Product range overview

Function	Electrical connection		Voltage	Manual override	→ Page/Internet	
Pilot valve	Plug					
to	Square plug, type C,	-	12 V DC	Non-detenting	2	
ISO 15218	to EN 175301-803			Non-detenting/detenting	2	
			24 V DC	Non-detenting	2	
				Non-detenting/detenting	2	
			24 V AC	Non-detenting	2	
				Non-detenting/detenting	2	
		With protective earth conductor	110 V AC	Non-detenting	4	
				Non-detenting/detenting	4	
			230 V AC	Non-detenting	4	
				Non-detenting/detenting	4	
	Round plug M12,	-	24 V DC	Non-detenting	6	
	to IEC 61076-2-101			Non-detenting/detenting	6	
	Square plug, type A,	-	24 V DC/42 V AC	Non-detenting	8	
	to EN 175301-803		24 V DC/48 V AC	Non-detenting	8	
			110 V AC	Non-detenting	8	
			230 V AC	Non-detenting	8	

Technical data – Valve with square plug, type C

Piloted standard valve with square plug VSCS-B-M32-MD-WA-1C1 VSCS-B-M32-MH-WA-1C1 VSCS-B-M32-...-1AC1 VSCS-B-M32-...-5C1

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
- Electrical connection: to EN 175301-803, type C



General technical data

General technical data		
Electrical connection		Square plug, type C (without protective earth conductor), to EN 175301-803
Valve function		3/2-way valve, closed, single solenoid
Sealing principle		Soft
Actuation type		Electric
Reset method		Mechanical spring
Type of control		Direct
Direction of flow		Non-reversible
Non-overlapping		No
Width	[mm]	15
Mounting position		Any
Mounting		On basic valve body or sub-base via screws (2x M3)
Standard nominal flow rate	[l/min]	18
Duty cycle	[%]	100
Operating pressure	[bar]	010
Protection class to EN 60529		IP65 (in combination with plug socket)
Conforms to standard		ISO 15218

Coil characteristics

	VSCS5C1	VSCS1C1	VSCS1AC1	
[V AC]	-	-	24	
[V DC]	12	24	-	
[Hz]	-	-	50/60	
[W]	1.8	1.8	-	
[VA]	-	-	3.1	
[VA]	-	-	2.3	
[ms]	6/6	6/6	6/6	
Perm. voltage fluctuations [%]		-15/+10	-15/+10	
	[V DC] [Hz] [W] [VA] [VA] [VA] [ms]	[V AC] - [V DC] 12 [Hz] - [W] 1.8 [VA] - [VA] - [VA] - [W] 6/6	[V AC] - - [V DC] 12 24 [Hz] - - [W] 1.8 1.8 [VA] - - [ms] 6/6 6/6	

Materials Seals NBR Note on materials RoHS-compliant

Safety data				
Operating voltage		12 V DC	24 V DC	24 V AC
Note on forced checking procedure		Switching frequency min. 1/week		
Max. positive test pulse	[µs]	-	2100	-
with 0 signal				
Max. negative test pulse	[µs]	-	800	-
with 1 signal				
Resistance to shocks		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27		
Vibration resistance		Transport application test with severit	y level 2 to FN 942017-4 and EN 6006	8-2-6

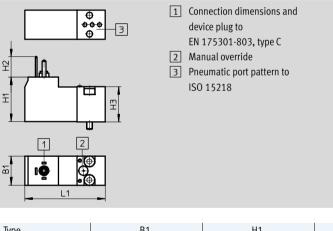
Technical data – Valve with square plug, type C

Operating and environmental con	Operating and environmental conditions					
Туре		VSCS5C1	VSCS1C1	VSCS1AC1		
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]		-10 +50				
Temperature of medium [°C]		-10 +50				
Corrosion resistance class CRC ¹⁾		2				
Certification		-	c UL us - Recognized (OL)	-		

Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Valve functions	
Circuit symbol	Description
	 3/2-way valve, single solenoid Normally closed Mechanical spring return

Dimensions



Туре	B1	H1	H2	H3	L1
VSCSC1	15.2	23.2	10.5	18.2	41.9

Ordering data					
Pilot valve to ISO 15218		Operating voltage	Manual override	Part No.	Туре
e	Square plug, type C,	12 V DC	Non-detenting	546257	VSCS-B-M32-MH-WA-5C1
()	to EN 175301-803		Non-detenting/detenting	571062	VSCS-B-M32-MD-WA-5C1
		24 V DC	Non-detenting	546256	VSCS-B-M32-MH-WA-1C1
			Non-detenting/detenting	571061	VSCS-B-M32-MD-WA-1C1
		24 V AC	Non-detenting	546258	VSCS-B-M32-MH-WA-1AC1
			Non-detenting/detenting	571063	VSCS-B-M32-MD-WA-1AC1

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Technical data – Valve with square plug, type C

Piloted standard valve with square plug VSCS-B-M32-...-2AC1 VSCS-B-M32-...-3AC1

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
- Electrical connection: to EN 175301-803, type C
- With protective earth conductor



