

Standard valves to ISO 15218

Product range overview

Function	Electrical connection		Voltage	Manual override	→ Page/Internet
Pilot valve to ISO 15218	Plug connector				
	Plug connector type C, to EN 175301-803	–	12 V DC	Non-detenting	2
				Non-detenting/detenting	2
			24 V DC	Non-detenting	2
				Non-detenting/detenting	2
		With protective earth conductor	24 V AC	Non-detenting	2
				Non-detenting/detenting	2
			110 V AC	Non-detenting	2
				Non-detenting/detenting	2
			230 V AC	Non-detenting	2
				Non-detenting/detenting	2
	Plug connector M12, to IEC 61076-2-101	–	24 V DC	Non-detenting	6
				Non-detenting/detenting	6
	Plug connector type A, to EN 175301-803	–	24 V DC/42 V AC	Non-detenting	9
			24 V DC/48 V AC	Non-detenting	9
			110 V AC	Non-detenting	9
			230 V AC	Non-detenting	9

Standard valves to ISO 15218, plug connector type C, EN 175301-803

Type codes

		VSCS	-	B	-	M32	-	M	-		-	WA	-		-	C1	-		
Function																			
VSCS	Standard valve to ISO 15218																		
Type of directional control valve																			
B	Sub-base valve																		
Valve function																			
M32	3/2-way valve																		
Type of reset																			
M	Mechanical spring																		
Manual override																			
D	Non-detenting, detenting																		
H	Non-detenting																		
Pneumatic connection																			
WA	CNOMO interface, small																		
Nominal operating voltage																			
1A	24 V AC, 50/60 Hz																		
2A	110 V AC, 50/60 Hz																		
3A	230 V AC, 50/60 Hz																		
1	24 V DC																		
5	12 V DC																		
Electrical connection																			
C1	Plug connector type C, EN 175301-803																		
Pressure range																			
-	0 ... 10 bar																		
8	1.5 ... 8 bar 																		

Standard valves to ISO 15218, plug connector type C, EN 175301-803

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Technical data

Standard valve with plug connector type C

VSCS-B-M32-...C1

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



General technical data		
Operating pressure	1.5 ... 8 bar	0 ... 10 bar
Electrical connection	Plug connector type C (without PE conductor), to EN 175301-803	
Valve function	3/2-way single solenoid valve, normally closed	
Sealing principle	Soft	
Actuation type	Electrical	
Reset method	Mechanical spring	
Type of control	Direct	
Flow direction	Non-reversible	
Non-overlapping	None	
Width [mm]	15	
Mounting position	Any	
Mounting	Screwed to valve body or connecting plate (2x M3)	
Standard nominal flow rate [l/min]	13.5	18
Duty cycle [%]	100	
Degree of protection to EN 60529	IP65 (in combination with plug socket)	
Conforms to	ISO 15218	

Characteristic coil data – Operating pressure 1.5 ... 8 bar						
Operating voltage		12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
Frequency	[Hz]	–	–	50/60	50/60	50/60
Power	[W]	1.3	1.3	–	–	–
Pickup power	[VA]	–	–	2.1	2.0	1.9
Holding power	[VA]	–	–	1.6	1.5	1.3
Switching time	On	[ms]	8	8	9	8
	Off	[ms]	6	6	30	20
Perm. voltage fluctuations	[%]	–10/+10	–10/+10	–10/+10	–10/+10	–10/+10

Characteristic coil data – Operating pressure 0 ... 10 bar						
Operating voltage		12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
Frequency	[Hz]	–	–	50/60	50/60	50/60
Power	[W]	1.8	1.8	–	–	–
Pickup power	[VA]	–	–	3.1	2.9	2.9
Holding power	[VA]	–	–	2.3	2.1	2.1
Switching time	On	[ms]	6	6	6	6
	Off	[ms]	6	6	6	6
Perm. voltage fluctuations	[%]	–15/+10	–15/+10	–15/+10	–15/+10	–15/+10

Materials	
Seals	NBR
Note on materials	RoHS compliant

Standard valves to ISO 15218, plug connector type C, EN 175301-803

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Technical data

Safety data – Operating pressure 1.5 ... 8 bar					
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
Note on forced checking procedure	Switching frequency min. 1/week				
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27				
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6				

Safety data – Operating pressure 0 ... 10 bar					
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
Note on forced checking procedure	Switching frequency min. 1/week				
Maximum positive test pulse with 0 signal [µs]	–	2100	–	–	–
Maximum negative test pulse with 1 signal [µs]	–	800	–	–	–
Shock resistance	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				

Operating and environmental conditions – Operating pressure 1.5 ... 8 bar					
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
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]	–5 ... +50				
Temperature of medium [°C]	–5 ... +50				
Corrosion resistance class CRC ¹⁾	2				
CE marking (see declaration of conformity) ²⁾	–	–	–	To EU Low Voltage Directive	

- 1) 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.
- 2) Additional information www.festo.com/sp ➔ Certificates.

