#### Features and Benefits

- High flow rate up to 650 l/min
- Spool & Sleeve or rubber packed technology in the same dimension body
- 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
- Compliance with ISO standard 15407-2 18 mm
- Solenoid air operated valves which can be mounted on manifold bases
- 580 Electronics

### General

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

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

conforming to ISO 6358  $C(5/2) = 24.24 \times 10^{-9} \text{ m}^3/\text{s.Pa} \text{ (sonic conductance)}$ b(5/2) = 0.28 (critical pressure ratio)

Pneumatic base High flow subbase or ISO 15407-2 18 mm

Joinable subbase Connection Response time See «SPECIFICATIONS»

fluids (∗)	temperature range (TS)	technology	seal materials (★)		
air or inert gas ISO 8573	-10°C to +50°C	rubber packed	PUR (polyurethane)		
Level 7.4.4	-10°C to +50°C	spool & sleeve	metal-to-metal sealing		



### Materials in contact with fluid

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

Aluminium, E-coating treatment **Body** Spool Aluminium or st. steel (spool & sleeve)

POM (rubber packed) Piston Spring Stainless steel Other seals **NBR** 

Other materials PA (polyamide)

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

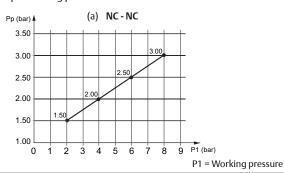
**Electrical enclosure protection** IP65 (EN 60529) Standard voltages DC (=): 24V Power ratings (hot/cold) (=) 1.1 W / 1.3 W



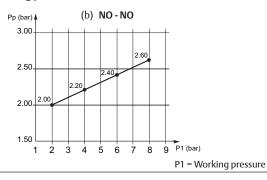


Specif	icat	ions									Catalog number
ion	a	symbol	ace	rated		response time	pilot pr	cssuic		ng pressure oort 1	
function			interface	at 6.3 bar ∆P 1 bar		open / closed	(bar)		max. (PS)		
<b>—</b>		pilot (14) return (12)	· <b>=</b>	1/min ( 1 → 2	2 → 3	(ms)	min.	max.	min.	air (*) =	
SPOOL VALVE, RUBBER PACKED TECHNOLOGY, WITH IMPULSE MANUAL OPERATOR											
2 x 3/2 NC	K	14 4 10 12 2 10 10 12 10 10 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	High flow subbase	650	600	39 / 19	(a)	8	2	8	R502A2BD0MA00F1
INC		14 1 (12) spring	ISO subbase	500	440						
2 x 3/2 NO			High flow subbase s	580	570	19 / 26	(b)	8	2	8	R502A2BA0MA00F1
NO		14 (12) spring	ISO ubbase	500	470						
S	S	4 2 12 7 1 7 W 14 513 (12) spring	High flow ISO High flow subbase subbase	630	660	17 / 38	3	8	-0.95	8	R502A2B10MA00F1
			ISO Jbbase	510	510						
5/2	M	4 <sup>2</sup> 14 5 13 183	High flow ISO High flow ISO subbase subbase subbase	630	660	17 / 44	2	8	-0.95	8	R502A2BN0MA00F1
		(12) differential return	ISO ubbase	510	510						
	J	4 2 14 - 5 13 183	High flow subbase s	630	660	14 / 14	2	2 8	-0.95	8	R502A2B40MA00F1
		(12) solenoid air	ISO I	510	510						
G	G	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	High flow subbase	560	610	18/18	3	8	-0.95	8	R502A2B60MA00F1
		(12) <b>W1</b> closed centre position	SO subbase	490	490						
5/3 B	В	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	High flow subbase	490	390	21 / 27	3	8	-0.95	8	R502A2B70MA00F1
		W2 centre open to pressure	ISO subbase	390	390						
	E	4 2 14 5 13 83 (12)	SO High flow SO High flow subbase subbase subbase	430	530	- 36 / 21	3	8	-0.95	8	R502A2B50MA00F1
		w3 centre open to exhaust	ISO subbase	390	470						

Pp = Piloting pressure



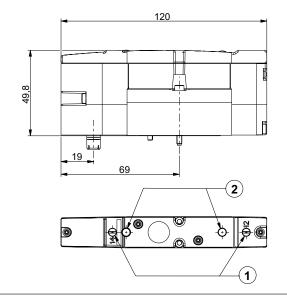
Pp = Piloting pressure

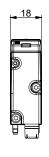




### Plug in Valve

### Dimensions (mm)





Configurator - CAD Files

**weight** (kg) 0.169

<sup>(\*)</sup> Ensure that compatibility of materials in contact with fluids is verified.

