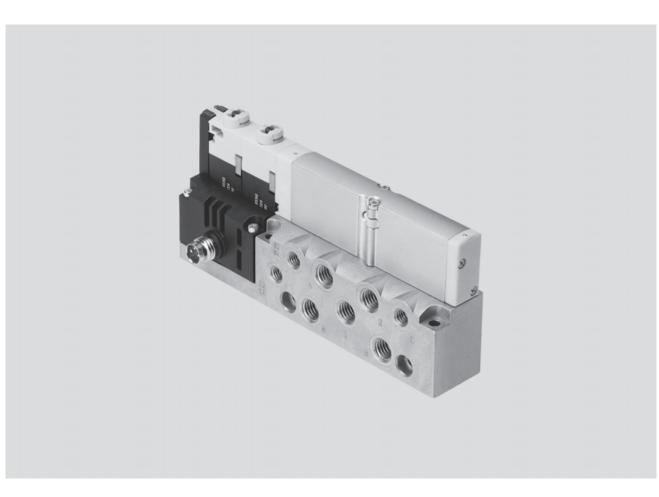


Key features



## Innovative

- Slim high-performance valves in a sturdy metal housing
- MPA1 (width 10 mm): flow rate up to 360 l/min
- MPA14 (width 14 mm): flow rate up to 670 l/min
- MPA2 (width 20 mm) : flow rate up to 870 l/min The valves are identical with the valves from the valve terminals MPA-S and MPA-L.

This simplifies planning, ordering and warehousing.

## Versatile

- High pressure range
   -0.9 ... 10 bar
- Wide range of valve functions

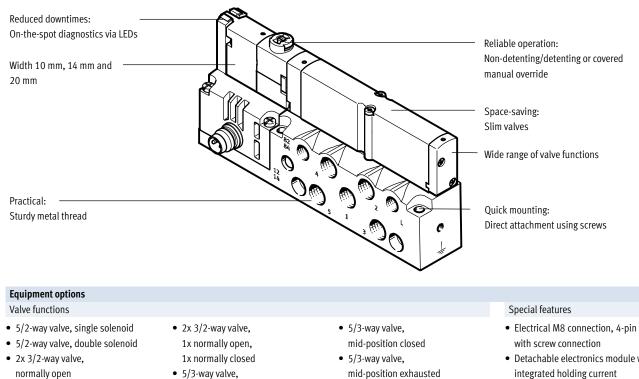
#### Reliable

- Fast troubleshooting thanks to LEDs on the valves and diagnostics via fieldbus
- Extensive operating voltage range ±25%
- Easy to service thanks to replaceable valves and electronic modules
- Manual override either non-detenting, detenting or secured against unauthorised activation (covered)

#### Easy to mount

Secure wall mounting

Key features



- 2x 3/2-way valve, normally closed
- 5/3-way valve,
- mid-position pressurised
- mid-position exhausted
- 2x 2/2-way valve, normally closed
- Detachable electronics module with integrated holding current reduction

2018/05 - Subject to change

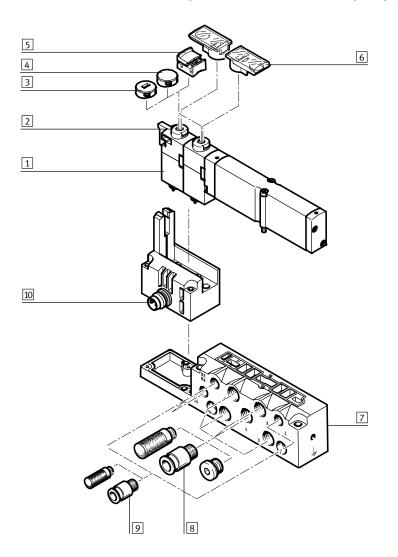
• Using individual part numbers

Peripherals overview

#### Individual sub-base for solenoid valve width 10 mm

Ordering:

Individual sub-bases of the type VMPA1-IC-... can be equipped with any 10 mm solenoid valve VMPA1. The electrical connection is established using a standardised 4-pin M8 plug (EN 60947-5-2).



Description		Brief description	→ Page/Internet
1	Solenoid valve	VMPA1	24
2	Manual override (MO)	Non-detenting/turning with detent, per solenoid coil	-
3	Cover cap, coded	After fitting the cover cap, manual override operation is non-detenting only	26
4	Cover cap, covered	After fitting the cover cap, manual override is blocked	26
5	Cover cap, manual override detenting	After fitting the cover cap, manual override is detenting and can be operated without tools	26
6	Inscription label holder	Can be pushed onto manual override	26
7	Sub-base	For solenoid valve VMPA1	26
8	Fittings, silencers or blanking plugs	M7 for working ports (2, 4) and air/exhaust ports (1, 3, 5)	26
9	Fittings and/or silencers	M5 for pilot air supply/pilot exhaust air (12/14, 82/84) and pressure compensation	26
10	Electrical port M8	4-pin	-

Peripherals overview

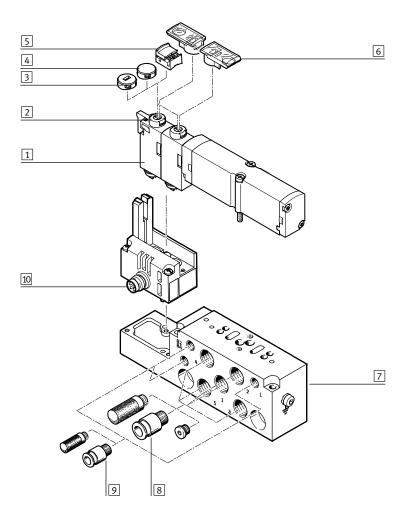
#### Individual sub-base for solenoid valve width 14 mm

Ordering:

• Using individual part numbers

Individual sub-bases of the type VMPA14-IC-... can be equipped with any 14 mm solenoid valve VMPA14.

The electrical connection is established using a standardised 4-pin M8 plug (EN 60947-5-2).



Designation		Brief description	→ Page/Internet
1	Solenoid valve	VMPA14	24
2	Manual override (MO)	Non-detenting/turning with detent, per solenoid coil	-
3 Cover cap, coded		After fitting the cover cap, manual override operation is non-detenting only	26
4	Cover cap, covered	After fitting the cover cap, manual override is blocked	26
5	Cover cap, manual override detenting	After fitting the cover cap, manual override is detenting and can be operated without tools	26
6	Inscription label holder	Can be pushed onto manual override	26
7	Sub-base	For solenoid valve VMPA14	26
8	Fittings, silencers or blanking plugs	G1/8 for working ports (2, 4) and air/exhaust ports (1, 3, 5)	26
9	Fittings and/or silencers	M5 for pilot air supply/pilot exhaust air (12/14, 82/84) and pressure compensation	26
10	Electrical port M8	4-pin	-



• Using individual part numbers

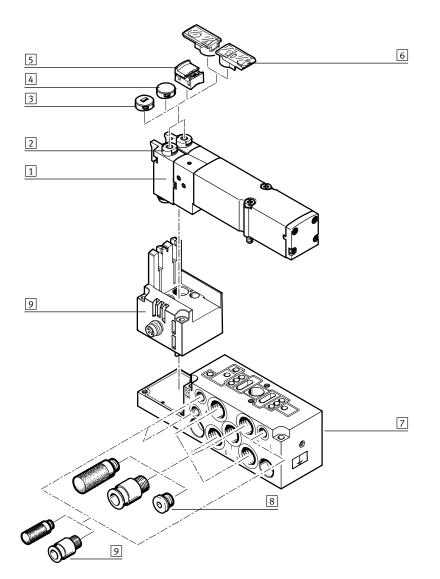
Peripherals overview

#### Individual sub-base for solenoid valve width 20 mm

Ordering:

Individual sub-bases of the type VMPA2-IC-... can be equipped with any 20 mm solenoid valve VMPA2.

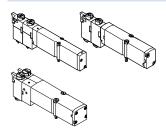
The electrical connection is established using a standardised 4-pin M8 plug (EN 60947-5-2).



Designation		Brief description	→ Page/Internet
1	Solenoid valve	VMPA2	24
2	Manual override (MO)	Non-detenting/turning with detent, per solenoid coil	-
3	Cover cap, coded	After fitting the cover cap, manual override operation is non-detenting only	26
4	Cover cap, covered	After fitting the cover cap, manual override is blocked	26
5	Cover cap, manual override detenting	After fitting the cover cap, manual override is detenting and can be operated without tools	26
6	Inscription label holder	Can be pushed onto manual override	26
7	Sub-base	For solenoid valve VMPA2	26
8	Fittings, silencers or blanking plugs	G1/8 for working ports (2, 4) and air/exhaust ports (1, 3, 5)	26
9	Fittings and/or silencers	M5 for pilot air supply/pilot exhaust air (12/14, 82/84) and pressure compensation	26
10	Electrical port M8	4-pin	-

Key features – Pneumatic components

#### Sub-base valve



The VMPA offers a comprehensive range of valve functions. All valves are equipped with a patented sealing system that facilitates efficient sealing, a broad pressure range and long service life. They have a pneumatic pilot control for optimising performance. Air is supplied by means of pilot air supply. Solenoid valves can be quickly replaced since the tubing connectors remain on the sub-base. This design is also particularly slim. Irrespective of the valve function there are solenoid valves with one solenoid coil (single solenoid) or with two solenoid coils (double solenoid or two single solenoid valves in one housing).

## Design

Valve replacement

The valves are attached to the metal manifold block using two screws, which means that they can be easily replaced. The mechanical sturdiness of the sub-base guarantees good long-term sealing.

## Valve code

The valve code (M, MS, MU, J, N, NS, NU, K, KS, KU, H, HS, HU, B, G, E, X, W,

D, DS, I) is located on the front of the valve beneath the manual override.

