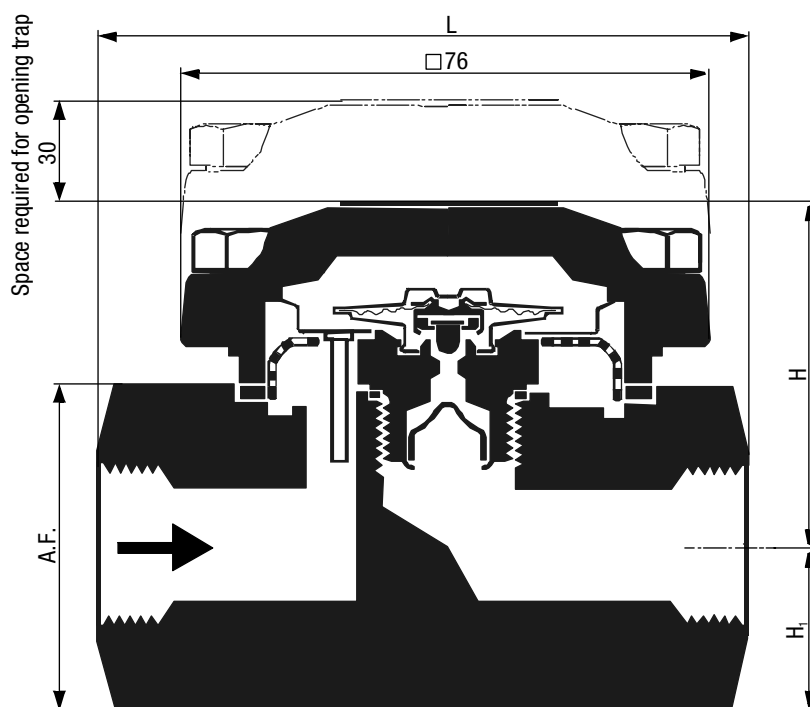


GESTRA Steam Systems

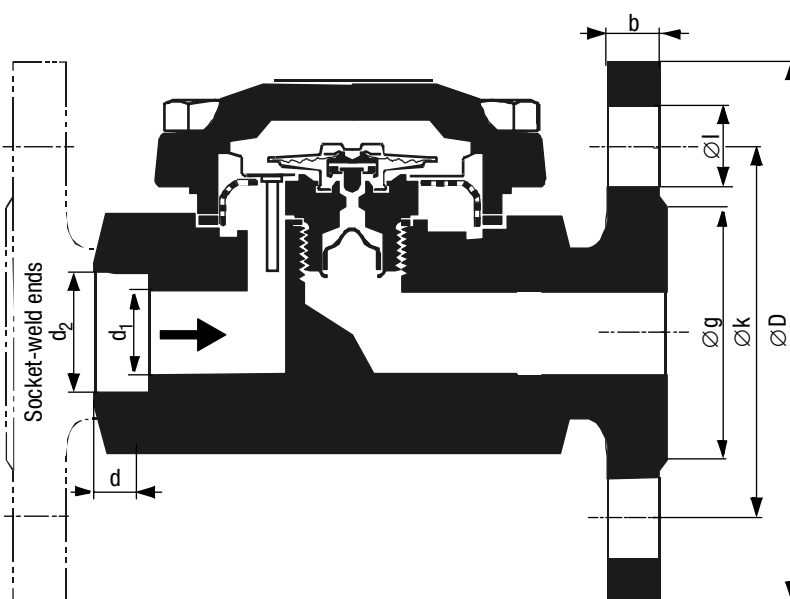
Thermostatic Steam Traps **MK 35/21 and MK 35/22 PN 40**

Product Range A1

MK 35/21 and MK 35/22



MK 35/21, MK 35/22 with screwed sockets.



MK 35/21, MK 35/22 with socket-weld ends / flanged ends.

Thermostatic steam trap with membrane regulator. Corrosion-resistant thermostatic capsule, unaffected by waterhammer. Integral strainer and non-return valve. Asbestos-free cover gasket (graphite/CrNi). Installation in any position.

The traps with standard capsule "N" discharge the condensate with virtually no banking-up, the traps with special capsule "U" with an undercooling of approx. 30K (degC).

MK 35/21 with tandem seat

In particular for low condensate flowrates. Optionally either with standard capsule "5N1" or undercooling capsule "5U1".

MK 35/22 with single seat

For larger condensate flowrates. Optionally either with standard capsule "5N2" or undercooling capsule "5U2".

Connections

MK 35/27, MK 35/22 PN 40:

Screw sockets: BSP or NPT (API).

Flanges: DIN/EN PN40
or ASME Class 150
or ASME Class 300

Socket-weld ends

Butt-weld ends

Pressure/Temperature Rating **according to DIN 3548 PN 40**

Max. service pressure	barg	32	22	14.5
	psig	465	320	210
Related temperature	°C	250	385	450
	°F	482	725	842
Max. differential pressure (inlet pressure minus outlet pressure)		22 bar (320 psi)		

Materials	EN/DIN reference	ASTM equivalent
Body	1.0619 (GP240GH)	A 216-WCB
Cover screws	24CrMo5 (1.7258)	A 193 B 7
Thermo-static capsule	Mem-brane	Hastelloy®
	Capsule	Stainless steel
Other internals		Stainless steel

Capacity Charts

The charts show the maximum capacities for hot and cold condensate.