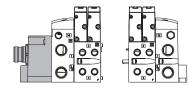
**Assembly kits** 

25 or 37 Pin Sub-D

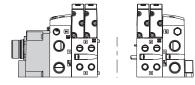
1 .....32

1-32 Terminal Strip

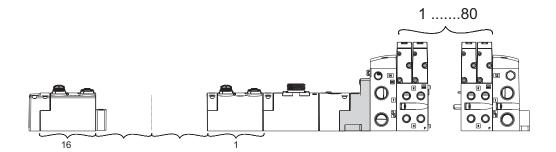
**19 Pin Round Connector** 

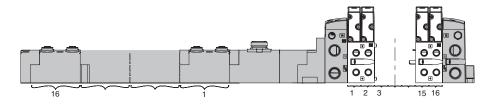


**26 Pin Round Connector** 



Kit d'assemblage avec électronique G3 et modules d'E/S





#### Manifold assemblies kit (Electronic + End plate) Configurator - CAD Files **PRODUCT CODE** Thread connection A00 = Standard (no options) G = ISO 228/1**MUF** = Muffler in End Plates 8 = NPT (contact us) **DRM** = DIN Rail Mount K = Push-in connectors **DWM** = DIN Rail Mount with Muffler **14X** = External pilot supply from port 14 D12 = External pilot supply from port 14 **Product series** 502 (18 mm valve) and Muffler in End Plates **D14** = External pilot supply from port 14 **Revision letter** and DIN Rail Mount A = Initial release **F06** = External pilot supply from port 14 Muffler in End Plates **Product type** and DIN Rail Mount V = Valve Manifold Assembly **End Plate Style** V = Vertical **Electronics** = 580 Fieldbus Electronics Second Valve Series = CHARMs Electronics 0 = No Second Valve Series = G3 Fieldbus Electronics 1 = 11 mm Valve = 25 Pin Sub-D Connector M = 37 Pin Sub-D Connector = 19 Pin Round Connector **Valve Station Adder R** = 26 Pin Round Connector 0 = No Adder 1 = 32+ T = Terminal Strip 1-32 **Z** = Fanuc Robot End Effector **2** = 64+ 0 = No Electronics **Number of Valve Stations** V = 22/547 = 32/64End Plate Port Size (1-3-5) B = 2/34/66L = 12/44/76Used with the first digit «G» or «8»: D = 4/36/68N = 14/46/78X = 24/56F = 6/38/70Z = 26/58P = 16/48/803 = 3/8 (manifold base) R = 18/503 = 28/60Used with the first digit «K»: H = 8/40/72J = 10/42/74 T = 20/525 = 30/62**K** = 8 x 10 mm (push-in connector) **M** = 10 x 12 mm (push-in connector)

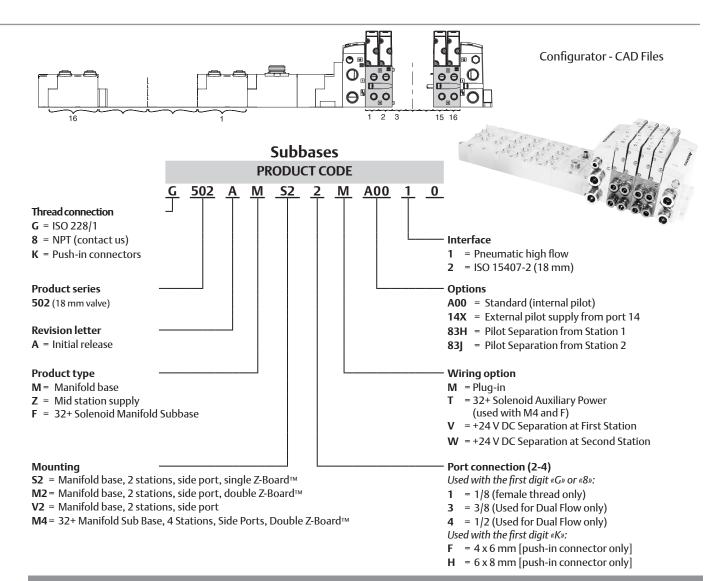
### **Maximum Solenoid Outputs**

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	22

<sup>\*</sup>Note: Maximum number of valve stations is determined by:

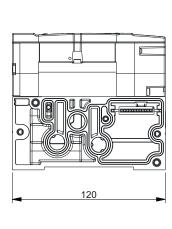
- The electrical connection type.
- The valve type: single and/or double solenoid valves

