

FEATURES

- High flow rate up to 400 l/min
- 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
- Version with integrated LED and electrical protection.
LED indicator visible from 3 sides
- 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) = 1,45 x 10 ⁻⁸ m ³ /s.Pa (sonic conductance) b (5/2) = 0,40 (critical pressure ratio)
Pneumatic base	3 & 4 station subbases
Connection	Joinable subbase
Response time	See «SPECIFICATIONS»



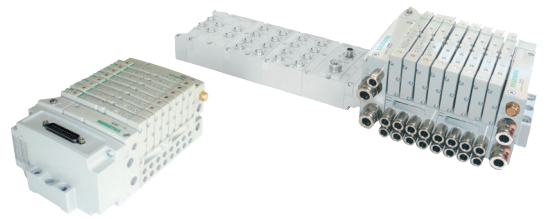
fluids (*)	temperature range (TS)	technology	seal materials (*)
air or inert gas ISO 8573 Level 7.4.4	-10°C to +50°C	rubber packed	FPM (fluoroelastomer)

CONSTRUCTION

MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body	Zamak, E-coating treatment
Spool	Aluminium
Piston	POM
Spring	Stainless steel
Other seals	NBR
Other materials	PAM (polyarylamide) , GF 50% (glass fiber reinforced)
Subbases	Aluminium, E-coating treatment


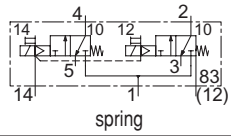
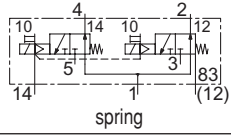
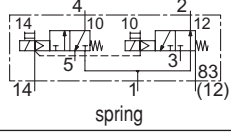
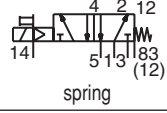
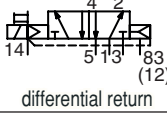
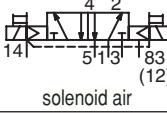
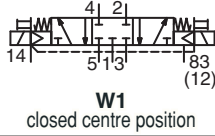
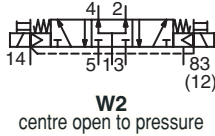
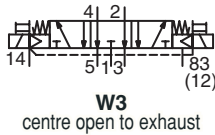
ELECTRICAL CHARACTERISTICS

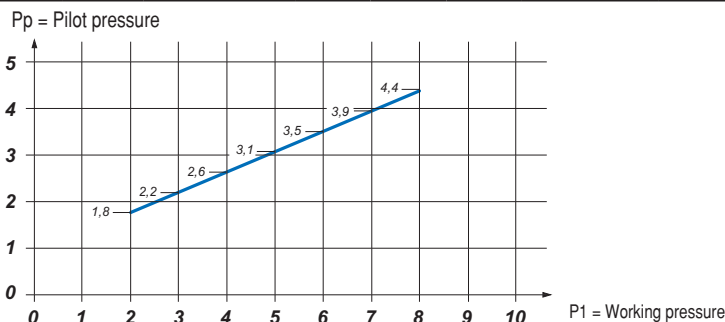
Coil insulation class	F
Electrical safety	IEC-EN 60730-1 / IEC-EN 60730-2-8
Electrical enclosure protection	IP65 (EN 60529)
Standard voltages	DC (=) : 24V
power ratings (hot/cold) (=)	0,7 W / 0,8 W