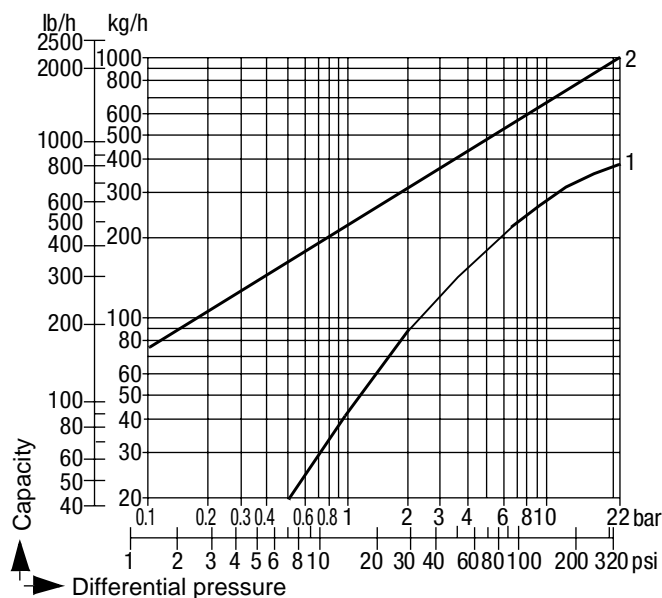
Curve 1

Curve 1 indicates the max. capacity of hot condensate that the traps with "N" capsule can discharge at a condensate temperature of approx. 10K (degC) below saturation temperature (virtually no banking-up), and the traps with "U" (undercooling) capsule when the condensate is approx. 30K (degC) below the saturated steam temperature.

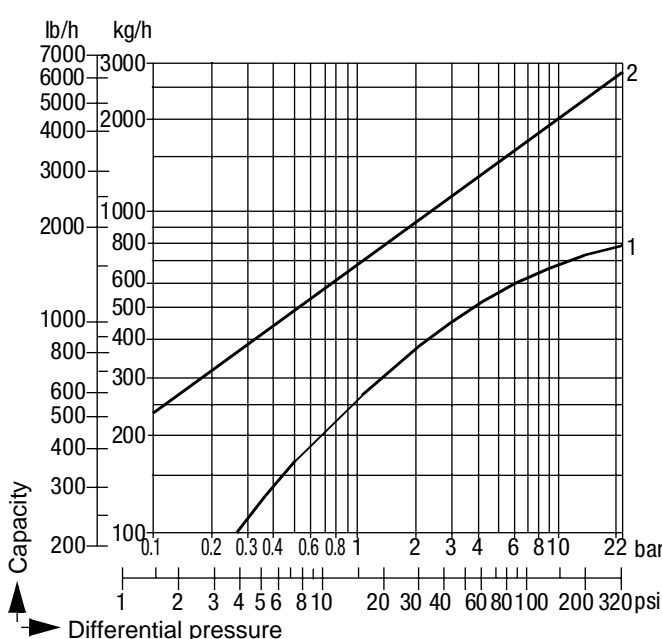
Curve 2

Curve 2 shows the max. capacity of cold condensate that the traps can discharge (condensate temperature 20°C).

Capacity Chart for MK 35/21 (tandem seat)



Capacity Chart for MK 35/22 (single seat)



Dimensions				
Nominal sizes DN	mm inch	15 ½	20 ¾	25 1
MK35/21, MK 35/22 measurements in mm	H	49	49	49
	H ₁	23	23	23
	A.F.	42	42	42
Overall length in mm	L			
Screwed BSP/NPT		95	95	95
Flanged DIN/EN		150	150	160
Flanged ASME		150	150	160
Socket-weld ends		95	95	95
Butt-weld ends		200	200	200
Flange DIN/EN measurements in mm	D	95	105	115
	b	14	16	16
	k	65	75	85
	g	45	58	68
	l	14	14	14
Number of bolts		4	4	4
Socket-weld ends in mm	d1	22	27	34
	d2	42	42	42
	d	9.5	12.5	7.5

When ordering please state:

Steam pressure, back pressure, quantity of condensate to be discharged, type, size, connections, mounting position of the trap and details of application.

The following test certificates can be issued on request, at extra cost:

In accordance with EN 10204-2.2 and -3.1 A, -3.1 B and -3.1 C.

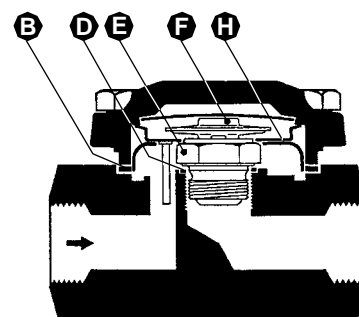
All inspection requirements have to be stated with the order. After supply of the equipment certificates cannot be established. For tests and inspection charges please consult us.

Supply in accordance with our general terms of business.

Technical modifications reserved.

Spare Parts

Item No.	Designation
F1 E B	Membrane regulator, complete 5N1 Membrane regulator, complete 5U1
F2 E B	Membrane regulator, complete 5N2 Membrane regulator, complete 5U2
H	Strainer with baffle plate
F	Thermostatic capsule 5N1 (tandem) Thermostatic capsule 5U1 (tandem)
F2	Thermostatic capsule 5N2 (single) Thermostatic capsule 5U2 (single)
D	Seat gasket
E	Nozzle seat for MK 35/21 (tandem seat)
E	Nozzle seat for MK 35/22 (single seat)
B	Cover gasket



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