

Type DKM

Small desuperheater to control the temperature of superheated steam or gas



> Type DKM, front view



> Type DKM, sectional view

Product features

- Excellent for small mass flows
- The injection cooler has a reduced spray head especially for small pipelines and additionally uses a multi-level control system
- Spray head with integrated high-performance nozzles. Selectable control characteristics for precise temperature control
- Cascade trim design
- High control accuracy over the entire control range
- Tightly closing metallic seat. No leakage in closed position and thus no emptying of the cooling water lines possible.
- No additional control valves required
- High operational reliability through the use of simple components, minimal wear and tear

Applications

- For small boiler and process applications and for the food and beverage industry
- Suitable for small piping applications

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Technical data

Nominal diameter	DN 50–400 / NPS 2–16
Pressure class	PN 16–450 / Class 150–2500
Temperature (max.)	Up to 650 °C / 1200 °F
Housing material	1.0460 / A105 1.5415 1.7335 / A182F12Cl.2 1.7383 / A182F22Cl.3 1.4903 / A182F91
Housing type	Forged
Media	Superheated steam, gas
Flanges	EN 1092-1, ASME B16.5, ISO 7005, JIS, JPI
Actuators	Electric, pneumatic, hydraulic, handwheel (for manual operation)
Number of stages (max.)	6
Number of controlled stages (max.)	6
Operating range (max.)	1:15 (water)

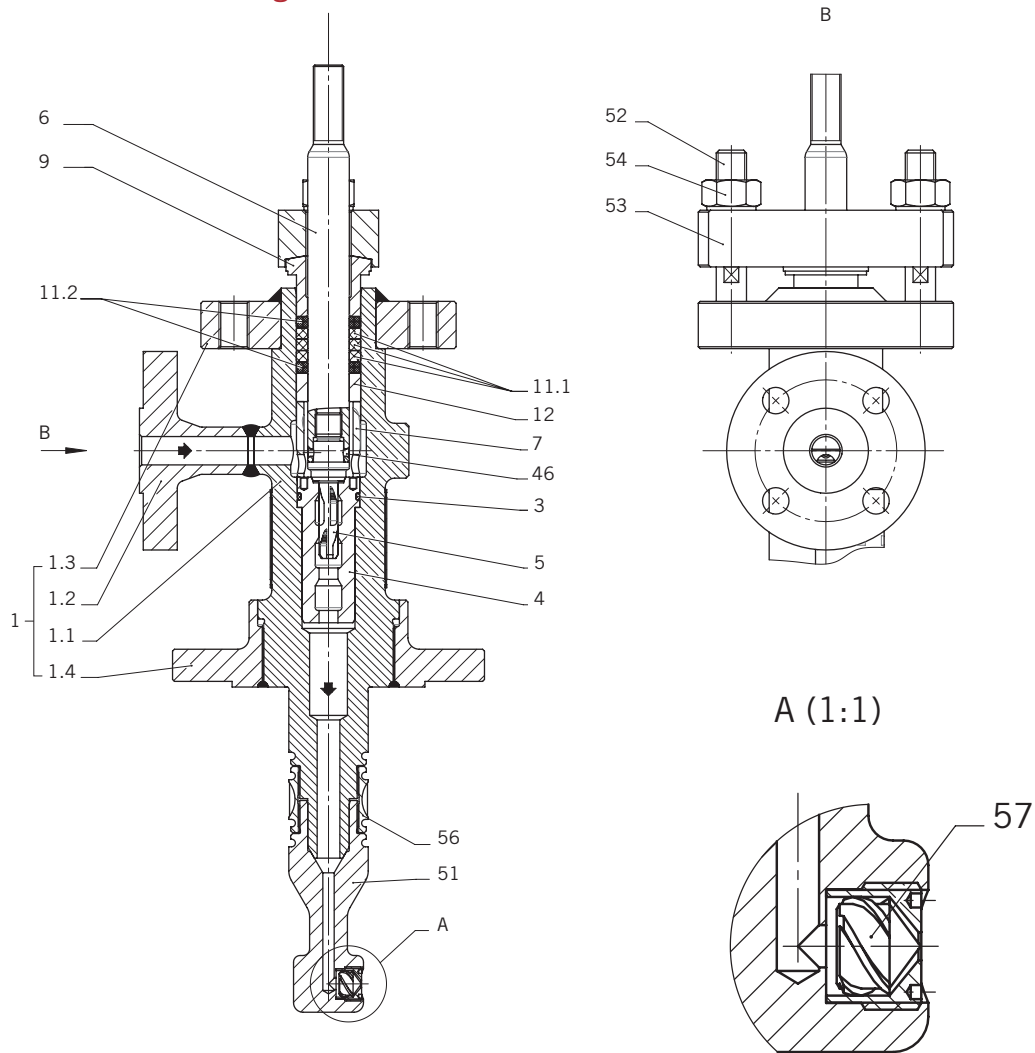
Function

see chapter DKV (Page 69)

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Sectional drawing



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Parts list

Pos.	Item	Material
1	Housing cpl.	*
1.1	Housing	*
1.2	Flange	*
1.3	Flange	*
1.4	Flange	*
3	O-Ring	**
4	Cascade bushing	1.4122
5	Valve plug	1.4122
6	Valve spindle	1.4057
7	Spacer ring	1.4122
9	Packing follower	1.4122
11.1	Packing	Grafit
11.2	Packing	Grafit
12	Bottom ring	1.4122
20	Spacer bolt	1.1181
35	Hexagon nut	8
46	Pin	1.4301
51	Spray head	1.4006
52	Stud bolt	1.7709
53	Gland plate	*
54	Hexagon nut	1.7218
56	Clamping nut	1.4006
57	Spray nozzle	1.4301/1.4313
121	Piston ring	1.0460

* See table "Technical data"

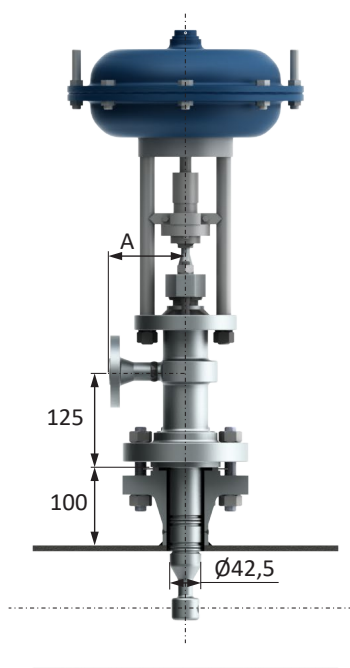
** Depending on customer requirements

Parts list as an example of the standard configuration

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Dimensions



DN / NPS	PN / CLASS				
	63 / 300	100 / 600	160 / 900	250 / 1500	400 / 2500
≤25 / 1	A = 135		A = 160		
>25 / 1			A = 185		