Operating and environmental conditions – Operating pressure 0 ... 10 bar					
Operating voltage	12 V DC	24 V DC	24 V AC	110 V AC	230 V AC
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				
Temperature of medium [°C]	–10 ... +50				
Corrosion resistance class CRC ¹⁾	2				
CE marking (see declaration of conformity) ²⁾	–	–	–	To EU Low Voltage Directive	
Certification	–	c UL us - Recognized (OL)	–	–	–

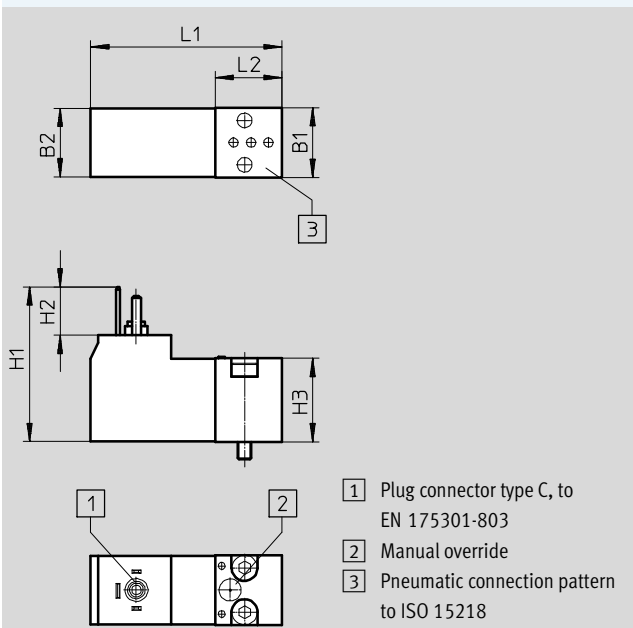
- 1) Corrosion resistance class CRC 2 to Festo standard FN 940070
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- 2) Additional information www.festo.com/sp ➔ Certificates.

Standard valves to ISO 15218, plug connector type C, EN 175301-803

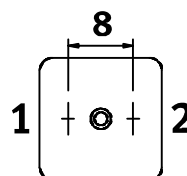
Technical data

Dimensions

VSCS-...C1

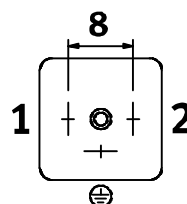


Electrical connection



Operating voltage:

- 12 V DC
- 24 V DC
- 24 V AC

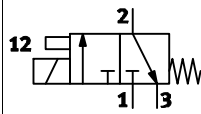
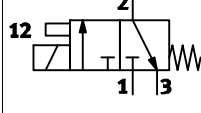
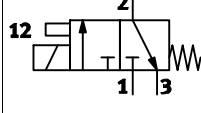
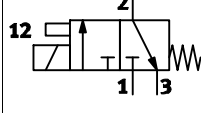


Operating voltage:

- 110 V AC
- 230 V AC

Type	B1	B2	H1	H2	H3	L1	L2
VSCS-...C1	15.2	15	33.7	10.5	18.2	41.9	14.7

Ordering data

	Operating voltage	Manual override	Part No.	Type
Operating pressure 1.5 ... 8 bar				
	12 V DC	Non-detenting	8040565	VSCS-B-M32-MH-WA-5C1-8 
		Non-detenting/detenting	8040571	VSCS-B-M32-MD-WA-5C1-8 
	24 V DC	Non-detenting	8040564	VSCS-B-M32-MH-WA-1C1-8 
		Non-detenting/detenting	8040570	VSCS-B-M32-MD-WA-1C1-8 
	24 V AC	Non-detenting	8040566	VSCS-B-M32-MH-WA-1AC1-8 
		Non-detenting/detenting	8040572	VSCS-B-M32-MD-WA-1AC1-8 
	110 V AC	Non-detenting	8040567	VSCS-B-M32-MH-WA-2AC1-8 
		Non-detenting/detenting	8040573	VSCS-B-M32-MD-WA-2AC1-8 
	230 V AC	Non-detenting	8040568	VSCS-B-M32-MH-WA-3AC1-8 
		Non-detenting/detenting	8040574	VSCS-B-M32-MD-WA-3AC1-8 
Operating pressure 0 ... 10 bar				
	12 V DC	Non-detenting	546257	VSCS-B-M32-MH-WA-5C1
		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
	110 V AC	Non-detenting	546259	VSCS-B-M32-MH-WA-2AC1
		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