General technical data

General technical data		
Electrical connection		Square plug, type C (with protective earth conductor), to EN 175301-803
Valve function		3/2-way valve, closed, single solenoid
Sealing principle		Soft
Actuation type		Electric
Reset method		Mechanical spring
Type of control		Direct
Direction of flow		Non-reversible
Non-overlapping		No
Width	[mm]	15
Mounting position		Any
Mounting		On basic valve body or sub-base via screws (2x M3)
Standard nominal flow rate	[l/min]	18
Duty cycle	[%]	100
Operating pressure	[bar]	010
Protection class to EN 60529		IP65 (in combination with plug socket)
Conforms to standard		ISO 15218

Coil characteristics

contenuracteristics			
Туре		MH 2AC1	MH 3AC1
		MD 2AC1	MD 3AC1
Operating voltage	[V AC]	110	230
	[V DC]	-	-
	[Hz]	50/60	50/60
Power	[W]	-	-
Pick-up power	[VA]	2.9	2.9
Holding power	[VA]	2.1	2.1
Switching time on/off	[ms]	6/6	6/6
Perm. voltage fluctuations	[%]	-15/+10	-15/+10

Materials

Seals	NBR
Note on materials	RoHS-compliant

Safety data		
Note on forced checking procedure	Switching frequency min. 1/week	
Resistance to shocks	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	
Vibration resistance	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Technical data – Valve with square plug, type C

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]	-10 +50		
Temperature of medium	[°C]	-10 +50		
Corrosion resistance class CRC ¹⁾		2		
CE marking (see declaration of conformity) ²⁾		In accordance with EU Low Voltage Directive		

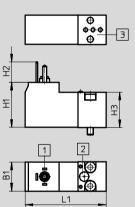
Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Additional information www.festo.com/sp → Certificates.

Valve functions

Circuit symbol	Description
	3/2-way valve, single solenoidNormally closedMechanical spring return

Dimensions



1 Connection dimensions and device plug to EN 175301-803, type C 2 Manual override 3 Pneumatic port pattern to ISO 15218

Туре	B1	H1	H2	H3	L1
VSCS-B-M32C1	15.2	23.2	10.5	18.2	41.9

Ordering data					
Pilot valve to ISO	Pilot valve to ISO 15218		Manual override	Part No.	Туре
	Square plug, type C,	110 V AC	Non-detenting	546259	VSCS-B-M32-MH-WA-2AC1
a l	to EN 175301-803, with protective earth conductor		Non-detenting/detenting	571064	VSCS-B-M32-MD-WA-2AC1
		230 V AC	Non-detenting	546260	VSCS-B-M32-MH-WA-3AC1
			Non-detenting/detenting	571065	VSCS-B-M32-MD-WA-3AC1

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Technical data – Valve with round plug, M12

Piloted standard valve with round plug VSCS-B-M32 ... R3

- Valve actuator for electrically actuating basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
 Electrical connection:
 - to IEC 61076-2-101/M12x1



General technical data

Electrical connection		Round plug, M12x1, to IEC 61076-2-101
Valve function		3/2-way valve, closed, single solenoid
Sealing principle		Soft
Actuation type		Electric
Reset method		Mechanical spring
Type of control		Direct
Direction of flow		Non-reversible
Non-overlapping		No
Width	[mm]	15
Mounting position		Any
Mounting		On basic valve body or sub-base via screws (2x M3)
Standard nominal flow rate	[l/min]	18
Duty cycle	[%]	100
Operating pressure	[bar]	010
Protection class to EN 60529		IP65 (in combination with plug socket)
Conforms to standard		ISO 15218

Coil characteristics

Operating voltage	[V DC]	24
Power	[W]	1.8
Switching time on/off	[ms]	6/6
Perm. voltage fluctuations	[%]	-15/+10

Materials

Seals	NBR
Note on materials	RoHS-compliant

Safety data			
Note on forced checking procedure	2	Switching frequency min. 1/week	
Max. positive test pulse	[µs]	2100	
with 0 signal			
Max. negative test pulse	[µs]	800	
with 1 signal			
Resistance to shocks		Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27	
Vibration resistance		Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6	

Technical data – Valve with round plug, M12

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]	-10 +50
Temperature of medium	[°C]	-10 +50
Corrosion resistance class CRC ¹⁾		2
Certification		c UL us - Recognized (OL)

Corrosion resistance class CRC 2 to Festo standard FN 940070
 Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

Pin allocation

M12x1, 2-pin	Pin	Description
(Y)	3	0 V
	4	UB

Valve functions	
Circuit symbol	Description
	3/2-way valve, single solenoidNormally closedMechanical spring return

Dimensions

H2

Ŧ

D1

0 0

Ш 2

ΕH

-3

1	Connection dimensions and

- device plug, M12 plug
- 2 Manual override
- 3 Pneumatic port pattern to ISO 15218

Туре	B1	D1	H1	H2	H3	L1
VSCSR3	15.2	M12	26.1	10.6	18.2	41.9

Ordering data					
Pilot valve to ISO	15218	Operating voltage	Manual override	Part No.	Туре
	Round plug M12, to IEC 61076-2-101	24 V DC	Non-detenting	573214	VSCS-B-M32-MH-WA-1R3
			Non-detenting/detenting	573215	VSCS-B-M32-MD-WA-1R3

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Technical data – Valve with square plug, type A

Pilot standard valve with square plug MDH-3/2 ...

