



### 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 or Terminal Strip
- Internal or external pilot pressure supply capability
- Version with integrated LED and electrical protection.
- LED indicator visible from 3 sides
- Solenoid air operated valves for use in potentially explosive atmospheres according to ATEX-Directive 94/9/EC, zone 2 or zones 2-22
- 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) =  $1,45 \times 10^{-8} \text{ m}^3/\text{s} \cdot \text{Pa}$  (sonic conductance)

b (5/2) = 0,40 (critical pressure ratio)

#### Pneumatic base

4 station subbases

#### Connection

Joinable subbase

#### Response time

See «SPECIFICATIONS»

fluids (*)	temperature range (TS)	technology	seal materials (*)
air or inert gas filtered at 50 µm, lubricated or not	-10°C to +50°C	rubber packed	FPM (fluoroelastomer)



### CONSTRUCTION


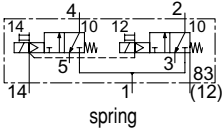
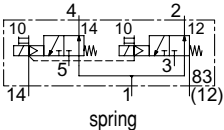
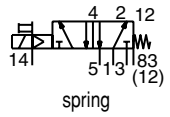
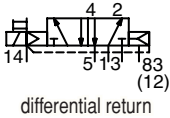
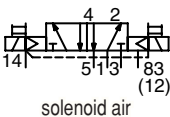
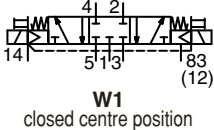
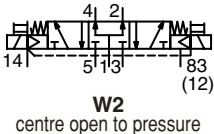
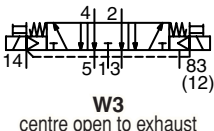
MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body	Zamak, E-coating treatment
Spool	Aluminium
Piston	POM
Spring	Stainless steel
Distribution seals	FPM (fluoroelastomer)
Other seals	NBR
Other materials	PAM (polyarylamide) ,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

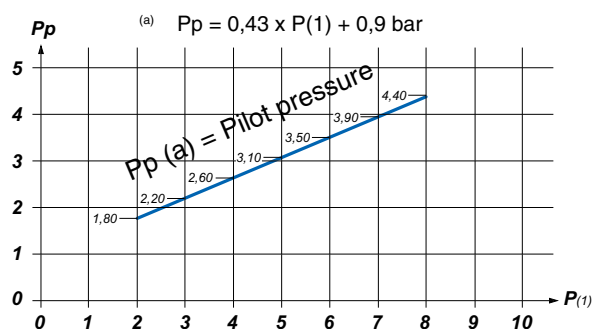
### ELECTRICAL CHARACTERISTICS

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) (=)	0,68 W / 0,82 W



### SPECIFICATIONS

SPECIFICATIONS										15-DIGIT PRODUCT CODE	
function	type	symbol  pilot (14) return (12)	rated flow		response time  open / closed	pilot pressure  at 23°C (bar)		operating pressure port 1			
			at 6,3 bar l/min (ANR)					min.	max. (PS)		
			1 → 2 1 → 4	2 → 3 4 → 5	air (*)						
			(ms)	min.	max.	=					
SPOOL VALVE, RUBBER PACKED TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR											
2 x 3/2 NC	K		405	415	18 / 18	(a)	8	2	8	R501A2BD0MA00F1	
2 x 3/2 NO	N		400	400	18 / 18	(a)	8	2	8	R501A2BA0MA00F1	
5/2	S		405	410	14 / 29	2	8	-0,95	8	R501A2B10MA00F1	
	M		405	410	25 / 21	2	8	-0,95	8	R501A2BN0MA00F1	
	J		405	410	11 / 11	2	8	-0,95	8	R501A2B40MA00F1	
5/3	G		405	410	13 / 12	2	8	-0,95	8	R501A2B60MA00F1	
	B		405	360	17 / 38	2,5	8	-0,95	8	R501A2B70MA00F1	
	E		365	415	27 / 12	2	8	-0,95	8	R501A2B50MA00F1	

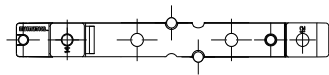
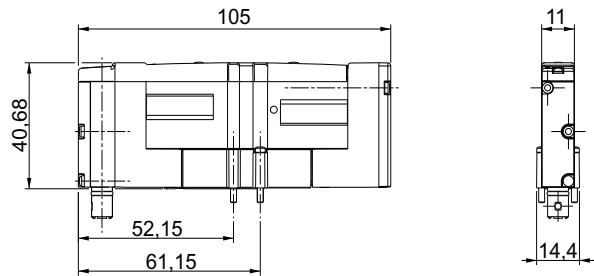




Plug in Valve

Dimensions (mm)