5/2-way valve							
Туре	Circuit symbol	Width	Description				
		[mm]					
М	14 4 2	10,	Single solenoid				
		14,	<ul> <li>Pneumatic spring return</li> </ul>				
		20	Reverse operation				
	14 5 1 3		• Operating pressure –0.9 +10 bar				
MS	14 4 2	10,	Single solenoid				
		14,	Mechanical spring return				
		20	Reverse operation				
	14 5 1 3		<ul> <li>Operating pressure –0.9 +8 bar</li> </ul>				
MU	14 4 2	10	Single solenoid				
			Polymer poppet valve				
			Mechanical spring return				
	14 5 1 3		Reverse operation				
			<ul> <li>Operating pressure –0.9 +10 bar</li> </ul>				
J	14 4 2 12	10,	Double solenoid				
		14,	Reverse operation				
		20	• Operating pressure –0.9 +10 bar				

Key features – Pneumatic components

2x 3/2-way v	alve		
Туре	Circuit symbol	Width	Description
		[mm]	
Ν		10,	• Single solenoid
		14,	Normally open
		20	Pneumatic spring return
			• Operating pressure 3 10 bar
	12/14 1 5 82/84 3		
NS	4 2	10,	Single solenoid
		14,	Normally open
		20	Mechanical spring return
			Reverse operation
	12/14 82/84 1 5 3		<ul> <li>Operating pressure –0.9 +8 bar</li> </ul>
NU	4 2	10	Single solenoid
			Polymer poppet valve
			Normally open
			Mechanical spring return
	12/14 82/84 1 5 3		Reverse operation
			• Operating pressure –0.9 +10 bar
К	<b>4</b>   <b>2</b>	10,	Single solenoid
		14,	Normally closed
		20	Pneumatic spring return
			Operating pressure 3 10 bar
	12/14 1 5 82/84 3		
1/C		10	. Circle colonaid
KS		10,	Single solenoid     Normally slosed
		14,	Normally closed     Machanical spring roturn
		20	<ul><li>Mechanical spring return</li><li>Reverse operation</li></ul>
	12/14 82/84 1 5 3		<ul> <li>Reverse operation</li> <li>Operating pressure -0.9 +8 bar</li> </ul>
KU		10	Single solenoid
NU		10	Single solenoid     Polymer poppet valve
			Normally closed
			Mornally closed     Mechanical spring return
			Reverse operation
	••• •••• ••• •• ••		<ul> <li>Operating pressure –0.9 +10 bar</li> </ul>
Н	4 2	10,	Single solenoid
		14,	Normal position
		20	- 1x closed
			– 1x open
			Pneumatic spring return
	12/14 1 5 82/84 3		• Operating pressure 3 10 bar
HS	4  2	10,	Single solenoid
		14,	Normal position
		20	– 1x closed
			– 1x open
	12/14 82/84 1 5 3		Mechanical spring return
			Reverse operation
			• Operating pressure –0.9 +8 bar
HU	4  2	10	Single solenoid
			Polymer poppet valve
			Normal position
			– 1x closed
	12/14 82/84 1 5 3		– 1x open
	· · · · · · · · · · · · · · · · · · ·		Mechanical spring return
			Reverse operation
			• Operating pressure –0.9 +10 bar

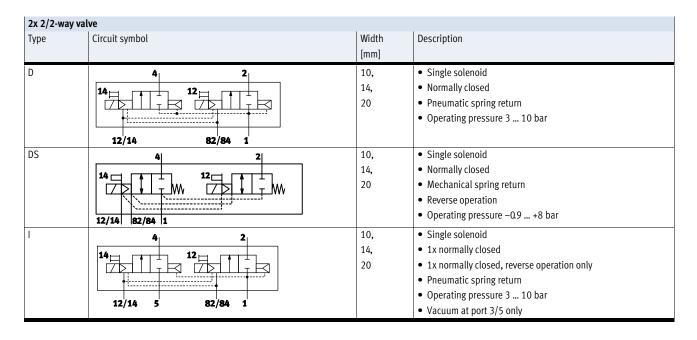
Key features – Pneumatic components

5/3-way val	ve		
Туре	Circuit symbol	Width	Description
		[mm]	
В	14 M 4 2 M 12	10,	<ul> <li>Mid-position pressurised<sup>1)</sup></li> </ul>
		14,	Mechanical spring return
		20	Reverse operation
	14 84 5 1 3 82 12		<ul> <li>Operating pressure –0.9 +10 bar</li> </ul>
G	14 M 4 2 M 12	10,	Mid-position closed <sup>1)</sup>
		14,	<ul> <li>Mechanical spring return</li> </ul>
		20	Reverse operation
	14 84 5 1 3 82 12		• Operating pressure -0.9 +10 bar
E	14 M 4 2 M 12	10,	Mid-position exhausted <sup>1)</sup>
		14,	Mechanical spring return
		20	Reverse operation
	14 84 5 1 3 82 12		• Operating pressure –0.9 +10 bar

If neither solenoid coil is energised, the valve moves to its mid-position by means of spring force. If both coils are energised at the same time, the valve remains in the previously assumed switching position.

3/2-way v	valve		
Туре	Circuit symbol	Width	Description
		[mm]	
W	20 4	10,	Single solenoid
		14,	Normally open
	╵└╱└ݤ╷┟╾╲╽┥┰┢╤┙	20	<ul> <li>External compressed air supply</li> </ul>
	14 84 2 5		Pneumatic spring return
			Reverse operation
			• Operating pressure –0.9 +10 bar
			Compressed air (-0.9 +10 bar) supplied at working port 2 can
			be switched with both internal and external pilot air supply.
Х	42 <sup>2</sup>	10,	Single solenoid
		14,	Normally closed
	│ ℤℤ <u>┡</u> ╖ <mark>↓</mark> ╶╢ <u></u> ┱ <b>ϡ</b> ⋿⊴	20	• External compressed air supply
	12 82 4 3		Pneumatic spring return
			Reverse operation
			• Operating pressure –0.9 +10 bar
			Compressed air (-0.9 +10 bar) supplied at working port 4 can
			be switched with both internal and external pilot air supply.

Key features – Pneumatic components



- Note

A filter must be installed upstream of valves operated in vacuum mode. This prevents any foreign matter in the intake air getting into the valve (e.g. when operating a suction cup).

#### Pilot air supply

The pneumatic connection is located on the individual sub-base. The ports differ for the following types of pilot air supply:

- internal pilot air and
- external pilot air.

#### Internal pilot air supply

Internal pilot air supply can be selected if the required working pressure is between 3 and 8 bar. The pilot air in the sub-base is branched from the compressed air supply 1 using an internal connection. Port 12/14 is sealed with a blanking plug at the factory.

#### External pilot air supply

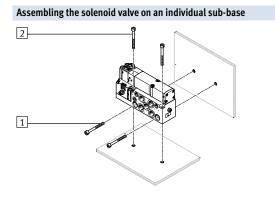
If the supply pressure is less than 3 bar or greater than 8 bar, you must operate your valve VMPA using external pilot air. The pilot air is supplied via port 12/14 of the sub-base in this case.

#### - Note

If a slow pressure rise by means of a soft-start valve is required in the system, external pilot air should be selected whereby the pilot pressure applied during switch-on is already very high.

Key features – Assembly and operation





 Horizontal mounting holes
 Vertical mounting holes The individual sub-base for wall mounting is designed for integration into a system or machine. It can be mounted horizontally or vertically.

#### **Display and operation**

Each valve solenoid coil is allocated an LED which indicates its operating status.

- Indicator 12 shows the switching status of the coil for output 2
- Indicator 14 shows the switching status of the coil for output 4

LED display

#### Manual override

The manual override (MO) enables the valve to be actuated when not electrically activated or energised. The pilot valve is switched by pushing the manual override. The set switching status can also be locked by turning

 $\mathcal{O}_{\mathcal{O}}$ 

#### the manual override. Alternatives:

Manual override

- A cover (VMPA-HBT-B) can be fitted over the manual override to prevent it from being locked. The manual override can then only be activated by pushing it.
- A cover (VMPA-HBV-B) can be fitted over the manual override to prevent it from being accidentally actuated.
- The cover cap (VAMC-L1-CD) can be used to operate the manual override in detenting mode without additional tools.

## - Note

A manually actuated valve (manual override) cannot be reset electrically. Conversely, an electrically actuated valve cannot be reset using the mechanical manual override.

MO with automatic return (non-detenting)

Key features – Assembly and operation

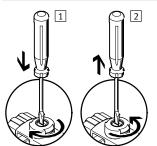
#### Manual override (MO)

# 

## 1 Press in the stem of the MO with a pin or screwdriver.

- Pilot valve switches and actuates the main valve.
- 2 Remove the pin or screwdriver. Spring force pushes the stem of the MO back.
  - Pilot valve returns to its initial position and so too the single solenoid main valve (not with double solenoid valve code J).

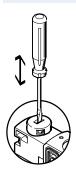
## MO with locking (detenting)



## 1 Press in the stem of the MO with a pin or screwdriver until the valve switches and then turn the stem clockwise by 90° until the stop is reached.

- Valve remains switched.
- Turn the stem anti-clockwise by 90° until the stop is reached and then remove the pin or screwdriver. Spring force pushes the stem of the MO back.
   The valve returns to its initial position (not with double solenoid valve code J).

#### MO with automatic return (non-detenting)



MO is operated by pressing it with a pointed object or screwdriver and reset by spring force (detenting position prevented due to coded cover cap).

#### MO with locking turning – assembly



Turn MO to clip it onto the pilot valve. The MO cap can then be operated (detenting) without tools.

#### MO with locking turning - actuation



Sliding the cap for the MO in the direction of the arrow causes the following to happen:

- Cap locks into the stop position.
- Pilot valve switches and actuates the main valve.

