

KONDRAIN®

Condensate Drains

Fully automatic condensate drainage from compressed air and gas systems without loss of compressed air

The globally proven alternative for the most reliable and cost effective drainage of compressor condensate



PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

When quality is the decisive factor

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 is drained from the compressed air system.

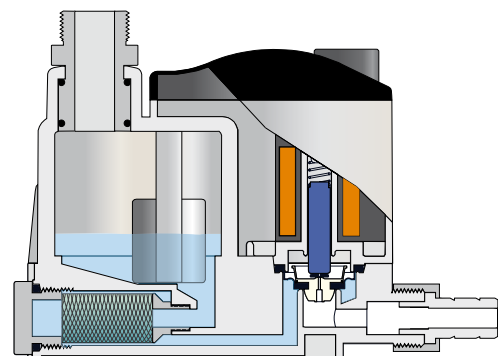
Function

KONDRAIN® N is equipped with an integrated storage tank. A level sensor installed inside is controlled by an intelligent electronic circuit based on an 8-bit microprocessor logic. All drain functions are displayed on control panel. A test push button is available on control panel for manual drainage. **KONDRAIN® N** starts working as soon as a sensor detects water at max. level and controls the solenoid valve opening to take the water level back down to a minimum

level, leaving a small residual quantity to prevent the system from discharging compressed air. In case of trouble, the control circuit unlocks the drain pipes by carrying out a series of forced opening/closing cycles of the solenoid valve. If this is not enough, the problem is reported outside by an alarm with potential-free contact that can be used to draw the attention of maintenance staff in order to instruct the plant control logic.

