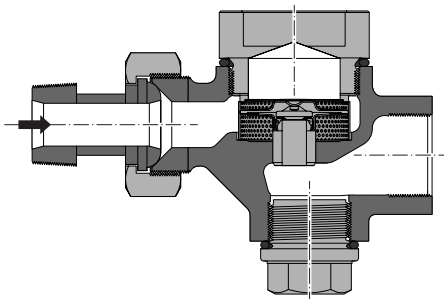


MK 20, DN 15, 20



Fast-Draining Thermostatic Steam Trap

MK 20

PN 6

DN 15, 20, NPS ½", ¾"

System description

The MK 20 thermostatic steam trap is used to discharge condensate from steam in pipes and for venting steam lines. The equipment is particularly suitable for steam heating and other low-pressure installations.

The trap adapts itself to all operating conditions within its range.

As it opens, the trap immediately releases a large cross-sectional area, so that large amounts of condensate can be discharged. Neither upstream pressure nor back pressure have an impact on trap operation.

The trap vents automatically during start-up and in continuous operation.

The standard version features a 5U2 membrane regulator, which discharges the condensate at approx. 30 K below boiling point. Installation in any position.

Design

Thermostatic steam trap as a straight-through or angle model, with internal strainer and corrosion-resistant membrane regulator unaffected by water hammer.

Optional extras

- 5N2 membrane regulator, which discharges the condensate with virtually no banking up.

Fluids

The equipment is designed for the following fluids (in accordance with the EU Pressure Equipment Directive or Pressure Equipment (Safety) Regulations in the UK):

MK 20

- Group 2 fluids

Chemical and corrosive influences must be taken into consideration.

Use in potentially explosive atmospheres

The equipment does not have its own potential source of ignition (as per ATEX Directive). Please note the following:

Once installed, static electricity may arise between the equipment and the connected system.

If the equipment is used in potentially explosive atmospheres, the plant manufacturer or owner is responsible for discharging or preventing possible static charge.

If it is possible for fluid to escape, e.g. through actuating mechanisms or leaks in threaded joints, the plant manufacturer or owner must take this into consideration when dividing the area into zones.

Function

The opening and closing movement is controlled by the membrane regulator based on the temperature and pressure in the body.

Material

Component	Material
Body, outlet	5.3103
Cover, connection nipple	1.0460
Body gasket	Graphite/CrNi
Strainer	1.4301
Membrane regulator	Hastelloy® Stainless steel
Other internal parts	Stainless steel

Pressure and temperature ratings

MK 20, thread

p Pressure ¹	barg	6.0	6.0	5.5	5.0	4.5	3.6
T Temperature ¹	°C	-10 — 20	100	150	200	250	300
Δ PMX Max. admissible differential pressure	bar	4.5					
Admissible operating temperature		Saturation temperature + 5 K					

¹ Ratings for strength of body/cover to DIN EN 12516-2

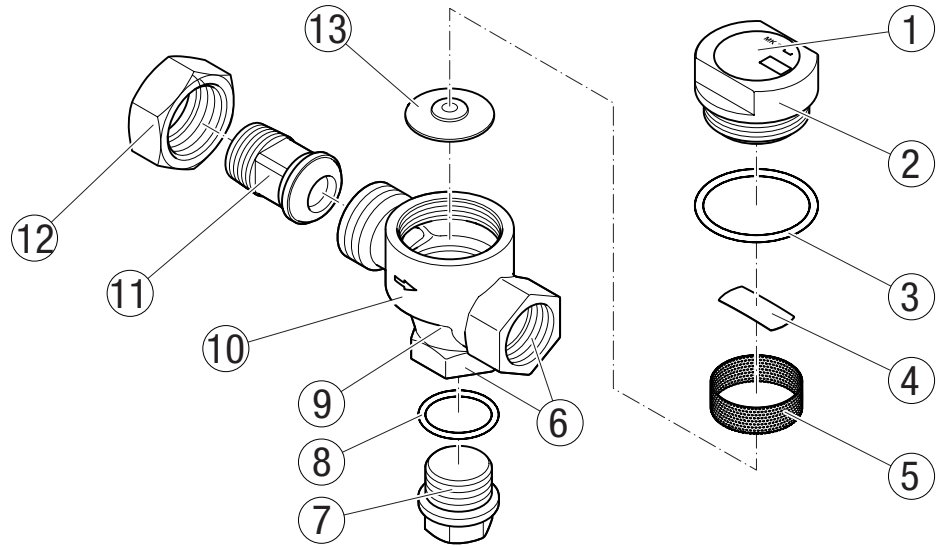
Connections

- Inlet: Thread EN 10226-1, R
- Outlet: Screwed socket ISO 228-1, G

Fast-Draining
Thermostatic Steam Trap
MK 20

No.	Designation
1	Name plate
2	Cover
3	Body gasket
4	Spring
5	Strainer
6	Outlet
7	Sealing plug
8	Sealing ring
9	Body
10	Direction of flow arrow
11	Connection nipple
12	Union nut
13	Membrane regulator 5U2 (or 5N2 as an option)

