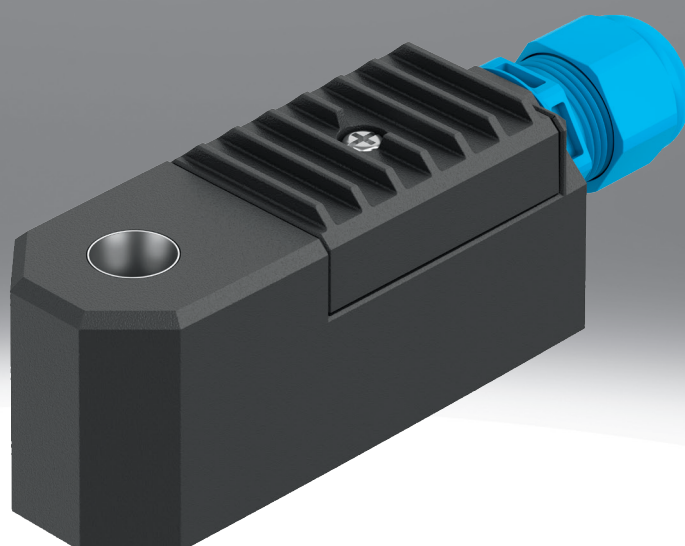


Solenoid coil VACC

FESTO



Type code

001	Series	
VACC	Solenoid coil VACC	

002	Solenoid coil type	
P2	Pilot valves with CNOMO interface Size 30 mm to ISO 152182	
S13	Solenoid coil, shaft 13 mm	
S18	Solenoid coil, shaft 18 mm	

003	Power consumption	
0.12	12mW	
0.4	40mW	
11	1.1W	
18	1.8W	
25	2.5W	
35	3.5W	
70	7W	
120	12W	

004	Electrical connection	
A1	Plug pattern type A, according to EN 175301-803	
K4	Cable fitting, metric	
K5	Cable fitting NPT	

005	Nominal operating voltage	
1	24 V DC	
1A	24 V AC/50-60 Hz	
1U	24 V DC and AC	
2A	110 V AC/50-60 Hz	
2U	110 V DC and AC	
3	230 V DC	
3A	230 V AC/50-60 Hz	
3U	230 V DC and AC	
5	12 V DC	
7	48 V DC	
7U	48 V DC and AC	
16	120 V DC	
16U	120 V DC and AC	
27	60 V DC	
27U	60 V DC and AC	

006	Circuitry	
	Without	
F	Fuse	

007	EX certification EU	
	None	
EX4	II 2GD	

008	Certification	
	Without	
U2	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)	
NE4	CCC-Ex (Ex-Certification China, EPL Gb and Db)	
KS4	KOSHA (EX certification Korea, EPL Gb and Db)	
NM4	INMETRO (Ex-Certification Brazil, EPL Gb and Db)	

009	Type of ignition protection	
	Without	
A	Intrinsically safe	
D	Flameproof enclosure	
ME	Encapsulation, enhanced safety	

Datasheet

General technical data – solenoid coils S for armature tube 13 mm, power consumption 1.1 W

Electrical connection	Terminal box, cable entry thread M20x1.5
Actuation type	Electrical
Mounting position	Any
Switching position indication	No
Product weight	330 g

Electrical data – solenoid coils S for armature tube 13 mm, power consumption 1.1 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Coil characteristics	14 - 32 V DC: 0.22 - 1.1 W			
Max. input voltage Vi	32 V			
Max. input current Ii	0.2 A			
Max. input power Pi	1.2 W			
Effective internal capacitance Ci	Negligibly small	0 µF	Negligibly small	
Required current consumption	16 mA			
Power consumption	1.1W			
Permissible voltage fluctuations	-15% / +10%			
Duty cycle	100%			
Insulation class	H			
Degree of protection	IP65			

ATEX – solenoid coils S for armature tube 13 mm, power consumption 1.1 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
ATEX category gas	II 2G	–	II 2G	–
Type of ignition protection for gas	Ex ia IIC/IIB T5/T6 Gb	–	Ex ia IIC T5, T6	Ex ia IIC/IIB T5/T6 Gb
ATEX category for dust	II 2D	–	II 2D	–
Type of (ignition) protection for dust	Ex ia IIIC T95°C/T80°C IP65 Db	Ex ia IIIC T95°C/T80°C Db	Ex iaD 21 T80/T95°C	Ex ia IIIC T95°C/T80°C Db
Explosive ambient temperature	T5/T95°C: -30°C ≤ Ta ≤ +65°C, T6/T80°C: -30°C ≤ Ta ≤ +50°C	T5, T95°C: -30°C ≤ Ta ≤ +65°C, T6, T80°C: -30°C ≤ Ta ≤ +50°C		
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)	EPL Db (CN); EPL Gb (CN)	EPL Db (KR); EPL Gb (KR)	EPL Db (BR); EPL Gb (BR)
Certificate issuing authority	BVS 15 ATEX E 030 X IECEX BVS 15.0020 X German Technical Control Board (TÜV) 21 UKEX 7016 X	GYJ20.1094X	21-AV4BO-0280X 22-AV4BO-0052X	DNV 17.0043X

Materials – solenoid coils S for armature tube 13 mm, power consumption 1.1 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Solenoid coil material	–	–	PA, UP	–
Note on materials	RoHS compliant			
LABS (PWIS) conformity	VDMA24364 Zone III			

Datasheet

Operating and environmental conditions – solenoid coils S for armature tube 13 mm, power consumption 1.1 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Corrosion resistance class (CRC) ¹⁾	–		4 - Particularly high corrosion stress	–
CE marking (see declaration of conformity) ²⁾	As per EU EMC directive, as per EU explosion protection directive (ATEX), As per EU RoHS directive	–	As per EU EMC directive, as per EU explosion protection directive (ATEX)	–
UKCA marking (see declaration of conformity)	To UK instructions for EMC, acc. to UK EX instructions, To UK RoHS instructions	–		
Certificate issuing authority	BVS 15 ATEX E 030 X; IECEx BVS 15.0020 X; German Technical Control Board (TÜV) 21 UKEX 7016 X	GVJ20.1094X	21-AV4BO-0280X; 22-AV4BO-0052X	DNV 17.0043X

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

General technical data – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Electrical connection	Terminal box, cable entry thread M20x1.5	Type A, Plug, As per EN 175301-803
Actuation type	Electrical	
Mounting position	Any	
Switching position indication	No	
Product weight	330 g	210 g

Electrical data – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	Without	
Electrical connection	Terminal box, cable entry thread M20x1.5	Type A, Plug, As per EN 175301-803
Coil characteristics	110 V DC: 1.8 W 110 V AC: 40/65 Hz, power 1.8 VA 230 V DC: 1.8 W 230 V AC: 40/65 Hz, power 1.8 VA 24 V DC: 1.8 W 24 V AC: 40/65 Hz, power 1.8 VA 60 V AC: 40/65 Hz, power 1.8 VA 60 V DC: 1.8 W	110 V DC: 1.8 W 110 V AC: 50/60 Hz, power 1.8 VA 230 V DC: 1.8 W 230 V AC: 50/60 Hz, power 1.8 VA 24 V DC: 2.1 W 24 V AC: 50/60 Hz, power 2.1 VA
Power consumption	1.8W	
Permissible voltage fluctuations	-15% / +10%	
Duty cycle	100%	
Insulation class	H	
Degree of protection	IP65	

Electrical data – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Electrical connection	Terminal box, cable entry thread M20x1.5		
Coil characteristics	110 V DC: 1.8 W 110 V AC: 40/65 Hz, power 1.8 VA 230 V DC: 1.8 W 230 V AC: 40/65 Hz, power 1.8 VA 24 V DC: 1.8 W 24 V AC: 40/65 Hz, power 1.8 VA 60 V AC: 40/65 Hz, power 1.8 VA 60 V DC: 1.8 W		
Power consumption	1.8W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP65		

Datasheet

ATEX – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	Without			
Electrical connection	Type A, Plug, As per EN 175301-803			
Coil characteristics	110 V DC: 1.8 W, 110 V AC: 50/60 Hz, power 1.8 VA	230 V DC: 1.8 W, 230 V AC: 50/60 Hz, power 1.8 VA	24 V DC: 2.1 W	24 V DC: 2.1 W, 24 V AC: 50/60 Hz, power 2.1 VA
ATEX category gas	–			
Type of ignition protection for gas	–			
ATEX category for dust	–			
Type of (ignition) protection for dust	–			
Explosive ambient temperature	–			
Explosion protection certification outside the EU	–			
Certificate issuing authority	–			