#### MO with locking turning – actuation

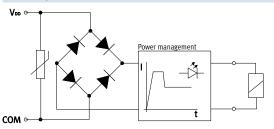


Sliding the cap for the MO in the direction of the arrow causes the following to happen:

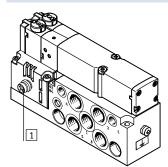
- Cap locks into the stop position.
- Spring force pushes the stem of the MO back.
- Pilot valve returns to its initial position and so too the single solenoid main valve (not with double solenoid valve code J).

Key features - Electrical components

#### Electrical power as a result of current reduction



#### **Electrical connection**



## Each solenoid coil MPA is protected with a spark arresting protective circuit as well as against polarity reversal.

All valve types are additionally equipped with integrated current reduction.

Valves MPA are supplied with operating voltage in the range 18 ... 30 V (24 V +/-25%). This high tolerance is made possible through integrated control electronics and offers additional security, e.g. if the operating voltage drops.

1 Electrical connection, plug 4-pin, M8, to EN 60947-5-2 Tightening torque for M8 plug: 0.25 ... 0.5 Nm (manual torque)

#### Pin allocation to ISO 20401

Fill allocation to 150 20401			
	Pin	With positive logic	With positive logic
1	1	Unused	Unused
(++) <b>2</b>	2	U <sub>B</sub> for coil 12	0 V for coil 12
++ <b>4</b>	3	0 V for coil 12 and 14	U <sub>B</sub> for coil 12 and 14
3	4	U <sub>B</sub> for coil 14	0 V for coil 14

## Instructions for use

#### Equipment

Operate system equipment with unlubricated compressed air if possible. Festo valves and cylinders are designed so that, if used as designated, they will not require additional lubrication and will still achieve a long service life. The quality of compressed air downstream of the compressor must correspond to that of unlubricated compressed air. If possible, do not operate all of your system equipment with lubricated compressed air. The lubricators should, where possible, always be installed directly upstream of the actuator used.

Unsuitable additional oil and too high an oil content in the compressed air reduce the service life of the valve terminal.

Use Festo special oil OFSW-32 or the alternatives listed in the Festo catalogue (as specified in DIN 51524 HLP32; basic oil viscosity 32 CST at 40 °C).

### Bio-oils

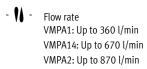
When using bio-oils (oils which are based on synthetic or native ester, e.g. rapeseed oil methyl ester), the maximum residual oil content of  $0.1 \text{ mg/m}^3$  must not be exceeded (see ISO 8573-1 Class 2).

### Mineral oils

When using mineral oils (e.g. HLP oils to DIN 51524, parts 1 to 3) or similar oils based on poly-alpha-olefins (PAO), the maximum residual oil content of 5 mg/m<sup>3</sup> must not be exceeded (see ISO 8573-1 Class 4). A higher residual oil content irrespective of the compressor oil cannot be permitted, as the basic lubricant would be flushed out over time.

Technical data - solenoid valve mounting on sub-base

FESTO



- **L** - Voltage 24 V DC

- Valve width VMPA1: 10 mm VMPA14: 14 mm VMPA2: 20 mm

. . . . .



General technical data								
Width		10 mm	14 mm	20 mm				
Lubrication		Life-time lubrication, PV	VIS-free (free of paint-wetting impairment	substances)				
Type of mounting		Via through-hole						
Mounting position		Any	Any					
Manual override		Non-detenting, detentin	g					
Valve weight	[g]	→ Page 15						
Sub-base weight	[g]	92	184	233				
Pneumatic connections								
Pneumatic connection		Via sub-base						

Technical data – solenoid valve

Technical data – Va	lve width 10 m	ım																	
Code			М	J		Ν	k	(	Н	В		G	E	X		W	D	1	
Switching times	On	[ms]	10	1	0	10	1	0	10	1	0	10	10	10	0	10	10	8	3
0.	Off	[ms]	20	-	-	20		20	20	3		35	35	20		20	20		20
	Changeover	[ms]	-	1	5	-	-		-	1		15	15	-		-	-	-	-
Operating pressure		[bar]	-0.9	. +10		3	10			-	0.9 +	10					3	10	
Pilot pressure		[bar]	3 8			1													
Standard nominal flo	ow rate	[l/min]	360	3	60	300	2	230	300	3	00	320	240	2	55	255	230	2	260
Design			Pistor	spool	valve	1	I												
Max. tightening torq	ue of valve	[Nm]	0.25																
mounting																			
Materials			Die-ca	st alur	ninium														
Product weight		[g]	49	5	6	56	5	6	56	5	6	56	56	49	9	49	56	-	-
Technical data – Va	lve width 10 n	ım																	
Code			MS		NS		KS		HS		DS		MU	NU	J	KU		HU	
Switching times	On	[ms]	10		14		14		14		14		10	8		8		8	
	Off	[ms]	27		16		16		16		16		12	8		10		10	
	Changeover	[ms]	-		-		-		-		-		-	-		-		-	
Operating pressure		[bar]	-0.9	. +8									-0.9 +	10					
Pilot pressure		[bar]	38											-					
Standard nominal flo	ow rate	[l/min]	360		300		230		300		230		190	19	0	160	)	190	
Design		., .		spool			-				-		Poppet v						
Max. tightening torq	ue of valve	[Nm]	0.25													0			
mounting																			
Materials			Die-ca	st alur	ninium								PPA reinf	orced					
Product weight		[g]	56		56		56		56		56		35	42		42		42	
Technical data – Val Code			Μ	J	N	К	H	В	G	E	Х	W	D		MS	NS	KS	HS	DS
Switching times	On	[ms]	13	9	12	12	12	16	13	13	12	12		9	13	12	12	12	10
	Off	[ms]	30	-	38	38	38	50	52	50	20	20		25	30	23	23	23	25
	Changeover		-	24	-	-	-	26	26	26	-	-	-	-	-	-	-	-	-
Operating pressure		[bar]	-0.9	. +10											-0.9 .	+8			
Pilot pressure		[bar]	38	(70	(50	(00	(50	(20	(4.0	1.00			0 (50	570	(70	520	5(0	520	570
Standard nominal flo	ow rate	[l/min]	670	670	650	600	650	630	610	480	0 400	40	650	570	670	520	560	520	570
Design Max. tightening torqu	ue of valve	[Nm]	0.65	spool	valve														
mounting		[Rin]	0.05																
Materials			Die-ca	st alur	ninium														
Product weight		[g]	77	Stata	innunn														
		101																	
Technical data – Va	vo width 20 m	ım																	
Code	we with 20 f		М	J	N	К	Н	В	G	E	X	W	D		MS	NS	KS	HS	DS
	0 m	[ma =1												-			-	-	-
Switching times	On Off	[ms]	15	9	8	8	8	11	10	11	13	13		7	8	12	12	12	12
	Off	[ms]	28	-	28	28	28	46	40	47	22	22		23	36	25	25	25	25
<u> </u>	Changeover		-	22	-		-	23	21	23	-	-	-	-	-	-	-	-	-
Operating pressure		[bar]	-0.9	. +10	3 1	U		-0.9	+10				3 1	10	-0.9 .	+8			
Pilot pressure	w rato	[bar]	38	700	E ( 0	500	5/0	5.20	(20	(1)			0 (00	600	700	5/0	500	E ( 0	600
Standard nominal flo Design	ow rate	[l/min]	700 Pistor	700 spool	560 valve	500	560	520	630	610	590	50	680	680	700	560	500	560	680
Max. tightening torqu	ue of valve	[Nm]	0.65																
mounting																			
Materials			Die-ca	st alur	ninium														
Product weight		[g]	100											-	100				
		-01	1											1					

Technical data – solenoid valve

## Current consumption per solenoid coil at nominal voltage

Width		10 mm	14 mm	20 mm
Nominal pick-up current	[mA]	50	50	110
Nominal current with current	[mA]	10	10	23
reduction				
Time until current reduction	[ms]	20	20	20

## **Electrical data**

Nominal voltage	[V DC]	24
Operating voltage range	[V DC]	18 30
Residual ripple	[Vss]	4
Protection class to EN 60529		IP65 (for all types of signal transmission in assembled state)

Operating and environmental condition	Operating and environmental conditions					
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (required during subsequent operation)					
Ambient temperature [°C]	-5 +50					
Temperature of medium [°C]	-5 +50					
Storage temperature [°C]	-20 +40					
Relative air humidity	Max. 90% at 40 °C					
Corrosion resistance class CRC <sup>1)</sup>	1					
CE marking	To EU EMC Directive <sup>2)</sup>					
(see declaration of conformity)						
Certification	cULus recognized (OL)					

1) Corrosion resistance class 1 according to Festo standard 940 070

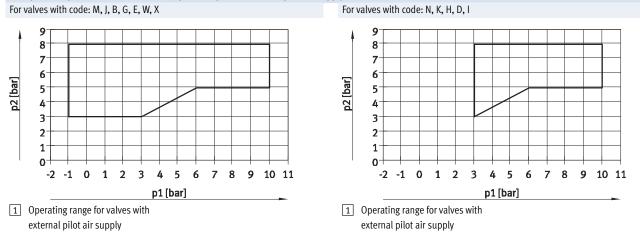
Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers. For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp  $\rightarrow$  User documentation. If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

2)

Materials	
Sub-base	Die-cast aluminium
Seals	Nitrile rubber
Note on materials	RoHS-compliant

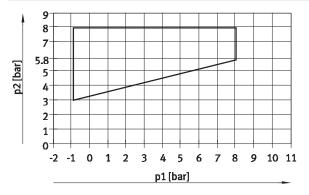
Technical data – solenoid valve

#### Pilot pressure p2 as a function of working pressure p1 with external pilot air supply

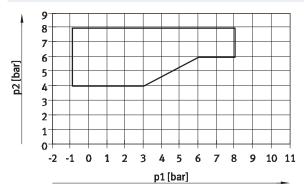


## Pilot pressure p2 as a function of working pressure p1 for valves with mechanical spring return

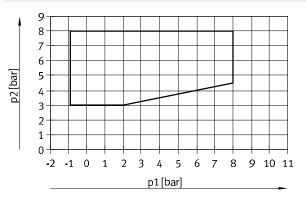
For valves in width 10 mm with code: MS, NS, KS, HS, DS



For valves in width 14 mm with code: NS, KS, HS, DS



For valves in width 20 mm with code: MS, NS, KS, HS, DS



For polymer poppet valve in width 10 mm with code: MU, NU, KU, HU



Technical data – sub-base

- 11 -Flow rate VMPA1: Up to 360 l/min VMPA14: Up to 670 l/min VMPA2: Up to 870 l/min

- 4 Voltage 24 V DC

- **[]** - Valve width VMPA1: 10 mm VMPA14: 14 mm VMPA2: 20 mm

. . . . .