New

Pressure range 1.5 ... 8 bar

Standard valves to ISO 15218, plug connector M12x1, IEC 61076-2-101

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Type codes

		VSCS	-	B	-	M32	-	M	-		-	WA	-	1	-	R3	-	
Function		VSCS	Standard valve to ISO 15218															
Type of directional control valve		B	Sub-base valve															
Valve function		M32	3/2-way valve															
Type of reset		M	Mechanical spring															
Manual override		D	Non-detenting, detenting															
		H	Non-detenting															
Pneumatic connection		WA	CNOMO interface, small															
Nominal operating voltage		1	24 V DC															
Electrical connection		R3	Plug connector M12x1, A-coded, EN 61076-2-101															
Pressure range		-	0 ... 10 bar															
		8	1.5 ... 8 bar 															

Standard valves to ISO 15218, plug connector M12x1, IEC 61076-2-101

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Technical data

Standard valve with round plug connector

VSCS-B-M32 ... 1R3

- Valve actuator for electrical actuation of basic valve bodies
- Pneumatic connection: to ISO 15218 (CNOMO)
- Electrical connection M12x1 in accordance with IEC 61076-2-101



General technical data		
Operating pressure	1.5 ... 8 bar	0 ... 10 bar
Electrical connection	Plug connector M12x1, to IEC 61076-2-101	
Valve function	3/2-way solenoid valve, normally closed, monostable	
Sealing principle	Soft	
Actuation type	Electrical	
Reset method	Mechanical spring	
Type of control	Direct	
Flow direction	Non-reversible	
Non-overlapping	None	
Width [mm]	15	
Mounting position	Any	
Mounting	Screwed to valve body or connecting plate (2x M3)	
Standard nominal flow rate [l/min]	13.5	18
Duty cycle [%]	100	
Degree of protection to EN 60529	IP65 (in combination with plug socket)	
Conforms to	ISO 15218	

Characteristic coil data		
Operating pressure	1.5 ... 8 bar	0 ... 10 bar
Operating voltage [V DC]	24	24
Power [W]	1.3	1.8
Switching time On [ms]	8	6
Switching time Off [ms]	6	6
Perm. voltage fluctuations [%]	-10/+10	-15/+10

Materials	
Seals	NBR
Note on materials	RoHS compliant

Safety data		
Operating pressure	1.5 ... 8 bar	0 ... 10 bar
Note on forced checking procedure	Switching frequency min. 1/week	Switching frequency min. 1/week
Max. positive test pulse with 0 signal [μs]	–	2100
Max. negative test pulse with 1 signal [μs]	–	800
Shock resistance	Shock test with severity level 1 to FN 942017-5 and EN 60068-2-27	Shock test with severity level 2 to FN 942017-5 and EN 60068-2-27
Vibration resistance	Transport application test with severity level 1 to FN 942017-4 and EN 60068-2-6	Transport application test with severity level 2 to FN 942017-4 and EN 60068-2-6

Standard valves to ISO 15218, plug connector M12x1, IEC 61076-2-101

Technical data

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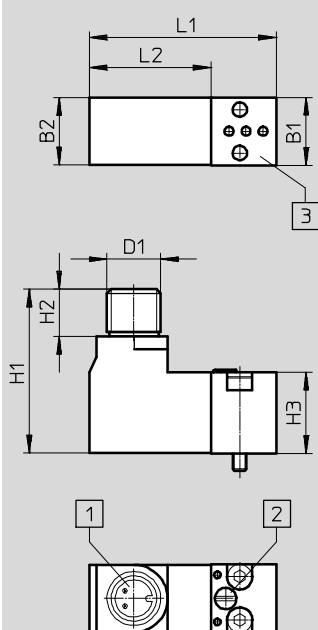
Operating and environmental conditions		
Operating pressure	1.5 ... 8 bar	0 ... 10 bar
Operating medium	Compressed air according to ISO 8573-1:2010 [7:4:4]	
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)	
Ambient temperature [°C]	-5 ... +50	-10 ... +50
Temperature of medium [°C]	-5 ... +50	-10 ... +50
Corrosion resistance class CRC ¹⁾	2	2
Certification	-	c UL us - Recognized (OL)

1) 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.

