

KONDRAIN®



Condensate Drains

Reliable draining of condensate without loss of pressure is of enormous importance to modern compressed air systems.

Compressed air is generated by compressing ambient air. The moisture (humidity) in the atmospheric air is also compressed and is then channelled into the downstream compressed air system. Condensate then forms from this humidity in varying quantities at different points in the compressed air network. This condensed moisture occurs mainly in the compressor cooler but is also found in compressed air cylinders and tanks and in the refrigeration dryer, filters and piping. Since even small quantities of condensate are enough to damage the downstream devices the condensate must be drained out of the compressed air system.

Safe draining

Safe draining is ensured by using **KONDRAIN®** electric condensate drains. They prevent condensate from entering the system, thereby providing reliable protection to downstream devices. The **KONDRAIN®** family of condensate drains is suitable for all types of condensation, from 100% oil to 100% water.

Economical draining

Economical condensate draining can only be guaranteed if the draining process does not cause any unnecessary drop in the pressure of the compressed air. The **KONDRAIN®** series of level-regulated condensate drains are designed to monitor the level of condensate in the tank at all times. When a defined maximum point is reached, a valve is opened, and the condensate is forced into the discharge line by system pressure. When the level is down to a minimum point, the valve closes again, and a small residue of condensate remains in the drain. This system prevents unnecessary pressure loss. The condensate is released exactly as a function of the actual amount of condensate.



KONDRAIN® product lines

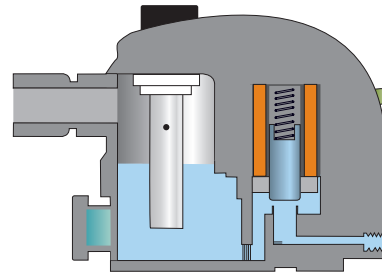
- **KONDRAIN® SENS**
3 types of electric level-controlled condensate drain (contactless, sensor controlled)
- **KONDRAIN® N**
6 types of electric level-controlled condensate drain (float-operated drains, with potential-free alarm contact)
- **KONDRAIN® KMT**
Electric timer-controlled condensate drain (with freely programmable interval times)

KONDRAIN® SENS

level-controlled condensate drains (controlled by sensor)



The **KONDRAIN® SENS** line consists of sensor controlled condensate drains. This means that the condensate level is monitored by sensors without contacting the condensate. There are no moving parts in the condensate tank. On reaching the relevant measuring points, a signal is triggered, causing the valve to open and close.



Schematic illustration of the operating principle of the **KONDRAIN® SENS**

Features:

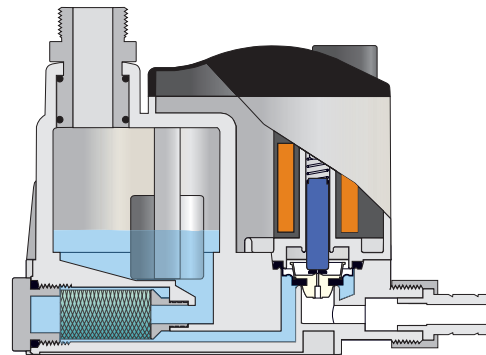
- Contactless measurement of the condensate level
- No moving parts
- Monitoring controller
- Membrane protected by built-in filter fabric
- Test switch for manual draining
- LED for “Drain” and “Alarm” states
- Voltage indicator
- Suitable for all types of condensate, from 100% oil to 100% water

KONDRAIN® N

level-controlled condensate drains



The **KONDRAIN® N** line consists of float-operated condensate drains. In this system, the condensate level is monitored by a float that slides along a guide. On reaching the relevant measuring points, a signal is triggered by a magnetic field, causing the pilot valve to open and close.



Schematic illustration of the operating principle of the **KONDRAIN® N**

Features:

- Potential-free alarm output (except for **KONDRAIN® N1**)
- Self-monitoring controller
- Membrane protected against fouling and malfunction by built in cup filter
- Test switch for manual draining
- Auto-Reset function
- Alarm function
- Voltage indicator (except for **KONDRAIN® N1**)
- Suitable for all types of condensate, from 100% oil to 100% water

KONDRAIN® KMT

Timer-controlled condensate drains with freely programmable interval times



Features:

- Compact dimensions
- Simple to adjust
- Settings can be changed at any time
- Opening intervals can be read off at a glance
- Test switch for manual draining
- Maximum reliability
- Extremely economical
- Environment-friendly

KONDRAIN® SENS

Level-controlled condensate drains (controlled by sensor)

SPECIFICATION MODEL	KONDRAIN SENS 5	KONDRAIN SENS 10	KONDRAIN SENS 50
Capacity: Compressor	5 m ³ /min	10 m ³ /min	50 m ³ /min
Capacity: Dryer	10 m ³ /min	20 m ³ /min	150 m ³ /min
Capacity: Filter	50 m ³ /min	100 m ³ /min	500 m ³ /min
Operating pressure	0,2 to 16 bar		
Operating temperature	1 to 60°C		
Available voltage types	115 V 50/60 Hz 230 V 50/60 Hz		
Safety class	IP 54		

KONDRAIN® N

Level-controlled condensate drains

SPECIFICATION MODEL	N1	N5	N10	N15	N30	N200
Capacity: Compressor	10 m ³ /min	5 m ³ /min	10 m ³ /min	15 m ³ /min	30 m ³ /min	200 m ³ /min
Capacity: Dryer	20 m ³ /min	10 m ³ /min	20 m ³ /min	30 m ³ /min	60 m ³ /min	400 m ³ /min
Capacity: Filter	100 m ³ /min	50 m ³ /min	100 m ³ /min	150 m ³ /min	300 m ³ /min	2000 m ³ /min
Operating pressure	0,2 to 16 bar					
Operating temperature	1 to 60°C					
Available voltage types	24 V ac 115 V 50/60 Hz 230 V 50/60 Hz					
Safety class	IP 65					

KONDRAIN® KMT

Timer-controlled condensate drains with freely programmable interval times

SPECIFICATION MODEL	KMT
Capacity: Compressor	60 m ³ /min
Capacity: Dryer	120 m ³ /min
Capacity: Filter	600 m ³ /min
Operating pressure	0,2 bis 16 bar
Operating temperature	1 bis 60°C
Available voltage type	115 V 50/60 Hz 230 V 50/60 Hz
Safety class	IP 65

