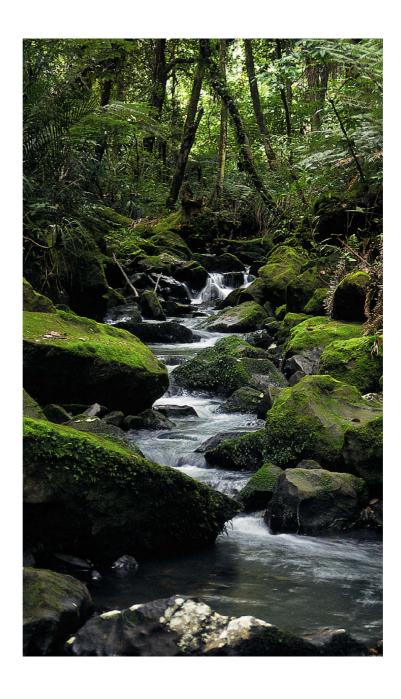
Unotstrasse 8 CH-8248 Uhwiesen Tel. +41 (0)52 345 02 04 Fax +41 (0)52 345 02 05 info@di-tec.ch www.di-tec.ch



Together for a clean environment!





Creating customized solutions together!

DI-TEC GmbH is a leading company in planning and creating gas, sludge and biology engineering for municipal and industrial waste water treatment and fermentation plants.

As a small company, we are flexible and can respond to customer demands. The target of each project is to combine the optimal procedural solution with the best customer benefit. This applies for an overall concept as well, as for partial solutions, to which we are called in as a competent partner.

We provide expert consulting service in procedural questions and set highest value to maintenance and after sales service of installed facilities.

For the equipment of plants we work together with the best suppliers and manufacturers in order to present the optimal solution for each customer's requirements. We have no binding contracts with our suppliers, to be free to present our customers the best cost-benefit ratio.

As we are centrally located; closed to Zürich (Switzerland), and benefiting from excellent transport links, we supply our products to facilities throughout whole Europe.

Since the company DI-TEC GmbH was founded in 1996, we could continuously strengthen our technical skills within the field of waste water treatment.



Head office of DI-TEC GmbH

We have our own so called "white" production site, where only stainless steel is processed.

To avoid contamination of the white production site, we have a separate production site for the processing of conventional steel.



production site for stainless steel

Condensate water gates

Condensate water gates are used wherever condensate must be discharged out of pipes or tanks. During discharge no gas may escape, as gas is harmful to health and an explosive gas mixture could develop.

Our condensate water gates replace all known hydraulic closure devices. Hydraulic systems are not safe, as with water deficiency, contamination, operation or maintenance errors occurring, gas can discharge uncontrolled. Danger of Explosions or intoxications can occur.

With our DI-TEC condensate water gates, these sources of danger are completely eliminated!



Our condensate water gates exist in two different types and can be customized, so that for every need there is a solution.

Thanks to premium V4A steels and seals of long duration, we guarantee problem free operation for years.

 condensate reservoir with level display and pneumatically driven condensate water gate (automated by PLS).



Condensate water gate, driven by electrical motor (automated by PLS).

Our DI-TEC condensate water gates have the DVGW certificate DIN EN 161 01.08.1996 certified 2009. They can be used to drain water from tubes at its lowest point (picture below right), in combination with different tanks or on gravel filters (picture below left) and in countless other applications.

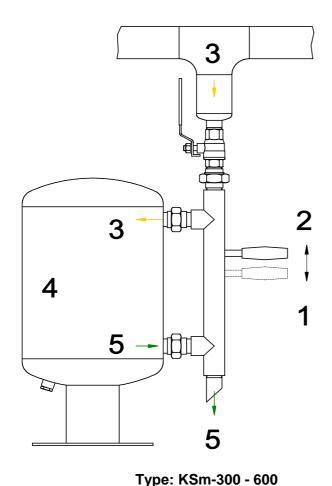
Safety thanks to international DVGW certification and Baumusterprüfzertifikat (only in German) of the jear 2009!

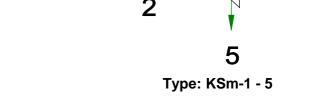


Depending on the individual requirements of the plant, the operation of the condensate water gates can be automated with pneumatic or EX-protected engines. These engines can be equipped with the respective level drives, level indicators (picture below right), visual level displays (picture above left) and needed connections (controlling / programming on site).



Functional scheme:





In position 1 of the control lever the condensate supply system is open and the condensate 3 flows from the gas system into the condensate reservoir 4, the condensate outlet 5 is gastight closed.

The condensate reservoir gets filled with condensate.

When the control lever moves into position 2, the condensate supply system is first gastight closed, then the condensate outlet 5 is opened and the reservoir 4 gets emptied.

In **no position** of the control lever, gas can escape through the condensate gate outlet!