ATEX – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	Without			
Electrical connection	Terminal box, cable entry thread M20x1.5			
Coil characteristics	110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W
ATEX category gas	II 2G			
Type of ignition protection for gas	Ex eb mb IIC T* Gb			
ATEX category for dust	II 2D			
Type of (ignition) protection for dust	Ex tb IIIC T*°C Db			
Explosive ambient temperature	T4/T130°C: -30°C ≤ Ta ≤ +60°C, T5/T95°C: -30°C ≤ Ta ≤ +60°C, T6/T85°C: -30°C ≤ Ta ≤ +50°C			
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)			
Certificate issuing authority	IECEx BVS 15.0075X German Technical Control Board (TÜV) 21 UKEX 7015 X		BVS 15ATEXE029X IECEx BVS 15.0075X German Technical Control Board (TÜV) 21 UKEX 7015 X	

ATEX – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

ATEX category gas	–		
Type of ignition protection for gas	Ex eb mb IIC T6... T4 Gb	Ex e mb IIC T4, T5, T6	Ex eb mb IIC T6, T5, T4 Gb
ATEX category for dust	–		
Type of (ignition) protection for dust	Ex tb IIIC T85°C... T130°C Db	Ex tD A21 IP65 T85/T95/T130°C	Ex tb IIIC T85°C, T95°C, T130°C Db
Explosive ambient temperature	T4, T130°C: -30°C ≤ Ta ≤ +60°C, T5, T95°C: -30°C ≤ Ta ≤ +60°C, T6, T85°C: -30°C ≤ Ta ≤ +50°C		
Explosion protection certification outside the EU	EPL Db (CN); EPL Gb (CN)	EPL Db (KR); EPL Gb (KR)	EPL Db (BR); EPL Gb (BR)
Certificate issuing authority	GYJ23.1170X	21-AV4BO-0279X 22-AV4BO-0051X	INMETRO DNV 17.0042X

Materials – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Solenoid coil material	PA; UP	-		
Note on materials	RoHS compliant			
LABS (PWIS) conformity	VDMA24364 Zone III			

Datasheet

Operating and environmental conditions – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	Without							
Electrical connection	Terminal box, cable entry thread M20x1.5				Type A, Plug, As per EN 175301-803			
Coil characteristics	110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	110 V DC: 1.8 W, 110 V AC: 50/60 Hz, power 1.8 VA	230 V DC: 1.8 W, 230 V AC: 50/60 Hz, power 1.8 VA	24 V DC: 2.1 W	24 V DC: 2.1 W, 24 V AC: 50/60 Hz, power 2.1 VA
Ambient temperature	–				-20 ... 60°C			
Corrosion resistance class (CRC) ¹⁾	–				4 - Particularly high corrosion stress			
CE marking (see declaration of conformity) ²⁾	as per EU explosion protection directive (ATEX) As per EU RoHS directive				As per EU low voltage directive		–	
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions				To UK instructions for electrical equipment		–	

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Operating and environmental conditions – solenoid coils S for armature tube 13 mm, power consumption 1.8 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Ambient temperature	–		
Corrosion resistance class (CRC) ¹⁾	–		
CE marking (see declaration of conformity) ²⁾	–		
UKCA marking (see declaration of conformity)	–		

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

General technical data – solenoid coils S for armature tube 18 mm, power consumption 1.8 W

Electrical connection	Terminal box, cable entry thread M20x1.5 Terminal box, cable entry thread NPT1/2
Actuation type	Electrical
Mounting position	Any
Switching position indication	No
Product weight	1,700 g

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 1.8 W

Coil characteristics	230 V AC: 50/60 Hz, power 1.8 VA
Power consumption	1.8W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP65

ATEX – solenoid coils S for armature tube 18 mm, power consumption 1.8 W

ATEX category gas	II 2G
Type of ignition protection for gas	Ex db IIC T6, T5, T4 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex tb IIIC T80°C, 95°C, 130°C Db
Explosive ambient temperature	T4, T130°C: -50°C ≤ Ta ≤ +90°C, T5, T95°C: -50°C ≤ Ta ≤ +55°C, T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)
Certificate issuing authority	BVS15ATEXE135 IECEXBVS.15.0116

Datasheet

Materials – solenoid coils S for armature tube 18 mm, power consumption 1.8 W

Solenoid coil material	Wrought aluminum alloy; Cast iron
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 1.8 W

Ambient temperature	–
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress
CE marking (see declaration of conformity) ²⁾	as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

General technical data – solenoid coils S for armature tube 18 mm, power consumption 2.5 W

Electrical connection	Terminal box, cable entry thread M20x1.5 Terminal box, cable entry thread NPT1/2
Actuation type	Electrical
Mounting position	Any
Switching position indication	No
Product weight	1,700 g

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 2.5 W

Coil characteristics	110 V AC: 50/60 Hz, power 2.5 VA 110 V DC: 2.5 W 230 V AC: 50/60 Hz, power 2.5 VA 230 V DC: 2.5 W 24 V DC: 2.5 W 24 V AC: 50/60 Hz, power 2.5 VA
Power consumption	2.5W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP65

ATEX – solenoid coils S for armature tube 18 mm, power consumption 2.5 W

ATEX category gas	II 2G
Type of ignition protection for gas	Ex db IIC T6, T5, T4 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex tb IIIC T80°C, 95°C, 130°C Db
Explosive ambient temperature	T4, T130°C: -50°C ≤ Ta ≤ +90°C, T5, T95°C: -50°C ≤ Ta ≤ +55°C, T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)
Certificate issuing authority	BVS15ATEXE135 IECEXBVS.15.0116

Materials – solenoid coils S for armature tube 18 mm, power consumption 2.5 W

Solenoid coil material	Wrought aluminum alloy; Cast iron
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III

Datasheet

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 2.5 W

Ambient temperature	–
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress
CE marking (see declaration of conformity) ²⁾	as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

General technical data – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Electrical connection	Terminal box, cable entry thread M20x1.5			Type A, Plug, As per EN 175301-803			
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	110 V AC: 50/60 Hz, power 3.5 VA	230 V AC: 50/60 Hz, power 3.5 VA	24 V DC: 3.5 W	24 V AC: 50/60 Hz, power 3.5 VA
Actuation type	Electrical						
Mounting position	Any						
Switching position indication	No						
Product weight	580 g			530 g	580 g	530 g	

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without
Electrical connection	Type A, Plug, As per EN 175301-803
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA 230 V AC: 50/60 Hz, power 3.5 VA 24 V DC: 3.5 W 24 V AC: 50/60 Hz, power 3.5 VA
Power consumption	3.5W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP65

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without
Electrical connection	Terminal box, cable entry thread M20x1.5
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA 110 V DC: 3.5 W 230 V AC: 50/60 Hz, power 3.5 VA 230 V DC: 3.5 W 24 V DC: 3.5 W 24 V AC: 50/60 Hz, power 3.5 VA
Power consumption	3.5W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP66

Datasheet

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Electrical connection	Terminal box, cable entry thread M20x1.5		
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA 110 V DC: 3.5 W 230 V AC: 50/60 Hz, power 3.5 VA 230 V DC: 3.5 W 24 V DC: 3.5 W 24 V AC: 50/60 Hz, power 3.5 VA		
Power consumption	3.5W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP66		

ATEX – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without
Electrical connection	Type A, Plug, As per EN 175301-803
ATEX category gas	–
Type of ignition protection for gas	–
ATEX category for dust	–
Type of (ignition) protection for dust	–
Explosive ambient temperature	–
Explosion protection certification outside the EU	–
Certificate issuing authority	–

ATEX – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without		
Electrical connection	Terminal box, cable entry thread M20x1.5		
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA
ATEX category gas	II 2G		
Type of ignition protection for gas	Ex eb mb IIC T* Gb		
ATEX category for dust	II 2D		
Type of (ignition) protection for dust	Ex tb IIIC T**C Db		
Explosive ambient temperature	T5/T95°C: -25°C ≤ Ta ≤ +60°C, T6/T80°C: -25°C ≤ Ta ≤ +50°C		
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)		
Certificate issuing authority	German Technical Control Board (TÜV) 21 UKEX 7017 X	BVS 16ATEXE036X IECEX BVS16.0028X German Technical Control Board (TÜV) 21 UKEX 7017 X	German Technical Control Board (TÜV) 21 UKEX 7017 X