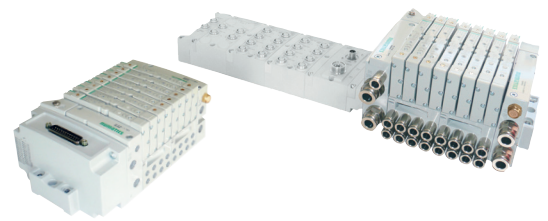


SPECIFICATIONS

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.	min.	max. (PS)	
			1 → 2 1 → 4	2 → 3 4 → 5	air (*)				=	
SPOOL VALVE, RUBBER PACKED TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR										
2 x 3/2 NC	K	 spring	405	415	18 / 18	(a)	8	2	8	R501A2BD0MA00F1
2 x 3/2 NO	N	 spring	400	400	18 / 18	(a)	8	2	8	R501A2BA0MA00F1
2 x 3/2 NC - NO	H	 spring	460 450	470 450	18 / 18	(a)	8	2	8	R501A2BC0MA00F1
5/2	S	 spring	405	410	14 / 29	2	8	-0,95	8	R501A2B10MA00F1
	M	 differential return	405	410	25 / 21	2	8	-0,95	8	R501A2BN0MA00F1
	J	 solenoid air	405	410	11 / 11	2	8	-0,95	8	R501A2B40MA00F1
5/3	G	 W1 closed centre position	405	410	13 / 12	2	8	-0,95	8	R501A2B60MA00F1
	B	 W2 centre open to pressure	405	360	17 / 38	2,5	8	-0,95	8	R501A2B70MA00F1
	E	 W3 centre open to exhaust	365	415	27 / 12	2	8	-0,95	8	R501A2B50MA00F1

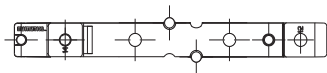
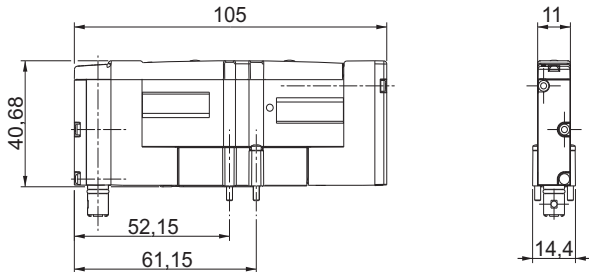




Plug in Valve

Dimensions (mm)

