

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

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 m³/s.Pa (sonic conductance)

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

Pneumatic base

3 & 4 station subbases

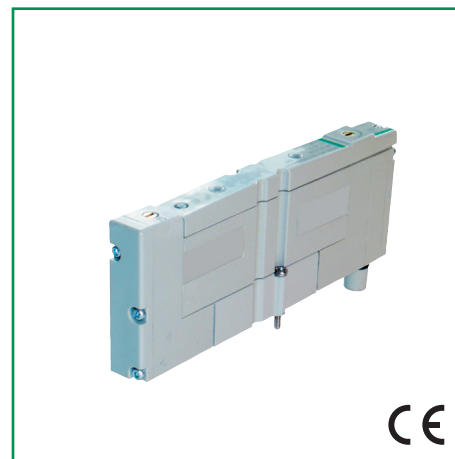
Connection

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

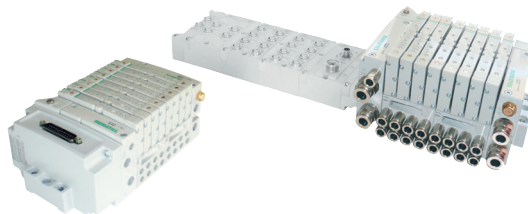
Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
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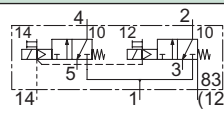
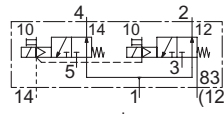
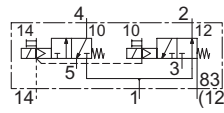
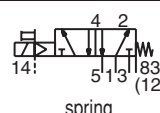
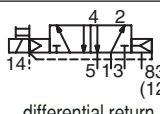
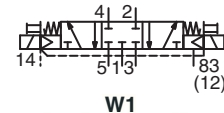
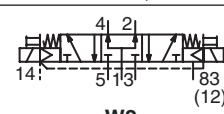
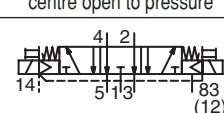
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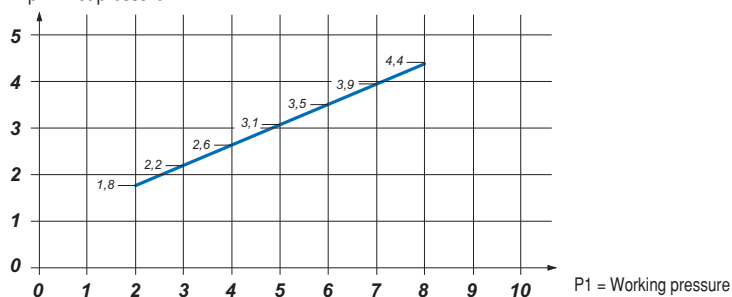


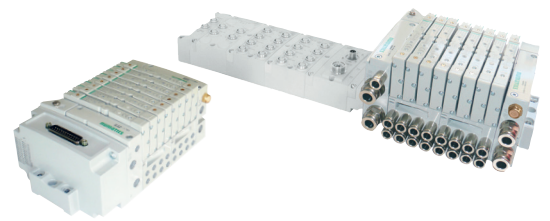
SPECIFICATIONS

15-DIGIT PRODUCT CODE

function	type	symbol pilot (14) return (12)	rated flow		response time open / closed (ms)	pilot pressure at 23°C (bar) min. max.		operating pressure port 1		
			at 6,3 bar ΔP 1 bar l/min (ANR)					min.	max. (PS)	
									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

Pp = Pilot pressure



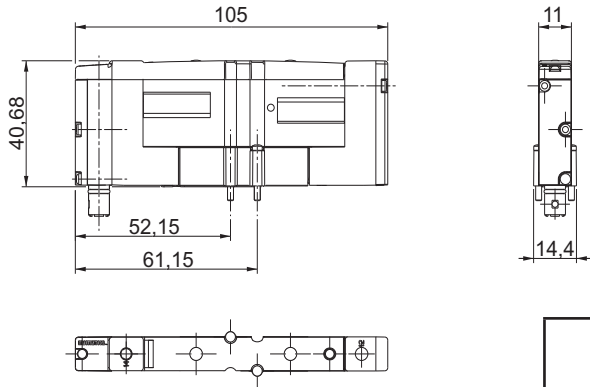


Plug in Valve

Dimensions (mm)