Datasheet

ATEX – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
ATEX category gas	–		
Type of ignition protection for gas	Ex eb mb IIC T5/T6 Gb	Ex e mb IIC T5, T6	Ex eb mb IIC T6, T5 Gb
ATEX category for dust	–		
Type of (ignition) protection for dust	Ex tb IIIC T95°C/T80°C Db	Ex tD A21 IP66 T85/T95°C	Ex tb IIIC T80°C, T95°C Db
Explosive ambient temperature	T5, T95°C: -25°C ≤ Ta ≤ +60°C, T6, T80°C: -25°C ≤ Ta ≤ +50°C		
Explosion protection certification outside the EU	EPL Db (CN); EPL Gb (CN)	EPL Db (KR); EPL Gb (KR)	EPL Db (BR); EPL Gb (BR)
Certificate issuing authority	GVJ23.1169X	22-AV4B0-0256X 22-AV4B0-0257X	INMETRO DNV 19.0135X

Materials – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Solenoid coil material	PA; Steel	-		
Note on materials	RoHS compliant			
LABS (PWIS) conformity	VDMA24364 Zone III			

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without			
Electrical connection	Type A, Plug, As per EN 175301-803			
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA	230 V AC: 50/60 Hz, power 3.5 VA	24 V DC: 3.5 W	24 V AC: 50/60 Hz, power 3.5 VA
Ambient temperature	-20 ... 60°C			
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress			
CE marking (see declaration of conformity) ²⁾	As per EU low voltage directive		–	
UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment		–	

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	Without		
Electrical connection	Terminal box, cable entry thread M20x1.5		
Coil characteristics	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA
Ambient temperature	–		
Corrosion resistance class (CRC) ¹⁾	–		
CE marking (see declaration of conformity) ²⁾	As per EU RoHS directive	as per EU explosion protection directive (ATEX) As per EU RoHS directive	As per EU RoHS directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions		

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Datasheet

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 3.5 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Ambient temperature	–		
Corrosion resistance class (CRC) ¹⁾	–		
CE marking (see declaration of conformity) ²⁾	–		
UKCA marking (see declaration of conformity)	–		

1) For more information, visit www.festo.com/x/topic/kbk2) For more information, visit www.festo.com/catalogue/... Support/downloads.**General technical data – solenoid coils S for armature tube 18 mm, power consumption 7 W**

Actuation type	Electrical
Mounting position	Any
Switching position indication	No
Product weight	1,700 g

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	Without
Coil characteristics	110 V AC: 50/60 Hz, power 7.0 VA 110 V DC: 7.0 W 120 V AC: 50/60 Hz, power 7.0 VA 120 V DC: 7.0 W 230 V AC: 50/60 Hz, power 7.0 VA 230 V DC: 7.0 W 24 V AC: 50/60 Hz, power 7.0 VA 24 V DC: 7.0 W 48 V AC: 50/60 Hz, power 7.0 VA 48 V DC: 7.0 W
Power consumption	7W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP65

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)
Coil characteristics	125 V DC: 7.0 W 220 V DC: 7.0 W 24 V DC: 7.0 W 48 V DC: 7.0 W
Power consumption	7W
Permissible voltage fluctuations	-15% / +10%
Duty cycle	100%
Insulation class	H
Degree of protection	IP65

Datasheet

ATEX – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	Without
ATEX category gas	II 2G
Type of ignition protection for gas	Ex db IIC T6, T5, T4 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex tb IIIC T80°C, 95°C, 130°C Db
Explosive ambient temperature	T4, T130°C: -50°C ≤ Ta ≤ +90°C, T5, T95°C: -50°C ≤ Ta ≤ +55°C, T6, T80°C: -50°C ≤ Ta ≤ +40°C
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)
Certificate issuing authority	BVS15ATEXE135 IECEXBVS.15.0116

ATEX – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)
ATEX category gas	–
Type of ignition protection for gas	–
ATEX category for dust	–
Type of (ignition) protection for dust	–
Explosive ambient temperature	T4A, 120°C: -25°C ≤ Ta ≤ +80°C
Explosion protection certification outside the EU	Class I, Div. 2 (CA); Class I, Div. 2 (US)
Certificate issuing authority	–

Materials – solenoid coils S for armature tube 18 mm, power consumption 7 W

Solenoid coil material	Wrought aluminum alloy; Cast iron
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	Without
Ambient temperature	–
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress
CE marking (see declaration of conformity) ²⁾	as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 7 W

Certification	cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)			
Coil characteristics	125 V DC: 7.0 W	220 V DC: 7.0 W	24 V DC: 7.0 W	48 V DC: 7.0 W
Ambient temperature	–			
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress			
CE marking (see declaration of conformity) ²⁾	As per EU low voltage directive		–	
UKCA marking (see declaration of conformity)	–			

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Datasheet

General technical data – solenoid coils S for armature tube 18 mm, power consumption 12 W

Electrical connection	Type A, Plug, As per EN 175301-803	Terminal box, cable entry thread M20x1.5
Actuation type	Electrical	
Mounting position	Any	
Switching position indication	No	
Product weight	530 g	580 g

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	24 V DC: 12.0 W	48 V DC: 12.0 W	60 V DC: 12.0 W
Power consumption	12W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP65	IP66	

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA 230 V AC: 50/60 Hz, power 12.0 VA 24 V AC: 50/60 Hz, power 12.0 VA		
Power consumption	12W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP65		

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA 110 V DC: 12.0 W 230 V AC: 50/60 Hz, power 12.0 VA 230 V DC: 12.0 W 24 V AC: 50/60 Hz, power 12.0 VA 24 V DC: 12.0 W		
Power consumption	12W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP66		

Electrical data – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA 110 V DC: 12.0 W 230 V AC: 50/60 Hz, power 12.0 VA 230 V DC: 12.0 W 24 V AC: 50/60 Hz, power 12.0 VA 24 V DC: 12.0 W 48 V DC: 12.0 W 60 V DC: 12.0 W		
Power consumption	12W		
Permissible voltage fluctuations	-15% / +10%		
Duty cycle	100%		
Insulation class	H		
Degree of protection	IP66		

Datasheet

ATEX – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	24 V DC: 12.0 W	48 V DC: 12.0 W	60 V DC: 12.0 W
ATEX category gas	II 2G		
Type of ignition protection for gas	Ex eb mb IICT* Gb		
ATEX category for dust	II 2D		
Type of (ignition) protection for dust	Ex tb IIIC T*°C Db		
Explosive ambient temperature	T4/T120°C: -25°C ≤ Ta ≤ +40°C		
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)		
Certificate issuing authority	German Technical Control Board (TÜV) 21 UKEX 7017 X		

ATEX – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA	230 V AC: 50/60 Hz, power 12.0 VA	24 V AC: 50/60 Hz, power 12.0 VA
ATEX category gas	–		
Type of ignition protection for gas	–		
ATEX category for dust	–		
Type of (ignition) protection for dust	–		
Explosive ambient temperature	–		
Explosion protection certification outside the EU	–		
Certificate issuing authority	–		

ATEX – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W
ATEX category gas	II 2G		
Type of ignition protection for gas	Ex eb mb IICT* Gb		
ATEX category for dust	II 2D		
Type of (ignition) protection for dust	Ex tb IIIC T*°C Db		
Explosive ambient temperature	T4/T120°C: -25°C ≤ Ta ≤ +40°C		
Explosion protection certification outside the EU	EPL Db (GB); EPL Db (IEC-EX); EPL Gb (GB); EPL Gb (IEC-EX)		
Certificate issuing authority	BVS 16ATEXE036X IECEX BVS16.0028X German Technical Control Board (TÜV) 21 UKEX 7017 X	German Technical Control Board (TÜV) 21 UKEX 7017 X	BVS 16ATEXE036X IECEX BVS16.0028X German Technical Control Board (TÜV) 21 UKEX 7017 X

