



## Condensate Drains

Intelligent condensate drainage up to 350 bar

### Simply brilliant, brilliantly simple! The globally proven alternative for the most reliable and cost effective Drainage of Compressor Condensate

As a result of the physical condition of compression and condensation processes significant amounts of condensate always accumulate in the compressed air system. In addition to the amount of water (precipitated moisture) it also contains dirt, fine dust, particles and oil.

To achieve application-specific compressed air quality, but also to protect production processes, installations and products from damage, failure or even destruction at the same time, it is imperative that condensate be drained from the compressed air system.



#### 1. Premium reliability

The **KONDRAIN®** series offers the highest level regulated, fully automated reliability. This helps avoid condensate breaches and contamination in the compressed air system that is difficult to reverse. At the same time **KONDRAIN®** reliably protects compressed air-driven installations, control systems, production processes and, ultimately, product quality. The KSI series features an extreme performance spectrum and is therefore capable of reliably discharging condensate types ranging in consistency from 100% oil to 100% water. This provides the highest degree of safety for your compressed air system.

#### 2. Premium cost effectiveness

Compressed air generation is as necessary as it is cost intensive. **KONDRAIN®** in a level-controlled, electronic version offers the most effective solution in order to make the most cost effective use possible:

- The intelligent level regulation ensures no unnecessary air loss and therefore no energy loss.
- Condensate is only removed safely and securely when it has accumulated in the drain. This makes the best cost effectiveness for the compressed air system possible at the best price/performance ratio.

As a result KSI **KONDRAIN®** condensate drains contribute globally to significantly increasing the efficiency of production sites.



#### The **KONDRAIN® Plus effect +++**

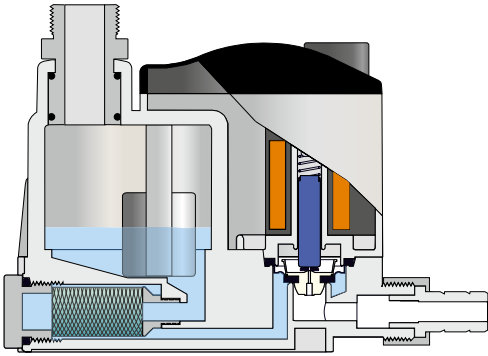
- + no unnecessary compressed air loss saves operating costs
- + proven technology, suitable for every condensate type
- + maximizes operational reliability by protecting installations, processes and products
- + assures demand-appropriate compressed air quality
- + robust quality, long service life
- + intelligent control, fully automatic monitoring
- + immune to dirt because of integrated sieve filter
- + very service-friendly
- + excellent price/performance ratio

## KONDRAIN® N

### Level-regulated electronic condensate drain

KONDRAIN® N is a high-performance condensate drain that measures the condensate level internally and discharges it using level control, resulting completely without compressed air loss, at maximum condensate volume. The level regulation is reliably assured via the industrial reed contact and float technology that has proven itself millions of

times all over the world. This means that a contact float unit that is process-conforming specifically for condensate technology triggers the opening of the release valve when the maximum level is reached for the exact duration until the drain minimum level is reached, allowing the valve to close again.



#### Performance features:

- flexible connection, a 90° rotatable connection facilitates flexible installation
- highly durable Viton membrane => more reliability and long service life
- maximum protection for membrane and function through integrated filter
- functional test is possible at any time via a test button, which can also be used for manual emptying
- self monitoring using intelligent control
- operational protection through auto reset function
- status message in the case of alarm (except model N1)
- zero-voltage contact (except model N1)
- voltage display (except model N1)
- consistent performance level for condensate ranging from 100% oil to 100% water
- just one service kit for the entire series
- ecologically & economically reasonable

## KONDRAIN® KMT

### Time-controlled condensate drain with adjustable interval time



#### Performance features:

- simplest operation
- most compact dimensions
- interval time can be optimized anytime
- instantly understandable opening interval
- manual discharge possible at any time via test button
- highest functional reliability

# KONDRAIN® N

Level-regulated condensate drain



| Specification   Model            | N1   | N5                      | N10                     | N30                     | N160                     | N300                     |
|----------------------------------|--|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|
| <b>Output: Compressor</b>        | 10 m <sup>3</sup> /min   | 7,5 m <sup>3</sup> /min | 15 m <sup>3</sup> /min  | 30 m <sup>3</sup> /min  | 158 m <sup>3</sup> /min  | 300 m <sup>3</sup> /min  |
| <b>Output: Dryer</b>             | 20 m <sup>3</sup> /min   | 15 m <sup>3</sup> /min  | 30 m <sup>3</sup> /min  | 60 m <sup>3</sup> /min  | 316 m <sup>3</sup> /min  | 600 m <sup>3</sup> /min  |
| <b>Output: Filter</b>            | 100 m <sup>3</sup> /min  | 75 m <sup>3</sup> /min  | 150 m <sup>3</sup> /min | 300 m <sup>3</sup> /min | 1580 m <sup>3</sup> /min | 3000 m <sup>3</sup> /min |
| <b>Zero-voltage alarm output</b> | no   | yes                     | yes                     | yes                     | yes                      | yes                      |
| <b>Operating pressure</b>        | 0,2 to 16 bar  |                         |                         |                         |                          |                          |
| <b>Operating temperature</b>     | 1 to 60°C  |                         |                         |                         |                          |                          |
| <b>Available voltage types</b>   | 24 V AC (24 V DC on request)<br>115 V 50/60 Hz<br>230 V 50/60 Hz |                         |                         |                         |                          |                          |
| <b>Protective class</b>          | IP 65  |                         |                         |                         |                          |                          |

