Steam Traps

Float-controlled Steam Traps KA Niagara

High-performance and Sturdy Steam Trap



Connection DN 15 - 150 Nominal Pressure PN 16 Operating Pressure 0 - 16 bar Flow Rate 193 m³/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.

KN 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. NIAGARA KN 1 is fitted as standard equipment with a manual bleed valve and, for the larger valve sizes, with a drain plug in the sludge collecting chamber.

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

Standard

- » KN 1: manual bleed valve
- KN 80: thermal start-up bleeding and fixed continuous bleed orifice
- KN 81: fixed continuous bleed orifice
- KN 83: thermal start-up and continuous bleeding
- KN 88: adjustable continuous bleeding
- from size DN 65 up: drain plug in sludge collecting chamber

Options

- » manual test gag
- up to size DN 65: drain plug in sludge collecting chamber (standard equipment for sizes DN 65 and larger)
- various seal materials suitable for your medium
- special versions up to 400 °C
- designs for special applications and extreme operating conditions on request

Please state working pressure range when enquiring or ordering.

Operating instructions, know how 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 Ran	ges [bar]			
0 - 2	0 - 4	0 - 8	0 - 13	0 - 16

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Materials						
Body	PN 16	spheroidal cast iron				
	PN 25/40	cast steel				
Forklever		CrNiMo-steel				
Seat		Cr-steel				
Cone		CrNiMo-steel				
Float		CrNiMo-steel				
Body Seal						

Dime	Dimensions [mm]										
size		nominal diameter DN									
	15	20	25	32	40	50	65	80	100	150	
Α	285	295	340	355	445	530	635	685	800	1055	
В	100	135	120	135	170	215	280	270	315	490	
C	100	110	140	140	155	175	175	235	300	345	
D	130	135	200	210	230	270	285	365	380	520	
E	150	185	185	205	245	300	385	370	430	635	
F	270	310	310	365	390	470	610	575	655	920	
G	1/4	1/4	1/4	1/4	1/4	3/8	3/8	3/8	3/8	1/2	
H*	3/8	3/8	3/8	3/8	3/8	1/2	1/2	1/2	3/4	3/4	

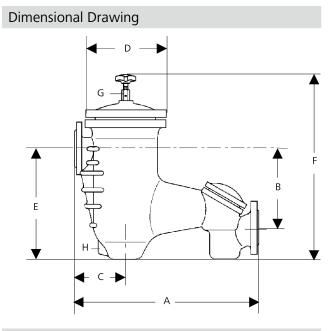
Weigh	ts [kg]								
nomina	al diame	ter DN							
15	20	25	32	40	50	65	80	100	150
11	12	18	25	31	46	77	107	135	270

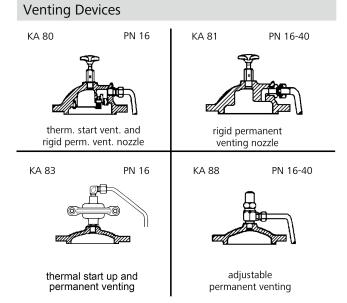
Customs Tariff Number

84818059

Special designs on request.

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max. Flow Rat	te in m³/h										
pressure range	, ,	nominal diameter DN									
bar	pressure bar	15	20	25	32	40	50	65	80	100	150
0-2	0.1	0.46	0.57	0.69	1.1	1.94	3.15	5.38	9.5	14.8	35.8
	0.25	0.73	0.9	1.1	1.8	3.1	5	8.6	15.2	23.6	57
	0.5	1.13	1.4	1.7	2.8	4.8	7.8	13.5	23.6	35.8	89
	1	1.59	2	2.4	3.9	6.8	11	19	33.5	52	125
	1.5	2.2	2.7	3.1	5.3	9.5	15.6	26	46	64	172
	2	2.47	3.05	3.7	6	10.6	17.4	29	52	73	193
0-4	0.1	0.28	0.36	0.47	0.7	1.12	2.4	4	6.1	9.5	23
	0.5	0.69	0.9	1.15	1.7	2.8	6	10	15	23.6	60
	1	0.97	1.28	1.6	2.4	4	8.36	14	21.4	33.4	83
	2	1.5	1.95	2.5	3.7	6	13	21.7	32.8	51.4	114
	3	1.84	2.4	3.05	4.52	7.35	15.8	26.6	40.3	63	137
	4	2.12	2.76	3.5	5.3	8.6	18.4	30.7	46.5	72.7	156
0-8	2	0.73	1.06	1.5	1.7	3.7	6	10.2	19.5	29	64.5
	4	1.05	1.5	2.12	2.8	5.22	8.5	12.9	26.3	41	89
	6	1.32	1.9	2.75	3.54	6.66	10.8	15.3	33.5	52.4	106
	8	1.54	2.22	3.13	4.1	7.72	12.5	17	38	60.4	123
0-13	4	0.63	1.05	1.26	1.5	2.76	6.22	11.6	18.2	26.2	55.7
	8	0.94	1.54	1.86	2.22	4.08	9.19	17.2	26.88	37.8	82
	10	1.08	1.76	2.15	2.55	4.69	10.55	19.75	30.86	44.4	98
	12	1.18	1.93	2.33	2.78	5.13	11.55	21.6	33.75	48.6	110
	13	1.23	2.01	2.43	2.9	5.35	12.04	22.5	35.2	50.7	115
0-16	8	0.72	1.19	1.54	1.86	3.12	6.38	14.4	21.7	32.5	82
	12	0.9	1.49	1.93	2.33	3.93	8.02	18	27.4	40.9	110
	14	0.98	1.6	2	2.52	4.24	8.66	19.5	29.5	44.1	119
	16	1.04	1.73	2.23	2.7	4.54	9.26	20.8	31.6	47.2	127

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