The KONDRAIN® N 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



PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

KONDRAIN® N

Level-regulated electronic condensate drain

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

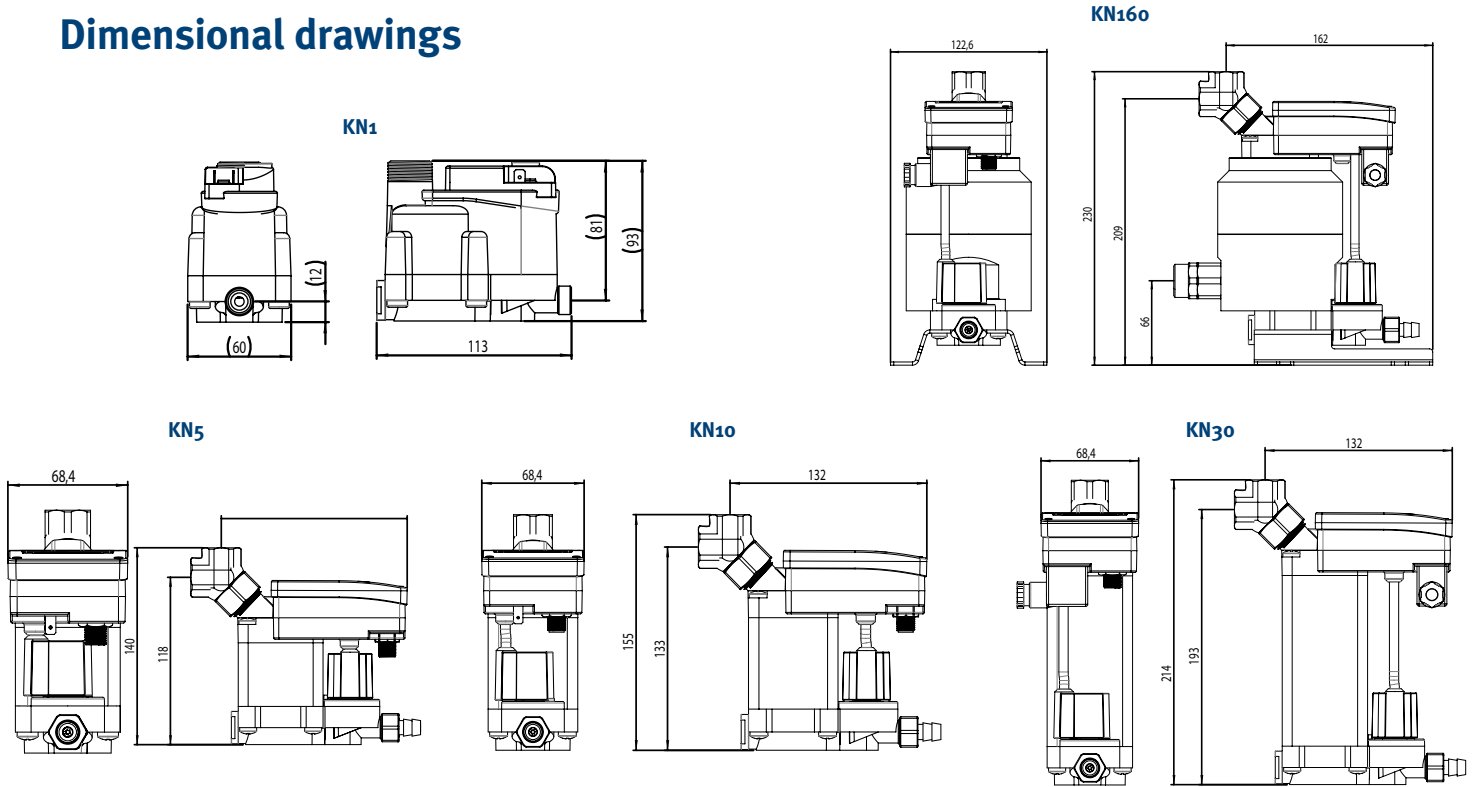


Specification Model	N1	N5	N10	N30	N160	N300
Output: Compressor	10 m ³ /min	7,5 m ³ /min	15 m ³ /min	30 m ³ /min	158 m ³ /min	300 m ³ /min
Output: Dryer	20 m ³ /min	15 m ³ /min	30 m ³ /min	60 m ³ /min	316 m ³ /min	600 m ³ /min
Output: Filter	100 m ³ /min	75 m ³ /min	150 m ³ /min	300 m ³ /min	1580 m ³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

PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

Dimensional drawings



Options for KONDRAIN® N



Heaters



only one spare parts kit for the N series



optional connection of reciprocating line



Floor mounting set

PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

KONDRAIN® KMT

Time-controlled condensate drain with adjustable interval time

Function

KONDRAIN® KMT is an automatic drain system capable of removing cyclically condensate water.

KONDRAIN® KMT integrates a digital timer and a servo-controlled solenoid valve, which is periodically opened according to T-on and T-off times planned through its control panel.

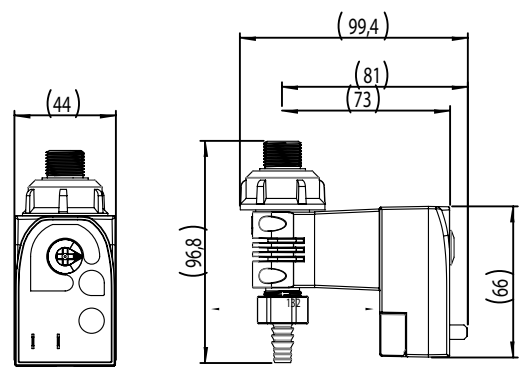
With KONDRAIN® KMT time regulation is extremely precise thanks to its selector with eight different sectors which allows the choice among eight different pause times (T-off) and a button for setting three drainage levels (T-on). The same button has a double testing function, useful to check if the drainage system works rightly.

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



Dimensional drawing



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

PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

KONDRAIN® N-HP

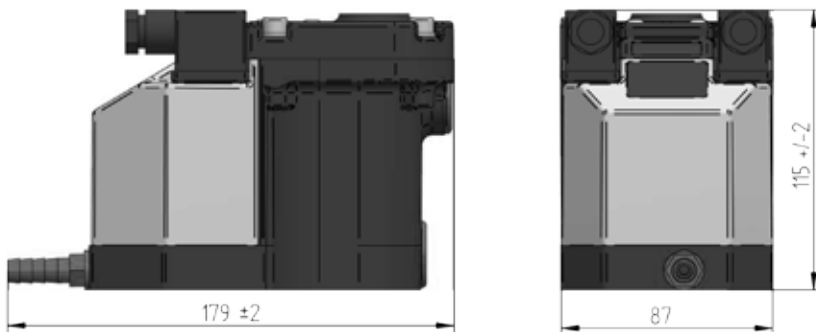
Level-regulated and time-controlled condensate drain · high pressure

Performance features:

- operating pressure up to 50 bar
- competitive compact zero air-loss draining solution
- capacitive level sensing technology saves air, energy and money
- no sizing charts required
- special module colours available for private label branding purposes
- alarm function (NO or NC) as a standard
- easy installation
- visual display of operating status
- integrated strainer
- direct acting valve assembly, ensuring reliable discharge operation
- robust aluminium housing



Dimensional drawing



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

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

Type	Capacity* m ³ /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 | used as opener

Type	Capacity* m ³ /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

PRODUCT DATASHEET

KONDRAIN® · Condensate Drains

KONDRAIN® KMT-HP

Time-controlled condensate drain · high pressure, with stainless steel valve

KONDRAIN® KMT-HP80 (up to 80 bar)

-HP250 (up to 250 bar)

-HP350 (up to 350 bar)

time-controlled with adjustable interval times

Interval times 0,5 to 45 minutes

Opening duration 0,5 bis 10 seconds

Type	Capacity* m ³ /min	Inlet	Power supply
KMT-HP80/250/350-230	unlimited	1/4"	230 V · 50-60 Hz
KMT-HP80/250/350-115	unlimited	1/4"	115 V · 50-60 Hz
KMT-HP80/250/350-24ac	unlimited	1/4"	24 V ac
KMT-HP80/250/350-24dc	unlimited	1/4"	24 V dc

*Compressor capacity



Dimensional drawing

