

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

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 m³/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

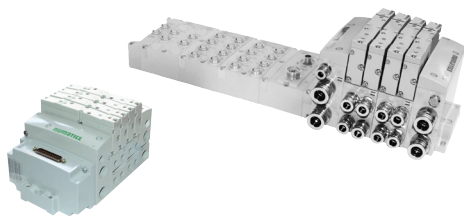
Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
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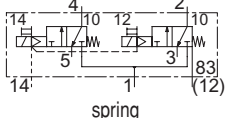
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Череповец (8202)49-02-64
Ярославль (4852)69-52-93



502 series

SPECIFICATIONS

SPECIFICATIONS											15-DIGIT PRODUCT CODE	
function	type	symbol	rated flow		response time	pilot pressure at 23°C (bar)		operating pressure port 1				
			at 6,3 bar ΔP 1 bar l/min (ANR)								open / closed	
			pilot (14) return (12)		(ms)	min.	max.	max. (PS)				
								air (*)				
		=										
SPOOL VALVE, RUBBER PACKED TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR												
2 x 3/2 NC	K		High flow subbase	650	600	36 / 15	4	8	2 (**)	8	R502A2BD0MA00F1	
			ISO subbase	500	440							

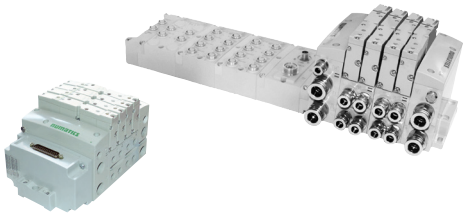
(**) Min. pressure with external piloting.

SPECIFICATIONS

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)			open / closed	at 23°C (bar)	port 1				
							min.	max. (PS)				
					(ms)			air (*)				
											=	
SPOOL VALVE, SPOOL AND SLEEVE TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR												
5/2	S		High flow subbase	470	530	16 / 49	2	8	-0,95	8	R502A1B10MA00F1	
		ISO subbase	410	390								
	M		High flow subbase	470	530	11 / 26	1,5	8	-0,95	8	R502A1BN0NA00F1	
		ISO subbase	410	390								
	J		High flow subbase	470	530	16 / 16	2	8	-0,95	8	R502A1B40MA00F1	
		ISO subbase	410	390								
5/3	G		High flow subbase	420	440	12 / 12	1,5	8	-0,95	8	R502A1B60MA00F1	
		ISO subbase	360	350								
	B		High flow subbase	420	430	13 / 23	1,5	8	-0,95	8	R502A1B70MA00F1	
		ISO subbase	370	350								
	E		High flow subbase	380	500	23 / 13	1,5	8	-0,95	8	R502A1B50MA00F1	
		ISO subbase	340	350								

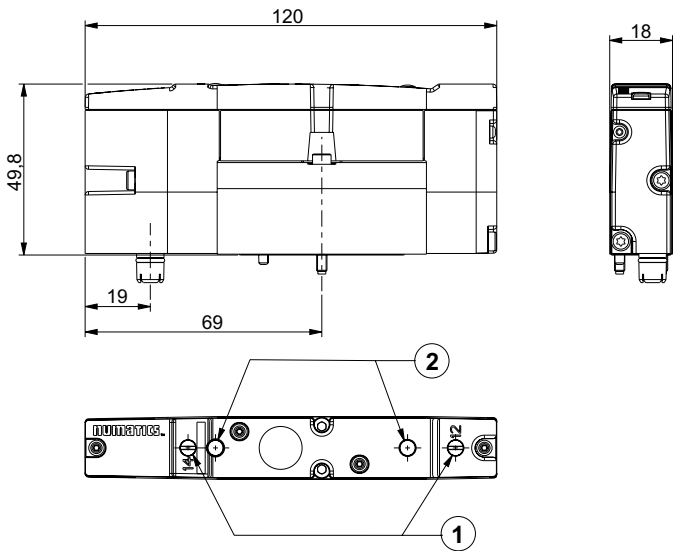
(*) Vérifier la compatibilité du fluide avec les matériaux en contact.

