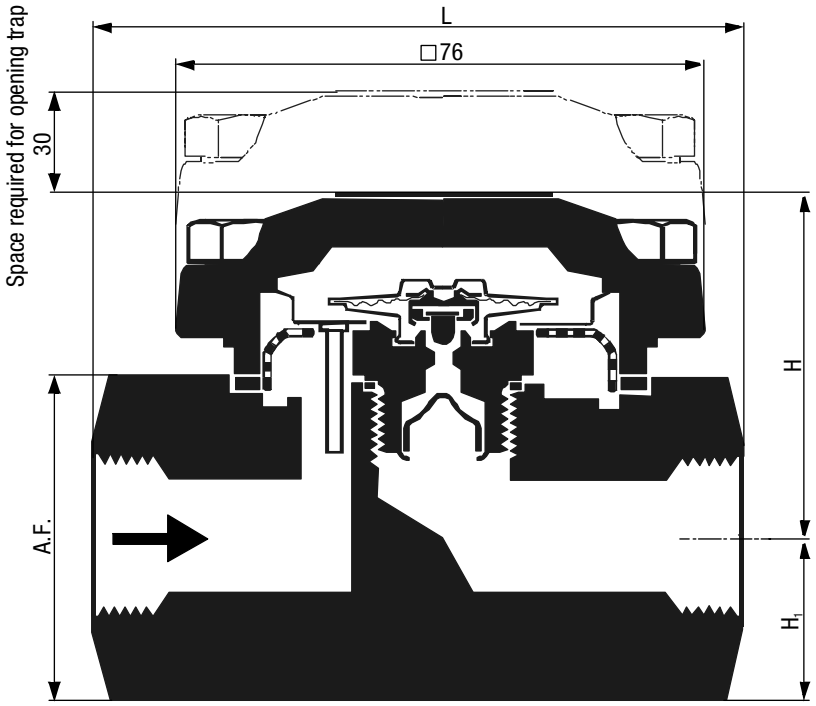
GESTRA Steam Systems

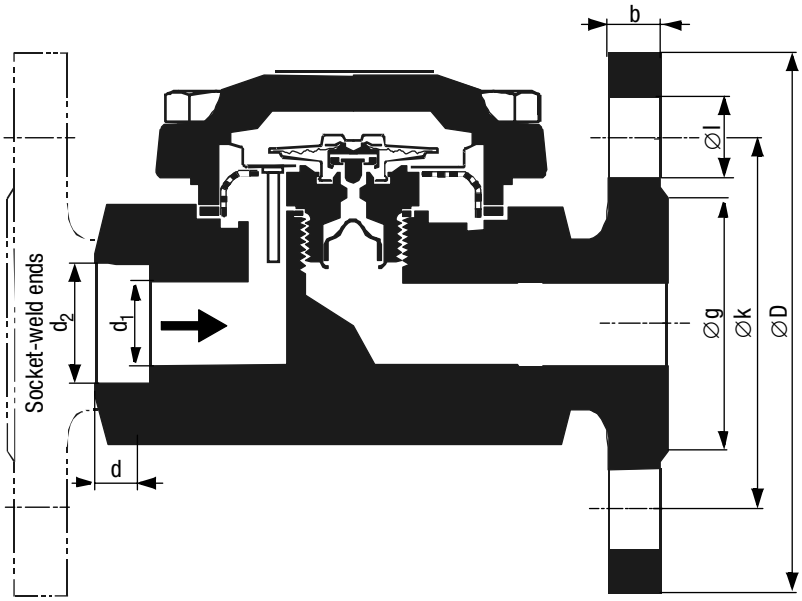
Product Range A1

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

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 cpasule "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:
Screwed 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)		22bar (320psi)		

Materials		EN/DIN reference	ASTM equivalent
Body		1.0619 (GP240GH)	A 216-WCB
Cover screws		24CrMo5 (1.7258)	A 193 B 7
Thermostatic capsule	Membrane	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).