General technical data				
Width		10 mm	14 mm	20 mm
Electrical connection		Plug, M8x1, 4-p	in, to EN 60947-5-2	
Type of mounting		Via through-hol	e	
Mounting position		Any		
Pneumatic connections				
Supply port	1	M7	G1/8	G1/8
	1			
Exhaust port	3	M7	G1/8	G1/8
	5	M7	G1/8	G1/8
Working ports	2	M7	G1/8	G1/8
	4	M7	G1/8	G1/8
Pilot air port	12/14	M5	M5	M5
	82/84	M5	M5	M5

Operating and environmenta	l conditions				
Туре			VMPA1	VMPAEX1E	
Operating medium			Compressed air to ISO 8573-1	:2010 [7:4:4]	
Note on operating/pilot media	um		Lubricated operation possible	(in which case lubricated operation will always	
			be required)		
Operating pressure	Internal pilot air supply	[bar]	38		
	External pilot air supply	[bar]	-0.9 10		
Pilot pressure		[bar]	38		
Ambient temperature		[°C]	-5 +50		
CE marking (see declaration of conformity)		To EU EMC Directive <sup>1)</sup>	To EU EMC Directive <sup>1)</sup>		
			-	To EU Explosion Protection Directive	
				(ATEX)	

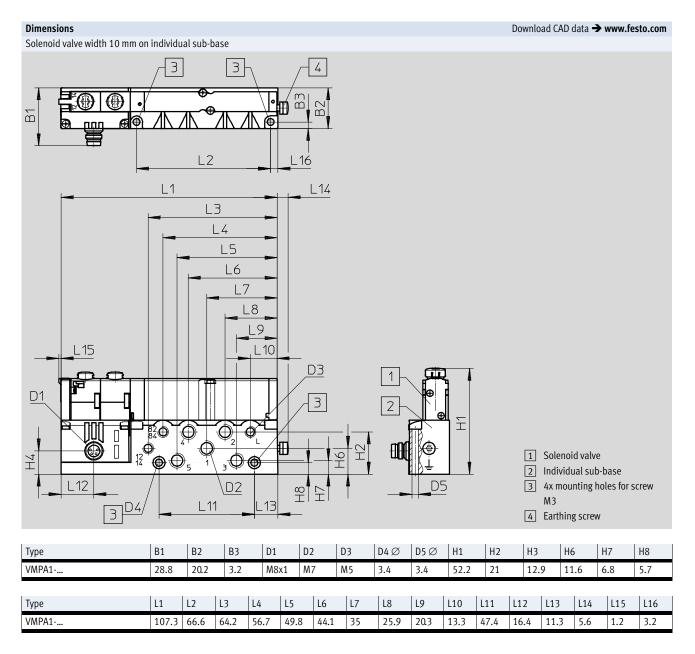
1) For information about the applicability of the component see the manufacturer's EC declaration of conformity at: www.festo.com/sp 🗲 User documentation. If the component is subject to restrictions on usage in residential, office or commercial environments or small businesses, further measures to reduce the emitted interference may be necessary.

ATEX <sup>1)</sup>			
Туре		VMPAEX1E	
ATEX category gas		II 3G	- 🗍 - Note
Explosion ignition protection type for gas		Ex nA IIC T4 X Gc	≣ Note
Explosion-proof temperature	[°C]	-5 ≤ Ta ≤ +50	Also applies to the sub-base for individual
CE marking (see declaration of conformity)		To EU Explosion Protec- tion Directive (ATEX)	connection type VMPAEX1E with retrofitted valve (see declaration of conformity).

1) For special ATEX applications please speak to your technical consultant

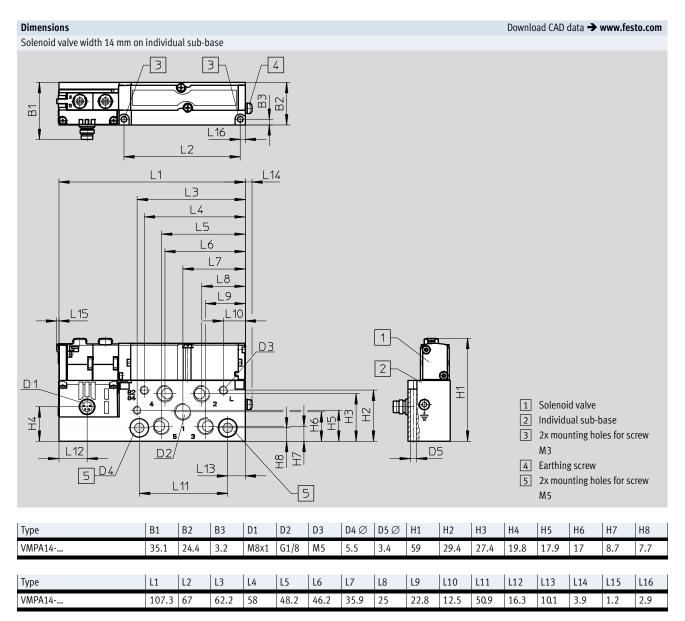
Materials	
Sub-base	Die-cast aluminium
Note on materials	RoHS-compliant

Technical data

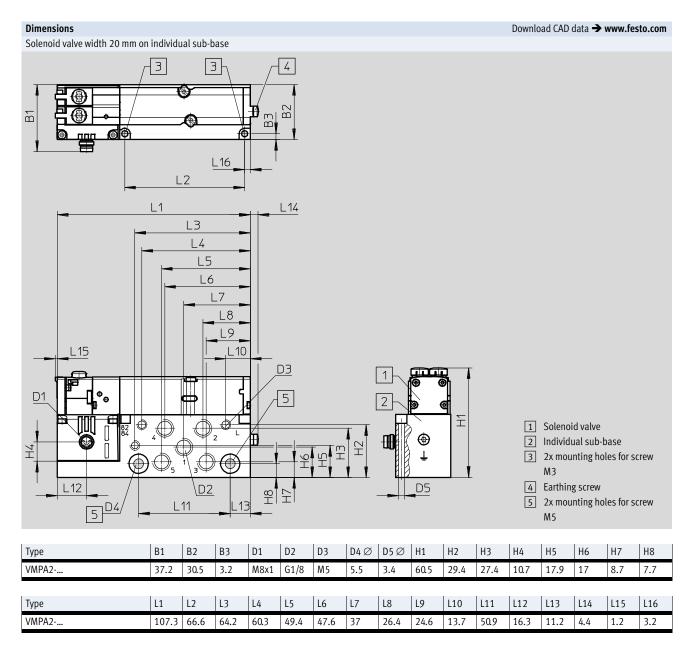


Technical data





Technical data



Ordering data

1

Ordering data				
	Valve function	Width	Part No.	Туре
		[mm]		
Internal pilot air su	pply – Solenoid valve on individual sub-base			
r te se	5/2-way valve			
	Single solenoid	10	533376	VMPA1-M1H-M-M7-PI
		14	8023543	VMPA14-M1H-M-PI
		20	537963	VMPA2-M1H-M-G1/8-PI
	Single solenoid, mechanical spring return	14	8023554	VMPA14-M1H-MS-G1/8-PI
	Double solenoid	10	533377	VMPA1-M1H-J-M7-PI
		14	8023542	VMPA14-M1H-J-G1/8-PI
		20	537964	VMPA2-M1H-J-G1/8-PI
	2x 3/2-way valve			
	Normally open	10	533382	VMPA1-M1H-N-M7-PI
		14	8023550	VMPA14-M1H-N-G1/8-PI
		20	537969	VMPA2-M1H-N-G1/8-PI
-0000	Normally open, mechanical spring return	14	8023556	VMPA14-M1H-NS-G1/8-PI
	Normally closed	10	533381	VMPA1-M1H-K-M7-PI
Ý		14	8023549	VMPA14-M1H-K-G1/8-PI
		20	537968	VMPA2-M1H-K-G1/8-PI
	Normally closed, mechanical spring return	14	8023555	VMPA14-M1H-KS-G1/8-PI
	1x normally open,	10	533383	VMPA1-M1H-H-M7-PI
	1x normally closed	14	8023551	VMPA14-M1H-H-G1/8-PI
		20	537970	VMPA2-M1H-H-G1/8-PI
	1x normally open, 1x normally closed, mechanical spring return	14	8023558	VMPA14-M1H-HS-G1/8-PI
	5/3-way valve			
	Mid-position pressurised	10	533378	VMPA1-M1H-B-M7-PI
		14	8023544	VMPA14-M1H-B-G1/8-PI
		20	537965	VMPA2-M1H-B-G1/8-PI
	Mid-position closed	10	533379	VMPA1-M1H-G-M7-PI
		14	8023546	VMPA14-M1H-G-G1/8-PI
		20	537966	VMPA2-M1H-G-G1/8-PI
	Mid-position exhausted	10	533380	VMPA1-M1H-E-M7-PI
		14	8023545	VMPA14-M1H-E-G1/8-PI
		20	537967	VMPA2-M1H-E-G1/8-PI
	2x 2/2-way valve			
	Normally closed	10	533384	VMPA1-M1H-D-M7-PI
		14	8023552	VMPA14-M1H-D-G1/8-PI
		20	537971	VMPA2-M1H-D-G1/8-PI
	Normally closed, mechanical spring return	14	8023557	VMPA14-M1H-DS-G1/8-PI
	1x normally closed	10	545230	VMPA1-M1H-I-M7-PI
	1x normally closed, reverse operation	14	8023553	VMPA14-M1H-I-G1/8-PI
		20	545232	VMPA2-M1H-I-G1/8-PI