(c) Contact us.



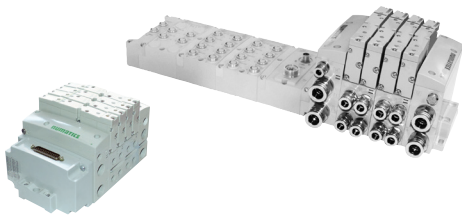
Plug in Valve

Dimensions (mm)



[Configurator - CAD Files](#)

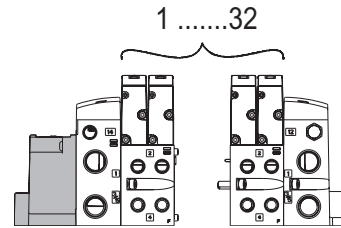
weight (kg)
0,169



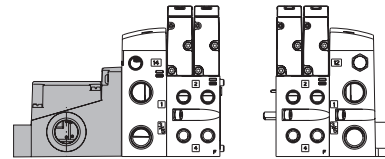
502 series

Assembly kits

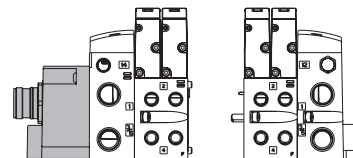
25 or 37 Pin Sub-D



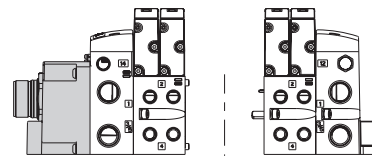
1-32 Terminal Strip



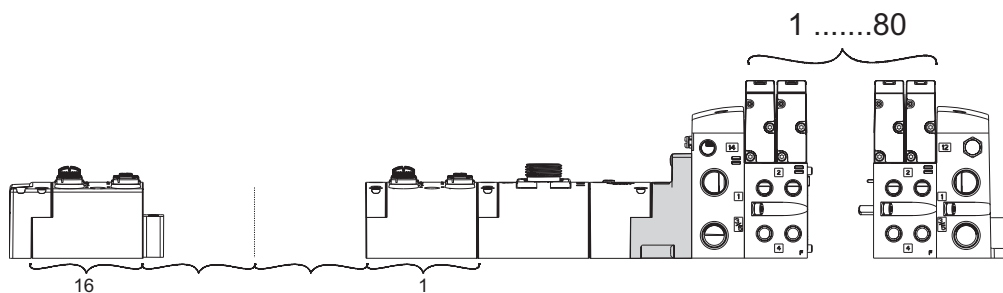
19 Pin Round Connector

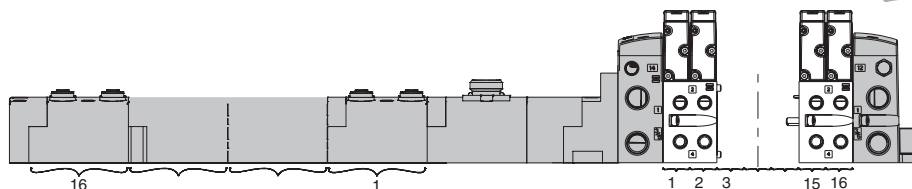
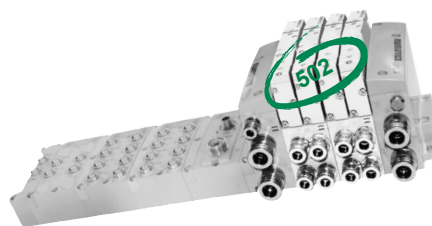
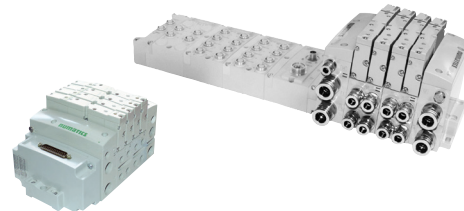