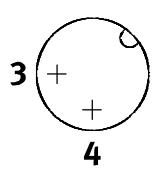
Dimensions

VSCS-...1R3



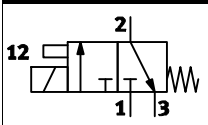
- 1 Plug connector M12x1 to IEC 61076-2-101
- 2 Manual override
- 3 Pneumatic connection pattern to ISO 15218

Electrical connection



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Type	B1	B2	D1	H1	H2	H3	L1	L2
VSCS-...1R3	15.2	15	M12	36.7	10.6	18.2	41.9	27.2

Ordering data		Operating pressure	Manual override	Part No.	Type
	1.5 ... 8 bar	Non-detenting		8040569	VSCS-B-M32-MH-WA-1R3-8 
		Non-detenting/detenting		8040575	VSCS-B-M32-MD-WA-1R3-8 
	0 ... 10 bar	Non-detenting		573214	VSCS-B-M32-MH-WA-1R3
		Non-detenting/detenting		573215	VSCS-B-M32-MD-WA-1R3

Standard valves to ISO 15218, plug connector type A, EN 175301-803

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Type codes

		MDH	-	3/2	-	
Function						
MDH	Standard valve to ISO 15218					
Valve function						
3/2	3/2-way valve					
Nominal operating voltage						
24VDC/42VAC	24 V DC, 42 V AC 50/60 Hz					
24DC	24 V DC, 48 V AC 50/60 Hz					
110VAC	110 V AC, 50/60 Hz					
230VAC	230 V AC, 50/60 Hz					

Standard valves to ISO 15218, plug connector type A, EN 175301-803

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Technical data

Standard valve with plug connector type A

MDH-3/2 ...

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



General technical data	
Electrical connection	Plug connector type A, to EN 175301-803
Valve function	3/2-way single solenoid valve, normally closed
Sealing principle	Soft-sealing
Actuation type	Electrical
Reset method	Mechanical spring
Design	Poppet valve
Type of control	Direct
Flow direction	Non-reversible
Non-overlapping	None
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]	1 ... 16
Degree of protection to EN 60529	IP65 (in combination with plug socket)
Conforms to	ISO 15218
Weight [g]	140

Characteristic coil data					
Operating voltage		42 V AC	48 V AC	110 V AC	230 V AC
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	–	–
Pickup 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

Materials	
Seals	FPM
Note on materials	RoHS compliant

Standard valves to ISO 15218, plug connector type A, EN 175301-803

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Technical data

Operating and environmental conditions				
Operating voltage	42 V AC	48 V AC	110 V AC	230 V AC
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		2	
CE marking (see declaration of conformity) ²⁾	-		To EU Low Voltage Directive	

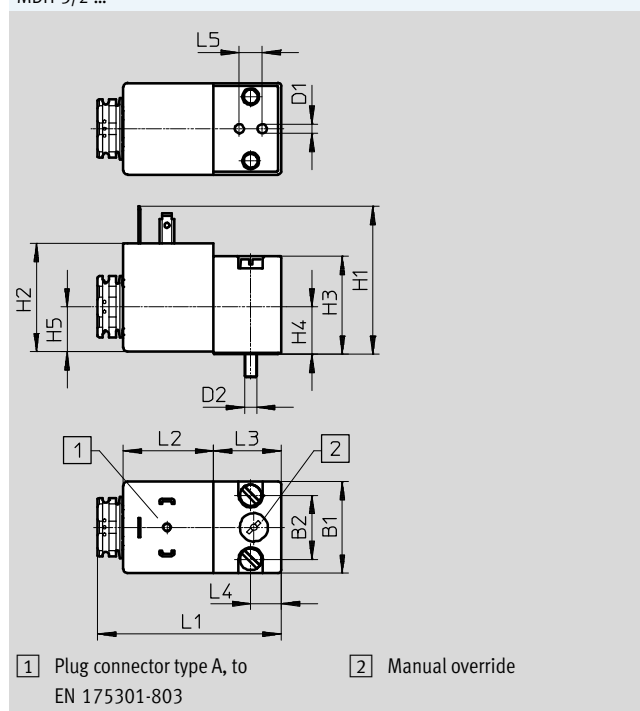
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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.

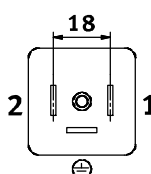
2) Additional information www.festo.com/sp → Certificates.

Dimensions

MDH-3/2 ...



Electrical connection



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Type	B1	B2	D1	D2	H1	H2	H3	H4	H5	L1	L2	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

Ordering data

	Operating voltage		Part No.	Type
	24 V DC	42 V AC	119603	MDH-3/2-24VDC/42VAC
		48 V AC	119600	MDH-3/2-24DC
	110 V AC		119601	MDH-3/2-110VAC
	230 V AC		119602	MDH-3/2-230VAC