# Solenoid valves VMPA Ordering data

Ordering data				
	Valve function	Width	Part No.	Туре
		[mm]		
xternal pilot air su	pply – Solenoid valve on individual sub-base			
<b>1</b> 0	5/2-way valve			
	Single solenoid	10	533385	VMPA1-M1H-M-S-M7-PI
		14	8023560	VMPA14-M1H-M-S-G1/8-PI
		20	537972	VMPA2-M1H-M-S-G1/8-PI
	Single solenoid, mechanical spring return	14	8023571	VMPA14-M1H-MS-S-G1/8-PI
	Double solenoid	10	533386	VMPA1-M1H-J-S-M7-PI
		14	8023559	VMPA14-M1H-J-S-G1/8-PI
		20	537973	VMPA2-M1H-J-S-G1/8-PI
	2x 3/2-way valve	1		
	Normally open	10	533391	VMPA1-M1H-N-S-M7-PI
		14	8023567	VMPA14-M1H-N-S-G1/8-PI
		20	537978	VMPA2-M1H-N-S-G1/8-PI
	Normally open, mechanical spring return	14	8023573	VMPA14-M1H-NS-S-G1/8-PI
	Normally closed	10	533390	VMPA1-M1H-K-S-M7-PI
$\checkmark$		14	8023566	VMPA14-M1H-K-S-G1/8-PI
		20	537977	VMPA2-M1H-K-S-G1/8-PI
	Normally closed, mechanical spring return	14	8023572	VMPA14-M1H-KS-S-G1/8-PI
	1x normally open,	10	533392	VMPA1-M1H-H-S-M7-PI
	1x normally closed	14	8023568	VMPA14-M1H-H-S-G1/8-PI
		20	537979	VMPA2-M1H-H-S-G1/8-PI
	1x normally open, 1x normally closed, mechanical spring return	14	8023575	VMPA14-M1H-HS-S-G1/8-PI
	5/3-way valve			· · ·
	Mid-position pressurised	10	533387	VMPA1-M1H-B-S-M7-PI
	· F · · · · F · · · · · ·	14	8023561	VMPA14-M1H-B-S-G1/8-PI
		20	537974	VMPA2-M1H-B-S-G1/8-PI
	Mid-position closed	10	533388	VMPA1-M1H-G-S-M7-PI
		14	8023563	VMPA14-M1H-G-S-G1/8-PI
		20	537975	VMPA2-M1H-G-S-G1/8-PI
	Mid-position exhausted	10	533389	VMPA1-M1H-E-S-M7-PI
		14	8023562	VMPA14-M1H-E-S-G1/8-PI
		20	537976	VMPA2-M1H-E-S-G1/8-PI
	2x 2/2-way valve	1		
	Normally closed	10	533393	VMPA1-M1H-D-S-M7-PI
		14	8023569	VMPA14-M1H-D-S-G1/8-PI
		20	537980	VMPA2-M1H-D-S-G1/8-PI
	Normally closed, mechanical spring return	14	8023574	VMPA14-M1H-DS-S-G1/8-PI
	1x normally closed	14	545231	VMPA1-M1H-I-S-M7-PI
	1x normally closed, reverse operation	10	8023570	VMPA14-M1H-I-S-G1/8-PI
		20	545233	VMPA14-M11-1-S-G1/8-PI
		20	545255	VWFA2-WITH-I-3-U1/0-FI



Ordering data

Ordering data				
	Valve function	Width [mm]	Part No.	Туре
dividual solenoi	d valve, piston spool valve			
8.	5/2-way valve			
	Single solenoid	10	533342	VMPA1-M1H-M-PI
	5	14	573718	VMPA14-M1H-M-PI
		20	537952	VMPA2-M1H-M-PI
$\checkmark$	Single solenoid, mechanical spring return	10	571334	VMPA1-M1H-MS-PI
		14	573974	VMPA14-M1H-MS-PI
		20	571333	VMPA2-M1H-MS-PI
	Double solenoid	10	533343	VMPA1-M1H-J-PI
	<i>b</i>	14	573717	VMPA14-M1H-J-PI
		20	537953	VMPA2-M1H-J-PI
	2x 3/2-way valve			•
	Normally open	10	533348	VMPA1-M1H-N-PI
		14	573725	VMPA14-M1H-N-PI
		20	537958	VMPA2-M1H-N-PI
	Normally open, mechanical spring return	10	556839	VMPA1-M1H-NS-PI
	······································	14	575977	VMPA14-M1H-NS-PI
		20	568655	VMPA2-M1H-NS-PI
	Normally closed	10	533347	VMPA1-M1H-K-PI
		14	573724	VMPA14-M1H-K-PI
		20	537957	VMPA2-M1H-K-PI
	Normally closed,	10	556838	VMPA1-M1H-KS-PI
	mechanical spring return	14	575976	VMPA14-M1H-KS-PI
		20	568656	VMPA2-M1H-KS-PI
	1x normally open,	10	533349	VMPA1-M1H-H-PI
	1x normally closed	14	573726	VMPA14-M1H-H-PI
		20	537959	VMPA2-M1H-H-PI
	1x normally open,	10	556840	VMPA1-M1H-HS-PI
	1x normally closed,	14	575979	VMPA14-M1H-HS-PI
	mechanical spring return	20	568658	VMPA2-M1H-HS-PI
	5/3-way valve			
	Mid-position pressurised	10	533344	VMPA1-M1H-B-PI
		14	573719	VMPA14-M1H-B-PI
		20	537954	VMPA2-M1H-B-PI
	Mid-position closed	10	533345	VMPA1-M1H-G-PI
		10	573721	VMPA14-M1H-G-PI
		20	537955	VMPA2-M1H-G-PI
	Mid-position exhausted	10	533346	VMPA1-M1H-E-PI
		10	573720	VMPA14-M1H-E-PI
		20	537956	VMPA14-M1H-E-PI
		20	0066/00	VWFA2-WITH-E-FI

# Solenoid valves VMPA Ordering data

Ordering data				
	Valve function	Width [mm]	Part No.	Туре
Individual solenoid	/alve, piston spool valve			
800	3/2-way valve			
	Normally open,	10	540050	VMPA1-M1H-W-PI
	external compressed air supply	14	573723	VMPA14-M1H-W-PI
		20	540051	VMPA2-M1H-W-PI
$\sim$	Normally closed,	10	534415	VMPA1-M1H-X-PI
	external compressed air supply	14	573722	VMPA14-M1H-X-PI
		20	537961	VMPA2-M1H-X-PI
	2x 2/2-way valve	4		
	Normally closed	10	533350	VMPA1-M1H-D-PI
		14	573727	VMPA14-M1H-D-PI
		20	537960	VMPA2-M1H-D-PI
	Normally closed,	10	556841	VMPA1-M1H-DS-PI
-	mechanical spring return	14	575978	VMPA14-M1H-DS-PI
		20	568657	VMPA2-M1H-DS-PI
	1x normally closed	10	543605	VMPA1-M1H-I-PI
	1x normally closed, reverse operation only	14	573728	VMPA14-M1H-I-PI
		20	543703	VMPA2-M1H-I-PI
		4		
Individual solenoid v	valve, polymer poppet valve			
	5/2-way valve			
	Single solenoid, mechanical spring return	10	553113	VMPA1-M1H-MU-PI
A A A	2x 3/2-way valve			
	normally open, mechanical spring return	10	553111	VMPA1-M1H-NU-PI
	Normally closed, mechanical spring return	10	553110	VMPA1-M1H-KU-PI
	1x normally open, 1x normally closed, mechanical spring return	10	553112	VMPA1-M1H-HU-PI