26 Pin Round Connector



Manifold assembly with G3 Electronics & Discrete I/O





How to Order

[Configurator - CAD Files](#)

Manifold assemblies kit (Electronic + End plate)

15-DIGIT PRODUCT CODE

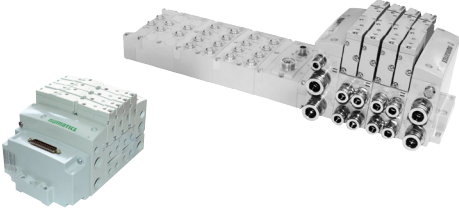
Thread connection G = ISO 228/1 8 = NPT (contact us) K = Push-in connectors Product series 502 (18 mm valve) Revision letter A = Initial release Product type V = Valve Manifold Assembly Electronics 8 = 580 Fieldbus Electronics D = CHARMs Electronics 3 = G3 Fieldbus Electronics J = 25 Pin Sub-D Connector M = 37 Pin Sub-D Connector Q = 19 Pin Round Connector R = 26 Pin Round Connector T = Terminal Strip 1-32 Z = Fanuc Robot End Effector 0 = No Electronics Number of Valve Stations B = 2/34/66 L = 12/44/76 V = 22/54 7 = 32/64 D = 4/36/68 N = 14/46/78 X = 24/56 F = 6/38/70 P = 16/48/80 Z = 26/58 H = 8/40/72 R = 18/50 3 = 28/60 J = 10/42/74 T = 20/52 5 = 30/62	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 Valve Station Adder 0 = No Adder 1 = 32+ 2 = 64+ End Plate Port Size (1-3-5) <i>Used with the first digit «G» or «8»:</i> 3 = 3/8 (manifold base) <i>Used with the first digit «K»:</i> K = 8 x 10 mm (push-in connector) M = 10 x 12 mm (push-in connector)
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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
32	22	32	16	22

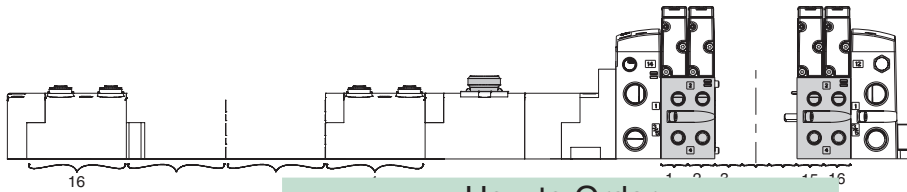
*Note: Maximum number of valve stations is determined by:

- The electrical connection type.
- The valve type: single and/or double solenoid valves



502 series

[Configurator - CAD Files](#)



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
F = 32+ Solenoid Manifold Subbase

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
M4 = 32+ Manifold Sub Base, 4 Stations, Side Ports, Double Z-Board™

Interface

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

Options

A00 = Standard (internal pilot)
14X = External pilot supply from port 14
83H = Pilot Separation from Station 1
83J = Pilot Separation from Station 2

Wiring option

M = Plug-in
T = 32+ Solenoid Auxiliary Power (used with M4 and F)
V = +24 V DC Separation at First Station
W = +24 V DC Separation at Second Station

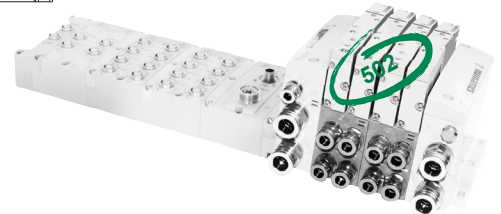
Port connection (2-4)

Used with the first digit «G» or «8»:

1 = 1/8 (female thread only)
3 = 3/8 (Used for Dual Flow only)
4 = 1/2 (Used for Dual Flow only)