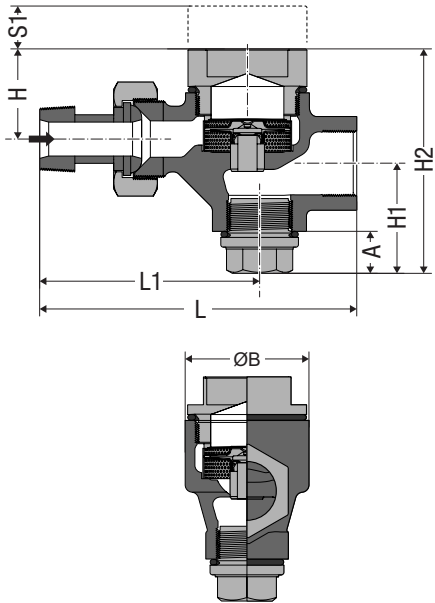
Equipment parts



Dimensions and weights

All equipment

	Nominal size	DN	15	20
		NPS	½"	¾"
L	mm		120	125
L1	mm		80	85
Ø W	mm		51	51
A	mm		14	16.5
H	mm		33	37
H1	mm		39	44.5
H2	mm		82	92
S1 Cover service dimensions	mm		>20	>20
Weight	kg		0.8	0.9



Fast-Draining
Thermostatic Steam Trap
MK 20

Capacity chart

The diagram shows the maximum capacities for hot and cold condensate.

Curve 1

The steam trap with 5U2 membrane regulator discharges the volumes of hot water stated here at approx. 30 K below boiling point (banking-up of condensate).

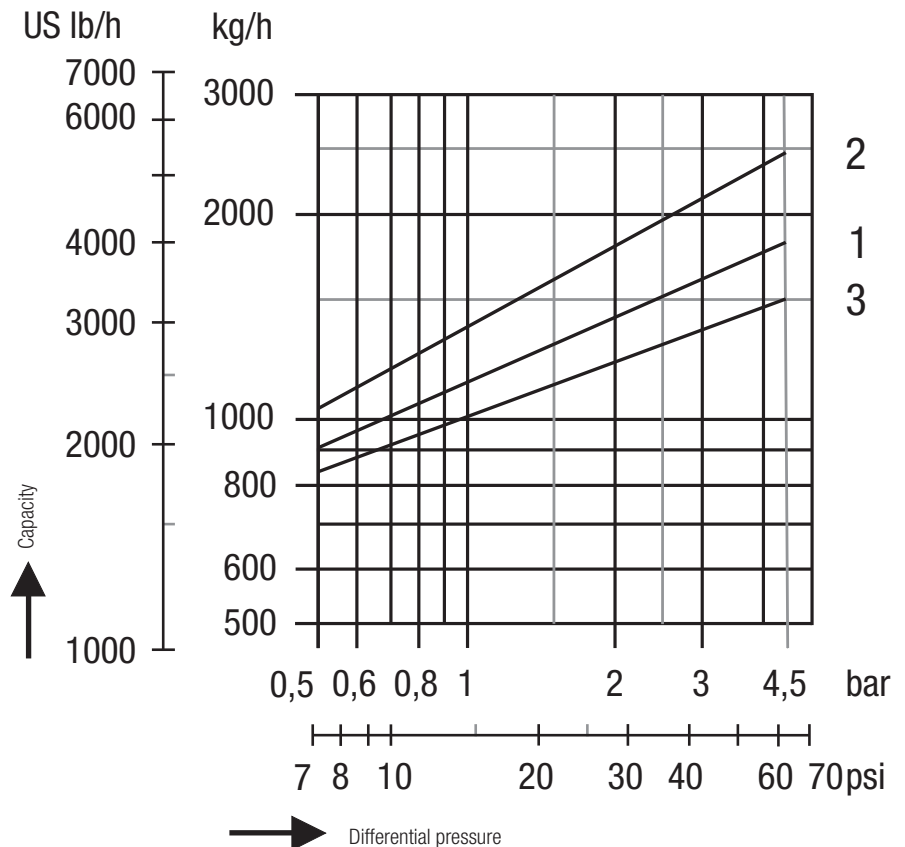
Curve 2 (optional)

The steam trap with 5N2 membrane regulator discharges the volumes of hot water stated here with virtually no banking up (condensate temperature approx. 10 K below boiling point).

Curve 3

Capacity for cold condensate at approx. 20 °C.

Capacity chart



How to order

GESTRA Thermostatic Steam Trap

Type: MK 20

Connection: Inlet thread R
Outlet screwed socket G

Nominal size: DN 15, 20, NPS ½", ¾"

Pressure rating: PN 6

Acceptance inspections

An inspection certificate to EN 10204 can be provided as verification of material and construction tests. All inspection requirements must be included in the request for a quote or in the order. Once a product has been delivered, inspection certificates can no longer be issued. The standard test scope and costs of the above-mentioned test certificates can be found in our price list "Test and Inspection Charges for Standard Equipment". If you require a different inspection scope, please request a separate quote.

Directives and standards

You can find details on the conformity of the equipment and the relevant standards and directives, where applicable, in the Declaration of Conformity and associated certificates or approvals.

Please note our general terms of business.

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