501 Series

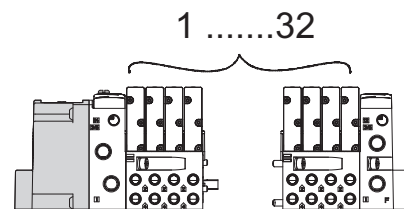
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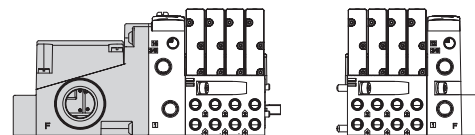
weight (kg)
0,093

Assembly kits

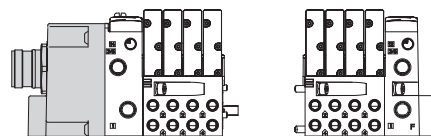
25 or 37 Pin Sub-D



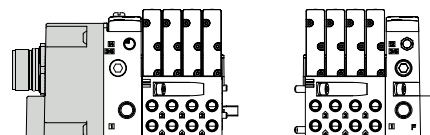
1-32 Terminal Strip



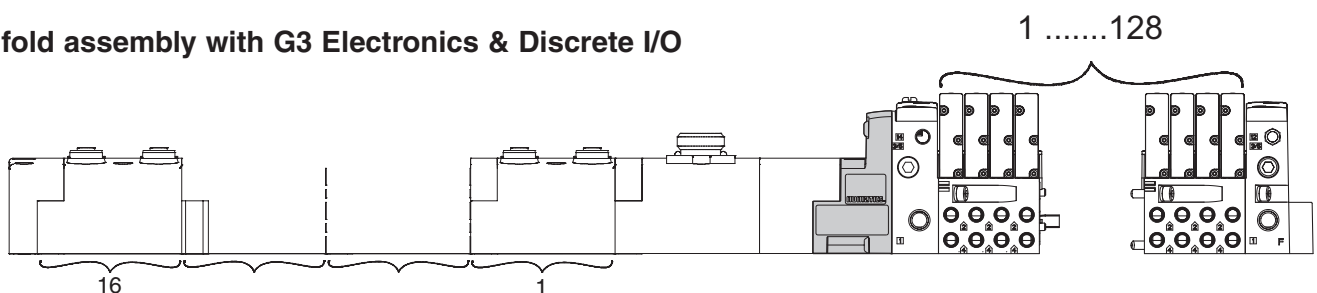
19 Pin Round Connector

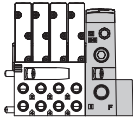
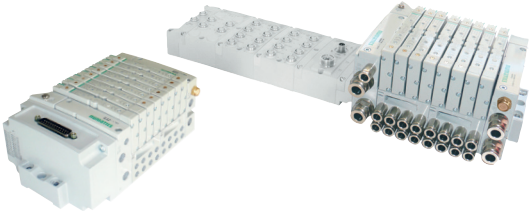


26 Pin Round Connector



Manifold assembly with G3 Electronics & Discrete I/O





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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
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

Number of Valve Stations

A = NA/33/65/97	I = 9/41/73/105	Q = 17/49/81/113	Y = 25/57/89/121
B = NA/34/66/98	J = 10/42/74/106	R = 18/50/82/114	Z = 26/58/90/122
C = 3/35/67/99	K = 11/43/75/107	S = 19/51/83/115	2 = 27/59/91/123
D = 4/36/68/100	L = 12/44/76/108	T = 20/52/84/116	3 = 28/60/92/124
E = NA/37/69/101	M = 13/45/77/109	U = 21/53/85/117	4 = 29/61/93/125
F = 6/38/70/102	N = 14/46/78/110	V = 22/54/86/118	5 = 30/62/94/126
G = 7/39/71/103	O = 15/47/79/111	W = 23/55/87/119	6 = 31/63/95/127
H = 8/40/72/104	P = 16/48/80/112	X = 24/56/88/120	7 = 32/64/96/128