Used with the first digit «K»:

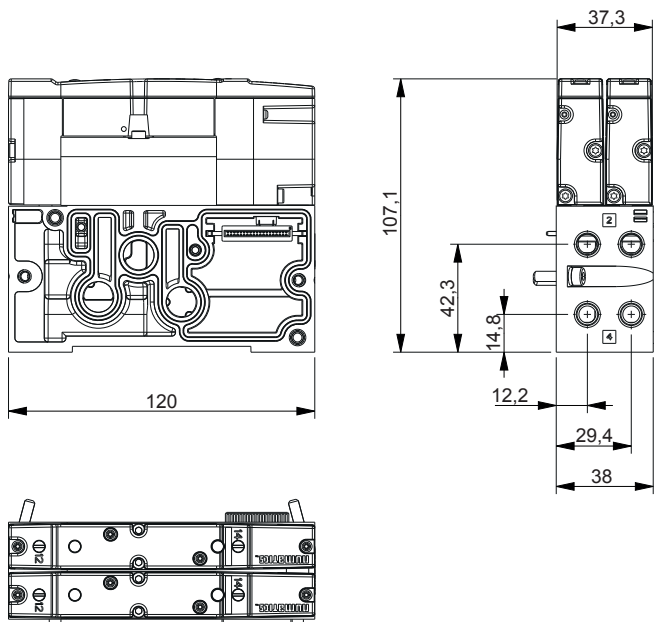
F = 4 x 6 mm [push-in connector only]
H = 6 x 8 mm [push-in connector only]



Dimensions (mm)

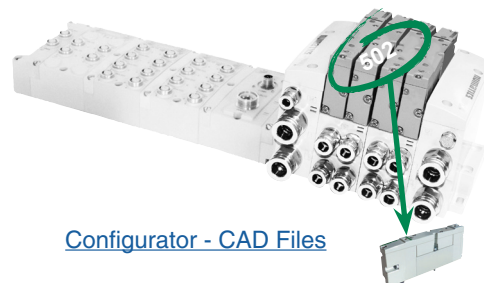
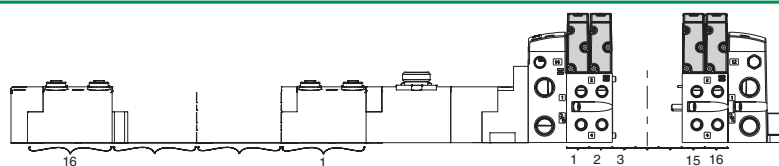
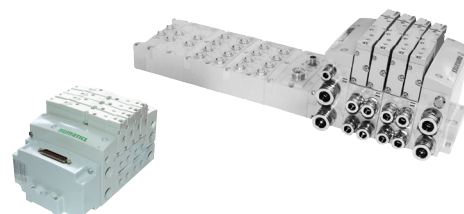
Plug in Valve Mounted

[Configurator - CAD Files](#)



weight (kg)

0,661



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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 (2x3/2 NC, only)

Valve type

B = Solenoid pilot
(With impulse manual operator)

Function

D = 2x3/2 NC, dual 3-way (Rubber packed)

N = 5/2, Differential air return

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

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)

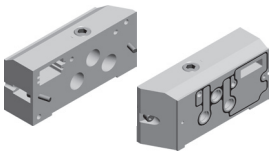
11B = With maintained manual operator

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).



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.