Datasheet

ATEX – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
ATEX category gas	–		
Type of ignition protection for gas	Ex eb mb IIC T4 Gb	Ex e mb IIC T4	Ex eb mb IIC T4 Gb
ATEX category for dust	–		
Type of (ignition) protection for dust	Ex tb IIIC T120°C Db	Ex tD A21 IP66 T120°C	Ex tb IIIC T120°C Db
Explosive ambient temperature	T4, T120°C: -25°C ≤ Ta ≤ +40°C		
Explosion protection certification outside the EU	EPL Db (CN); EPL Gb (CN)	EPL Db (KR); EPL Gb (KR)	EPL Db (BR); EPL Gb (BR)
Certificate issuing authority	GYJ23.1169X	22-AV4BO-0256X 22-AV4BO-0257X	INMETRO DNV 19.0135X

Materials – solenoid coils S for armature tube 18 mm, power consumption 12 W

Materials – Solenoid coils for armature tube 18 mm, power consumption 12 W				
Certification	Without	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Solenoid coil material	PA; Steel	–		
Note on materials	RoHS compliant			
LABS (PWIS) conformity	VDMA24364 Zone III			

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Electrical connection	Type A, Plug, As per EN 175301-803	Terminal box, cable entry thread M20x1.5	
Coil characteristics	24 V DC: 12.0 W	48 V DC: 12.0 W	60 V DC: 12.0 W
Ambient temperature	-20 ... 60°C	–	
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress	–	
CE marking (see declaration of conformity) ²⁾	–	As per EU RoHS directive	
UKCA marking (see declaration of conformity)	–	acc. to UK EX instructions To UK RoHS instructions	

1) For more information, visit www.festo.com/x/topic/kbk2) For more information, visit www.festo.com/catalogue/... Support/downloads.**Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 12 W**

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA	230 V AC: 50/60 Hz, power 12.0 VA	24 V AC: 50/60 Hz, power 12.0 VA
Ambient temperature	-20 ... 60°C		
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress		
CE marking (see declaration of conformity) ²⁾	As per EU low voltage directive		–
UKCA marking (see declaration of conformity)	To UK instructions for electrical equipment		–

1) For more information, visit www.festo.com/x/topic/kbk2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Datasheet

Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	Without		
Coil characteristics	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W
Ambient temperature	–		
Corrosion resistance class (CRC) ¹⁾	–		
CE marking (see declaration of conformity) ²⁾	as per EU explosion protection directive (ATEX) As per EU RoHS directive	As per EU RoHS directive	as per EU explosion protection directive (ATEX) As per EU RoHS directive
UKCA marking (see declaration of conformity)	acc. to UK EX instructions To UK RoHS instructions		

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

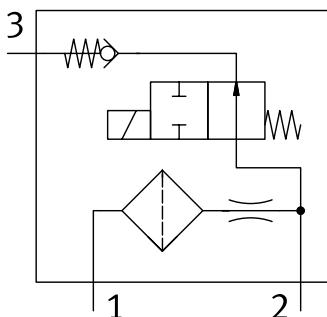
Operating and environmental conditions – solenoid coils S for armature tube 18 mm, power consumption 12 W

Certification	CCC-Ex (Ex-Certification China, EPL Gb and Db)	KOSHA (EX certification Korea, EPL Gb and Db)	INMETRO (Ex-Certification Brazil, EPL Gb and Db)
Ambient temperature	–		
Corrosion resistance class (CRC) ¹⁾	–		
CE marking (see declaration of conformity) ²⁾	–		
UKCA marking (see declaration of conformity)	–		

1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

General technical data - Pilot valves with CNOMO interface Size 30 mm to ISO 15218



Conforms to standard	ISO 15218
Actuation type	Electrical
Type of mounting	CNOMO
Max. tightening torque of pneumatic fitting	3 Nm
Mounting position	Any
Product weight	440 g

Switching times - pilot valves with CNOMO interface Size 30 mm to ISO 15218

On switching time	40 ms
Switching time off	40 ms

Datasheet

Electrical data - Pilot valves with CNOMO interface Size 30 mm to ISO 15218

Nominal operating voltage DC	12 V	24 V
Electrical connection	Spring-loaded terminal, Terminal box, cable entry thread M20x1.5	
Nominal conductor cross section	0.25 ... 2.5 mm ²	
Cable diameter	4 ... 13 mm	
Coil characteristics	6 - 16 V DC: 0.012 - 0.1 W	14 - 30 V DC: 0.04 - 0.19 W
Max. input voltage Vi	16 V	30 V
Max. input current Ii	0.33 A	
Max. input power Pi	2.1 W	
Effective internal capacitance Ci	1 nF	
Effective internal inductance Li	Negligibly small	
Required current consumption	2 mA	3 mA
Max. input parameter of intrinsically safe circuit	See IECEx certificate	
Duty cycle	100%	
Degree of protection	IP65, As per IEC 60529	
Note on degree of protection	See user documentation	

ATEX pilot valves with CNOMO interface Size 30 mm according to ISO 15218

ATEX category gas	II 2G
Type of ignition protection for gas	Ex ia IIC/IIB T6/T4 Gb
ATEX category for dust	II 2D
Type of (ignition) protection for dust	Ex ia IIIC T85°C/135°C Db
Explosive ambient temperature	T4: -25°C ≤ Ta ≤ +60°C T6: -25°C ≤ Ta ≤ +60°C
Explosion protection certification outside the EU	EPL Db (IEC-EX); EPL Gb (IEC-EX)
Certificate issuing authority	BVS 25 ATEX E063 IECEX BVS 25.0061

Materials - Pilot valves with CNOMO interface Size 30 mm to ISO 15218

Housing material	Aluminum, ematal coated
Material of winding	Copper
Material of screws	high-alloy stainless steel
Seals material	EPDM; FVMQ; VMQ
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III

Operating and environmental conditions - Pilot valves with CNOMO interface Size 30 mm to ISO 15218

Nominal operating voltage DC	12 V	24 V
Operating medium	Compressed air according to ISO 8573-1:2010 [7:2:4]	
Operating pressure	0.2 ... 0.6 MPa	0.2 ... 0.8 MPa
Operating pressure	2 ... 6 bar	2 ... 8 bar
Operating pressure	29 ... 87 psi	29 ... 116 psi
Ambient temperature	-25 ... 60°C	
Storage temperature	-40 ... 80°C	
Corrosion resistance class (CRC) ¹⁾	4 - Particularly high corrosion stress	
CE marking (see declaration of conformity) ²⁾	As per EU EMC directive as per EU explosion protection directive (ATEX) As per EU RoHS directive	
UKCA marking (see declaration of conformity)	To UK instructions for EMC acc. to UK EX instructions To UK RoHS instructions	

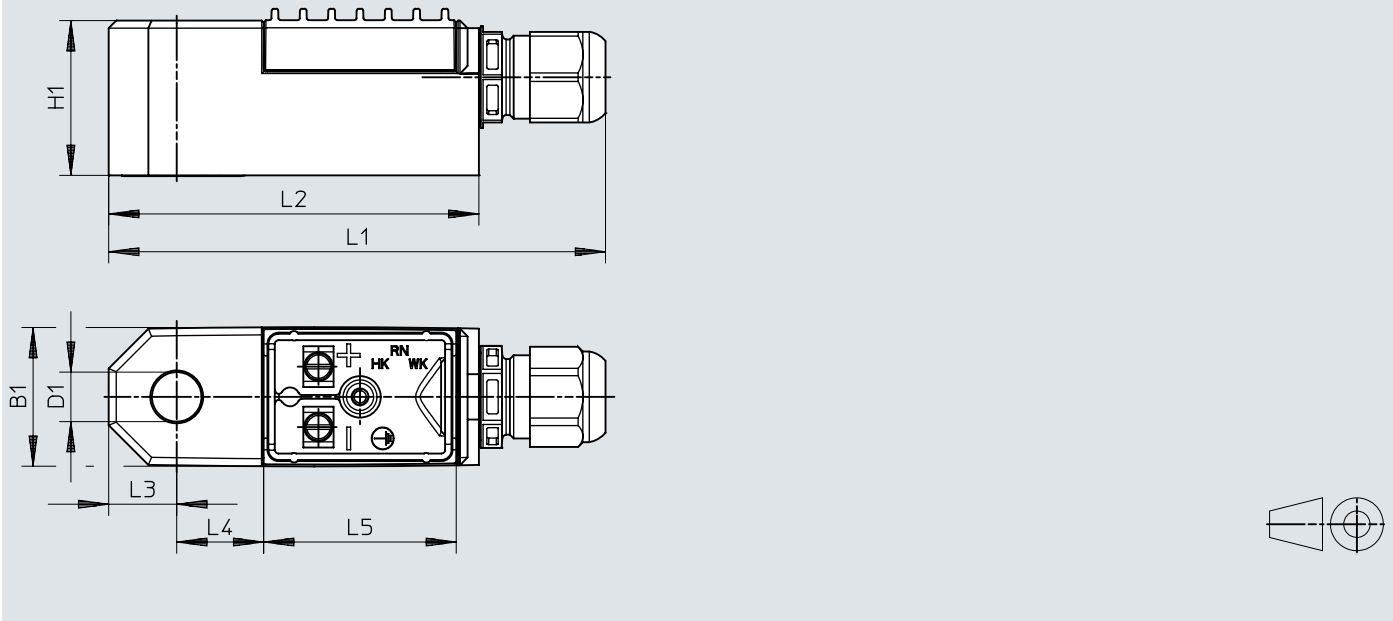
1) For more information, visit www.festo.com/x/topic/kbk

2) For more information, visit www.festo.com/catalogue/... Support/downloads.

