

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

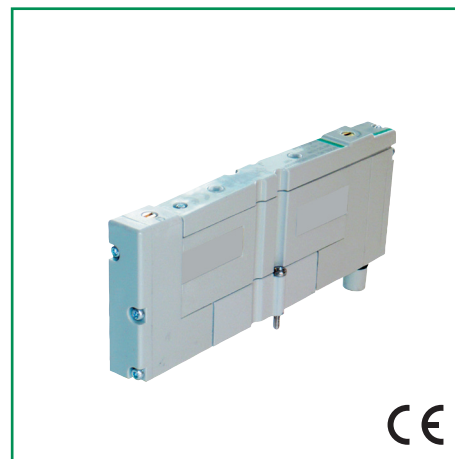
Connection

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)

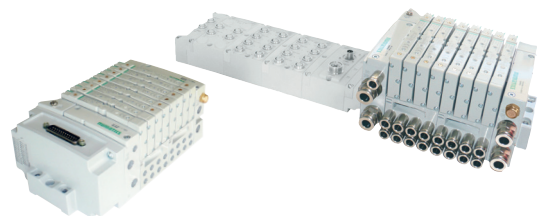


CONSTRUCTION


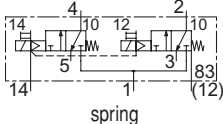
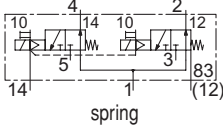
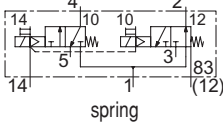
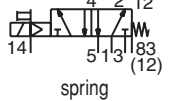
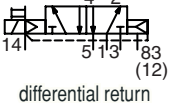
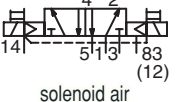
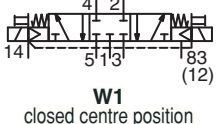
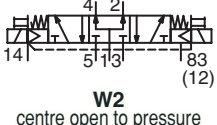
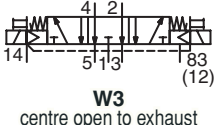
MATERIALS IN CONTACT WITH FLUID	
(*) Ensure that the compatibility of the fluids in contact with the materials is verified	
Body	Zamak, E-coating treatment
Spool	Aluminium
Piston	POM
Spring	Stainless steel
Distribution seals	FPM (fluoroelastomer)
Other seals	NBR
Other materials	PAM (polyarylamide) ,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

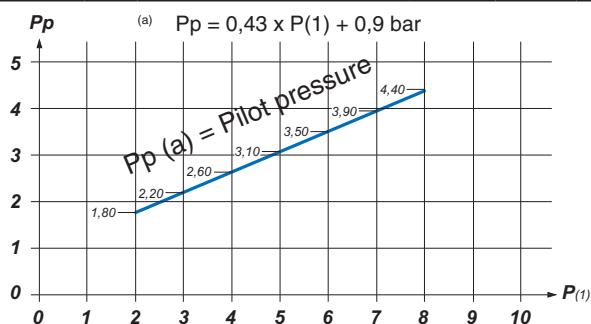
ELECTRICAL CHARACTERISTICS

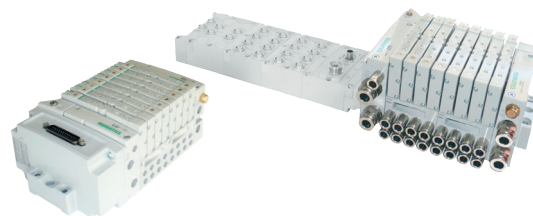
Coil insulation class	F
Electrical safety	IEC-EN 60730-1 / IEC-EN 60730-2-8
Electrical enclosure protection	IP65 (EN 60529)
Standard voltages	DC (=) : 24V
power ratings (hot/cold) (=)	0,68 W / 0,82 W



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) air (*)	
			1 → 2 1 → 4	2 → 3 4 → 5	=					
			(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
2 x 3/2 NC - NO	H		405 400	415 400	18 / 18	(a)	8	2	8	R501A2BC0MA00F1
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	 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

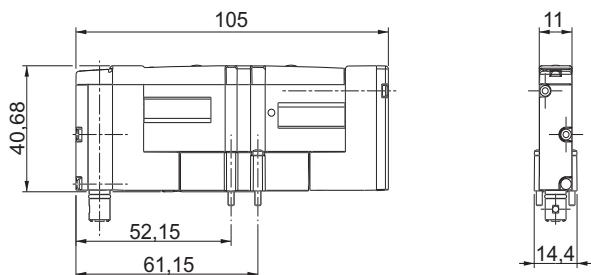




Plug in Valve

Dimensions (mm)

