CABINET MOUNTING

numatics

501 series



FEATURES

• The 501 range has an adaptation plate for direct mounting on a cabinet side or

These adaptation plates are available in aluminium or stainless steel AISI 316L for 8, 12, 16 or 24 position island configurations. They can be only ordered installed directly on the island with or without quick connectors.

- 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 or 26 Pin Round connector, 1-32 Terminal Strip
- Version with integrated LED and electrical protection. LED indicator visible from 3 sides
- 580 Electronics

GENERAL

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

-10°C to +50°C $^{(1)}$ Ambient temperature range (TS)

Rated flow See «SPECIFICATIONS»

conforming to ISO 6358 $C (5/2) = 1,45 \times 10^{-8} \text{ m}^3/\text{s.Pa}$ (sonic conductance)

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

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

fluids (*)	temperature range (TS)	technology	seal materials (*)
air or inert gas filtered at 50 µm, lubricated or not	-10°C to +50°C (1)	rubber packed	FPM (fluoroelastomer)

⁽¹⁾ The internal temperature of the cabinet must not exceed +50°C (overheating included).

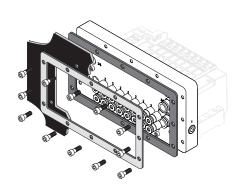
CONSTRUCTION

	RIALS IN CONTACT WITH FLUID Natibility of the fluids in contact with the materials is verified 501 Island						
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						
Version without Vertical Shut Off							
Port plate	Aluminium or stainless steel AISI 316L						
Flat seal	FPM						
Support flange	Stainless steel AISI 316L						
Ve	Version with Vertical Shut Off						
Port plate	Stainless steel AISI 316L						
Flat seal	FPM						
Support flange	Stainless steel AISI 316L						
Spacer plate	Aluminium						
ELECTRICAL CHARACTERISTICS							

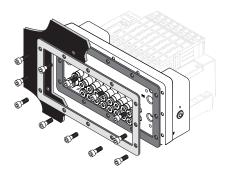
Coil insulation class	F					
Electrical safety	IEC-EN 60730-1 / IEC-EN 60730-2-8					
Electrical enclosure protection	IP65 (EN 60529)					
Standard voltages	DC (=): 24V					
Power ratings (=)	G3: 0,81 W / 0,33 W (inrush/holding) 580 CHARMs: 0,81 W/0,33 W (inrush/holding) 580/599: 0,7 W / 0,8 W (hot/cold)					



Version without Vertical Shut Off



Version with Vertical Shut Off



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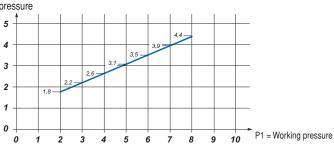


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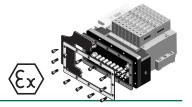
SPECIF	ICA	TIONS						1		15-DIGIT PRODUCT CODE
function	type	symbol	rated		response time	at 2	ressure	opera	ting pressure port 1	
	<i>"</i>		l/min ((b)	ar)		max. (PS) air (*)	
		pilot (14) return (12)	1→2	2 → 3	(ms)	min.	max.	min.	= all (*)	-
		SPOOL VALVE, RU	1→4	4→5				III SE I		PERATOR
2 x 3/2 NC	К	14 4 10 12 2 10 10 10 10 10 10 10 10 10 10 10 10 10	405	415	18 / 18	(a)	8	2	8	R501A2BD0M71WF1
2 x 3/2 NO	N	10 4 10 2 12 12 13 14 10 15 14 10 14 10 15 11 14 10 15 11 14 15 11 14 15 15 15 15 15 15 15 15 15 15 15 15 15	400	400	18 / 18	(a)	8	2	8	R501A2BA0M71WF1
2 x 3/2 NC x NO	Н	14 4 2 12 12 12 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	405 400	415 400	18 / 18	(a)	8	2	8	R501A2BC0M71WF1
2 x 3/2 NO x NC	Р	10 - 4 14 12 - 2 10 1	400 405	400 415	18 / 18	(a)	8	2	8	R501A2BF0M71WF1
	S	4 2 14: 51/3 83 spring	405	410	14 / 29	2	8	-0,95	8	R501A2B10M71WF1
5/2	М	14: 2 14: 5 13 83 (12) differential return	405	410	25 / 21	2	8	-0,95	8	R501A2BN0M71WF1
	J	4 2 14: 5113 183 (12) solenoid air	405	410	11/11	2	8	-0,95	8	R501A2B40M71WF1
	G	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	405	410	13 / 12	2	8	-0,95	8	R501A2B60M71WF1
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	R501A2B70M71WF1
	Е	4 2 14: 513 83 (12) w3 centre open to exhaust	365	415	27 / 12	2	8	-0,95	8	R501A2B50M71WF1





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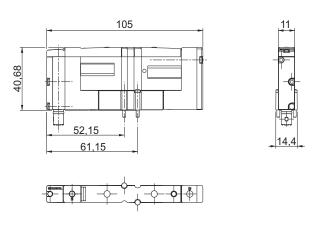
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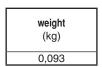


Plug in Valve

Dimensions (mm)

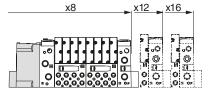
Configurator - CAD Files



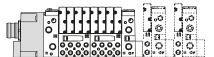


Assembly kits

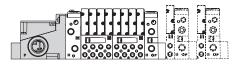
25 or 37 Pin Sub-D



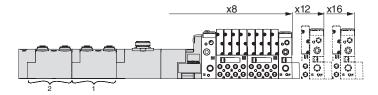
19 Pin Round Connector



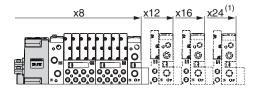
Terminal Strip 1-32



Manifold assembly with G3 Electronics & Discrete I/O



Manifold assembly with 580 Electronics

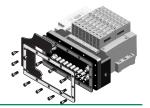


 $^{\mbox{\scriptsize (1)}}$ 580 CHARMs only.



