



# ZERO LOSS CONDENSATE DRAIN

Zero Loss Condensate Drains  
for compressed air filters

**THE PROBLEM**

In compressed air systems condensate and the contaminants contained in it can cause considerable damage to the compressed air lines, production machinery, production batches or within production processes if not properly handled.

The tasks of condensate drains is to remove the condensate from the pressurised air system safely and at low expense.

**ZERO LOSS CONDENSATE DRAINS WITH LEVEL CONTROL  
ENSURE LOSS FREE CONDENSATE DISCHARGE**
**■ Zero Loss Condensate Drains with diaphragm valve discharge condensate reliably**

Condensate drainage via a diaphragm valve with large cross-section ensures that contaminants are flushed out and thus ensures fault-free operation of the valve. At the same time, the condensate is prevented from forming an emulsion that would need expensive condensate treatment.

**■ Zero Loss Condensate Drains with alarm contact monitor condensate drainage**

All ESD Zero Loss Condensate Drains (except ESD100) comes with volt free alarm contact.

**FEATURES AND ADVANTAGES**

- Non-wearing magnetic core level control for optimised and loss free discharge of condensate
- Integrated dirt screen between level measurement and drain valve to protect the diaphragm valve with alarm monitoring
- Diaphragm valve with large cross-section and condensate pilot control
- Volt free alarm contact (except ESD100)


**TECHNICAL DATA**

Range of application: Compressed air up to 16 bar – normal condensates

Model	Compressor aftercooler	Capacity Refrigeration dryer <sup>*1</sup>	Filter <sup>*2</sup>	max. working pressure	Temperature range	Connections
ESD 100	180 m <sup>3</sup> /h	360 m <sup>3</sup> /h	1800 m <sup>3</sup> /h	16 bar	1-60°C	G 1/2
ESD 150L	450 m <sup>3</sup> /h	900 m <sup>3</sup> /h	4500 m <sup>3</sup> /h	16 bar	1-60°C	G 1/2
ESD 333	900 m <sup>3</sup> /h	1800 m <sup>3</sup> /h	9500 m <sup>3</sup> /h	16 bar	1-60°C	G 1/2
ESD 1000	1800 m <sup>3</sup> /h	3600 m <sup>3</sup> /h	18000 m <sup>3</sup> /h	16 bar	1-60°C	G 1/2
ESD 5277	9500 m <sup>3</sup> /h	19000 m <sup>3</sup> /h	95000 m <sup>3</sup> /h	16 bar	1-60°C	G 1/2

<sup>\*1</sup> referred to 1 bar and 20°C at 7 bar working pressure, suction air compressor 25°C at 60% RH, air discharge temperature aftercooler 35°C, pressure dew-point refrigeration dryer 3°C

<sup>\*2</sup> Condensate from aftercooler or refrigeration dryer to be drained upstream only for residual oil content or small quantities of condensate Standard version with BSP thread for 230V/50-60Hz supply voltage.

Alternatively, versions with NPT thread or 115V/50-60Hz or 24V/50-60Hz are available.