## Solenoid valves VMPA Ordering data

Imm         Main and the manual override detenting (10)         Main and (2AP-5)           Sub-base for individual valve         Internal pilot air         10         533394         VMPA1-IC-AP-1           Sub-base for individual valve         Internal pilot air         10         533395         VMPA1-IC-AP-1           Sub-base for individual valve         External pilot air         10         533395         VMPA1-IC-AP-5-1           With ATEX specification → 18         Internal pilot air         10         8005150         VMPA1-IC-AP-1-EXTE           Valve         External pilot air         10         8005150         VMPA1-IC-AP-1-EXTE         20           Bootsiss         VMPA1-IC-AP-5-1 EXTE         20         8005150         VMPA1-IC-AP-5-1 EXTE         20           Bootsiss         VMPA1-IC-AP-5-1 EXTE         20         8005150         VMPA1-IC-AP-5-1 EXTE         20           Bootsiss         VMPA1-IC-AP-5-1 EXTE         20         8005152         VMPA1-IC-AP-5-1 EXTE         20           Bootsiss         Cover cap for manual override with coded cover cap, manual override non detenting (n10)         540897         VMPA-HBT-B           Cover cap for manual override with coded cover cap, manual override non detenting (n10)         540898         VMPA-HBT-B           Cover cap for manual override with coded cover cap, manual	Ordering data					
Sub-base for individual valve         Internal plot ali         Internal plot ali         Internal plot ali           10         \$33394         VMPA1-CAP-1           20         \$537981         VMPA1-CAP-1           20         \$537982         VMPA1-CAP-1           20         \$537982         VMPA1-CAP-1           20         \$8095151         VMPA1-CAP-1-EXTE           21         10         8005150         VMPA1-CAP-1-EXTE           20         8005151         VMPA1-CAP-5-1-EXTE         14           20         8005152         VMPA1-CAP-5-1-EXTE         20           20         8005152         VMPA1-CAP-5-1-EXTE         20           20         Cover cap for manual override with coded cover cap, manual override blocked (pt 0)         540897         VMPA-HBT-B           20         Cover cap for manual override with coded cover cap, manual override blocked (pt 0)         540897         VMPA-HBT-B           20         Cover cap for manual override with coded cover for the switching status         570818         ASLR-D-1	Designation			Width	Part No.	Туре
Without ATEX specification         Internal pilot air         10         533394         WithATCA-P1           14         B023666         WINP14-ICAP1         20         337984         WithATCAP1           20         S33995         WithATCAP1         20         S33995         WithATCAP1           20         S33995         WINP14-ICAP1         20         S33995         WINP14-ICAP1           20         S33995         WINP14-ICAP1         20         S33997         WINP14-ICAP1           20         S33995         WINP14-ICAP1-EXIE         20         S33997         WINP14-ICAP1-EXIE           20         S30568         WINP14-ICAP1-EXIE         20         S005151         WINP2-ICAP1-EXIE           20         B005150         WINP2-ICAP1-EXIE         20         B005150         WINP2-ICAP1-EXIE           20         Cover cap for manual override, manual override blocked (x10)         S40897         WINP				[mm]		
Image: Signature         10         8023666         WIPA14CAP-1           20         537981         WIPA14CAP-1           20         537982         WIPA14CAP-1           10         602366         WIPA14CAP-1           11         802366         WIPA14CAP-1           12         602367         WIPA14CAP-151           14         802366         WIPA14CAP-151E           14         8023668         WIPA14CAP-5151E           10         8005152         WIPA14CAP-5151E           10         8005152         WIPA14CAP-5151E           10         8005152         WIPA14CAP-5151E           10         8002234         VIPA44CAP-5151E           10         8002234         VIPA44CAP-5151E           10         Stopptonanaual override with coded cover cap, manual override bl	Sub-base for individu			-		
Image: state in the second state is a state state is a state is	Ń	Without ATEX specification	Internal pilot air	-	533394	
Image: Signation         External pilot air         10         533395         VMPA14CAP-5-1           14         B023667         VMPA14CAP-5-1         14         B023667         VMPA14CAP-5-1           10         8005149         VMPA14CAP-5-1         10         8005149         VMPA14CAP-5-1           14         B023668         VMPA14CAP-15K1E         10         8005150         VMPA14CAP-15K1E           14         B023668         VMPA14CAP-15K1E         10         8005150         VMPA14CAP-5-15K1E           14         B023669         VMPA14CAP-5-15K1E         10         8005150         VMPA14CAP-5-15K1E           20         8005150         VMPA14CAP-5-15K1E         10         8002369         VMPA14CAP-5-15K1E           20         8005150         VMPA14CAP-5-15K1E         10         8002369         VMPA14CAP-5-15K1E           20         8005150         VMPA14CAP-5-15K1E         10         800234         VMPA14CAP-51           20         8005150         VMPA14CAP-51         10         8005234         VMPA14CAP-51           20         Cover cap for manual override with coded cover cap, manual override non deterring (x10)         540897         VMPA-HBV-8           20         Cover cap for manual override, manual override blocked (x10)					8023666	
Image: space of the second				20		VMPA2-IC-AP-1
Internal pilot air         20         537982         VMPA2-4C-AP-S-1           With ATEX specification → 18         Internal pilot air         10         8005151         VMPA1-CAP-1-EXLE           10         8005151         VMPA1-CAP-1-EXLE         10         8005151         VMPA1-CAP-1-EXLE           20         8005151         VMPA1-CAP-5-1-EXLE         10         8005152         VMPA1-CAP-5-1-EXLE           20         8005152         VMPA1-CAP-5-1-EXLE         10         8005152         VMPA1-CAP-5-1-EXLE           20         8005152         VMPA1-CAP-5-1-EXLE         10         8005152         VMPA1-CAP-5-1-EXLE           20         6005152         VMPA1-CAP-5-1-EXLE         10         8005152         VMPA1-CAP-5-1-EXLE           20         6005152         VMPA1-CAP-5-1-EXLE         10         8005152         VMPA1-CAP-5-1-EXLE           20         60005150         VMPA1-CAP-5-1-EXLE         10         8005155         VMPA1-CAP-5-1-EXLE           20         60000510         VMPA1-CAP-5-1-EXLE         10         8002234         VAMP-187-8           20         Cover cap for manual override with coded cover cap, manual override blocked (x10)         500898         VMPA1-HBV-8           20         Cover cap for manual override, manual override blocked (x10)<			External pilot air			
With ATEX specification → 18         Internal pilot air         10         8005149         VMPA1-IC-AP-1-EXTE           14         8023668         VMPA1-IC-AP-1-EXTE         20         8005150         VMPA1-IC-AP-1-EXTE           10         8005150         VMPA1-IC-AP-1-EXTE         20         8005150         VMPA1-IC-AP-1-EXTE           11         10         8005150         VMPA1-IC-AP-5-T-EXTE         20         8005152         VMPA1-IC-AP-5-T-EXTE           12         0         8005150         VMPA1-IC-AP-5-T-EXTE         20         8005152         VMPA1-IC-AP-5-T-EXTE           20         8005152         VMPA2-IC-AP-5-T-EXTE         20         8005152         VMPA2-IC-AP-5-T-EXTE           20         Cover cap for manual override with coded cover cap, manual override non-detenting (x10)         540897         VMPA-HBT-8           20         Cover cap for manual override with coded cover cap, manual override blocked (x10)         540897         VMPA-HBT-8           20         Cover cap for manual override detenting, can be operated manually         8002234         VAMC-L1-CD           20         Inscription label holder for an inscription label and cover for the switching status         570818         ASLR-9-L1           20         Inscription label holder for an inscription label and cover for the switching status         5708182 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
Image: space in the system for connecting cables         Image: space in the system for connecting cables         Image: space in the system for connecting cables           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         158960         SiM-M6-40-2,5-PU           Image: space in the system for connecting cables         0.5 m         5 m         5 m         5 m           Image: space in the system for connecting cables         -         Im         Image: space in the system for conn						
Image: space of the second space of the second space of the second space of the space		With ATEX specification $\rightarrow 18$	Internal pilot air			
External plot air         10         8005150         VMPA1-IC-AP-S-1-EXTE           14         8023669         VMPA1-IC-AP-S-1-EXTE         14         8023669         VMPA1-IC-AP-S-1-EXTE           20         8005152         VMPA2-IC-AP-S-1-EXTE         14         8023669         VMPA2-IC-AP-S-1-EXTE           20         8005152         VMPA2-IC-AP-S-1-EXTE         14         8023669         VMPA2-IC-AP-S-1-EXTE           20         Cover cap for manual override with coded cover cap, manual override non-detenting (x10)         540897         VMPA-HBT-8           20         Cover cap for manual override, covered, manual override blocked (x10)         540898         VMPA-HBT-8           20         Cover cap for manual override, covered, manual override blocked (x10)         540898         VMPA-HBT-8           20         Cover cap for manual override, locked (x10)         540898         VMPA-HBT-8           20         Cover cap for manual override (blocked (x10)         570818         ASLR-0-L1           20         Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked (x10)         570818         ASLR-0-L1           20         Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked (x10)         570818         ASLR-0-L1						
Interface         Interface         Interface         Interface           Image: Standard			External nilet air			
Image: Constraint of the sector of			External pilot an			
Drdering data         Part No.         Type           Designation         Part No.         Type           Sore         Cover cap for manual override with coded cover cap, manual override non-detenting (x10)         540897         VMPA-HBT-B           Sole         Cover cap for manual override, covered, manual override blocked (x10)         540897         VMPA-HBT-B           Sole         Cover cap for manual override, manual override blocked (x10)         540897         VMPA-HBT-B           Sole         Cover cap for manual override, manual override blocked (x10)         540897         VMPA-HBT-B           Sole         Cover cap for manual override, manual override blocked (x10)         540897         VMPA-HBT-B           Sole         Inscription label holder for an inscription label and cover for the switching status         8002234         VAMC-L1-CD           Sole         Inscription label holder for an inscription label and cover for the switching status         570818         ASLR-D-L1           Sole         Straight socket, M8x1, 4-pin         5m         158960         SIM-M8-4GD-2,5-PU           Some end, 4-wire         2.5 m         158963         SIM-M8-4WD-5-FU         5m           Sole         Open end, 4-wire         2.5 m         541342         NEBU-M864-K-5-LE4           Open end, 4-wire         5m         541344	CO E					
Designation       Part No.       Type         Cover cap for manual override with coded cover cap, manual override non-detenting (x10)       \$40897       VMPA-HBT-B         Cover cap for manual override, covered, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override detenting, can be operated manually without accessories (x10)       \$002234       VAMC-L1-CD         Without accessories (x10)       Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)       \$70818       ASLR-D-L1         Connecting cable, ind/Widual connection       •       \$158961       \$IM-M8-4GD-2,5-PU         Sinalget socket, M8x1, 4-pin       0.5 m       \$158962       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$158963       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$158961       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$14342       NEBU-M8G4-K-2,5-LE4         • Open end, 4-wire       2.5 m       \$41343       NEBU-M8G4-K-5-LE4         • Open end, 4-wire       5 m       \$41344       N	$\checkmark$			20	8005152	VMPA2-IC-AP-3-1-EATE
Designation       Part No.       Type         Cover cap for manual override with coded cover cap, manual override non-detenting (x10)       \$40897       VMPA-HBT-B         Cover cap for manual override, covered, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override, manual override blocked (x10)       \$40898       VMPA-HBT-B         Cover cap for manual override detenting, can be operated manually without accessories (x10)       \$002234       VAMC-L1-CD         Without accessories (x10)       Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)       \$70818       ASLR-D-L1         Connecting cable, ind/Widual connection       •       \$158961       \$IM-M8-4GD-2,5-PU         Sinalget socket, M8x1, 4-pin       0.5 m       \$158962       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$158963       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$158961       \$IM-M8-4GD-2,5-PU         • Open end, 4-wire       2.5 m       \$14342       NEBU-M8G4-K-2,5-LE4         • Open end, 4-wire       2.5 m       \$41343       NEBU-M8G4-K-5-LE4         • Open end, 4-wire       5 m       \$41344       N	Ordering data					
Cover cap for manual override with coded cover cap, manual override non-detenting (x10)         540897         VMPA-HBT-B           Cover cap for manual override, covered, manual override blocked (x10)         540898         VMPA-HBT-B           Cover cap for manual override, manual override detenting, can be operated manually without accessories (x10)         8002234         VAMC-L1-CD           Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)         570818         ASLR-D-L1           Connecting cable, individual connection          570818         ASLR-D-L1           VMPA-HBT-B          5.5         SIM-M8-4GD-2,5-PU           Open end, 4-wire           5.5         SIM-M8-4GD-2,5-PU           V          9.0         Sim-M8-4GD-2,5-PU             V           9.0         Sim-M8-4GD-2,5-PU             V            Sim-M8-4MD-5-FU              V             Sim-M8-4MD-5-FU             V               Sim-M8-4MD-5-FU					Part No	Туре
Cover cap for manual override with coded cover cap, manual override non-detenting (x10)         540897         VMPA-HBT-B           Cover cap for manual override, covered, manual override blocked (x10)         540898         VMPA-HBV-B           Cover cap for manual override, manual override blocked (x10)         540898         VMPA-HBV-B           Cover cap for manual override, manual override detenting, can be operated manually without accessories (x10)         8002234         VAMC-L1-CD           Without accessories (x10)         Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)         570818         ASLR-D-L1           Connecting cable, individual connection         5.570818         ASLR-D-L1         570818         ASLR-D-L1           Connecting cable, individual connection         5.570818         ASLR-D-L1         570818         SIM-M8-46D-2,5-PU           Connecting tocket, M8x1, 4-pin         0.5 m         158960         SIM-M8-46D-2,5-PU         5           Connecting tocket, M8x1, 4-pin         2.5 m         158963         SIM-M8-440D-2,5-PU         5           Copen end, 4-wire         2.5 m         541342         NEBU-M864-K-2,5-LE4         5         5         5         5         5           Copen end, 4-wire         2.5 m         541343         NEBU-M864-K-2,5-LE4         5					run no.	.,pc
Image: Signal and the second process of the second proces of the second proces of the second proces of the second process		Cover cap for manual override with coded cover cap, m	nanual override non-de	tenting (x10)	540897	VMPA-HBT-B