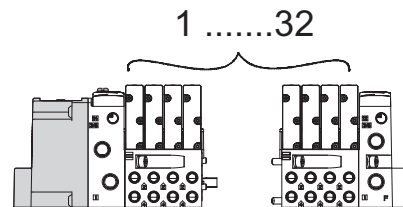
501 Series



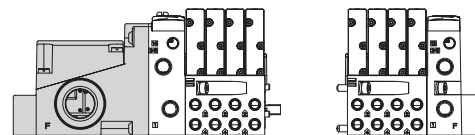
weight (kg)
0,093

Assembly kits

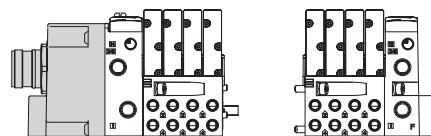
25 or 37 Pin Sub-D



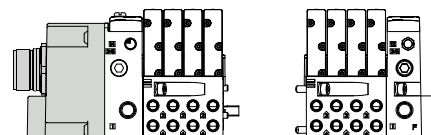
1-32 Terminal Strip



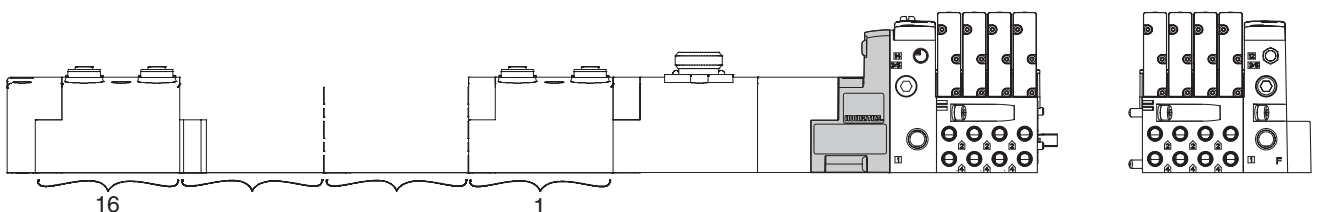
19 Pin Round Connector

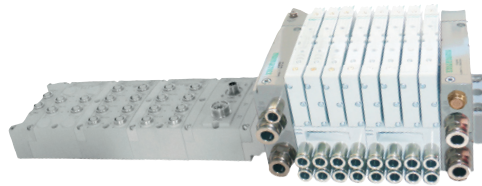
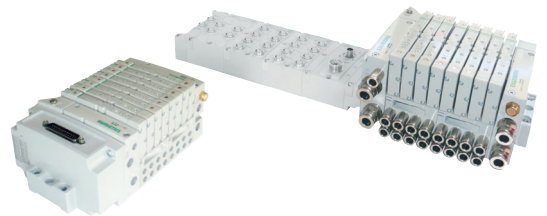


26 Pin Round Connector

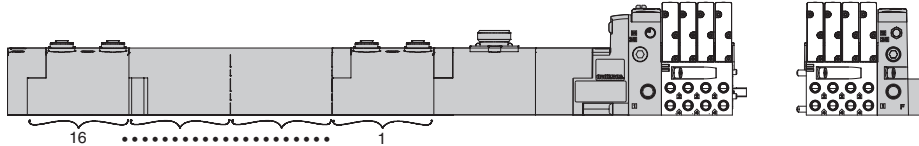


Manifold assembly with G3 Electronics & Discrete I/O (see pages 27 and X021-26)





2D/3D CAD models - *In 3D*



How to Order

Manifold assemblies kit (Electronic + End plate)

15-DIGIT PRODUCT CODE

G 501 A V 3 H 1 0 0 V A00

Thread connection

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

Product series

501 (11 mm valve)

Revision letter

A = Initial release

Product type

V = Valve Manifold Assembly

Electronics

- 8** = 580 Fieldbus Electronics (→ 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

Number of Valve Stations

- | | | | | |
|--------------|---------------|---------------|---------------|---------------|
| C = 3 | J = 10 | P = 16 | V = 22 | 3 = 28 |
| D = 4 | K = 11 | Q = 17 | W = 23 | 4 = 29 |
| F = 6 | L = 12 | R = 18 | X = 24 | 5 = 30 |
| G = 7 | M = 13 | S = 19 | Y = 25 | 6 = 31 |
| H = 8 | N = 14 | T = 20 | Z = 26 | 7 = 32 |
| I = 9 | O = 15 | U = 21 | 2 = 27 | |

Options

- A00** = Standard (no options)
- MUF** = Muffler in End Plates
- DRM** = DIN Rail Mount
- DWM** = DIN Rail Mount with Muffler in End Plates
- 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

Second Valve Series Port Size

0 = No Second Valve Series

End Plate Port Size (1-3-5)

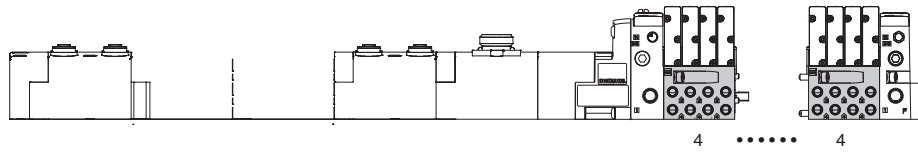
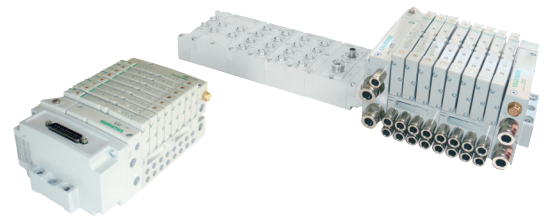
- Used with the first digit «G» or «8»:**
- 1** = 1/8 (female thread only)
- Used with the first digit «K»:**
- H** = 6 x 8 mm (push-in connector)

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 (by step of 4)