## Options



## Additional versions

**KN5 with condensate inlet in the tank**  
incl. connection for necessary balance air pipe



**KN5 compact version**  
for short of space assemblies



Article-No: KN5LOW.(voltage)

Article-No: KN5SV.(voltage)

# KONDRAIN® N-HP

Level-regulated and time-controlled condensate drain · high pressure



**Type N-HP**  
level-regulated – high pressure

## KONDRAIN® KN100-HP50 (up to 50 bar) – Normally open

level-regulated · discharge without pressure loss | alarm function included

| Type               | Capacity*<br>m <sup>3</sup> /min | Inlet | Power supply     |
|--------------------|----------------------------------|-------|------------------|
| KN100-HP50-230-NO  | 100                              | 1/2"  | 230 V · 50-60 Hz |
| KN100-HP50-115-NO  | 100                              | 1/2"  | 115 V · 50-60 Hz |
| KN100-HP50-24ac-NO | 100                              | 1/2"  | 24 V AC          |
| KN100-HP50-24dc-NO | 100                              | 1/2"  | 24 V DC          |

\*compressor capacity

## KONDRAIN® KN100-HP50 (up to 50 bar) – Normally closed

level-regulated · discharge without pressure loss | alarm function included

| Type               | Capacity*<br>m <sup>3</sup> /min | Inlet | Power supply     |
|--------------------|----------------------------------|-------|------------------|
| KN100-HP50-230-NC  | 100                              | 1/2"  | 230 V · 50-60 Hz |
| KN100-HP50-115-NC  | 100                              | 1/2"  | 115 V · 50-60 Hz |
| KN100-HP50-24ac-NC | 100                              | 1/2"  | 24 V AC          |
| KN100-HP50-24dc-NC | 100                              | 1/2"  | 24 V DC          |

\*compressor capacity

# KONDRAIN® KMT

Time-controlled condensate drain with adjustable interval times

| Specification   Model     | KMT                              |
|---------------------------|----------------------------------|
| Output: Compressor        | 60 m <sup>3</sup> /min           |
| Output: Dryer             | 120 m <sup>3</sup> /min          |
| Output: Filter            | 600 m <sup>3</sup> /min          |
| Operating pressure        | 0,2 bis 16 bar                   |
| Operating temperature     | 1 bis 65°C                       |
| Available voltage classes | 115 V 50/60 Hz<br>230 V 50/60 Hz |
| Protective class          | IP 65                            |



# KONDRAIN® KMT-HP

Time-controlled condensate drain · high pressure



**KONDRAIN® KMT-HP80 (up to 80 bar · stainless steel valve)**  
time-controlled with adjustable interval times

| Type          | Capacity* m <sup>3</sup> /min | Inlet | Power supply     |
|---------------|-------------------------------|-------|------------------|
| KMT-HP80-230  | unlimited                     | 1/4"  | 230 V · 50-60 Hz |
| KMT-HP80-115  | unlimited                     | 1/4"  | 115 V · 50-60 Hz |
| KMT-HP80-24ac | unlimited                     | 1/4"  | 24 V AC          |
| KMT-HP80-24dc | unlimited                     | 1/4"  | 24 V DC          |

\*compressor capacity

**KONDRAIN® KMT-HP250 (up to 250 bar · stainless steel valve)**  
time-controlled with adjustable interval times

| Type           | Capacity* m <sup>3</sup> /min | Inlet | Power supply     |
|----------------|-------------------------------|-------|------------------|
| KMT-HP250-230  | unlimited                     | 1/4"  | 230 V · 50-60 Hz |
| KMT-HP250-115  | unlimited                     | 1/4"  | 115 V · 50-60 Hz |
| KMT-HP250-24ac | unlimited                     | 1/4"  | 24 V AC          |
| KMT-HP250-24dc | unlimited                     | 1/4"  | 24 V DC          |

\*compressor capacity

**KONDRAIN® KMT-HP350 (up to 350 bar · stainless steel valve)**  
time-controlled with adjustable interval times

| Type           | Capacity* m <sup>3</sup> /min | Inlet | Power supply     |
|----------------|-------------------------------|-------|------------------|
| KMT-HP350-230  | unlimited                     | 1/4"  | 230 V · 50-60 Hz |
| KMT-HP350-115  | unlimited                     | 1/4"  | 115 V · 50-60 Hz |
| KMT-HP350-24ac | unlimited                     | 1/4"  | 24 V AC          |
| KMT-HP350-24dc | unlimited                     | 1/4"  | 24 V DC          |

\*compressor capacity