Cover cap for manual override, covered, manual override blocked (x10)         540898         VMPA-HBV-B           Cover cap for manual override, manual override detenting, can be operated manually without accessories (x10)         8002234         VAMC-L1-CD           Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)         570818         ASLR-D-L1           Connecting cable, individual connection         570818         ASLR-D-L1           Connecting cable, individual connection         2.5 m         158960         SIM-M8-4GD-2,5-PU           Open end, 4-wire         2.5 m         158960         SIM-M8-4GD-2,5-PU           Open end, 4-wire         2.5 m         158963         SIM-M8-4GD-2,5-PU           Open end, 4-wire         2.5 m         158963         SIM-M8-4GD-2,5-PU           Open end, 4-wire         2.5 m         541342         NEBU-M864-K-2.5-FU           Open end, 4-wire         2.5 m         541342         NEBU-M864-K-2.5-FU           Open end, 4-wire         2.5 m         541343         NEBU-M864-K-2.5-FE4           Open end, 4-wire         5 m         541344         NEBU-M804-K-2.5-FE4           Open end, 4-wire         5 m         541344         NEBU-M804-K-2.5-FE4           Open end, 4-wire         5 m         541345	)  }			0.		
Without accessories (x10)       570818       ASLR-D-L1         Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)       570818       ASLR-D-L1         Connecting cable, individual connection       2.5 m       158960       SIM-M8-4GD-2,5-PU         Summer individual connection       5 m       158961       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158962       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158962       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158963       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158963       SIM-M8-4WD-2,5-PU         Summer indication       2.5 m       541342       NEBU-M864-K-2.5-LE4         Summer indication       2.5 m       541343       NEBU-M864-K-2.5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       3 mm       153313       QSM-M5-3-1         Summer indication       3 mm       153313       QSM-M5-4-1         Sum indi	$\bigcirc$	Cover cap for manual override, covered, manual overri	de blocked (x10)		540898	VMPA-HBV-B
Without accessories (x10)       570818       ASLR-D-L1         Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)       570818       ASLR-D-L1         Connecting cable, individual connection       2.5 m       158960       SIM-M8-4GD-2,5-PU         Summer individual connection       5 m       158961       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158962       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158962       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158963       SIM-M8-4GD-2,5-PU         Summer indication       2.5 m       158963       SIM-M8-4WD-2,5-PU         Summer indication       2.5 m       541342       NEBU-M864-K-2.5-LE4         Summer indication       2.5 m       541343       NEBU-M864-K-2.5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       2.5 m       541344       NEBU-M884-K-5-LE4         Summer indication       3 mm       153313       QSM-M5-3-1         Summer indication       3 mm       153313       QSM-M5-4-1         Sum indi						
Inscription label holder for an inscription label and cover for the switching status indication and the manual override (blocked) (x10)       570818       ASLR-D-L1         Connecting cable, individual connection       -	Ca.		ting, can be operated r	nanually	8002234	VAMC-L1-CD
Indication and the manual override (blocked) (x10)         Connecting cable, individual connection         Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Straight solution         • Open end, 4-wire         • Open end, 4-wire         • Straight solution         • Open end, 4-wire         • Open end, 4-wire         • Open end, 4-wire         • Straight solution		without accessories (x10)				
Indication and the manual override (blocked) (x10)         Connecting cable, individual connection         Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Straight socket, M8x1, 4-pin         • Open end, 4-wire         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Angled socket, M8x1, 4-pin         • Open end, 4-wire         • Straight solution         • Open end, 4-wire         • Open end, 4-wire         • Straight solution         • Open end, 4-wire         • Open end, 4-wire         • Open end, 4-wire         • Straight solution		Inscription label holder for an inscription label and co	ver for the switching st	atus	570818	ASLR-D-L1
• Straight socket, M8x1, 4-pin         2.5 m         158960         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         5 m         158961         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         2.5 m         158962         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         5 m         158963         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         2.5 m         158963         SIM-M8-4WD-2,5-PU           • Straight socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541342         NEBU-M864-K-2.5-LE4           • Angled socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541343         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-5-LE4           • Open end,			0			
• Straight socket, M8x1, 4-pin         2.5 m         158960         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         5 m         158961         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         2.5 m         158962         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         5 m         158963         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         2.5 m         158963         SIM-M8-4WD-2,5-PU           • Straight socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541342         NEBU-M864-K-2.5-LE4           • Angled socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541343         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-5-LE4           • Open end,	3					
• Straight socket, M8x1, 4-pin         2.5 m         158960         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         5 m         158961         SIM-M8-4GD-2,5-PU           • Open end, 4-wire         2.5 m         158962         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         5 m         158963         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         2.5 m         158963         SIM-M8-4WD-2,5-PU           • Straight socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541342         NEBU-M864-K-2.5-LE4           • Angled socket, M8x1, 4-pin         0pen end, 4-wire         2.5 m         541343         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M864-K-5-LE4           • Open end, 4-wire         2.5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-5-LE4           • Open end,	Connecting cable, ind	ividual connection				
Sm         158961         SIM-M8-4GD-5-PU           • Angled socket, M8x1, 4-pin         2.5 m         158962         SIM-M8-4WD-2,5-PU           • Open end, 4-wire         5 m         158963         SIM-M8-4WD-5-PU           • Straight socket, M8x1, 4-pin         5 m         541342         NEBU-M864-K-2.5-LE4           • Open end, 4-wire         5 m         541343         NEBU-M864-K-2.5-LE4           • Angled socket, M8x1, 4-pin         2.5 m         541344         NEBU-M864-K-2.5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M864-K-2.5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M864-K-2.5-LE4           • Open end, 4-wire         2.5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         -         5 m         541345         NEBU-M8W4-K-5-LE4           • Open end, 4-wire         -         -         > Internet: nebu           • Open end, 4-wire         -         -         > Internet: nebu           • Open end, 4-wire         -         -         > Internet: nebu           • Open end, 4-wire         -         -         > Internet: nebu           • Open end, 4-wire         -         -         > Internet: nebu           • Open	<u> </u>			2.5 m	158960	SIM-M8-4GD-2,5-PU
Angled socket, M8x1, 4-pin         2.5 m         158962         SIM-M8-4WD-2,5-PU           5 m         158963         SIM-M8-4WD-2,5-PU         5 m         158963         SIM-M8-4WD-2,5-PU           6         9pen end, 4-wire         2.5 m         541342         NEBU-M864-K-2,5-LE4           6         0pen end, 4-wire         2.5 m         541343         NEBU-M864-K-2,5-LE4           7         9pen end, 4-wire         2.5 m         541344         NEBU-M864-K-2,5-LE4           6         0pen end, 4-wire         2.5 m         541344         NEBU-M884-K-5-LE4           6         0pen end, 4-wire         2.5 m         541345         NEBU-M884-K-5-LE4           7         Nodular system for connecting cables         -         -         -           9         Internet: nebu         -         -         -           9         Internet: nebu         -         -         -           9         Internet: nebu         -		• Open end, 4-wire		۲.m.	1500(1	
• Open end, 4-wire         5 m         158963         SIM-M8-4WD-5-PU           • Straight socket, M8x1, 4-pin         2.5 m         541342         NEBU-M8G4-K-2.5-LE4           • Open end, 4-wire         5 m         541343         NEBU-M8G4-K-5-LE4           • Angled socket, M8x1, 4-pin         2.5 m         541343         NEBU-M8G4-K-5-LE4           • Open end, 4-wire         2.5 m         541344         NEBU-M8W4-K-5.LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-5.LE4           • Open end, 4-wire         -         > Internet: nebu         -           • Dush-in fitting				5 111	128901	SIM-M8-4GD-5-PU
Sm         158963         SIM-M8-4WD-5-PU           • Straight socket, M8x1, 4-pin         2.5 m         541342         NEBU-M8G4-K-2.5-LE4           • Open end, 4-wire         5 m         541343         NEBU-M8G4-K-5-LE4           • Angled socket, M8x1, 4-pin         2.5 m         541344         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         2.5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         -         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         -         -         -         -         -         -           • Modular system for connecting cables         - <td< td=""><td><math>\sim</math></td><td></td><td></td><td>2.5 m</td><td>158962</td><td>SIM-M8-4WD-2,5-PU</td></td<>	$\sim$			2.5 m	158962	SIM-M8-4WD-2,5-PU
• Straight socket, M8x1, 4-pin         2.5 m         541342         NEBU-M8G4-K-2.5-LE4           • Open end, 4-wire         5 m         541343         NEBU-M8G4-K-2.5-LE4           • Angled socket, M8x1, 4-pin         5 m         541344         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         2.5 m         541343         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-5-LE4           • Modular system for connecting cables         -         -         > Internet: nebu           • Modular system for connecting cables         -         -         > Internet: nebu           • Dush-in fitting         -         -         > Internet: nebu           • Open end, 10 pieces)         Connecting thread M5 for tubing 0.D.         3 mm         153313         QSM-M5-3-I           • Open end, 0.5         -         -         -         -         -           • Open end, 4-wire         -         -         -         -         -           • Open end, 4-wire         -         -         -         -         -         -           • Open end, 4-wire         -         -         -         -	Calle	Open end, 4-wire		5 m	158963	SIM-M8-4WD-5-PU
• Open end, 4-wire         5 m         541343         NEBU-M864-K-5-LE4           • Angled socket, M8x1, 4-pin         2.5 m         541344         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Open end, 4-wire         5 m         541345         NEBU-M8W4-K-2.5-LE4           • Modular system for connecting cables         -         → Internet: nebu           • Modular system for connecting cables         -         → Internet: nebu           • Outprime fitting         -         -         → Internet: nebu           • Outprime fitting         -         -         → Internet: nebu           • Outprime fitting         -         -         -           • Outprime fitting         <						
S m         S m <td></td> <td></td> <td></td> <td>2.5 m</td> <td>541342</td> <td>NEBU-M8G4-K-2.5-LE4</td>				2.5 m	541342	NEBU-M8G4-K-2.5-LE4
• Open end, 4-wire       5 m       541345       NEBU-M8W4-K-5-LE4         Modular system for connecting cables       -       → Internet: nebu         Push-in fitting       -       → Internet: nebu         Connecting thread M5 for tubing 0.D. (10 pieces)       3 mm       153313       QSM-M5-3-I         I on pieces)       -       -       -       -         Connecting thread M7 for tubing 0.D. (10 pieces)       3 mm       153315       QSM-M5-4-I         G mm       153317       QSM-M5-6-I       -         Connecting thread M7 for tubing 0.D. (10 pieces)       4 mm       153319       QSM-M7-6-I         Connecting thread G1/8 for tubing 0.D.       6 mm       153321       QSM-M7-6-I         Connecting thread G1/8 for tubing 0.D.       6 mm       186107       QS-G1/8-6-I	The second second	• Upen end, 4-wire		5 m	541343	NEBU-M8G4-K-5-LE4
• Open end, 4-wire       5 m       541345       NEBU-M8W4-K-5-LE4         Modular system for connecting cables       -       → Internet: nebu         Push-in fitting       -       → Internet: nebu         Connecting thread M5 for tubing 0.D. (10 pieces)       3 mm       153313       QSM-M5-3-I         I on pieces)       -       -       -       -         Connecting thread M7 for tubing 0.D. (10 pieces)       3 mm       153315       QSM-M5-4-I         G mm       153317       QSM-M5-6-I       -         Connecting thread M7 for tubing 0.D. (10 pieces)       4 mm       153319       QSM-M7-6-I         Connecting thread G1/8 for tubing 0.D.       6 mm       153321       QSM-M7-6-I         Connecting thread G1/8 for tubing 0.D.       6 mm       186107       QS-G1/8-6-I	•	<ul> <li>Angled socket, M8x1, 4-pin</li> </ul>		2.5 m	541344	NEBU-M8W4-K-2.5-LE4
Sm       541345       NEBU-M8W4-K-5-LE4         Modular system for connecting cables       -       > Internet: nebu         Push-in fitting       -       > Internet: nebu         Output       -       > Internet: nebu         Push-in fitting       -       > Internet: nebu         Output       -       -         Output		- ,				
Sub-in fitting         3 mm         153313         QSM-M5-3-I           (10 pieces)         4 mm         153315         QSM-M5-4-I           Connecting thread M7 for tubing 0.D.         6 mm         153317         QSM-M5-6-I           (10 pieces)         6 mm         153319         QSM-M7-6-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           (10 pieces)         6 mm         153321         QSM-M7-6-I	Cont.			5 m	541345	NEBU-M8W4-K-5-LE4
Connecting thread M5 for tubing O.D.         3 mm         153313         QSM-M5-3-I           (10 pieces)         4 mm         153315         QSM-M5-4-I           6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I	-	Modular system for connecting cables		1	-	→ Internet: nebu
Connecting thread M5 for tubing O.D.         3 mm         153313         QSM-M5-3-I           (10 pieces)         4 mm         153315         QSM-M5-4-I           6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I	and a set					
Connecting thread M5 for tubing O.D.         3 mm         153313         QSM-M5-3-I           (10 pieces)         4 mm         153315         QSM-M5-4-I           6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I						
Connecting thread M5 for tubing O.D.         3 mm         153313         QSM-M5-3-I           (10 pieces)         4 mm         153315         QSM-M5-4-I           6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I		·			·	
(10 pieces)         4 mm         153315         QSM-M5-6-I           6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing 0.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing 0.D.         6 mm         186107         QS-G1/8-6-I	Push-in fitting			-		
6 mm         153317         QSM-M5-6-I           Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I						
Connecting thread M7 for tubing O.D.         4 mm         153319         QSM-M7-4-I           (10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing O.D.         6 mm         186107         QS-G1/8-6-I	6 M	(10 pieces)				
(10 pieces)         6 mm         153321         QSM-M7-6-I           Connecting thread G1/8 for tubing 0.D.         6 mm         186107         QS-G1/8-6-I		Connecting thread M7 for tubing O D				
Connecting thread G1/8 for tubing O.D. 6 mm <b>186107 QS-G1/8-6-I</b>						
		· · ·				