Dimensions

Dimensions – Solenoid coils S for armature tube 13 mm, power consumption 1.1 W

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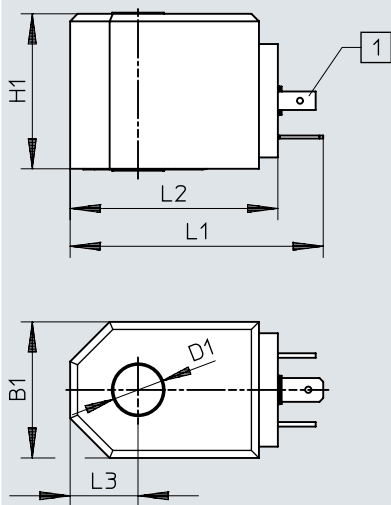


	B1	D1	H1	L1	L2	L3	L4	L5
VACC-S13-11-K4-1	37	13,1	41	131	98	18	23	51

Dimensions

Dimensions – Solenoid coils S for armature tube 13 mm, power consumption 1.8 W, with electrical connection form A

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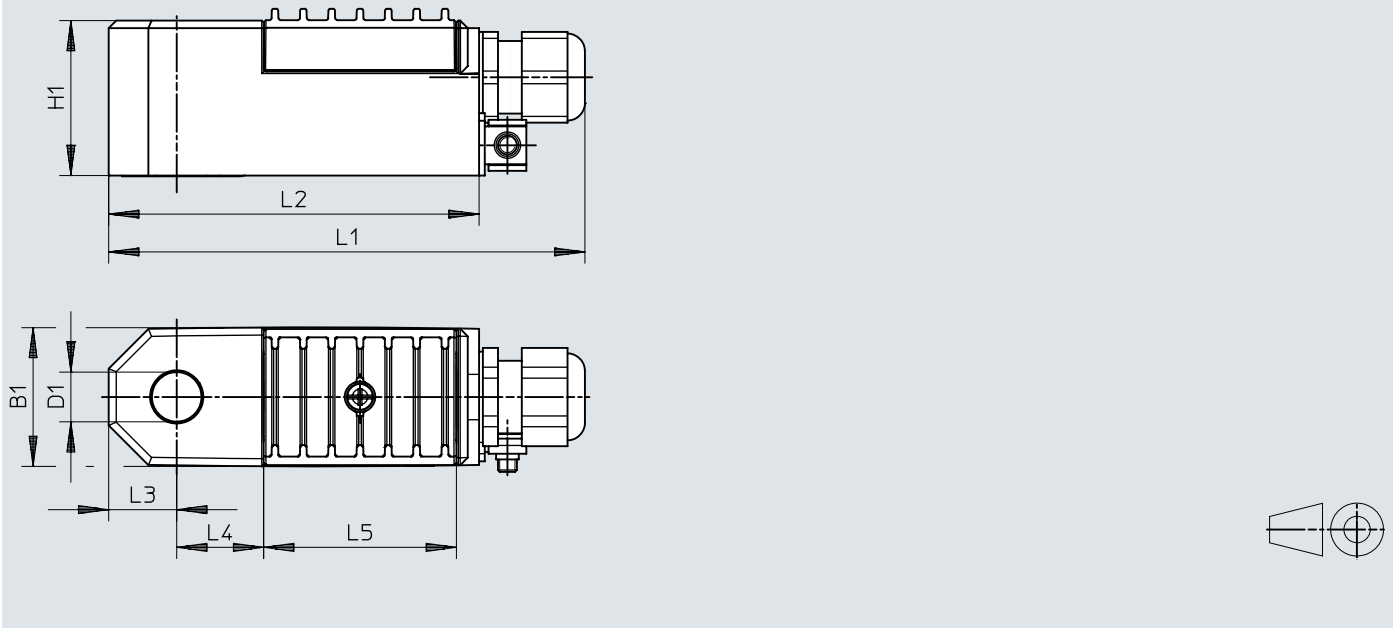
[1] Plug pattern type A, according to EN 175301-803

	B1	D1	H1	L1	L2	L3
VACC-S13-18-A1-...	36	13,1	41	67	55	18

Dimensions

Dimensions – Solenoid coils S for armature tube 13 mm, power consumption 1.8 W, with electrical connection terminal box

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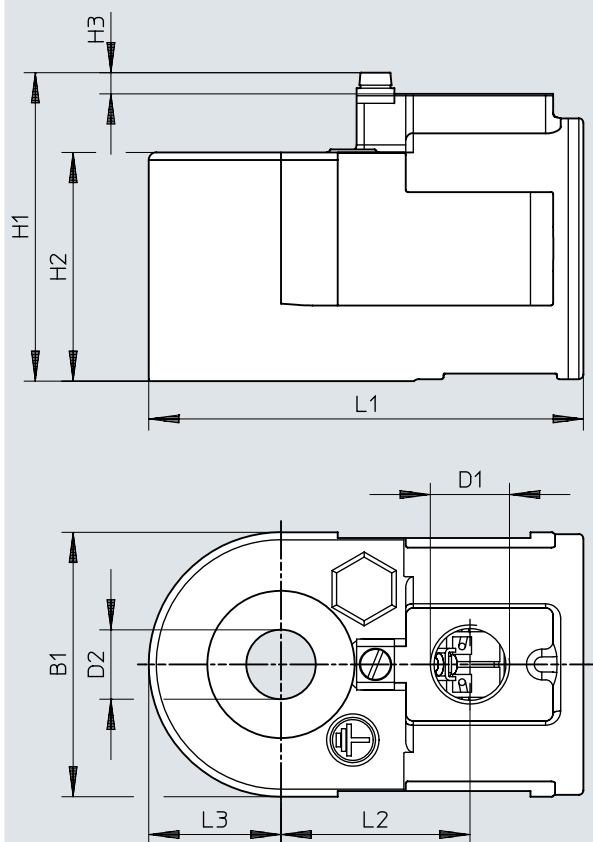


	B1	D1	H1	L1	L2	L3	L4	L5
VACC-S13-18-K4	37	13,1	41	126	98	18	23	51

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 1.8 W

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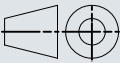
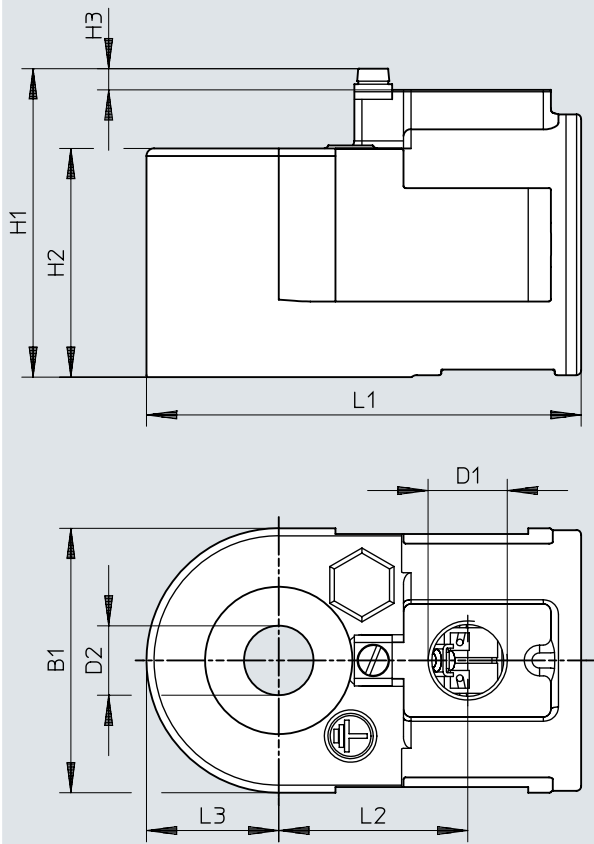


