

# Steam traps

## Steam traps KA 1 (NIAGARA)

High-performance steam trap for highest flow rates



### Technical Data

Connection DN	15 - 25
Nominal pressure PN	16
Operating pressure	0 - 16 bar
Flow rate	3.7 m <sup>3</sup> /h
Temperature	200 °C
Medium	steam

### Description

Steam traps automatically drain condensate without loss of steam or gas. They operate instantaneously and are not affected by backpressure or pressure fluctuations. They do not require an external energy input.

KA 1 (NIAGARA) is a float-controlled steam trap for all applications where large volumes have to be handled. Body, cover and valve cap are manufactured from cast iron; the cone is fitted with a metallic seal. KA 1 (NIAGARA) is fitted as standard equipment with a manual bleed valve.

The pipe diameter downstream of the steam trap should be dimensioned according to the volume of condensate and the length of the pipe.

### Standard

- » Manual bleed valve

### Options

- » Manual test gag
- » Thermal start-up bleeding and fixed continuous bleed orifice
- » Fixed continuous bleed orifice
- » Thermal start-up and continuous bleeding
- » Adjustable continuous bleeding
- » Drain plug in sludge collecting chamber
- » Various seal materials suitable for your medium
- » Designs for special applications and extreme operating conditions on request

Please state working pressure range when enquiring or ordering.

Operating instructions and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



### Pressure Ranges [bar]

0 - 2	0 - 4	0 - 8	0 - 13	0 - 16
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### Materials

Body	spheroidal cast iron
Forklever	CrNiMo-steel
Seat	Cr-steel
Cone	CrNiMo-steel
Float	CrNiMo-steel
Body seal	graphite

### Dimensions [mm]

size	nominal diameter DN		
	15	20	25
A*	285	295	340
B*	100	135	120
C	100	110	140
D	130	135	200
E	150	185	185
F	270	310	310
G	1/4	1/4	1/4
H	3/8	3/8	3/8

\* Overall length tolerances in acc. with DIN EN 558

### Weights [kg]

nominal diameter DN			
15	20	25	
11	12	18	

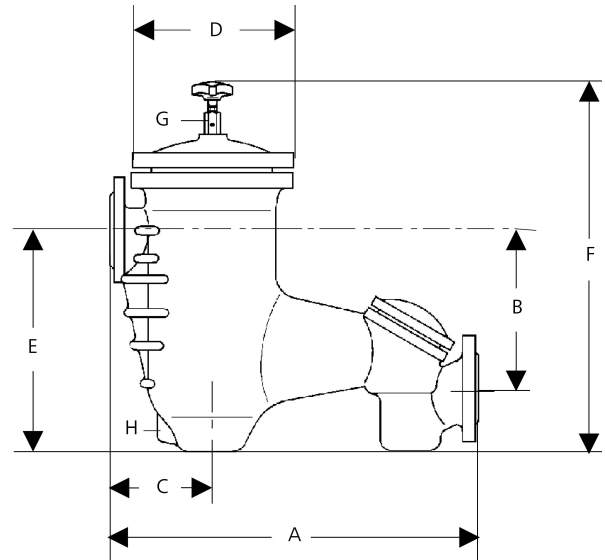
### Customs Tariff Number

84818059

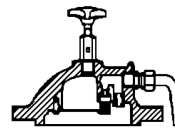
Special designs on request.

The pressure has always been indicated as overpressure. Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

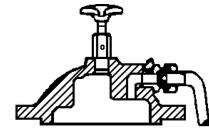
### Dimensional Drawing



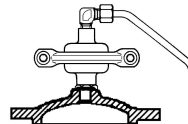
### Venting Devices



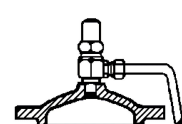
therm. start vent. and rigid perm. vent. nozzle



rigid permanent venting nozzle



thermal start up and permanent venting



adjustable permanent venting

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max. Flow Rate in m <sup>3</sup> /h*				
pressure range bar	operating pressure bar	nominal diameter DN		
		15	20	25
0-2	0.1	0.46	0.57	0.69
	0.25	0.73	0.9	1.1
	0.5	1.13	1.4	1.7
	1	1.59	2	2.4
	1.5	2.2	2.7	3.1
	2	2.47	3.05	3.7
0-4	0.1	0.28	0.36	0.47
	0.5	0.69	0.9	1.15
	1	0.97	1.28	1.6
	2	1.5	1.95	2.5
	3	1.84	2.4	3.05
	4	2.12	2.76	3.5
0-8	2	0.73	1.06	1.5
	4	1.05	1.5	2.12
	6	1.32	1.9	2.75
	8	1.54	2.22	3.13
0-13	4	0.63	1.05	1.26
	8	0.94	1.54	1.86
	10	1.08	1.76	2.15
	12	1.18	1.93	2.33
	13	1.23	2.01	2.43
0-16	8	0.72	1.19	1.54
	12	0.9	1.49	1.93
	14	0.98	1.6	2
	16	1.04	1.73	2.23

\*Cold condensate (20°C)

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**Authorised Distributor:**



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