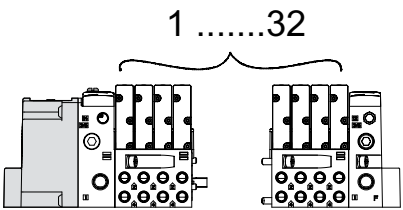
501 Series



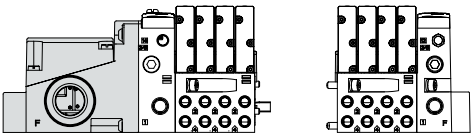
weight (kg)
0,093

Assembly kits

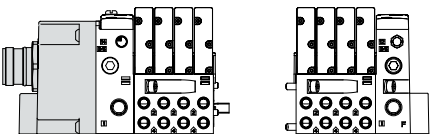
25 or 37 Pin Sub-D



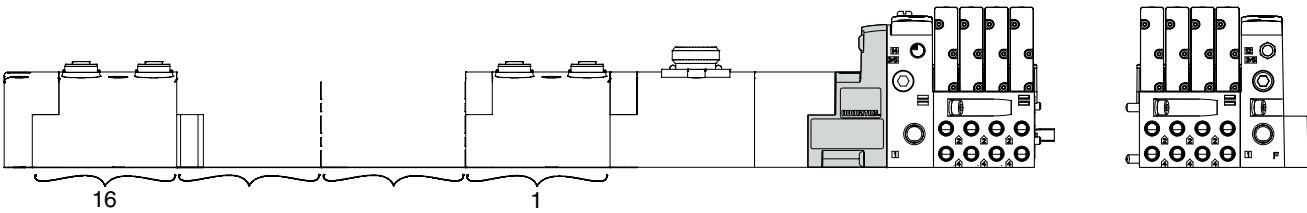
1-32 Terminal Strip



19 Pin Round Connector

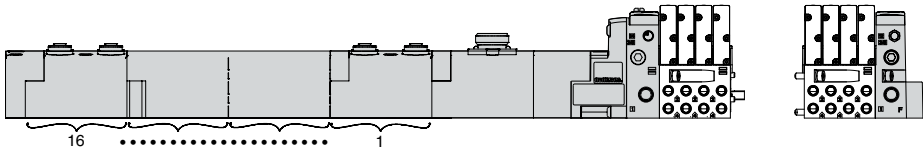


Manifold assembly with G3 Electronics & Discrete I/O (see pages 13 and X021-26)





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 X021-28-17)  
3 = G3 Fieldbus Electronics  
J = 25 Pin Sub-D Connector  
M = 37 Pin Sub-D Connector  
Q = 19 Pin Round Connector  
T = Terminal Strip 1-32

**Number of Valve Stations**  
D = 4      T = 20  
H = 8      X = 24  
L = 12     3 = 28  
P = 16     7 = 32

Maximum Solenoid Outputs

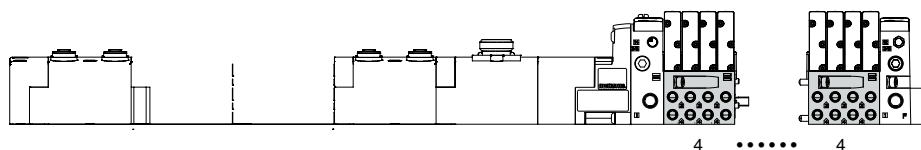
Terminal Strip 1-32	25 Pin Sub-D Connector	37 Pin Sub-D Connector	19 Pin Round Connector	G3 Fieldbus Electronics
32	22	32	16	32

**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  
  
**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)

\*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

**S4** = Manifold base, 4 stations, side port, single Z-Board™

**M4** = Manifold base, 4 stations, side port, double Z-Board™

**Not use**

#### Interface

**1** = High flow

#### Options

**A00** = Standard (No option)

#### Wiring option

**M** = Plug-in

#### Port connection

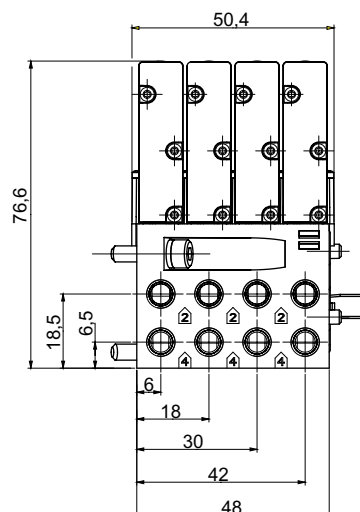
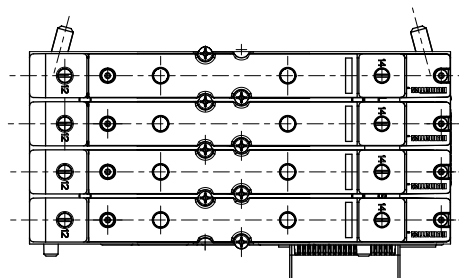
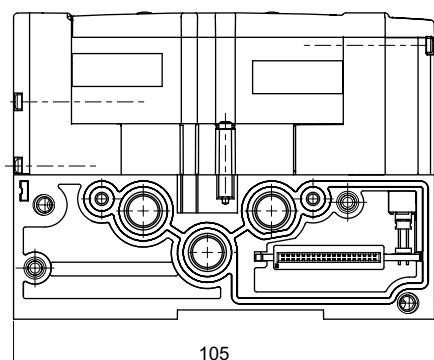
**B** = M7 (female thread only)

