

Condensate Mixing Pipe KMS

Description

The KMS condensate mixing pipe introduces boiling condensate into a cold flow of condensate in steam and condensate systems quietly and without water hammer.

The manufacturer recommends installing the condensate mixing pipe horizontally in the condensate collecting line.

Mixing the flows of condensate as they merge reduces wear and expensive maintenance on the condensate system.

Potentially explosive atmospheres

The equipment does not have its own potential source of ignition (as per ATEX Directive). Please note the following:

Once installed, static electricity may arise between the equipment and the connected system.

If the equipment is used in potentially explosive atmospheres, the plant manufacturer or owner is responsible for discharging or preventing possible static charge.

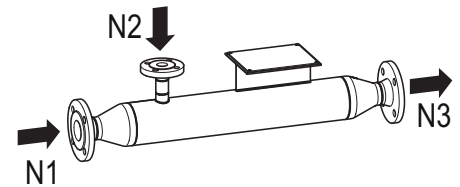
The high temperature of the fluid can cause the system to heat up to the point of ignition.

If the equipment is used in potentially explosive atmospheres, the plant manufacturer or plant operator is responsible for preventing temperatures on the surface of the equipment that could lead to ignition.

Function

The cold condensate flows through the condensate inlet N1 into the condensate mixing pipe and then into the main pipe. The boiling condensate is fed into the main pipe from above via the connection N2 and a nozzle lance. This ensures that the flows of condensate are mixed quietly and without water hammer.

The condensate enters the condensate collecting line via the condensate outlet N3.



Connections

The equipment features the following connections:

- Condensate inlet connection N1, flange PN 16, B1 (EN 1092-1)
- Boiling condensate inlet connection N2, flange PN 40, B1 (EN 1092-1)
- Condensate outlet connection N3, flange PN 16, B1 (EN 1092-1)

Materials

The equipment consists of the following materials:

Component	Material
Pipes	1.0345/P 235 GH
Flanges	1.0460/P 250 GH

Pressure and temperature ratings

Admissible pressure [bar]	-1 ... +12
Admissible temperature [°C]	-10 ... +200

Fluids

The equipment is designed for the following fluids (in accordance with the EU Pressure Equipment Directive or Pressure Equipment (Safety) Regulations in the UK):

- Group 2 fluids

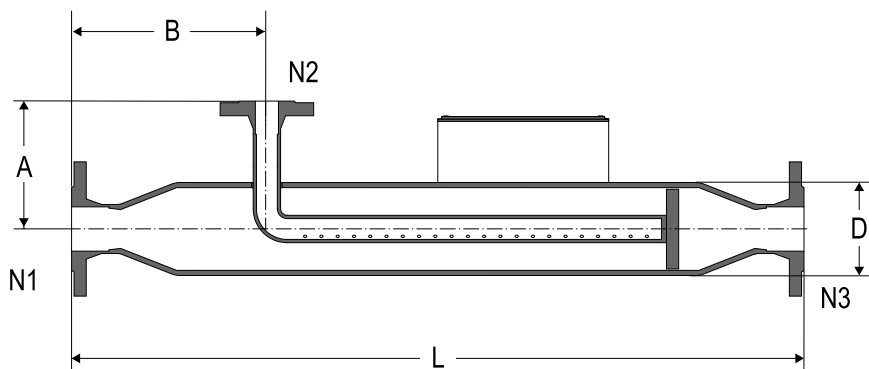
Classification of equipment in accordance with the EU Pressure Equipment Directive

Type KMS	N1, N3	DN 25	DN 25	DN 40	DN 40	DN 50	DN 50	DN 80	DN 80	DN 80	
		(80)	(80)	(80)	(80)	(100)	(100)	(125)	(125)	(125)	
	N2	DN 15	DN 20	DN 20	DN 25	DN 25	DN 32	DN 25	DN 40	DN 50	
Classification		Article 4(3)					Category I, Module A				

Chemical and corrosive influences must be taken into consideration.

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Dimensions and weights



Type KMS	N1, N3 N2	DN 25 (80)	DN 25 (80)	DN 40 (80)	DN 40 (80)	DN 50 (100)	DN 50 (100)	DN 80 (125)	DN 80 (125)	DN 80 (125)
		DN 15	DN 20	DN 20	DN 25	DN 25	DN 32	DN 25	DN 40	DN 50
Volume	[l]	3.5		3.6		5.9		9.4		
N1, N3 (DN)	[mm]	25		40		50		80		
N2 (DN)	[mm]	15	20	25		32	25	40	50	
D	[mm]	90			120		140			
L	[mm]	900								
A	[mm]	145			160		170			
B	[mm]	240								
Weight	[kg]	14.3	15.5	16.8	17.5	23.3	24.4	29.1	30.8	32.7

Planning information

- Install the equipment parallel to the floor so that connection N2 is pointing vertically upwards.

Standards and directives

Designed in accordance with AD 2000, EN 13445 (available on request).

You can find details on the conformity of the equipment and the applicable standards and directives in the Declaration of Conformity and associated certificates or approvals.

Acceptance inspections

Material inspection certificate to DIN EN 10204-3.1.

All inspection requirements must be submitted at the time of ordering.

Inspection certificates can no longer be issued after delivery.

How to order

GESTRA Condensate Mixing Pipe	KMS
Condensate connection N1/N3, PN 16	DN.....
Boiling condensate connection N2, PN 40	DN.....
Material	Steel

Pressure and temperature ratings

Admiss. pressure:	-1/12 bar
Admiss. temperature:	-10/200 °C

Surface treatment

Anti-rust coating on untreated base
 Designed in accordance with AD 2000
 Manufactured and tested in accordance with PED 2014/68/EU
 Suitable for Fluid Group 2

Please note our general terms of business.

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