Accessories

.

Ordering data				
Designation			Part No.	Туре
Silencer				
	Connecting thread	M5	165003	UC-M5
		M7	161418	UC-M7
Charles and the		G1/8	161419	UC-1/8
	Push-in sleeve connection	3 mm	165005	UC-QS-3H
		4 mm	165006	UC-QS-4H
		6 mm	165007	UC-QS-6H
		8 mm	175611	UC-QS-8H
Blanking plug				
	Thread M7 (10 pieces)		174309	B-M7
0)	Thread G1/8		3568	B-1/8
	(10 pieces)			
	1			
Plug				
$\sim$	Blanking plug for tubing O.D.	4 mm	153267	QSC-4H
	(10 pieces)	6 mm	153268	QSC-6H
		8 mm	153269	QSC-8H

## **Festo North America**





**1** Festo Canada Headquarters Festo Inc. 5300 Explorer Drive Mississauga, ON L4W 5G4 **2 Montréal** 5600, Trans-Canada Pointe-Claire, QC H9R 1B6

### 3 Québec City

2930, rue Watt#117 Québec, QC G1X 4G3



## Festo Regional Contact Center

#### **Canadian Customers**

Commercial Support: Tel: 1 877 GO FESTO (1 877 463 3786) Fax: 1 877 FX FESTO (1 877 393 3786) Email: festo.canada@ca.festo.com

#### **USA** Customers

Commercial Support: Tel:1 800 99 FESTO (1 800 993 3786) Fax:1 800 96 FESTO (1 800 963 3786) Email: customer.service@us.festo.com

Subject to change

4 Festo United States Headquarters Festo Corporation 395 Moreland Road Hauppauge, NY 11788 5 Appleton North 922 Tower View Drive, Suite N Greenville, WI 54942

6 Chicago 85 W Algonquin - Suite 340 Arlington Heights, IL 60005 7 Detroit 1441 West Long Lake Road Troy, MI 48098

**8** Silicon Valley 4935 Southfront Road, Suite F Livermore, CA 94550

Technical Support: Tel:1 866 GO FESTO (1 866 463 3786) Fax:1 877 FX FESTO(1 877 393 3786) Email: technical.support@ca.festo.com

Technical Support: Tel:1 866 GO FESTO (1 866 463 3786) Fax:1800 96 FESTO(1 800 963 3786) Email: product.support@us.festo.com

Internet: www.festo.com/us