How to Order Subbase

15-DIGIT PRODUCT CODE

H **501** **A** **M** **S4** **B** **M** **A00** **1** **0**

Thread connection

H = Metric thread
K = Push-in connectors

Product series

501 (11 mm valve)

Revision letter

A = Initial release

Product type

M = Manifold base
Z = Mid station supply

Mounting

S3 = Manifold base, 3 stations, side port, single Z-Board™
M3 = Manifold base, 3 stations, side port, double Z-Board™
S4 = Manifold base, 4 stations, side port, single Z-Board™
M4 = Manifold base, 4 stations, side port, double Z-Board™

Interface

1 = High flow

Options

A00 = Standard (No option)

Wiring option

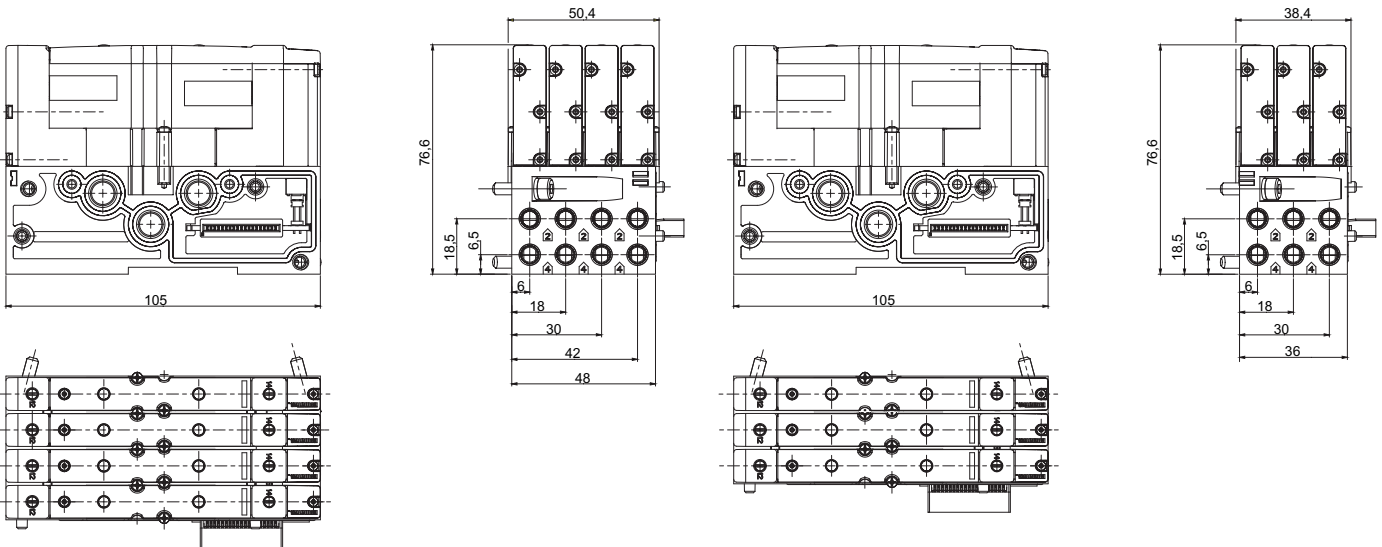
M = Plug-in

Port connection

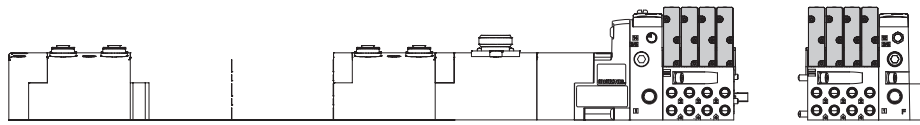
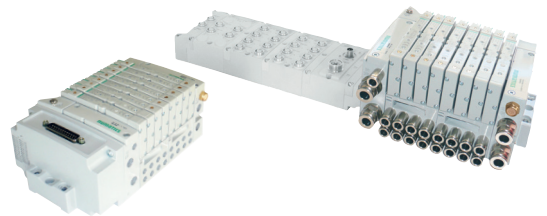
B = M7 (female thread only)
D = 2,7 x 4 mm [push-in connector only]
(Mid station supply not available)
F = 4 x 6 mm [push-in connector only]

