

# Product Data Sheet

## Timer Controlled Condensate Drain CDE..T

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### Field of application

Condensate drains of the CDE-T series are designed for removing compressed air condensate not containing aggressive substances at operating pressures up to 350 bar. This means that the liquids produced in the compressed air system will automatically be discharged to an atmospheric pressure level.

### Features

In principle, condensate is always produced in a compressed air system. It occurs in the form of quantities of liquid, mainly consisting of water with some amounts of oil, or in the form of concentrated liquids, separated by filtration. The result often is rust formation and corrosion within the compressed air system leading to additional contamination of the condensate. To avoid condensate carryover and thus prevent the compressed air from being contaminated with coarse pollutants, the condensate must be removed immediately and directly from the compressed air system using condensate drains.

Condensate drains of the CDE..T series consist of a pressure-proof and direct controlled solenoid valve, combined with an electronic control unit with 2 variable interval timers. Over the two interval timers the interval time between the drain interval (0.5 to 45 minutes) and drain duration (0.5 to 10 seconds) can be specified separately from each other. As soon as supply voltage is present the valve opens according to the adjusted timing for drain duration. Afterwards the drain valve works according to the adjusted interval and duration times.

The condensate drains comply with the requirements of the Pressure Equipment Directive 2014/68/EU and the EMC Directive 2014/30/EU.



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Specifications subject to change without notice

Date 02.08.2018

Latest version see at [www.fstweb.de](http://www.fstweb.de)

### Basic data

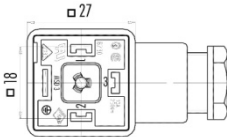
Model	Min./max. operating pressure	Nominal volume flow <sup>*1</sup>	Nominal condensate quantity	Min./max. operating temperature	Min./max. medium temperature
CDE 40T-B15	16 bar	2,500 m <sup>3</sup> /h	28 litres/h	+2°C - +55°C	+2°C - 90°C
CDE 500T-B25	16 bar	30,000 m <sup>3</sup> /h	340 litres/h		
CDE 200/50T-B15	50 bar	12,000 m <sup>3</sup> /h	155 litres/h		
CDE 80/100T-B08	100 bar	4,800 m <sup>3</sup> /h	64 litres/h		
CDE 80/350T-B08	350 bar	4,800 m <sup>3</sup> /h	65 litres/h		

\*1 - refers to 1 bar(a) and 20°C at 7 bar operating pressure, intake air of compressor 25°C at 60% relative humidity, 35°C compressed air discharge temperature of aftercooler

### Maintenance rules

All models	Cleaning if required (depending on the contamination of the condensate)
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### Product specific data

Specification	
Valve cross section	CDE40T :    ∅ 1.2 mm (1.1 mm <sup>2</sup> ) CDE500T :   ∅ 1.2 mm (1.1 mm <sup>2</sup> ) CDE200/50T : ∅ 1.0 mm (0.8 mm <sup>2</sup> ) CDE80/100T : ∅ 1.0 mm (0.8 mm <sup>2</sup> ) CDE80/350T : ∅ 0.5 mm (0.2 mm <sup>2</sup> )
Electrical power supply	230V (±10%) 50/60 Hz, alternative 115V (±10%) 50/60Hz or 24V DC
Power consumption	4 VA
Electrical connection	Plug connector type A - 2+PE (3+PE) DIN EN 175301-803, ISO 440/6952 (ex DIN 43650 A) 
Protection Class	IP 65 (NEMA 4) – insulation class H

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### Materials

Component	
Housing	CDE40T, CDE500T und CDE200/50T : brass CDE80/100T und CDE80/350T : stainless steel (304)
Fittings	brass, stainless steel
Timer (housing)	ABS (Acrylnitrilbutadienacrylat)
Sealing materials	CDE40T - CDE80/100T: NBR CDE80/350T : PEEK Teflon

### Connections, dimensions and weights

Model	Connection condensate inlet	Connection condensate outlet	Height (A)	Width (B)	Depth (C)	Weight
CDE 40T-B15	G 1/2	G 1/2	75 mm	118 mm	83 mm	0.6 kg
CDE 500T-B25	G 1	G 1/2	87 mm	118 mm	83 mm	0.7 kg
CDE 200/50T-B15	G 1/2	G 1/4	67 mm	115 mm	83 mm	0.4 kg
CDE 80/100T-B08	G 1/4	G 1/4	58 mm	113 mm	83 mm	0.4 kg
CDE 80/350T-B08	G 1/4	G 1/4	59 mm	113 mm	83 mm	0.5 kg

### Classification according to Pressure Equipment Directive 2014/68/EU for group 2 fluids

Model	Volume	Category
All models	< 0.01 litres	---

### Other Directives

Model	
All models	Directive 2014/30/EU for electromagnetic compatibility (EMC Directive)

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### Models



CDE 40 T - G ½  
CDE 500 T - G 1



CDE 200/50 T



CDE 80/100 T



CDE 80/350 T