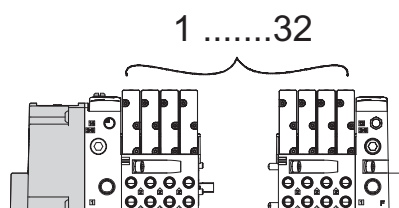
501 Series



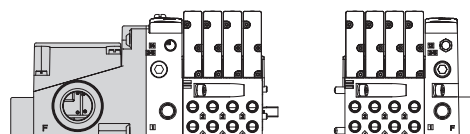
weight (kg)
0,093

Assembly kits

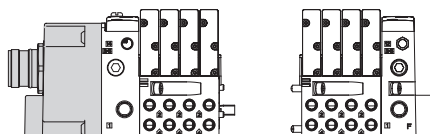
25 or 37 Pin Sub-D



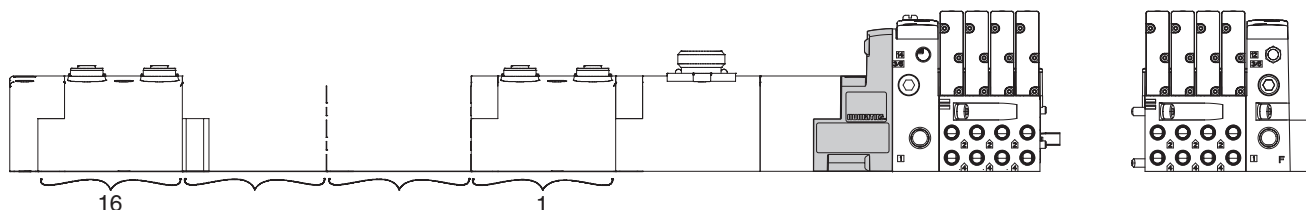
1-32 Terminal Strip

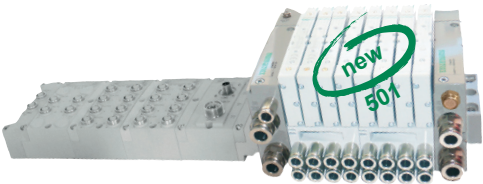
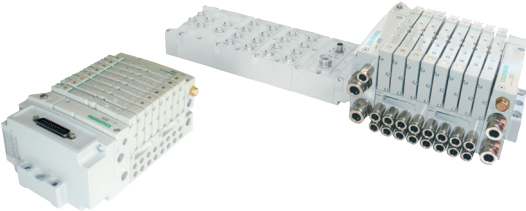


19 Pin Round Connector

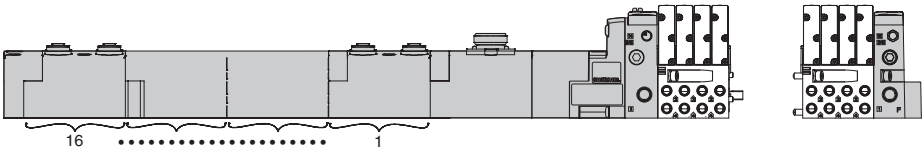


Manifold assembly with G3 Electronics & Discrete I/O (see pages 13 and X021-26)





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

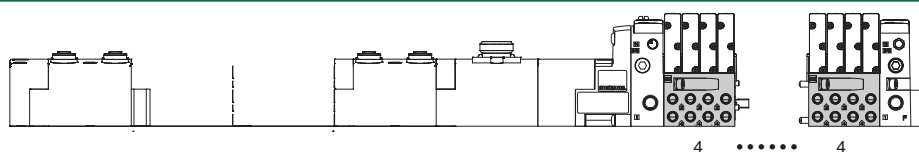
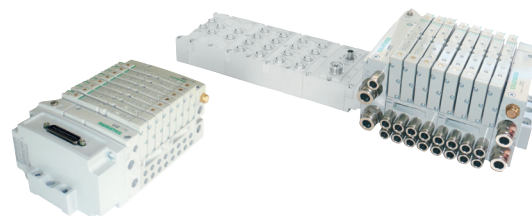
D14 = External pilot supply from port 14
and DIN Rail Mount
F06 = External pilot supply from port 14
Muffler in End Plates and DIN Rail Mount

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

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™

Not use

Interface

1 = High flow

Options

A00 = Standard (No option)