After the condensate discharge the condensate gate is closed again and the condensate flows again from the gas system into the condensate reservoir. Is the condensate reservoir over filled and the condensate is accumulated into the gas pipe, the condensate water gate is still functioning. In this case the reservoir must be emptied repeatedly until no condensate is flowing out of the gate anymore.

Automation of the condensate water gate with level indicators (2 pieces of magnetic float switches):

When the condensate rises in the reservoir, the lower magnet switch will give contact, then the upper. When both switches give contact (cascade connection) the signal "high level" goes to the controlling (to be installed by the customer). The controlling gives the command to the electrical motor (pneumatic actuator) to open the gate, to enable the condensate to flow out of the gate.

The level sinks, so that the upper switch drops out and then the lower. When both switches have no contact anymore, the controller gives the signal "close" to the motor.

To monitor the emptying of the gate a timing relay can be installed in the control system (by the client) so that a failure signal shows on the PLS when the gate does not close in a defined time gap, it shows that a problem has occurred during the emptying of the gate.

The position of the electrical motor (open or closed) can be transmitted to the PLS with a position indicator.



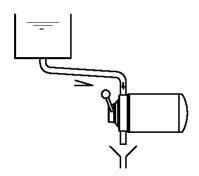
Installation guide for condensate water gates

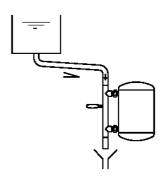
For all condensate water gates; Type KS.-...

Position of installation:

This installation guide is valid for all types of condensate water gates in our product range.

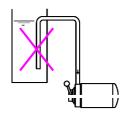
The condensate water gate must be always flown through vertically, so that the condensate inlet (yellow) is above and the outlet (green) is below. The feeding pipe should grade down in direction to the gate. The condensate must freely flow off in an outlet cone (see drawing).



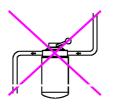




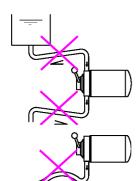
The condensate water gate may absolutely not be installed like this:



Connected to a plunged bleeder or a siphon.

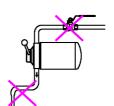


Horizontally installed.

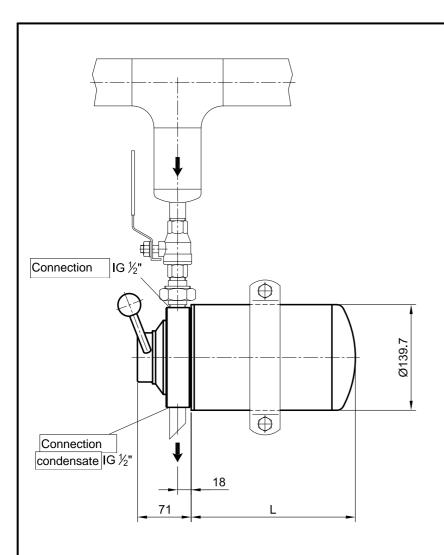


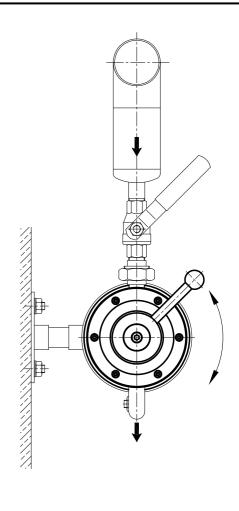
Feeding pipe runs upwards.

Outlet runs upwards or builds an obstruction or reservoir.



Reduction of in- or outlet pipe by using a ball valve or changing the diameter of the pipelines.





Holders and connection pieces by custmer on site!

Тур	Inhalt	L	
KSm-1 R	1 Liter	127	
KSm-2 R	2 Liter	217	
KSm-3 R	3 Liter	307	
KSm-4 R	4 Liter	397	
KSm-5 R	5 Liter	487	

Änderungen vorbehalten

Pos.	Gegenstand	Stk.	Werkstoff	Gewlcht in kg	Bemerkungen		
Änderungen:		Ohne unsere Genehmigung darf diese Zeichnung nicht vervielfältigt, übertragen oder überarbeitet werden. Sie ist Dritte nicht zuganglich zu machen. Zuwiderhandlungen werden strafrechtlich verfolgt.					

Condensate water gate

actuation: manual

 Massstab
 Gezelchnet
 03.02.2005
 DI-TEC GmbH

 %
 Geprüft
 .
 .

 Normgeprüft
 .
 .
 .

