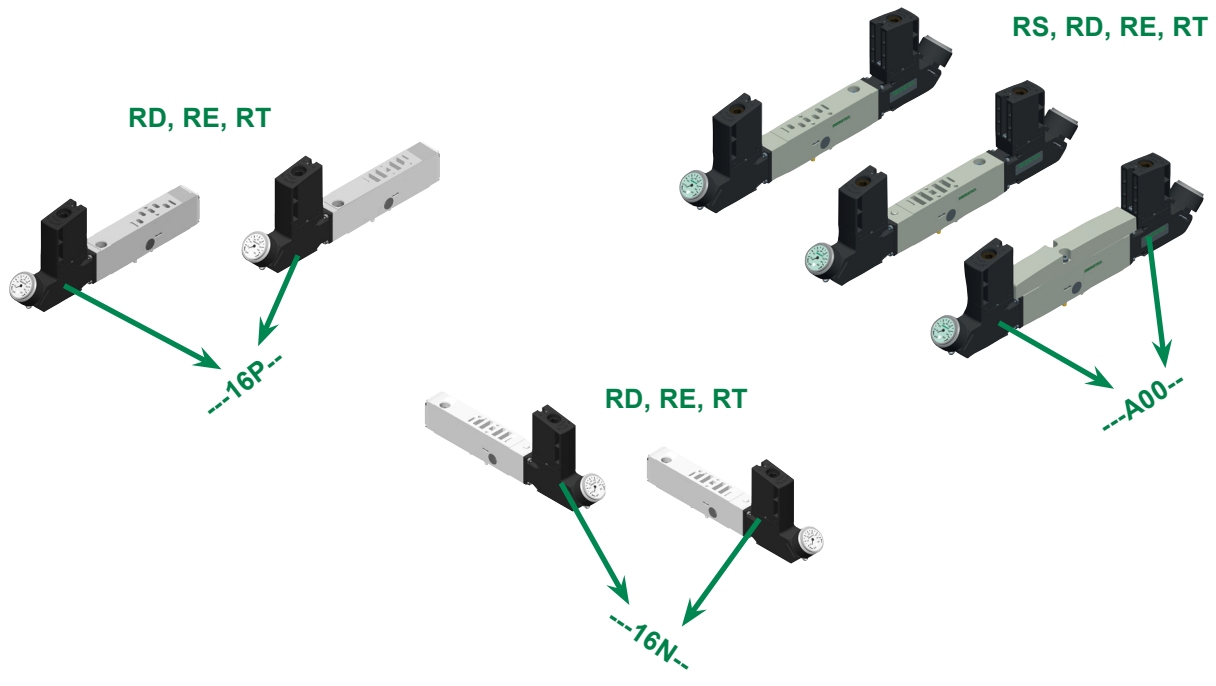
Electrical interface
M = Plug-in (with LED indicator / DC)

⁽¹⁾ Used external spool valves (internal/external supply configured in the end plate kits).

⁽²⁾ Only with rubber packed version.



502 series



How to Order Regulators

15-DIGIT PRODUCT CODE

R 502 A R - - - J - - 0

Thread connection
R = Pad mount

Product series
502 (18 mm valve)

Revision letter
A = Initial release

Product type
R = Pressure regulator

Type régulateur
S = Single regulator - Pressure to port 1

D = Regulator- Pressure to ports 5 & 3

E = Regulator - Pressure to ports 4 & 2, without valve

T = Regulator - Pressure to ports 1 & 3, 2 pressure selector

Interface

- 1 = Pneumatic high flow
- 2 = ISO 15407-2

Options

- A00 = Standard (no options)
- 16N = Jumper on 14 end
- 16P = Jumper on 12 end
- 61Y = Regulator with Gauge Extension Fitting
- 63L = 16P + 61Y
- 63M = 16N + 61Y

Wiring option

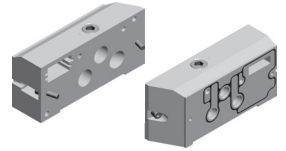
- J = Plug-in

Gauge type

- 2 = Gauge scale (bar)

Plage de pression

- 1 = 0,7 to 9 bar
- 3 = 0,2 to 2 bar
- 4 = 0,3 to 4 bar



Adaptor Plate Kits

The kits include the adapter plate, transfer board, gasket, screws. Individual end plates for the 502 and 503 are not included. This adaptor allows the transition from the 503 to the 502 series.