Wiring option

M = Plug-in

Port connection

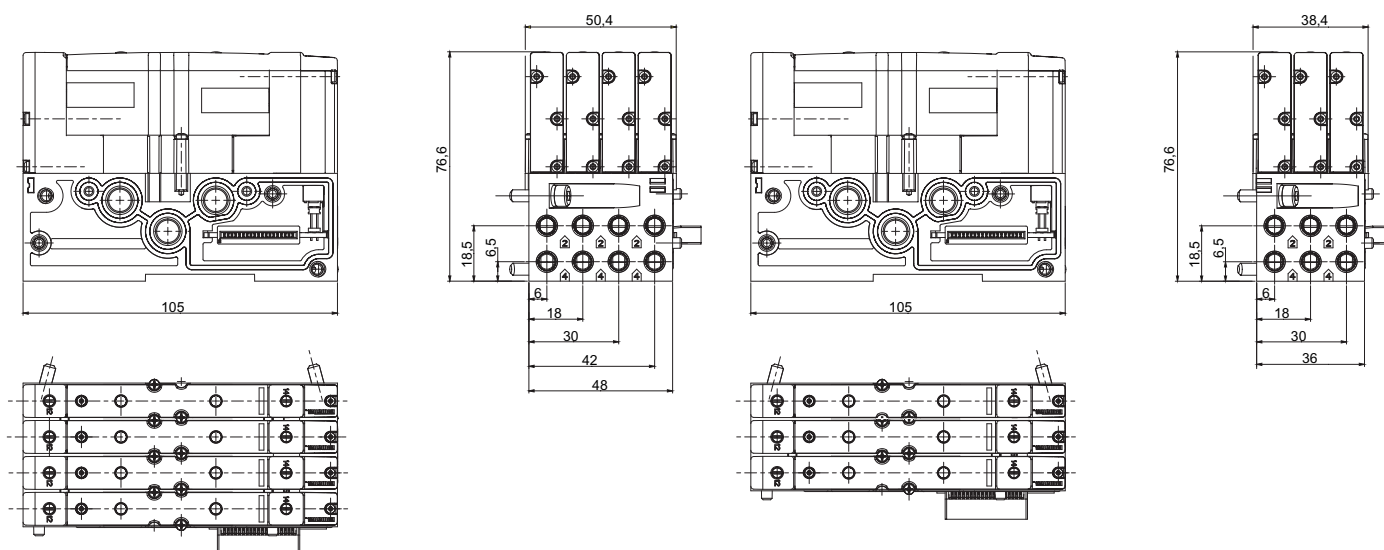
B = M7 (female thread only)

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

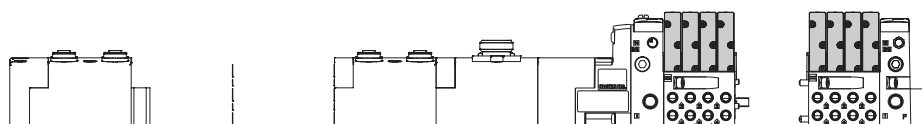
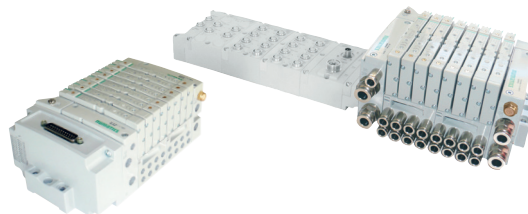
F = 4 x 6 mm [push-in connector only]

Dimensions (mm)

Plug in Valve Mounted



weight (kg)	
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										Voltage - class F1 = 24 V DC - class F
Product series		501 (11 mm valve)									Options A00 = With impulse manual operator 11B = With maintained manual operator 11M = Without manual operator
Revision letter			A = Initial release								
Actuation				2 = Rubber packed							Electrical interface M = Plug-in (with LED indicator / DC)
Valve type					B = Solenoid pilot						
Function						A = 2x3/2 NO, dual 3-way D = 2x3/2 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					



How to Order

Regulators

15-DIGIT PRODUCT CODE

	R	501	A	R	S	5	2	J	A00	1	0	
Thread connection	R = Pad mount											Not use
Product series		501 (11 mm valve)										Interface 1 = Pneumatic
Revision letter			A = Initial release									12H = W/O Gauge Options A00 = Gauge upper position 18V = Gauge lower position
Product type				R = Pressure regulator								Wiring option J = Plug-in
Regulator type					S = Single regulator - Pressure to port 1							Gauge type 0 = W/O Gauge 2 = Gauge scale (bar)
												Pressure range 5 = 0,7 to 8 bar (10 to 115 psi)