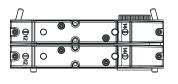


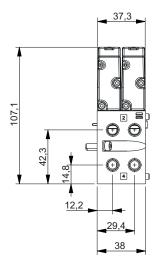


### Dimensions (mm)

### Plug in Valve Mounted

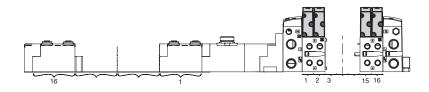




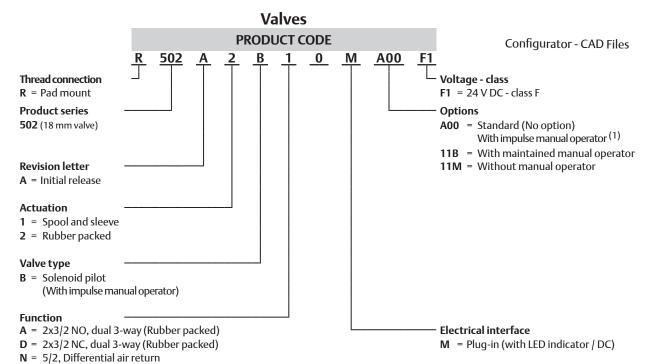


Configurator - CAD Files

**weight** (kg) 0.661 01443GB-2021/R01 Availability, design and specifications are subject to change without notice. All rights reserved.







(1) Used external spool valves (internal/external supply configurated in the end plate kits).



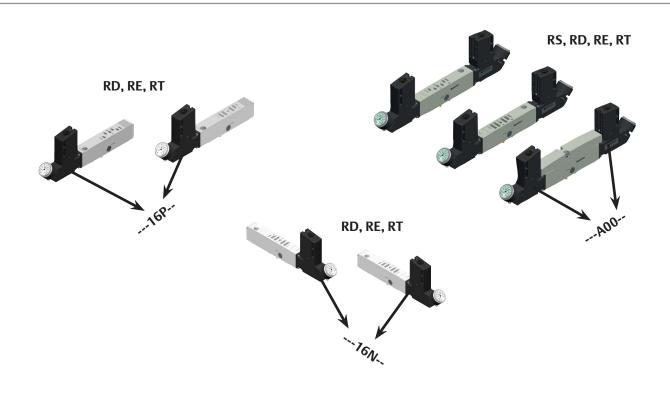
1 = 5/2, spring return

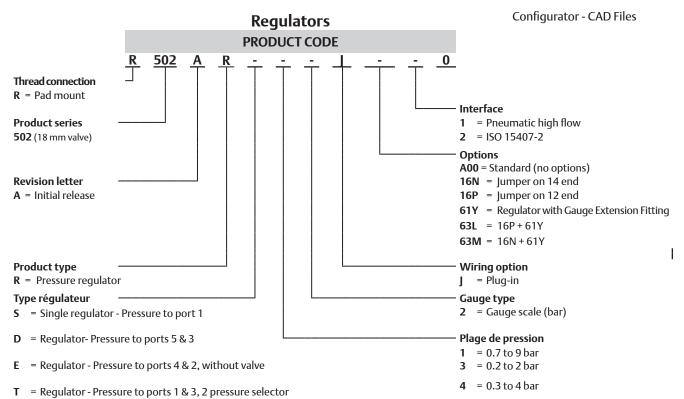
4 = 5/2, solenoid air return

**6** = 5/3, W1, center closed

5 = 5/3, W3, open center to exhaust

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





### **Adaptor Plate Kits**

The kits include the adapter plate, transfer board, gasket, screws. Individual end plates for the 502 and 503 are not included. This adaptor allows the transition from the 503 to the 502 series.

**EXAMPLE ORDERS:** 

Adapter plate kit: G503AVJD332VA00
Valves: R503A2B40MA00F1
R503A2B40MA00F1
G503AMM22MA0010

R502A1B40MA00F1 R502A1B40MA00F1 G502AMM21MA0010

and mounting: ASSEMBLED



## Adaptor Plate Kit with Standard End Plates (ISO 15407-2 + High Flow)

Description	Catalog number
503 with 3/8 G-tap to 502	G503AT429964003

## Adaptor Plate Kit with Standard End Plates (ISO 15407-1)

Description	Catalog number
503 with 3/8 G-tap to 502	G503AT429964004



### Dimensions (mm)

503 to 502

