Series **501**

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

See «SPECIFICATIONS» [1 bar = 100 kPa] Operating pressure

Ambient temperature range (TS) See «SPECIFICATIONS» See «SPECIFICATIONS» Rated flow

 $C(5/2) = 1.45 \times 10^{-8} \text{ m}^3/\text{s.Pa}$ (sonic conductance) conforming to ISO 6358

b(5/2) = 0.40 (critical pressure ratio)

3 & 4 station subbases Pneumatic base Connection Joinable subbase See «SPECIFICATIONS» Response time

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)		



(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body Zamak, E-coating treatment

Spool Aluminium Piston **POM** Stainless steel Spring

Other seals **NBR**

Other materials PAM (polyarylamide),

GF 50% (glass fiber reinforced)

Subbases Aluminium, E-coating treatment

Electrical characteristics

Coil insulation class

Electrical safety IEC-EN 60730-1 / IEC-EN 60730-2-8

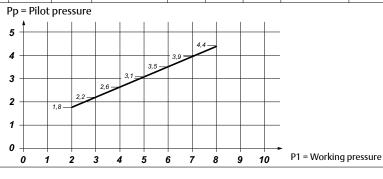
Electrical enclosure protection IP65 (EN 60529) DC (=): 24V 0.7 W / 0.8 W Standard voltages Power ratings (hot/cold) (=)







Specifi	icat	tions								Catalog number
ion	a	symbol	rated flow at 6.3 bar ΔP 1 bar I/min (ANR) 1→2 2→3		response time open / closed	at 23°C (bar)		port 1 max. (PS)		
function	type									
42		pilot (14)						min.	air (*)	
		return (12)	1 → 4	2→3 4→5	(ms)	min.	max.		=	
		SPOOL VALVE, R	UBBER	PACKED	TECHNOLOGY	, WITH	IMPUL	SE MAN	NUAL OPERAT	OR
2 x 3/2 NC	К	14 4 10 12 2 10 17 W 5 11 W 1 1	405	415	18 / 18	(a)	8	2	8	R501A2BD0MA00F1
2 x 3/2 NO	N	10 4 10 2 12 12 15 1	400	400	18 / 18	(a)	8	2	8	R501A2BA0MA00F1
2 x 3/2 NC - NO	Н	4 0 10 12 12 14 14 15 14 18 18 18 18 18 18 18 18 18 18 18 18 18	460 450	470 450	18 / 18	(a)	8	2	8	R501A2BC0MA00F1
	S	4 2 14: 51/3 183 spring (12)	405	410	14 / 29	2	8	-0.95	8	R501A2B10MA00F1
5/2	М	14:	405	410	25 / 21	2	8	-0.95	8	R501A2BN0MA00F1
	J	4 2 14: 5113 183 (12) solenoid air	405	410	11/11	2	8	-0.95	8	R501A2B40MA00F1
	G	4 2 83 83 (12) W1 closed centre position	405	410	13 / 12	2	8	-0.95	8	R501A2B60MA00F1
5/3	В	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	405	360	17 / 38	2.5	8	-0.95	8	R501A2B70MA00F1
	Е	4 2 83 83 (12) W3 centre open to exhaust	365	415	27 12	2	8	-0.95	8	R501A2B50MA00F1



Plug in Valve

Dimensions (mm)

Series 501

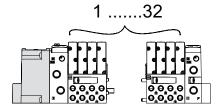
105 52,15 61,15

Configurator - CAD Files

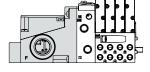
	weight (kg)
Г	0.093

Assembly kits

25 or 37 Pin Sub-D

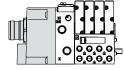






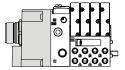


19 Pin Round Connector





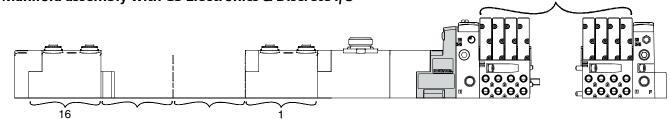
26 Pin Round Connector

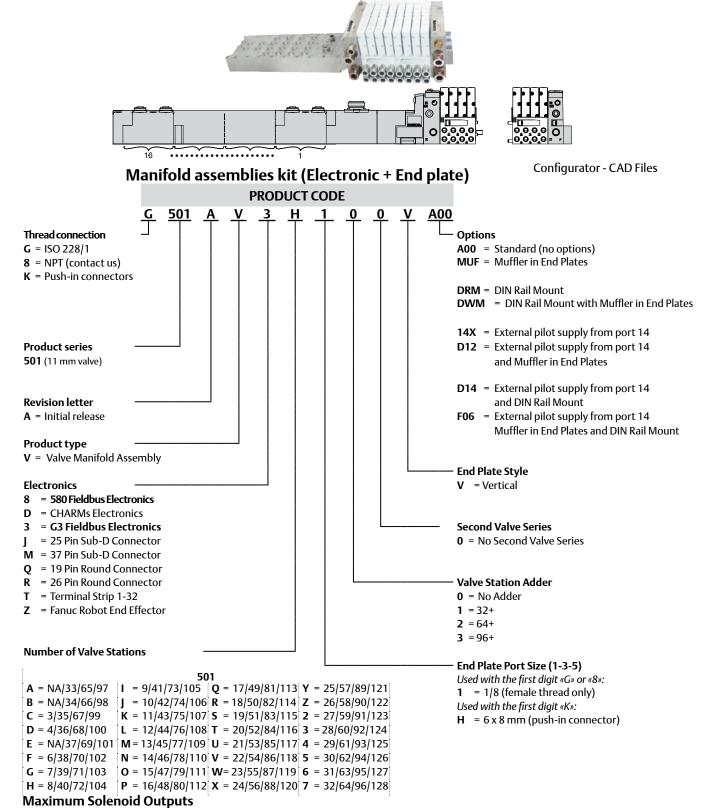




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Manifold assembly with G3 Electronics & Discrete I/O