	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-18-K4-3A-EX4D	70	M20x1,5	18,2	82	60,5	6	115	50	35
VACC-S18-18-K5-3A-EX4D		1/2 NPT							

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 2.5 W

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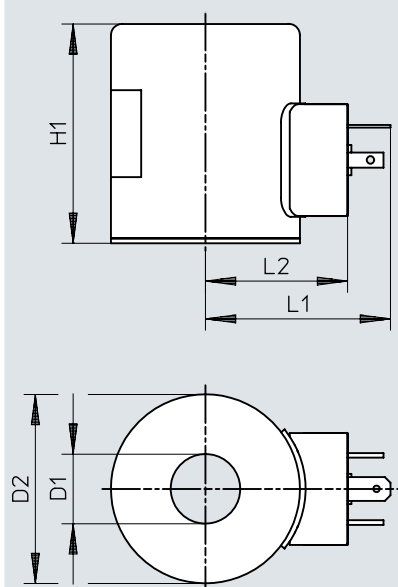


	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-25-K4-...U-EX4D	70	M20x1,5	18,2	82	60,5	6	115	50	35
VACC-S18-25-K5-...U-EX4D		1/2 NPT							

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 3.5 W, with electrical connection form A

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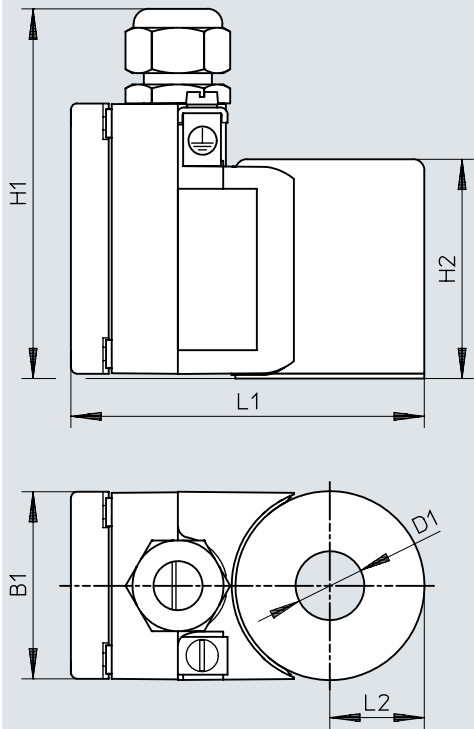


	D1 ø	D2 ø	H1	L1	L2
VACC-S18-35A1-1	18,2	50	58	50	38
VACC-S18-35A1-1A					
VACC-S18-35A1-2A					
VACC-S18-35A1-3A					

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 3.5 W, with electrical connection terminal box

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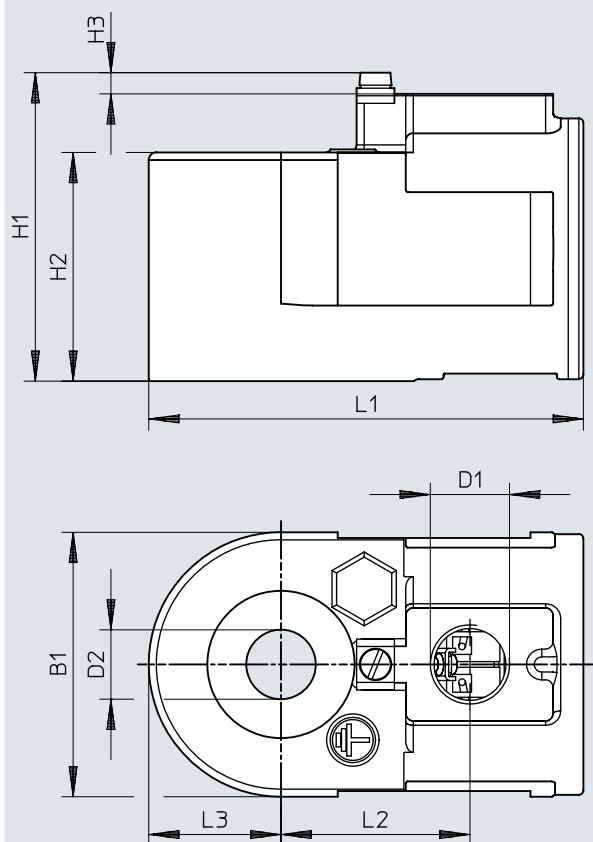


	B1	D1 Ø	H1	H2	L1	L2
VACC-S18-35-K4	50	18,2	100	58	95	25

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption
7 W

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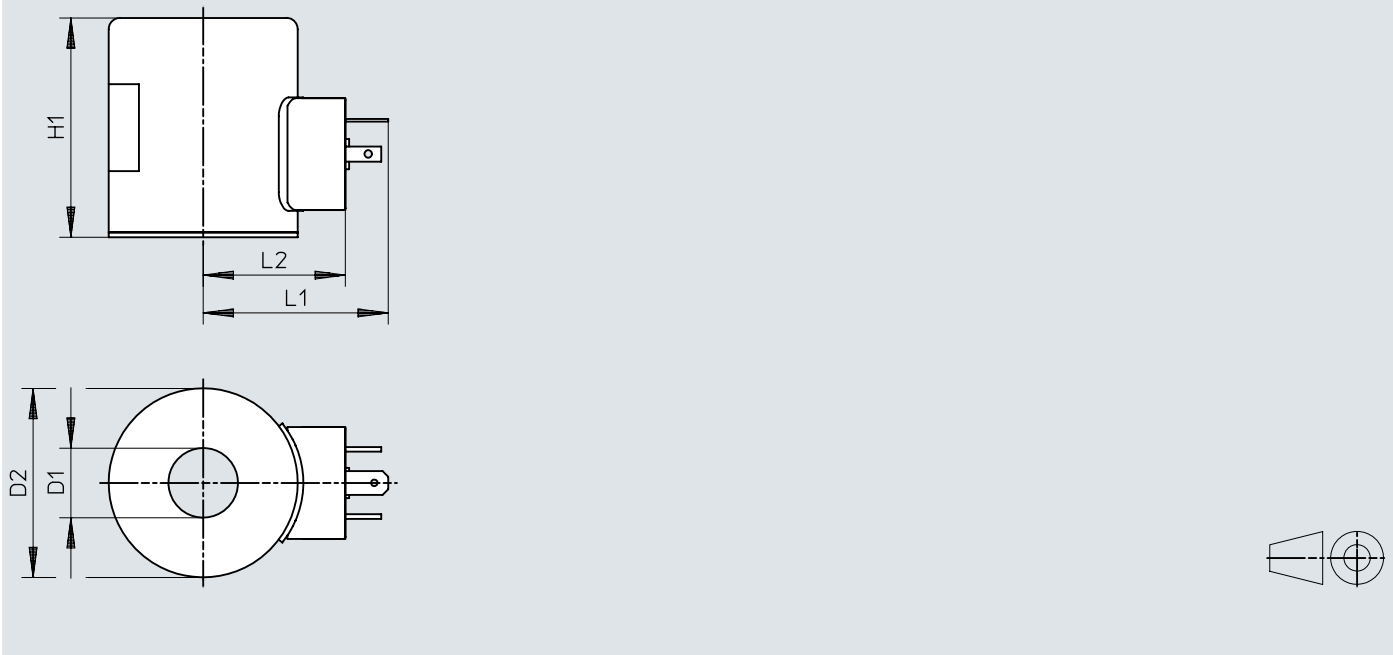


	B1	D1	D2 Ø	H1	H2	H3	L1	L2	L3
VACC-S18-70-K4-...	70	M20x1,5	18,2	82	60,5	6	115	50	35
VACC-S18-70-K5-...	70	1/2 NPT	18,2	82	60,5	6	115	50	35

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 12 W, with electrical connection form A

