CONDENSATE DRAIN
BEKOMAT® 8
BEKOMAT® 9

UP TO 12,600 l/h OF CONDENSATE

Beyond our standard range, BEKO offers a number of special BEKOMAT condensate drains for applications that are not adequately covered by the usual products in the market.

BEKOMAT® 8 and BEKOMAT® 9 are electronically level-controlled condensate drains for large compressors. They are used particularly in crude oil installations and refineries, the petrochemical industry, the chemical engineering sector, etc.

These are the largest electronic condensate drains available anywhere. The basic types presented here are examples that have already been realized. However, in this performance category BEKO also offers condensate drains designed and built to meet your specific requirements.

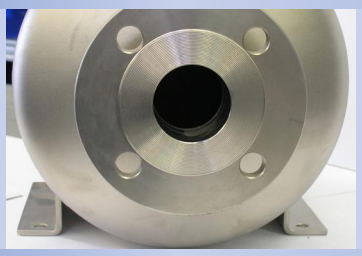
+1:

CONDENSATE DRAIN WITH A PERFORMANCE LEVEL THAT IS UNIQUE WORLDWIDE

+2:

ELECTRONICALLY CONTROLLED

+3:



CUSTOMIZED DEVICES POSSIBLE

+4:

ALL TYPES ARE ALSO AVAILABLE IN EXPLOSION-PROTECTED VERSIONS. ATEX CERTIFIED WITH BVS 03 ATEX E 214 X AND CLASSIFICATION II 2 G EEx ib IIB T4

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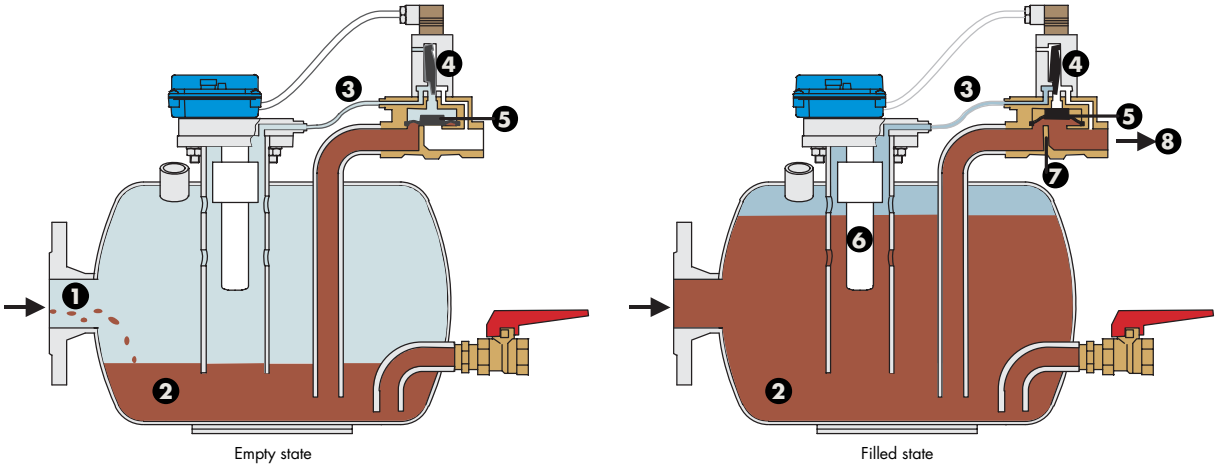
FUNCTION



Empty state

Filled state

BEKOMAT® 8 shown as an example

Empty state:

Condensate trickles through the inlet opening ❶ and collects in the container ❷.
The diaphragm valve ❺ is closed, since the pilot supply line ❸ and the pivoted-armature valve ❹ ensure pressure compensation above the valve diaphragm ❺. The larger surface area above the diaphragm results in a high closing force, so that the valve seat is tight and leakproof.

Filled state:

When the container ❷ has filled with condensate and the capacitive level sensor ❻ signals at the maximum point, the solenoid valve is energized and the area above the valve diaphragm is vented. The valve diaphragm lifts off the valve seat ❼, and the pressure in the housing forces the condensate into the discharge pipe ❽. The valve will again be fully closed and leakproof before any compressed air can escape. Should the condensate discharge fail to function properly (blocked discharge pipe, faulty diaphragm), the device will change to the alarm mode after 60 seconds. In this case, the LED flashes and, if desired, the alarm signal is relayed via a potential-free contact. With explosion-protected devices (Ex), this is possible via a built-in optocoupler and a switching amplifier.
While in the alarm mode, the solenoid valve will open every 4 minutes for a period of 7.5 seconds. Consequently, a BEKOMAT® unit filled in an unpressurized state will, under pressure, automatically revert to normal operating conditions and thus clear the alarm.

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XP KA SP 007 INT. Edition 06.05

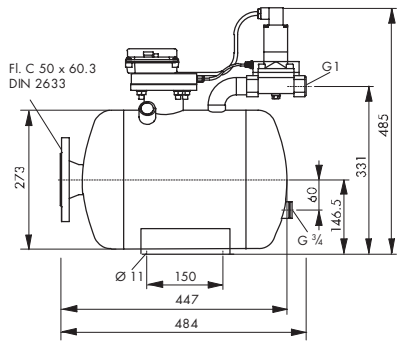
CONDENSATE DRAIN
BEKOMAT® 8
BEKOMAT® 9

TECHNICAL DATA

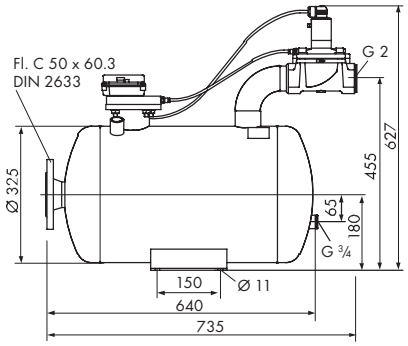
Type	Working press. (bar) min.	Working press. (bar) max.	Weight (kg)	Fluid type	Application
8	0.5	10	28	ö/öf	stainless steel
9	0.5	4	38	ö/öf	stainless steel
8 EX	0.5	10	28	ö/öf	stainless steel
9 EX	0.5	4	38	ö/öf	stainless steel

ö = oil-contaminated condensate
öf = oil-free, often aggressive condensate

Type	Connections Inlet	Connections Outlet	Nominal throughput (l/h) 2 bar	Nominal throughput (l/h) 4 bar	Nominal throughput (l/h) >7 bar	Peak throughput (l/h) 2 bar	Peak throughput (l/h) 4 bar	Peak throughput (l/h) >7 bar
8	Flange C50x60.3	1x G1	1250	1300	1500	3300	480	6000
9	Flange C50x60.3	1x G2	3370	3420		8800	12600	
8 EX	Flange C50x60.3	1x G1	710	980	1200	3330	4800	6000
9 EX	Flange C50x60.3	1x G2	1910	2580		8800	12600	



BEKOMAT® 8



BEKOMAT® 9

These dimensioned drawings represent examples. Drawings of other versions upon request.

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