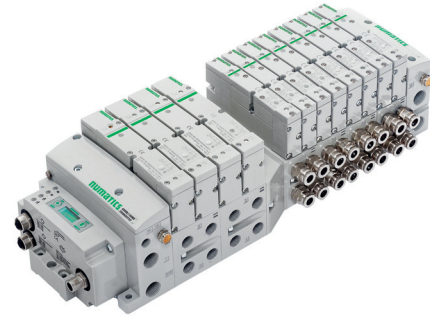
EXAMPLE ORDERS:

Adapter plate kit:

Valves:

G503AVJD332VA00
 R503A2B40MA00F1
 R503A2B40MA00F1
 G503AMM22MA0010
 R502A2B40MA00F1
 R502A2B40MA00F1
 G502AMM21MA0010
 ASSEMBLED

and mounting:



Adaptor Plate Kit with Standard End Plates (ISO 15407-2 + High Flow)

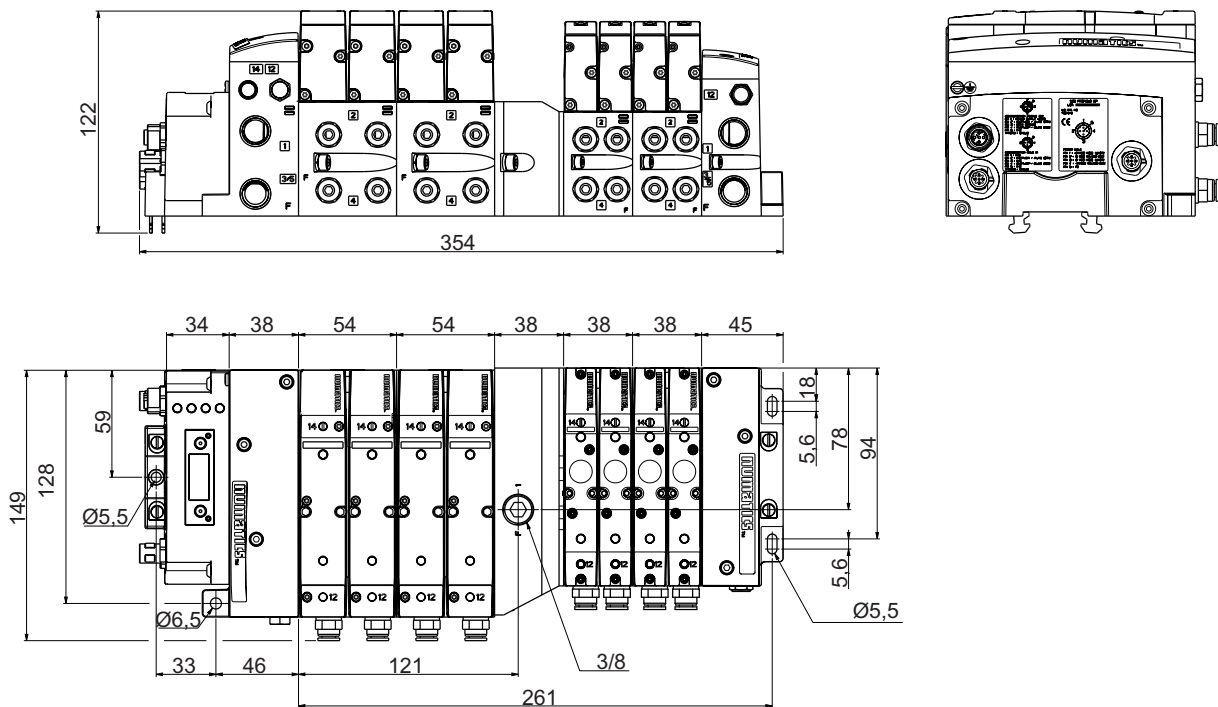
Description	15-DIGIT PRODUCT CODE
503 with 3/8 G-tap to 502	G503AT429964003

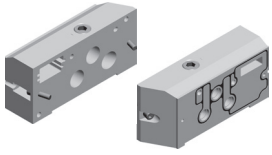
Adaptor Plate Kit with Standard End Plates (ISO 15407-1)

Description	15-DIGIT PRODUCT CODE
503 with 3/8 G-tap to 502	G503AT429964004

Dimensions (mm)

503 to 502





503/502 series