Dimensions				
Nominal sizes	mm	15	20	25
DN	inch	½	¾	1
MK35/21, MK35/22				
measurements	H	49	49	49
in mm	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	D	95	105	115
in mm	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	d1	22	27	34
in mm	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.

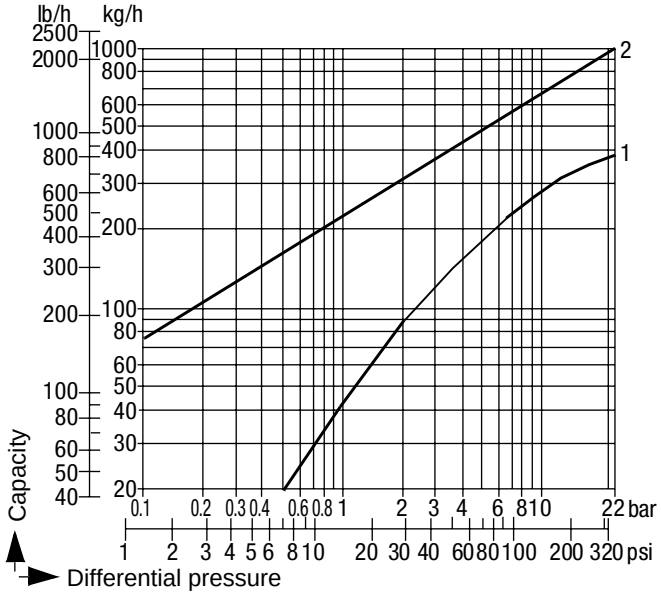
The following test certificates can be issued on request, at extra cost:
In accordance with EN 10204-2.2 and -3.1 A, -3.1 B and -3.1 C.

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.

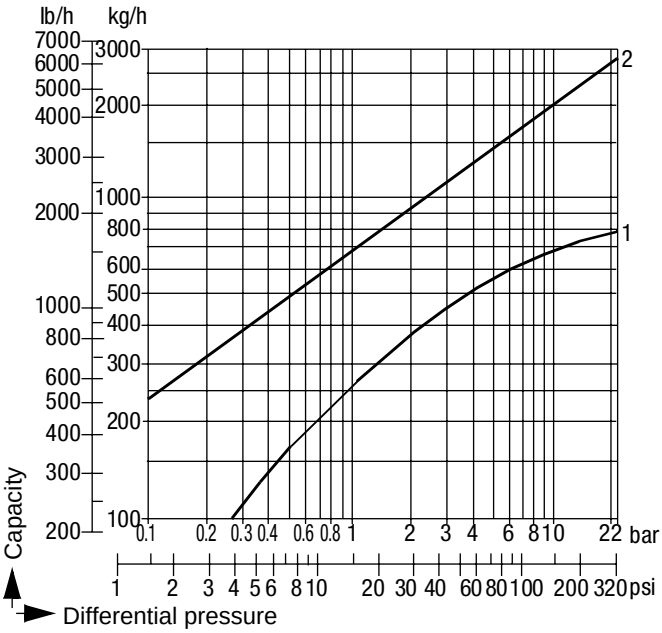
Supply in accordance with our general terms of business.

Technical modifications reserved.

Capactiy Chart for MK 35/21 (tandem seat)



Capactiy Chart for MK 35/22 (single seat)



Spare Parts	
Item No.	Designation
F1 E1 B	Membrane regulator, complete 5N1 Membrane regulator, complete 5U1
F2 E2 B	Membrane regulator, complete 5N2 Membrane regulator, complete 5U2
H	Strainer with baffle plate
F1	Thermostatic capsule 5N1 (tandem) Thermostatic capsule 5U1 (tandem)
F2	Thermostatic capsule 5N2 (single) Thermostatic capsule 5U2 (single)
D	Seat gasket
E1	Nozzle seat for MK 35/21 (tandem seat)
E2	Nozzle seat for MK 35/22 (single seat)
B	Cover gasket