

## Technical Data Sheet: Steam Jet Heater

Steam jet heater with condensation chamber, for low-noise heating of water by injection of steam.

nominal diameter		DN 15	DN 20	DN 25	DN 32	DN 40	DN 50	DN 65
flow coefficient $K_{vs}$		2 m <sup>3</sup> /h	3 m <sup>3</sup> /h	4 m <sup>3</sup> /h	6 m <sup>3</sup> /h	7 m <sup>3</sup> /h	13 m <sup>3</sup> /h	17 m <sup>3</sup> /h
allowable temperature		≤ 400 °C						
allowable differential pressure		≤ 24 bar						
Pressure Equipment Directive		The product is not a pressure equipment as defined by directives 97/23/EC and 2014/68/EU.						
connection	type A	threaded, male, tapered, R, EN 10226-1						
	type D	welding neck flange, PN 40, EN 1092-1						
installed height		440 mm	440 mm	858 mm	610 mm	640 mm	800 mm	910 mm
submerged depth		≥ 270 mm	≥ 270 mm	≥ 390 mm	≥ 440 mm	≥ 535 mm	≥ 740 mm	≥ 830 mm
material	welding neck flange	stainless steel 1.4571, EN 10222-5						
	pipe	stainless steel 1.4571, EN 10217-7						
	baffle	stainless steel 1.4301, EN 10028-7						
mass, approx.	type A	1.1 kg	1.1 kg	1.9 kg	2.9 kg	3.5 kg	6.7 kg	8.8 kg
	type D	2.0 kg	2.1 kg	3.2 kg	4.8 kg	5.6 kg	9.4 kg	12 kg
mass flow, approx. • saturated steam • $p_{abs} = 2$ bar	$\Delta p = 0.2$ bar	28 kg/h	43 kg/h	57 kg/h	85 kg/h	100 kg/h	185 kg/h	242 kg/h
	$\Delta p = 0.5$ bar	41 kg/h	62 kg/h	82 kg/h	123 kg/h	144 kg/h	267 kg/h	349 kg/h
	$\Delta p = 1.0$ bar	47 kg/h	71 kg/h	94 kg/h	142 kg/h	165 kg/h	307 kg/h	401 kg/h
mass flow, approx. • saturated steam • $p_{abs} = 5$ bar	$\Delta p = 0.2$ bar	45 kg/h	69 kg/h	90 kg/h	136 kg/h	158 kg/h	294 kg/h	384 kg/h
	$\Delta p = 0.5$ bar	69 kg/h	104 kg/h	138 kg/h	207 kg/h	242 kg/h	449 kg/h	587 kg/h
	$\Delta p = 1.0$ bar	92 kg/h	138 kg/h	184 kg/h	276 kg/h	322 kg/h	597 kg/h	781 kg/h
	$\Delta p = 2.5$ bar	114 kg/h	171 kg/h	228 kg/h	342 kg/h	399 kg/h	742 kg/h	970 kg/h
mass flow, approx. • saturated steam • $p_{abs} = 10$ bar	$\Delta p = 0.2$ bar	63 kg/h	95 kg/h	127 kg/h	190 kg/h	222 kg/h	412 kg/h	539 kg/h
	$\Delta p = 0.5$ bar	99 kg/h	148 kg/h	197 kg/h	296 kg/h	345 kg/h	641 kg/h	839 kg/h
	$\Delta p = 1.0$ bar	135 kg/h	203 kg/h	271 kg/h	406 kg/h	474 kg/h	881 kg/h	1152 kg/h
	$\Delta p = 5.0$ bar	222 kg/h	333 kg/h	445 kg/h	667 kg/h	778 kg/h	1445 kg/h	1890 kg/h
mass flow, approx. • saturated steam • $p_{abs} = 20$ bar	$\Delta p = 0.2$ bar	89 kg/h	134 kg/h	178 kg/h	267 kg/h	312 kg/h	579 kg/h	757 kg/h
	$\Delta p = 0.5$ bar	140 kg/h	209 kg/h	279 kg/h	419 kg/h	489 kg/h	908 kg/h	1187 kg/h
	$\Delta p = 1.0$ bar	195 kg/h	292 kg/h	389 kg/h	584 kg/h	681 kg/h	1265 kg/h	1654 kg/h
	$\Delta p = 5.0$ bar	381 kg/h	572 kg/h	762 kg/h	1144 kg/h	1334 kg/h	2478 kg/h	3240 kg/h
	$\Delta p = 10$ bar	433 kg/h	650 kg/h	867 kg/h	1300 kg/h	1517 kg/h	2818 kg/h	3685 kg/h
mass flow, approx. • saturated steam • $p_{abs} = 40$ bar	$\Delta p = 0.2$ bar	126 kg/h	190 kg/h	253 kg/h	379 kg/h	442 kg/h	821 kg/h	1074 kg/h
	$\Delta p = 0.5$ bar	199 kg/h	298 kg/h	398 kg/h	596 kg/h	696 kg/h	1292 kg/h	1690 kg/h
	$\Delta p = 1.0$ bar	279 kg/h	418 kg/h	558 kg/h	837 kg/h	976 kg/h	1813 kg/h	2371 kg/h
	$\Delta p = 5.0$ bar	583 kg/h	874 kg/h	1166 kg/h	1749 kg/h	2040 kg/h	3789 kg/h	4955 kg/h
	$\Delta p = 10$ bar	752 kg/h	1128 kg/h	1504 kg/h	2256 kg/h	2632 kg/h	4889 kg/h	6393 kg/h
	$\Delta p = 20$ bar	847 kg/h	1270 kg/h	1693 kg/h	2540 kg/h	2963 kg/h	5503 kg/h	7196 kg/h

### Applications:

- boiler feed water tank
- condensate tank
- steam accumulator
- water bath desuperheater
- hot water storage tank

### Recommended Installation:

- Horizontal steam distribution pipe, located within the steam phase.
- Vertical steam jet heater, submerged below the water level; see data sheet for min. submerged depth.
- Orientation of the condensation chambers in opposite directions, for optimizing circulation.



### Special Designs:

- Multiple condensation chambers.
- Different connection types.
- Nominal diameter ≥ DN 80.
- Allowable temperature > 400 °C.
- Design for two-phase flow.