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

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

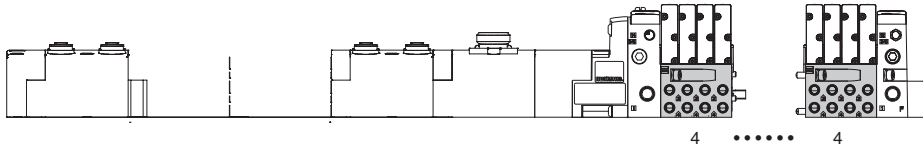
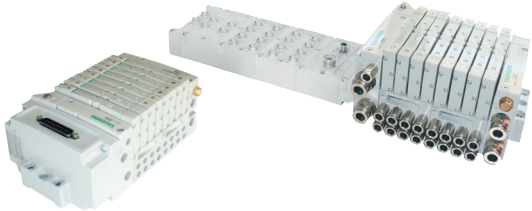
End Plate Style
V = Vertical

Second Valve Series
0 = No Second Valve Series

Valve Station Adder
0 = No Adder
1 = 32+
2 = 64+
3 = 96+

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



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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
F = 32+ Solenoid Manifold Subbase

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™
M8 = 32+ Manifold Sub Base, 8 Stations, Side Ports, Double Z-Board™

Interface
1 = High flow

Options
A00 = Standard (No option)
96X = 4 mm Port Size Override for Stations 5-8 of the 128 Solenoid Manifold Sub Base

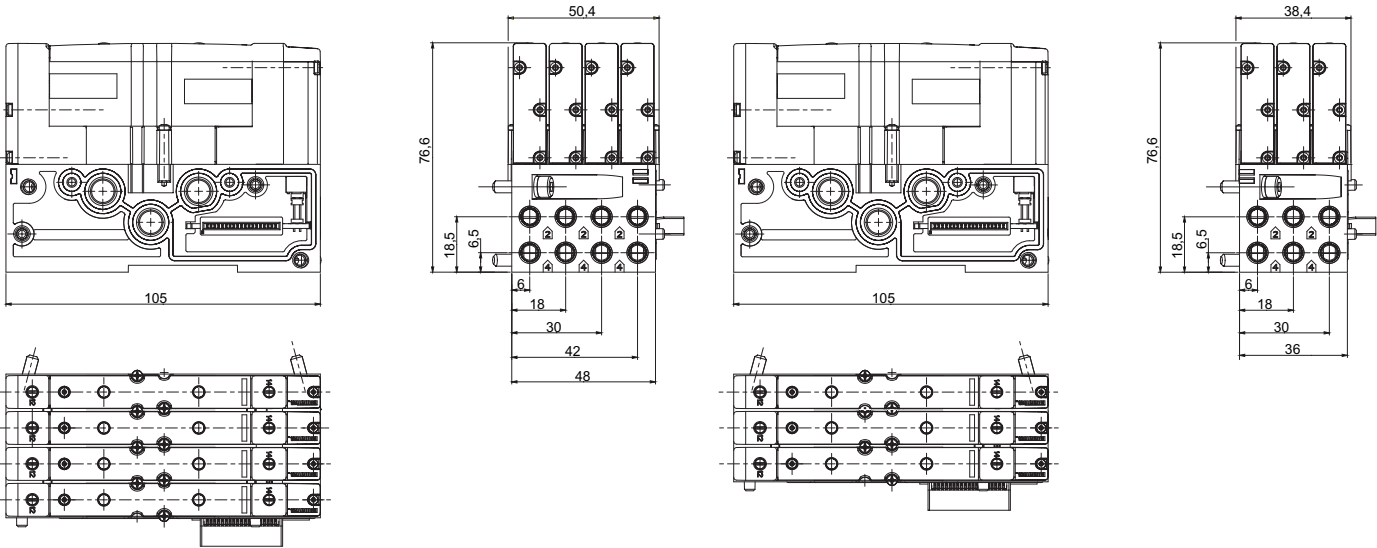
Wiring option
M = Plug-in
V = +24 V DC Separation at First Station

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]

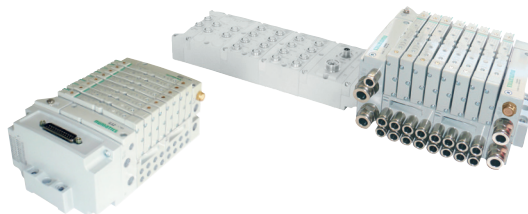
Dimensions (mm)