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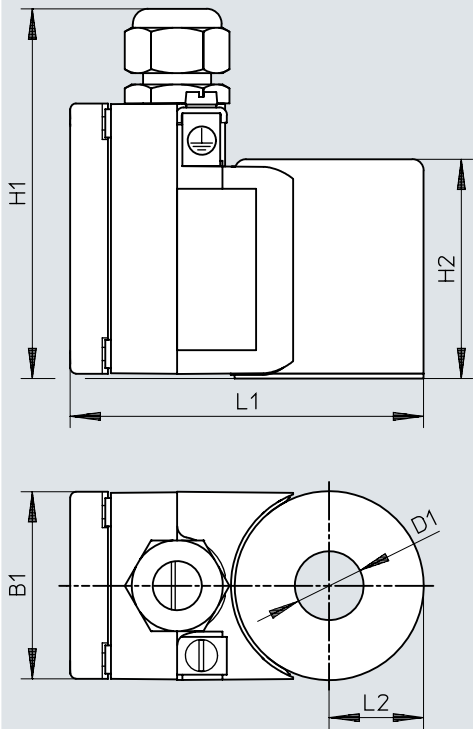


	D1 ø	D2 ø	H1	L1	L2
VACC-S18-120-A1-1	18,2	50	58	50	38
VACC-S18-120-A1-1A					
VACC-S18-120-A1-2A					
VACC-S18-120-A1-3A					

Dimensions

Dimensions – Solenoid coils S for armature tube 18 mm, power consumption 12 W, with electrical connection terminal box

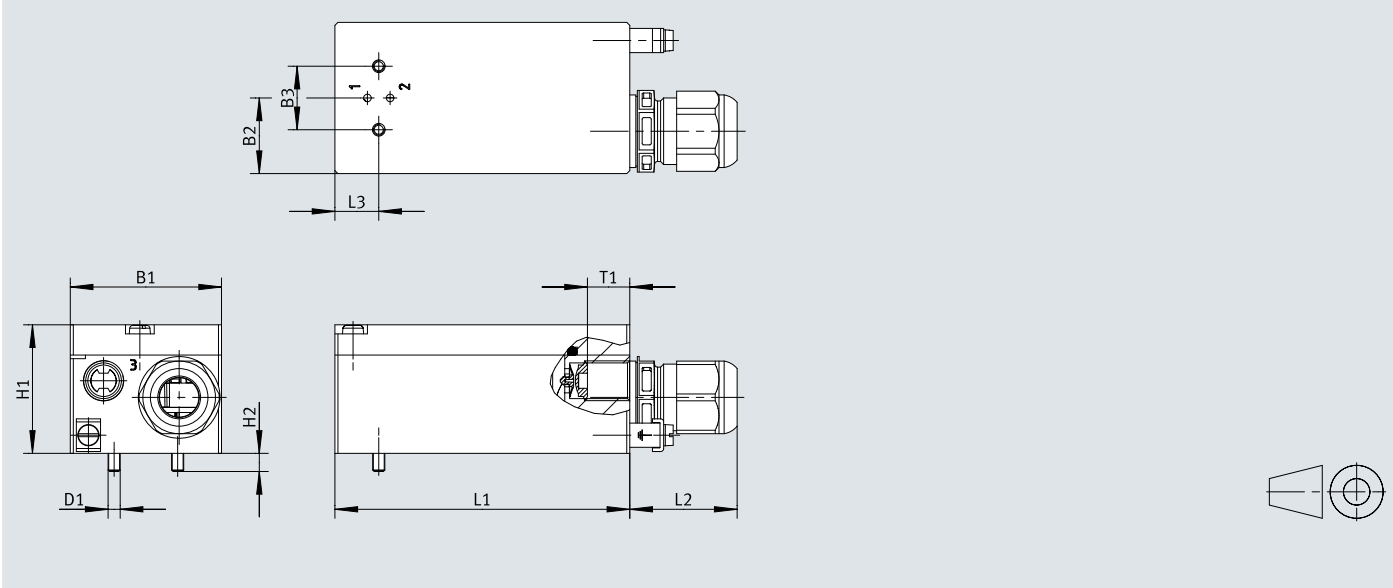
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	B1	D1 Ø	H1	H2	L1	L2
VACC-S18-120-K4	50	18,2	100	58	95	25

Dimensions

Dimensions – Pilot valves with CNOMO interface Size 30 mm to ISO 15218 [Download CAD data](#) www.festo.com



	B1	B2	B3	D1	H1	H2	L1	L2	L3	T1
VACC-P2	50	25	21	M4	42,5	6	97,5	35,5	14,5	14

Ordering data

Ordering data – solenoid coils S for armature tube 13 mm, power consumption 1.1 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Terminal box, cable entry thread M20x1.5	14 - 32 V DC: 0.22 - 1.1 W	8109401	VACC-S13-11-K4-1-EX4A
KOSHA (EX certification Korea, EPL Gb and Db)			8114136	VACC-S13-11-K4-1-KS4A
CCC-Ex (Ex-Certification China, EPL Gb and Db)			8114135	VACC-S13-11-K4-1-NE4A
INMETRO (Ex-Certification Brazil, EPL Gb and Db)			8114078	VACC-S13-11-K4-1-NM4A

Ordering data – solenoid coils S for armature tube 13 mm, power consumption 1.8 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Type A, Plug, As per EN 175301-803	110 V DC: 1.8 W, 110 V AC: 50/60 Hz, power 1.8 VA	562891	VACC-S13-18-A1-2U
		230 V DC: 1.8 W, 230 V AC: 50/60 Hz, power 1.8 VA	562892	VACC-S13-18-A1-3U
		24 V DC: 2.1 W, 24 V AC: 50/60 Hz, power 2.1 VA	562890	VACC-S13-18-A1-1U
		24 V DC: 2.1 W	562889	VACC-S13-18-A1-1
	Terminal box, cable entry thread M20x1.5	110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8109397	VACC-S13-18-K4-2U-EX4ME
		230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	8109398	VACC-S13-18-K4-3U-EX4ME
		24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	8109396	VACC-S13-18-K4-1U-EX4ME
		60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	8109399	VACC-S13-18-K4-1UF-EX4ME
KOSHA (EX certification Korea, EPL Gb and Db)		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8109400	VACC-S13-18-K4-27U-EX4ME
		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8156760	VACC-S13-18-K4-2U-KS4ME
		230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	8156761	VACC-S13-18-K4-3U-KS4ME
		24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	8156762	VACC-S13-18-K4-1U-KS4ME
		60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	8156759	VACC-S13-18-K4-1U-KS4ME
CCC-Ex (Ex-Certification China, EPL Gb and Db)		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8156763	VACC-S13-18-K4-27U-KS4ME
		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8118330	VACC-S13-18-K4-2U-NE4ME
		230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	8118331	VACC-S13-18-K4-3U-NE4ME
		24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	8118332	VACC-S13-18-K4-1U-NE4ME
		60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	8118329	VACC-S13-18-K4-1U-NE4ME
INMETRO (Ex-Certification Brazil, EPL Gb and Db)		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8118333	VACC-S13-18-K4-27U-NE4ME
		110 V DC: 1.8 W, 110 V AC: 40/65 Hz, power 1.8 VA	8118325	VACC-S13-18-K4-2U-NM4ME
		230 V DC: 1.8 W, 230 V AC: 40/65 Hz, power 1.8 VA	8118326	VACC-S13-18-K4-3U-NM4ME
		24 V DC: 1.8 W, 24 V AC: 40/65 Hz, power 1.8 VA	8118324	VACC-S13-18-K4-1U-NM4ME
		60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	8118327	VACC-S13-18-K4-1UF-NM4ME
		60 V AC: 40/65 Hz, power 1.8 VA, 60 V DC: 1.8 W	8118328	VACC-S13-18-K4-27U-NM4ME

Ordering data

Ordering data – solenoid coils S for armature tube 18 mm, power consumption 1.8 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Terminal box, cable entry thread M20x1.5	230 V AC: 50/60 Hz, power 1.8 VA	3504741	VACC-S18-18-K4-3A-EX4D
	Terminal box, cable entry thread NPT1/2		3546734	VACC-S18-18-K5-3A-EX4D

