ISO 15407-2 (18 mm)- pad mounting body - M12 connection

Series

2x3/2 - 5/2 - 5/3

**503** 

#### **Features**

• M12 connection with electrical interface in the subbase:

- Allows to change the valve without any intervention on electrical and pneumatic connection
- Reduces installation time and wiring costs
- Prevents wiring errors
- Spool & Sleeve or rubber packed technology in the same dimension body
- High flow rate up to 1200 l/min
- Internal or external pilot pressure supply capability and compliance with ISO standard 15407-2 26 mm
- Spool & sleeve technology for long service life, rubber-packed version for high flow combined with multi-functions



### General

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

Ambient temperature range (TS) -10°C to +50°C

See «SPECIFICATIONS» Rated flow

conforming to ISO 6358  $C(5/2) = 5.21 \times 10^{-8} \text{ m}^3/\text{s.Pa}$  (sonic conductance)

b(5/2) = 0.34 (critical pressure ratio)

Pneumatic/electric base ISO 15407-2 26 mm (M12 in the subbase)

Connection Single subbase Response time See «SPECIFICATIONS»

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



M12 electrical interface in the subbase

### Materials in contact with fluid

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

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

POM (rubber packed) **Piston** 

Spring Steel Other seals NBR

Other materials PARA (polyarylamide)

GF 50% (glass fiber reinforced)

**Subbases** Aluminium, E-coating treatment

#### Electrical characteristics

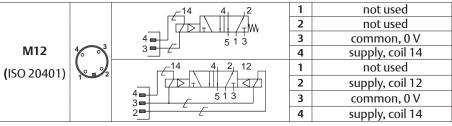
Coil insulation class

1 x 4 pin M12 male, IEC 61076-2-101 **Round connector** 

PIN assignment ISO 20401

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

**Electrical enclosure protection** IP65 (EN 60529) Standard voltages DC (=): 24V 1.4 W / 1.7 W Power ratings (hot / cold) (=)



## Accessories

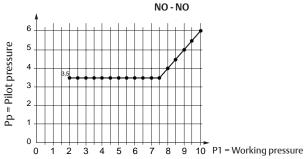
Straight M12 connector female with 5 m cable length (5 pin): catalogue number 88130212



Specific	cations									Catalog number	
function	symbol	rated flow at 6.3 bar △P 1 bar I/min (ANR)		response time open / closed	pilot pressure at 23°C (bar)		operating pressure port 1 (bar) max. (PS)		dimensions / type <sup>(1)</sup>		
	pilot (14)	,	(/ (( ( ) )		(D	аг)	min.	air (*)	ensi E		
	return (12)	1 → 2 1 → 4	2 <b>→</b> 3 4 <b>→</b> 5	(ms)	min.	max.		=	dim	ISO 15407-2	
SPOOL	VALVE, RUBBER PACKED			ITH IMPULSE M	IANUAL	OPER/	TOR (EX	TERNAL SUF			
2 x 3/2 NC	14 - 4 10 12 - 2 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10	900	800	15 / 20	3.5 <sup>(a)</sup>	8	2	8	01	R503A2BD0MA00F1	
2 x 3/2 NO	10 4 10 2 12 10 14 10 3 83 14 1 (12) spring	900	900	15 / 20	3.5 <sup>(a)</sup>	8	2	8	01	R503A2BA0MA00F1	
	4 2 14: 513 83 14: 513 (12) spring	1200	1100	20 / 60	3	8	-0.95	8	01	R503A2B10MA00F1	
5/2	4 2 14: 513 83 (12) differential return	1200	1100	28 / 40	3	8	-0.95	8	01	R503A2BN0MA00F1	
	4 2 14: 5113 83 (12) solenoid air	1200	1100	20	2	8	-0.95	8	01	R503A2B40MA00F1	
	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1200	1100	15 / 20	3	8	-0.95	8	01	R503A2B60MA00F1	
5/3	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1100	600	18 / 45	3	8	-0.95	8	01	R503A2B70MA00F1	
	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	600	1100	18 / 45	3	8	-0.95	8	01	R503A2B50MA00F1	

<sup>(1)</sup> For dimensions, see drawing(s) for each construction type on the following page(s).