**D** = 2,7 x 4 mm (5/32) [push-in connector only]  
(Mid station supply not available)

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

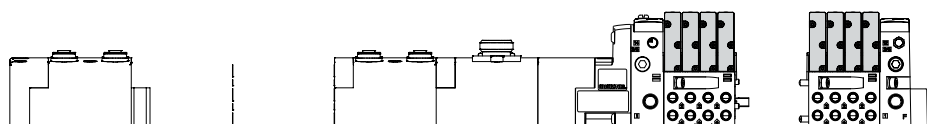
### Dimensions (mm)

#### Plug in Valve Mounted



weight (kg) <sup>(1)</sup>

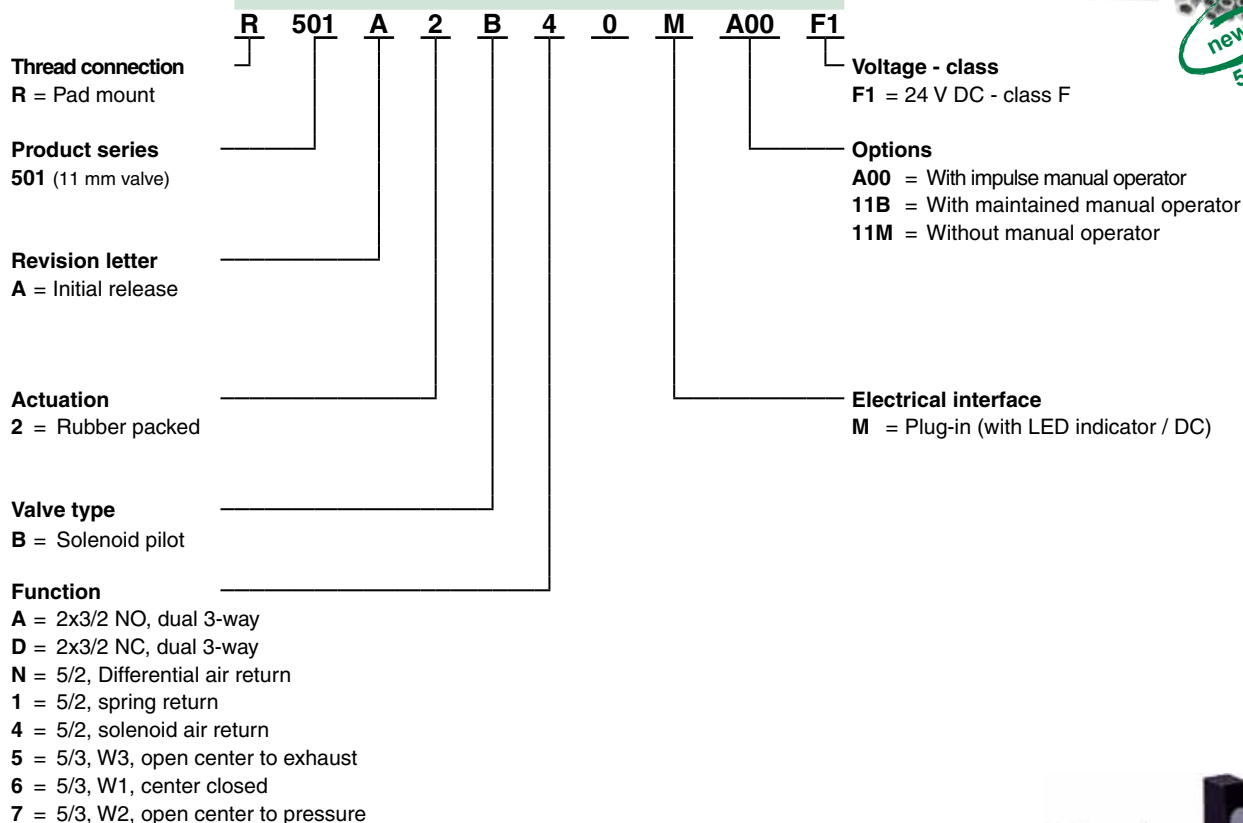
0,65



### How to Order

#### Valves

##### 15-DIGIT PRODUCT CODE



### How to Order

#### Regulators

##### 15-DIGIT PRODUCT CODE