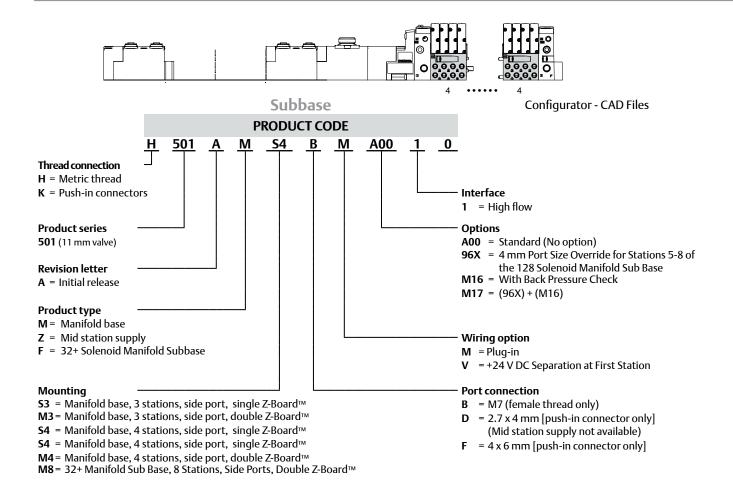


Terminal Strip	25 Pin Sub-D	37 Pin Sub-D	19 Pin Round	26 Pin Round	
1-32	Connector	Connector	Connector	Connector	
32	22	32	16		

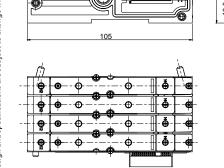
^{*}Note: Maximum number of valve stations is determined by:

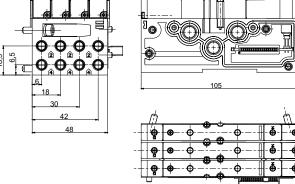
- The electrical connection type.
- The valve type: single and/or double solenoid valves



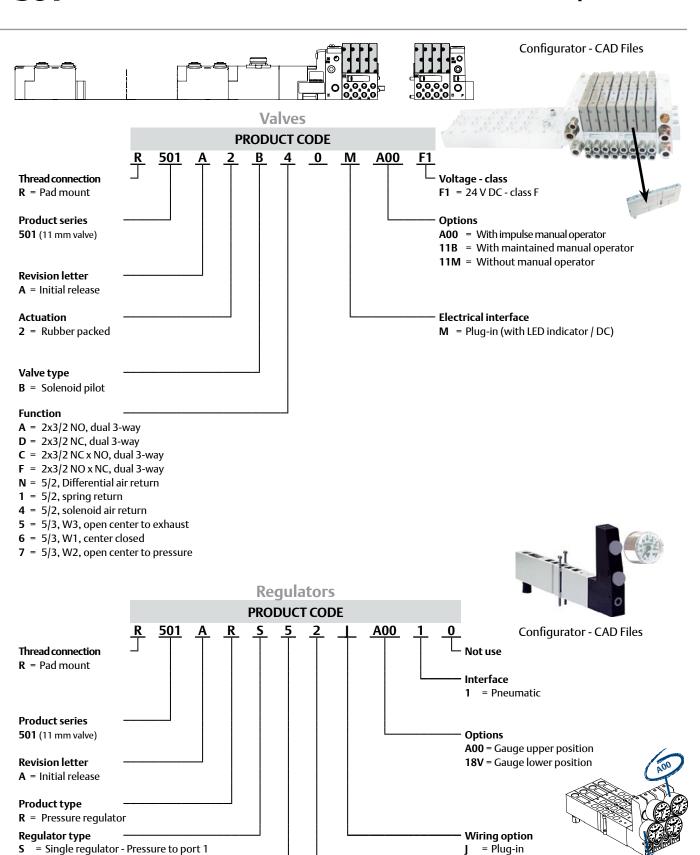


Dimensions (mm) Plug in Valve Mounted Configurator - CAD Files





weight (kg)					
4	3				
0.65	0.50				





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: G502AVJF311VA00 Valves: R502A1B40MA00F1 R502A1B40MA00F1 G502AMM21MA0010

R501A2B40MA00F1 R501A2B40MA00F1 R501A2B40MA00F1 R501A2B40MA00F1 H501AMM4BMA0010

and mounting: **ASSEMBLED**



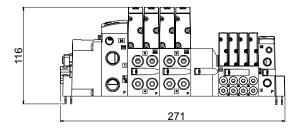
Adaptor Plate Kit with Standard End Plates

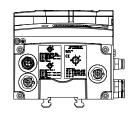
Description	Catalog number		
502 with 3/8 G-tap to 501	G502AT429963002		

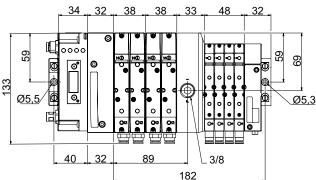


Dimensions (mm)

502 to 501







EMERSON

501 Back Pressure Check Kit

Replacement Parts Kit	Product Image (Example Only)	Description	Parts Included	Restrictions	Part Number
Back Pressure Checks		Back pressure checks installed in ports 3 and 5 of the manifold blocks. Used to reduce/prevent back pressure into the valve.	2x Check Bodies and 2x Balls	Pressure must come from port 1 and exhaust must leave ports 3 and 5. Not allowed with Dual Pressure setup or Pilot supply from port 14 (no option 14X or combination thereof)	M501AU535182001

Manifold Assembly