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



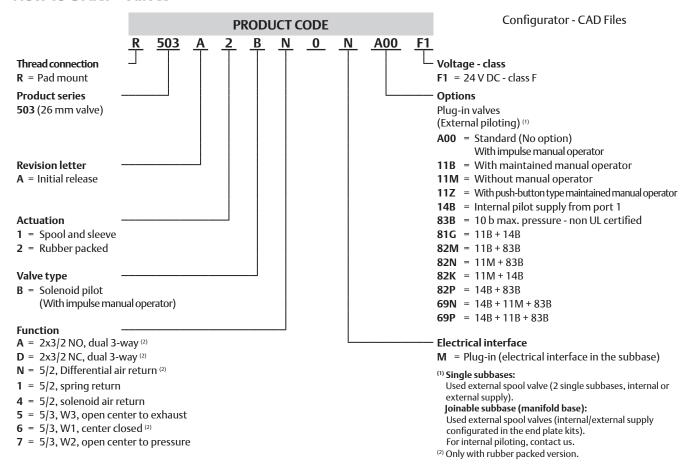
(a) NC - NC

Specifications							Catalog number			
function	symbol	rated flow at 6.3 bar ∆P 1 bar		response time	pilot pressure at 23°C		. р	ng pressure ort 1 (bar)	s /	
lunction	pilot (14)	l/min	(ANR)	open / closed	(b)		min.	max. (PS) air (*)	dimensions / type (1)	
	return (12)	1→2 1→4	2→3 4→5	(ms)	min.	max.		=	dime type	ISO 15407-2
SPOOL	VALVE, SPOOL AND SLEEV	/E TECHN	OLOGY, V	WITH IMPULSE	MANUA	AL OPER	RATOR			
5/2	4 2 14: 513 83 (12) spring	1100	1000	20 / 60	2	8	-0.95	8	01	R503A1B10MA00F1
OHOURS!	14:	1100	1000	15	2	8	-0.95	8	01	R503A1B40MA00F1
5/3	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	800	800	20 / 60	2	8	-0.95	8	01	R503A1B70MA00F1
2 mount	4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	800	800	20 / 60	2	8	-0.95	8	01	R503A1B50MA00F1

<sup>(1)</sup> For dimensions, see drawing(s) for each construction type on the following page(s).

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

### How to Order - Valves



### Installation

- The spool valves can be mounted in any position without affecting operation
  Spool valve supplied with mounting screws and mounting pad gasket
  ISO 15407-2 pneumatic/electric pad mounting body (plug-in version, single subbase M12)

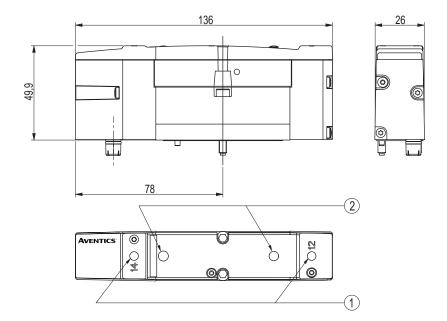
## Dimensions (mm), Weight (kg)



Configurator - CAD Files



**TYPE 01** Electrical interface "M" ISO 15407-2 / ISO 20401

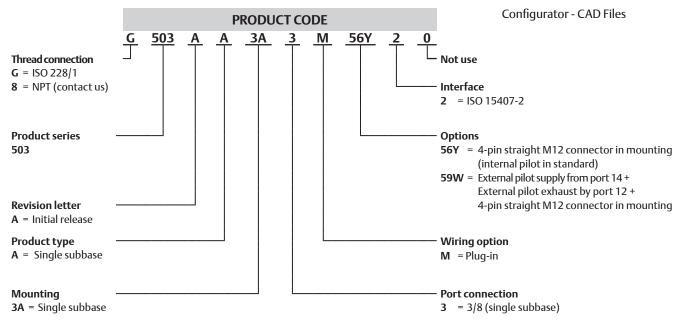


type	weight			
01	0.236			

1 Manual operator

2 LED indicator

## How to Order - Single subbases



Single subbases	Catalog number				
function		designation	thread type	dimensions / type (1)	
	SINGLE S	SUBBASE (ISO 15407-2) FOR PLUG-IN VALVE			
	(3) (1) (5) (12) (2) (4)	internal supply  1-2-3-4-5 = 5 x 3/8  12 = 1/8 (pilot exhaust)  (mounting interface surface  with electrical connector)	G	02	G503AA3A3M56Y20
	(3) (1) (5) (12) (2) (4) (14)	external supply  1-2-3-4-5 = 5 x 3/8  12 = 1/8 (pilot exhaust)  14 = 1/8 [pilot external supply)  (mounting interface surface  with electrical connector)	G	02	G503AA3A3M59W20

<sup>(1)</sup> For dimensions, see drawing(s) for each construction type on the following page(s).

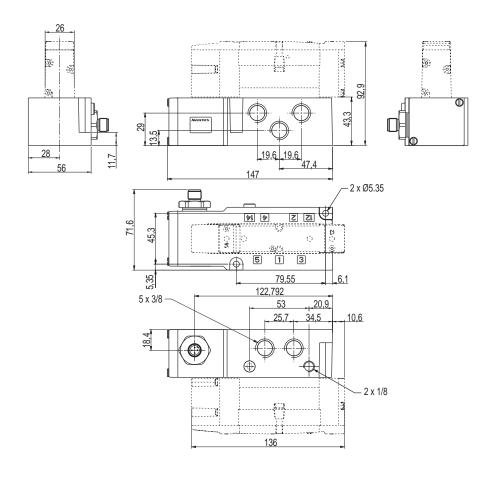
Configurator - CAD Files



TYPE 02

Single subbases, M12 connector in mounting ISO 15407-2, plug-in version 3/8 = 1, 2, 3, 4, 5 ports 1/8 = 12, 14 ports

G503AA3A3M56Y20 - G503AA3A3M59W20



type	Catalog number	weight
02	G503AA3A3M56Y20	0.231
02	G503AA3A3M59W20	0.228