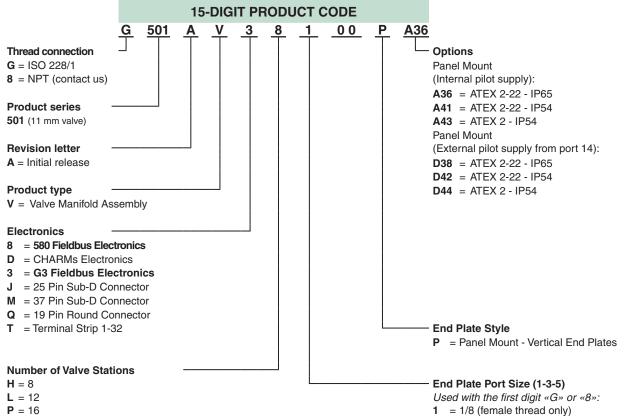


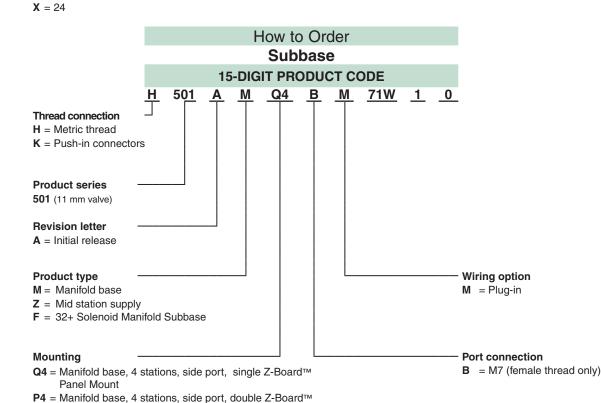
501 series



Configurator - CAD Files

How to Order Manifold assemblies kit (Electronic + End plate)





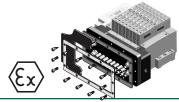
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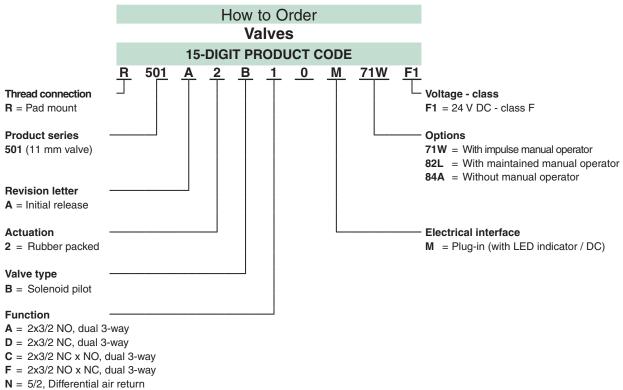
Panel Mount

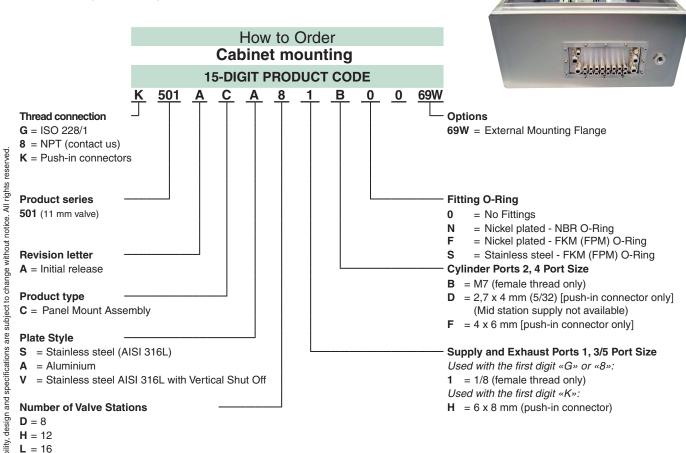
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1 = 5/2, spring return
4 = 5/2, solenoid air return
5 = 5/3, W3, open center to exhaust
6 = 5/3, W1, center closed

7 = 5/3, W2, open center to pressure



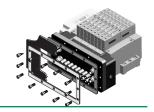




X = 24

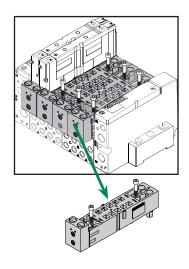
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Sandwich vertical shut off block

- Used to shut-off pressure to the valve which is mounted above it.
- Allows easy maintenance without the need to shut-off pressure to the whole manifold. (specified for 2x3/2 NC-NC valve)

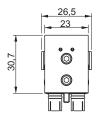


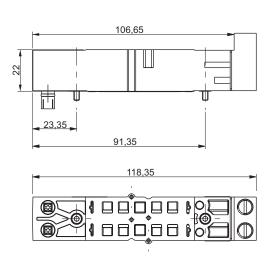


Usable only for internal pilot supply island

Pay attention to residual pressures

The valve(s) should not be energised during disassembly





15-DIGIT PRODUCT CODE	Description
R501AY503875002	Sandwich shut off block (double)

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weight (kg)	
0,11	ı

HOW TO ORDER

Consult the online configurator - CAD files on: www.asco.com