- Valve actuator for electrical actuation of basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
 Electrical connection: to
- EN 175301-803, type A



General technical data

General technical data		
Electrical connection		Square plug, type A, to EN 175301-803
Valve function		3/2-way valve, single solenoid, closed
Sealing principle		Soft-sealing
Actuation type		Electric
Reset method		Mechanical spring
Design		Poppet valve
Type of control		Direct
Direction of flow		Non-reversible
Non-overlapping		No
Width	[mm]	30
Mounting position		Any
Mounting		Screwed to basic valve body or connecting plate
Manual override		Non-detenting
Standard nominal flow rate	[l/min]	50
Duty cycle	[%]	100
Operating pressure	[bar]	116
Protection class to EN 60529		IP65 (in combination with plug socket)
Conforms to standard		ISO 15218
Weight	[g]	140

Coil characteristics

con characteristics					
Туре		MDH-3/2-24VDC/42VAC	MDH-3/2-24DC	MDH-3/2-110VAC	MDH-3/2-230VAC
Operating voltage	[V AC]	42	48	110	230
	[V DC]	24	24	-	-
	[Hz]	50/60	50/60	50/60	50/60
Power	[W]	8.4	6	-	-
Pick-up power	[VA]	11.5	14.5	12	12
Holding power	[VA]	8.5	9.9	8	8
Switching time on/off	[ms]	11/9	11/9	11/9	11/9
Perm. voltage fluctuations	[%]	-10/+10	-10/+10	-10/+10	-10/+10
Perm. frequency fluctuations	[%]	-10/+10	-	-10/+10	-10/+10

Technical data – Valve with square plug, type A

Operating and environmental cond	itions					
Туре	MDH-3/2-24DC	MDH-3/2-110VAC				
	MDH-3/2-24VDC/42VAC	MDH-3/2-230VAC				
Operating medium	Compressed air according to ISO 8573-1:2010 [7:4:4]					
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)					
Ambient temperature [°C]	-10 +50	-15 +50				
Temperature of medium [°C]	-15 +80	-15 +80				
Corrosion resistance class CRC ¹⁾	2					
CE marking	-	To EU Low Voltage Directive				
(see declaration of conformity) ²⁾						

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Additional information www.festo.com/sp Certificates.

Materials	
Туре	MDH
Seals	FPM
Note on materials	RoHS-compliant

Valve functions	
Circuit symbol	Description
2	MDH-3/2
	3/2-way valve, single solenoid
	Normally closed
1 3	Mechanical spring return

Technical data – Valve with square plug, type A

Dimensions										Dow	nload CA	D data 🚽	www.fe	sto.com
	H H H H													
						de EN	onnection evice plug I 175301 anual ove	to -803, typ						
Туре	B1 +0.15 -0.5	B2 +0.15 -0.5	D1 +0.25 -0.2	D2	H1	H2 +0.2 -0.4	H3 +0.4 -0.1	H4	H5 ±0.2	L1 +1.0 -0.5	L2 +0.3	L3	L4	L5
MDH-3/2	30	21	3	M4	48.4	35.5	32	15.5	14.7	60.7	29.5	22	10	7.5

Pilot valve to ISO 15218 Operating voltage Manual override Part No. Type Square plug, type A, to EN 175301-803 24 V DC/42 V AC Non-detenting 119603 MDH-3/2-24VDC/42VAC 11 V AC Non-detenting 119601 MDH-3/2-110VAC	Ordering data						
Square plug, type A, to EN 175301-803 24 V DC/42 V AC Non-detenting 119603 MDH-3/2-24VDC/42VAC 110 V AC Non-detenting 119600 MDH-3/2-24DC	Pilot valve to IS	50 15218	Operating voltage	Manual override	Part No.	Туре	
to EN 175301-803 24 V DC/48 V AC Non-detenting 119600 MDH-3/2-24DC		Square plug, type A,	24 V DC/42 V AC	Non-detenting	119603	MDH-3/2-24VDC/42VAC	
110.V/AC Non-detenting 110.001 MDU 3/3 110/AC		to EN 175301-803	24 V DC/48 V AC	Non-detenting	119600	MDH-3/2-24DC	
110 VAC Non-detenting 119601 MDH-3/2-110VAC			110 V AC	Non-detenting	119601	MDH-3/2-110VAC	
230 V AC Non-detenting 119602 MDH-3/2-230VAC	Ŭ		230 V AC	Non-detenting	119602	MDH-3/2-230VAC	-