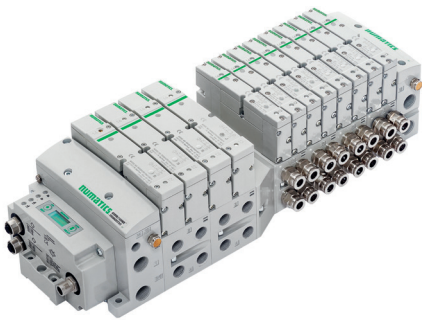
EXAMPLE ORDERS:

Adapter plate kit:

Valves:

G503AVJD332VA00
R503A2B40MA00F1
R503A2B40MA00F1
G503AMM22MA0010
R502A1B40MA00F1
R502A1B40MA00F1
G502AMM21MA0010
ASSEMBLED

and mounting:



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

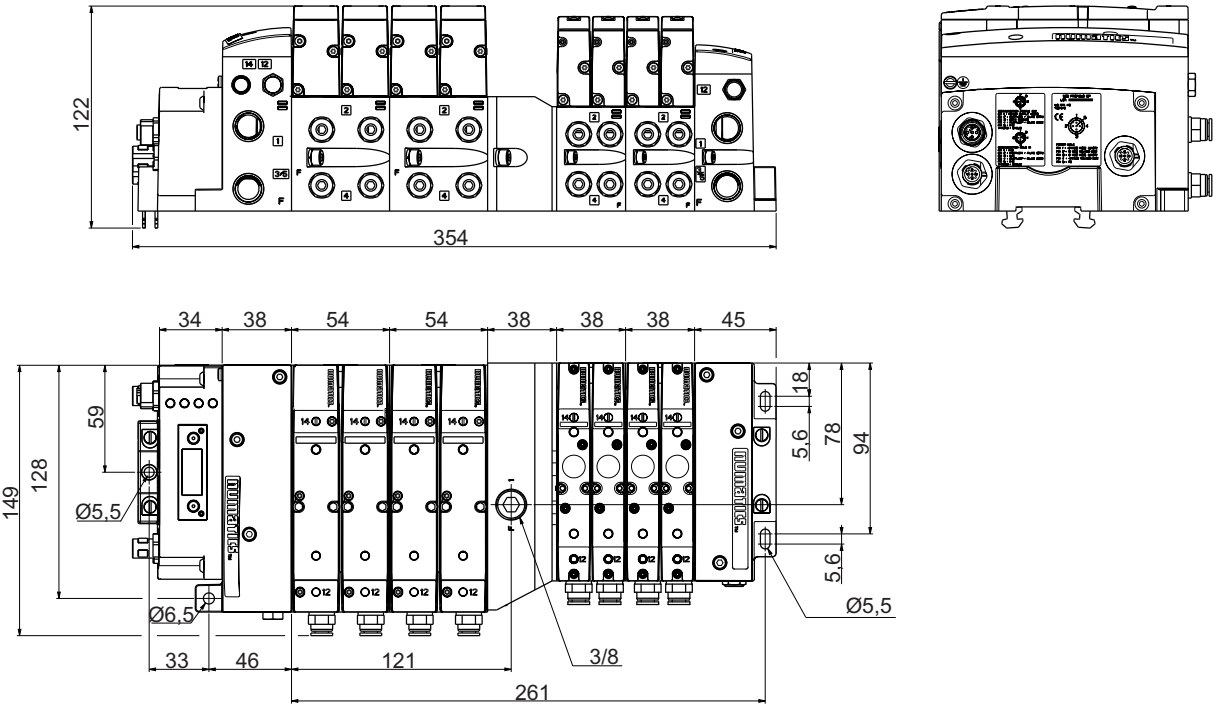
Description	15-DIGIT PRODUCT CODE
503 with 3/8 G-tap to 502	G503AT429964003

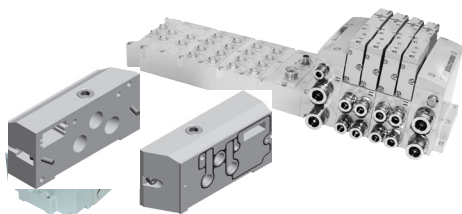
Adaptor Plate Kit with Standard End Plates
(ISO 15407-1)

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

Dimensions (mm)

503 to 502





numatics™

503/502 series

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