Ordering data – solenoid coils S for armature tube 18 mm, power consumption 2.5 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Terminal box, cable entry thread M20x1.5	110 V AC: 50/60 Hz, power 2.5 VA, 110 V DC: 2.5 W	562904	VACC-S18-25-K4-2U-EX4D
		230 V AC: 50/60 Hz, power 2.5 VA, 230 V DC: 2.5 W	562905	VACC-S18-25-K4-3U-EX4D
		24 V DC: 2.5 W, 24 V AC: 50/60 Hz, power 2.5 VA	562903	VACC-S18-25-K4-1U-EX4D
	Terminal box, cable entry thread NPT1/2	110 V AC: 50/60 Hz, power 2.5 VA, 110 V DC: 2.5 W	562901	VACC-S18-25-K5-2U-EX4D
		230 V AC: 50/60 Hz, power 2.5 VA, 230 V DC: 2.5 W	562902	VACC-S18-25-K5-3U-EX4D
		24 V DC: 2.5 W, 24 V AC: 50/60 Hz, power 2.5 VA	562900	VACC-S18-25-K5-1U-EX4D

Ordering data – solenoid coils S for armature tube 18 mm, power consumption 3.5 W					
Certification	Electrical connection	Coil characteristics	Part no.	Type	
Without	Type A, Plug, As per EN 175301-803	110 V AC: 50/60 Hz, power 3.5 VA	562908	VACC-S18-35-A1-2A	
		230 V AC: 50/60 Hz, power 3.5 VA	562909	VACC-S18-35-A1-3A	
		24 V DC: 3.5 W	562906	VACC-S18-35-A1-1	
		24 V AC: 50/60 Hz, power 3.5 VA	562907	VACC-S18-35-A1-1A	
	Terminal box, cable entry thread M20x1.5	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	8109387	VACC-S18-35-K4-2U-EX4ME	
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	8109386	VACC-S18-35-K4-3U-EX4ME	
		24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	8109388	VACC-S18-35-K4-1UF-EX4ME	
			8109389	VACC-S18-35-K4-1U-EX4ME	
		KOSHA (EX certification Korea, EPL Gb and Db)	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	8118315	VACC-S18-35-K4-2U-KS4ME
			230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	8118314	VACC-S18-35-K4-3U-KS4ME
24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	8118316		VACC-S18-35-K4-1UF-KS4ME		
	8118317		VACC-S18-35-K4-1U-KS4ME		
CCC-Ex (Ex-Certification China, EPL Gb and Db)	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	8118255	VACC-S18-35-K4-2U-NE4ME		
	230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	8118254	VACC-S18-35-K4-3U-NE4ME		
	24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA	8118256	VACC-S18-35-K4-1UF-NE4ME		
		8118257	VACC-S18-35-K4-1U-NE4ME		
	INMETRO (Ex-Certification Brazil, EPL Gb and Db)	110 V AC: 50/60 Hz, power 3.5 VA, 110 V DC: 3.5 W	8118174	VACC-S18-35-K4-2U-NM4ME	
		230 V AC: 50/60 Hz, power 3.5 VA, 230 V DC: 3.5 W	8118180	VACC-S18-35-K4-3U-NM4ME	
24 V DC: 3.5 W, 24 V AC: 50/60 Hz, power 3.5 VA		8118182	VACC-S18-35-K4-1U-NM4ME		
		8118179	VACC-S18-35-K4-1UF-NM4ME		

Ordering data

Ordering data – solenoid coils S for armature tube 18 mm, power consumption 7 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Terminal box, cable entry thread M20x1.5	120 V AC: 50/60 Hz, power 7.0 VA, 120 V DC: 7.0 W	3504609	VACC-S18-70-K4-16U-EX4D
		230 V AC: 50/60 Hz, power 7.0 VA, 230 V DC: 7.0 W	3504639	VACC-S18-70-K4-3U-EX4D
		24 V AC: 50/60 Hz, power 7.0 VA, 24 V DC: 7.0 W	3504563	VACC-S18-70-K4-1U-EX4D
		48 V AC: 50/60 Hz, power 7.0 VA, 48 V DC: 7.0 W	3504574	VACC-S18-70-K4-7U-EX4D
	Terminal box, cable entry thread NPT1/2	110 V AC: 50/60 Hz, power 7.0 VA, 110 V DC: 7.0 W	3546625	VACC-S18-70-K5-2U-EX4D
		230 V AC: 50/60 Hz, power 7.0 VA, 230 V DC: 7.0 W	3546662	VACC-S18-70-K5-3U-EX4D
		24 V AC: 50/60 Hz, power 7.0 VA, 24 V DC: 7.0 W	3546549	VACC-S18-70-K5-1U-EX4D
		48 V AC: 50/60 Hz, power 7.0 VA, 48 V DC: 7.0 W	3546588	VACC-S18-70-K5-7U-EX4D
cULus, hazardous environment, USA and Canada (NEC 500, Class 1 Div 2)		125 V DC: 7.0 W	3546913	VACC-S18-70-K5-16-U2D
		220 V DC: 7.0 W	3546949	VACC-S18-70-K5-3-U2D
		24 V DC: 7.0 W	3546816	VACC-S18-70-K5-1-U2D
		48 V DC: 7.0 W	3546876	VACC-S18-70-K5-7-U2D

Ordering data – solenoid coils S for armature tube 18 mm, power consumption 12 W				
Certification	Electrical connection	Coil characteristics	Part no.	Type
Without	Type A, Plug, As per EN 175301-803	110 V AC: 50/60 Hz, power 12.0 VA	8040582	VACC-S18-120-A1-2A
		230 V AC: 50/60 Hz, power 12.0 VA	8040584	VACC-S18-120-A1-3A
		24 V AC: 50/60 Hz, power 12.0 VA	8040890	VACC-S18-120-A1-1A
		24 V DC: 12.0 W	8040580	VACC-S18-120-A1-1
	Terminal box, cable entry thread M20x1.5	110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	8109392	VACC-S18-120-K4-2U-EX4ME
		230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	8109391	VACC-S18-120-K4-3U-EX4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W	8109395	VACC-S18-120-K4-1U-EX4ME
		48 V DC: 12.0 W	8109394	VACC-S18-120-K4-1UF-EX4ME
KOSHA (EX certification Korea, EPL Gb and Db)		48 V DC: 12.0 W	8109390	VACC-S18-120-K4-7-EX4ME
		60 V DC: 12.0 W	8109393	VACC-S18-120-K4-27-EX4ME
		110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	8118320	VACC-S18-120-K4-2U-KS4ME
		230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	8118319	VACC-S18-120-K4-3U-KS4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W	8118323	VACC-S18-120-K4-1U-KS4ME
		48 V DC: 12.0 W	8118322	VACC-S18-120-K4-1UF-KS4ME
		48 V DC: 12.0 W	8118318	VACC-S18-120-K4-7-KS4ME
		60 V DC: 12.0 W	8118321	VACC-S18-120-K4-27-KS4ME
CCC-Ex (Ex-Certification China, EPL Gb and Db)		110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	8118260	VACC-S18-120-K4-2U-NE4ME
		230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	8118259	VACC-S18-120-K4-3U-NE4ME
		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W	8118262	VACC-S18-120-K4-1UF-NE4ME
		48 V DC: 12.0 W	8118263	VACC-S18-120-K4-1U-NE4ME
		48 V DC: 12.0 W	8118258	VACC-S18-120-K4-7-NE4ME
		60 V DC: 12.0 W	8118261	VACC-S18-120-K4-27-NE4ME
		110 V AC: 50/60 Hz, power 12.0 VA, 110 V DC: 12.0 W	8118178	VACC-S18-120-K4-2U-NM4ME
		230 V AC: 50/60 Hz, power 12.0 VA, 230 V DC: 12.0 W	8118173	VACC-S18-120-K4-3U-NM4ME
INMETRO (Ex-Certification Brazil, EPL Gb and Db)		24 V AC: 50/60 Hz, power 12.0 VA, 24 V DC: 12.0 W	8118181	VACC-S18-120-K4-1U-NM4ME
		48 V DC: 12.0 W	8118177	VACC-S18-120-K4-1UF-NM4ME
		48 V DC: 12.0 W	8118175	VACC-S18-120-K4-7-NM4ME
		60 V DC: 12.0 W	8118176	VACC-S18-120-K4-27-NM4ME

Ordering data

Ordering data - Pilot valves with CNOMO interface Size 30 mm to ISO 15218				
Electrical connection	Operating pressure	Nominal operating voltage DC	Part no.	Type
Spring-loaded terminal, Terminal box, cable entry thread M20x1.5	0.2 ... 0.6 MPa	12 V	8204401	VACC-P2-0.12-K4-5-EX4A
	0.2 ... 0.8 MPa	24 V	8204400	VACC-P2-0.4-K4-1-EX4A