Condensate drain WA/PWEA





Condensate drain WA

Datasheet

Function





Temperature range 0 ... +60°C

Operating pressure 1.5 ... 16 bar



They contain a float which opens a poppet valve when a certain condensate level is reached. This drains the condensate that has been collected. If a manual override is additionally installed, the condensate can also be drained manually.

- Automatic emptying after the max. fill level has been reached
- Automatic emptying after the operating pressure p < 0.5 bar is switched off
- Manual actuation during operation is possible

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📲 - Note

For the automatic condensate drain WA-2 to close, it requires a flow rate of 125 l/min, which occurs at approx. 1.5 bar. For attaching to service unit components and compressed air networks/ systems.

Condensed water in the compressed air is separated in appropriate filters. The condensate that accumulates must be emptied from time to time, as otherwise it would be drawn in and could lead to faults in downstream components. The devices shown ensure the condensate is automatically drained off.

General technical data

Туре	WA-1-B	WA-2		
Pneumatic connection	M9	M9		
Condensate drain connection	G1/4 PK-4			
Design	External, mechanically operated, fully automatic condensate drain valve			
Measured variable	Filing level			
Type of mounting	In-line installation			
Mounting position	Vertical, ±10° Vertical, ±5°			
Valve function	2/2-way valve, closed, monostable	2/2-way valve, open, monostable		
Manual override	Non-detenting			

Operating and environmental conditions

operating and environmental conditions					
Туре		WA-1-B	WA-2		
Operating pressure	[bar]	416	1.5 14		
Operating medium		Water			
Ambient temperature	[°C]	0 +60	0 +50		
Temperature of medium	[°C]	0 +60	0 +50		
Storage temperature	[°C]	-20 +60	-20+60		

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Conde	ensate drain	WA-1-B	WA-2
[1]	Housing	Brass	Brass
[2]	Float	Polypropylene	Polyacetal
[3]	Hood	Polyamide	Wrought aluminium alloy
[4]	Bowl	-	Polycarbonate
-	Seals	Nitrile rubber	Nitrile rubber
LABS	(PWIS) conformity	VDMA24364-B2-L	VDMA24364-Zone III

Actuating force F for manual actuation as a function of input pressure p WA-1-B



Max. possible condensate flow rate qn as a function of input pressure p $\mathsf{WA-2}$





Condensate drain WA

M9

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2/2-way valve, open, monostable

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WA-2

Condensate drain PWEA

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Condensate passes through the con-

bowl into the attached condensate drain valve, where it is collected in a

reservoir. A capacitive sensor detects

when the maximum filling level is

necting bore in the bottom of the filter



reached.



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The condensate escapes into the atmosphere via the opening diaphragm valve through the discharge pipe. The diaphragm valve closes again after a specified response time. A residual amount of condensate remains in the reservoir so that no compressed air can escape into the discharge line.

- Fully automatic condensate drain with independent electric controller
- Interface available for communicating with master control device
- Reliable thanks to non-contacting capacitive sensor



- Can be used with service units or simply in piping systems
- Operated via touch-sensitive keys or electrical interface
- Ready status and switching status indicated via LEDs and electrical interface

General technical data					
Туре	PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D		
Pneumatic connection	G1/2				
Condensate drain connection	PK-8	PK-8			
Design	External, electrically operate	External, electrically operated, fully automatic condensate drain valve			
Measured variable	Filling level	Filling level			
Type of mounting	In-line installation	In-line installation			
Mounting position	Vertical ±5°	Vertical ±5°			
Valve function	3/2-way single solenoid valv	3/2-way single solenoid valve, closed			
Manual override	Non-detenting	Non-detenting			

Electrical data					
Туре		PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D	
Electrical connection	-	Screw terminal PG9			
Nominal operating voltage	[V AC]	115	230	-	
	[V DC]	-	-	24	
Mains frequency	[Hz]	50/60		-	
Nominal power of condensate	[VA]	2	2	-	
drain	[W]	-	-	2	
Control elements		Touch-sensitive keypad with test button			
Ready status indication/switching status		LED			
indication					
Alarm output		Contacting			
Protection class (IEC 60529)		IP65			
Protection class		II	Ш	Ш	

Condensate drain PWEA

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Operating and environmental conditions

Operating and environmental con	Dperating and environmental conditions					
Туре		PWEA-AC-6A	PWEA-AC-7A	PWEA-AC-3D		
Operating pressure	[bar]	0.8 16				
Operating medium		Compressed air to ISO 8573-1:2010 [-:-:-]				
PWIS conformity		VDMA24364-B1/B2-L	VDMA24364-B1/B2-L			
Ambient temperature	[°C]	+1 +60				
Temperature of medium	[°C]	+1 +60				
Storage temperature	[°C]	+10 +60				
Corrosion resistance class CRC ¹⁾		2 - Moderate corrosion stress				
CE marking (see declaration of conf	ormity) ²⁾	To EU EMC Directive				
		To EU Low Voltage Directive		-		
UKCA marking (see declaration of conformity) ²⁾		UK regs EMC				
		UK regs RoHS				
		UK regs electrical equipment				
Certification		C-Tick				
KC mark		KC EMC				

1) More information www.festo.com/x/topic/crc

2) More information: www.festo.com/catalogue/pwea -----> Downloads.

If the devices are subject to usage restrictions in residential, commercial or light-industrial environments, further measures for the reduction of the emitted interference may be necessary.

Materials		
Housing	Plastic	
Condensate reservoir	Wrought aluminium alloy	
Seals	NBR, FPM, PU	
Note on materials	RoHS-compliant	
LABS (PWIS) conformity	VDMA24364-B1/B2-L	

Dimensions



	Electrical connection	Nominal operating voltage		Weight	Part no.	Туре
		[V AC]	[V DC]	[g]		
9	Screw terminal PG9	115	-	700	538679	PWEA-AC-6A
SPA .		230	-	700	538680	PWEA-AC-7A
		-	24	700	538681	PWEA-AC-3D
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