Dimensions (mm)

Plug in Valve Mounted



weight (kg)	
4	3
0,65	0,50



How to Order Valves

15-DIGIT PRODUCT CODE

R 501 A 2 B 4 0 M A00 F1

Thread connection
R = Pad mount

Product series
501 (11 mm valve)

Revision letter
A = Initial release

Actuation
2 = Rubber packed

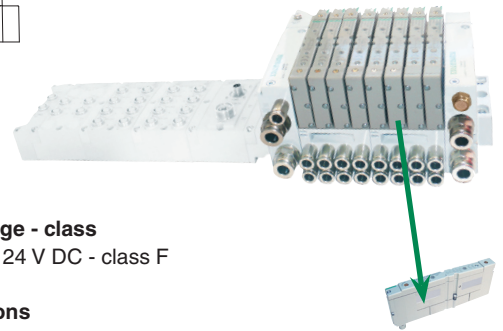
Valve type
B = Solenoid pilot

Function
 A = 2x3/2 NO, dual 3-way
 D = 2x3/2 NC, dual 3-way
 C = 2x3/2 NC x NO, dual 3-way
 F = 2x3/2 NO x NC, dual 3-way
 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 = With impulse manual operator
 11B = With maintained manual operator
 11M = Without manual operator

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



How to Order Regulators

15-DIGIT PRODUCT CODE

R 501 A R S 5 2 J A00 1 0

Thread connection
R = Pad mount

Product series
501 (11 mm valve)

Revision letter
A = Initial release

Product type
R = Pressure regulator

Regulator type

S = Single regulator - Pressure to port 1

Not use

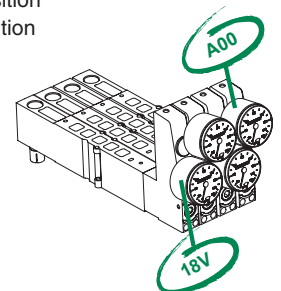
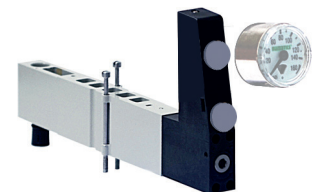
Interface
1 = Pneumatic

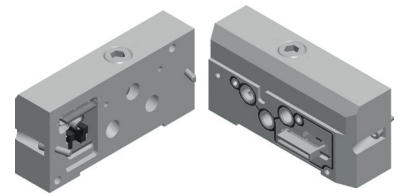
Options
 A00 = Gauge upper position
 18V = Gauge lower position

Wiring option
J = Plug-in

Gauge type
 0 = W/O Gauge
 2 = Gauge scale (bar)

Pressure range
5 = 0,7 to 8 bar (10 to 115 psi)





Adaptor Plate Kit

The kit includes the adapter plate, transfer board, gasket and screws. Individual end plates for the 501 and 502 are not include. This adaptor allows the transition from the 502 to the 501 series.

EXAMPLE ORDERS :

Adapter plate kit:

Valves:

G502AVJF311VA00
 R502A2B40MA00F1
 R502A2B40MA00F1
 G502AMM21MA0010
 R501A2B40MA00F1
 R501A2B40MA00F1
 R501A2B40MA00F1
 R501A2B40MA00F1
 R501A2B40MA00F1
 H501AMM4BMA0010
 ASSEMBLED



and mounting:

Adaptor Plate Kit with Standard End Plates

Description	15-DIGIT PRODUCT CODE
502 with 3/8 G-tap to 501	G502AT429963002

Dimensions (mm)

502 to 501