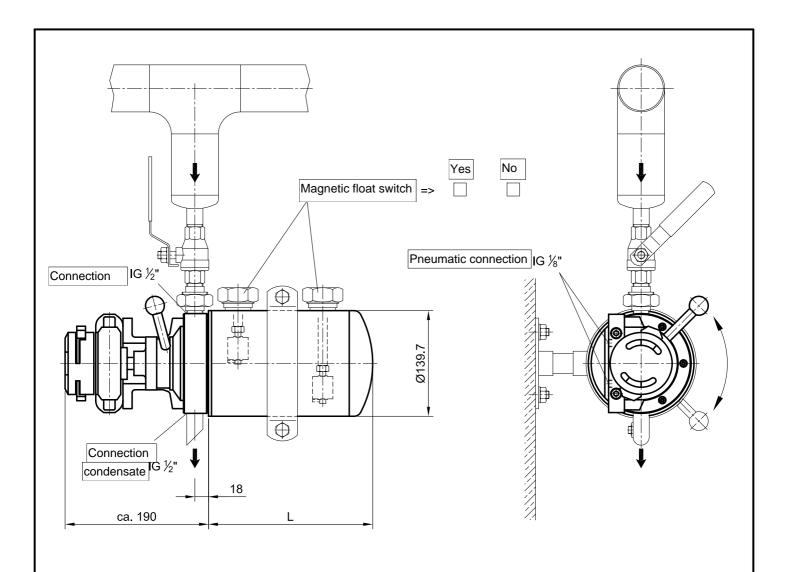
 Gesehen
 .
 .
 .

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Typ: KSm-.../....

DI — TEC GmbH
Maschinen- und Verfahrenstechnik

A4-S10.0-0



Holders and connection pieces by customer on site!

Тур	Inhalt	L	
KSp-1 R	1 Liter	127	
KSp-2 R	2 Liter	217	
KSp-3 R	3 Liter	307	
KSp-4 R	4 Liter	397	
KSp-5 R	5 Liter	487	

Änderungen vorbehalten

Bemerkungen

Änderungen: . Ohne unsere Genehmigung darf diese inlicht zugänglich zu machen. Zuwiderha		eichnung nicht vervielfältigt, übertragen oder überarbeitet werden. Sie ist Dritten Idlungen werden strafrechtlich verfolgt.				
			Massstab	Gezelchnet	03.02.2005	DI-TEC GmbH
Condensate water sate]		%	Geprüft	•	•
Condensate water gate	actuation: pn	eumatical		Normgeprüft	•	•
Typ: KSp /				Gesehen	·	

Stk.

Werkstoff

Unotstrasse 8 CH-8248 Uhwiesen Tel. +41 (0)52 345 02 04 Fax +41 (0)52 345 02 05 info@di-tec.ch www.di-tec.ch

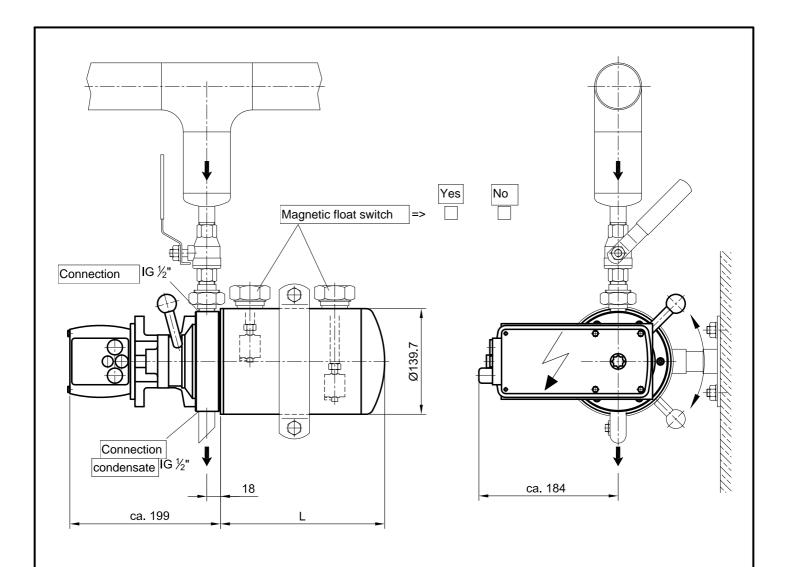
Pos.

DI — TEC GmbH
Maschinen- und Verfahrenstechnik

Gegenstand

A4-S10.1-0

Gewlcht in kg



Holders and connection pieces by customer on site!

Тур	Inhalt	L	
KSe-1 R	1 Liter	127	
KSe-2 R	2 Liter	217	
KSe-3 R	3 Liter	307	
KSe-4 R	4 Liter	397	
KSe-5 R	5 Liter	487	

Änderungen vorbehalten

Bemerkungen

Änderungen: . Ohne unsere Genehmigung darf diese Z		eichnung nicht vervielfältigt, übertragen oder überarbeitet werden. Sie ist Dritten Idlungen werden strafrechtlich verfolgt.				
			Massstab	Gezelchnet	03.02.2005	DI-TEC GmbH
Condensate water gate			%	Geprüft	•	
	actuation: ele	ectrical		Normgeprüft	•	•
Typ: KSe /				Gesehen	•	

Stk.

Werkstoff

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Pos.

DI — TEC GmbH
Maschinen- und Verfahrenstechnik

Gegenstand

A4-S10.2-0

Gewlcht in kg