Plug in Valve Mounted

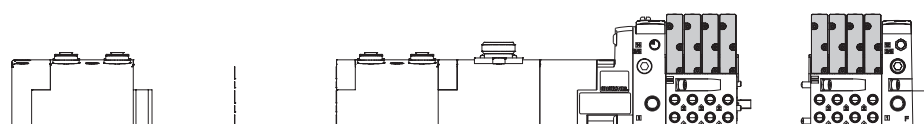
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weight (kg)	
4	3
0,65	0,50



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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

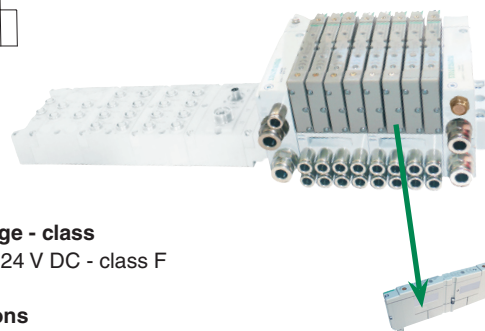
F1 = 24 V DC - class F

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

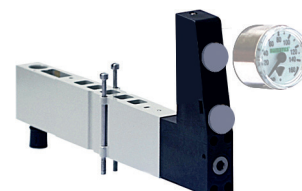
J = Plug-in

Gauge type

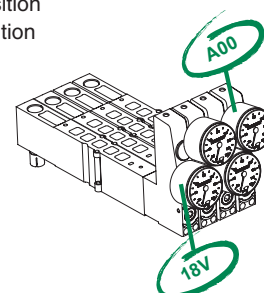
0 = W/O Gauge
2 = Gauge scale (bar)

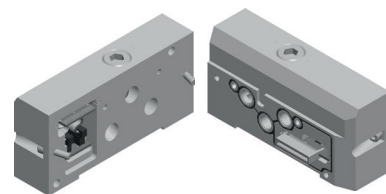
Pressure range

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



[Configurator - CAD Files](#)





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
R502A1B40MA00F1
R502A1B40MA00F1
G502AMM21MA0010
R501A2B40MA00F1
R501A2B40MA00F1
R501A2B40MA00F1
R501A2B40MA00F1
H501AMM4BMA0010
ASSEMBLED



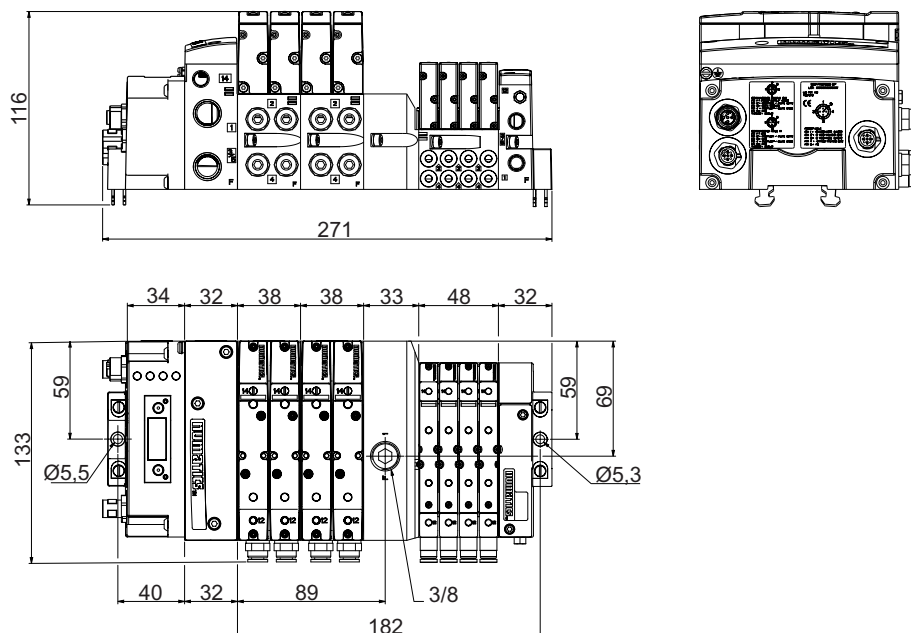
and mounting:

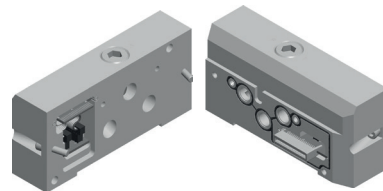
Adaptor Plate Kit with Standard End Plates

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

Dimensions (mm)

502 to 501





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