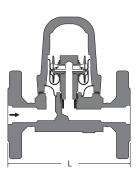
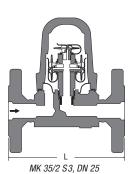


MK 35/31, DN 10, 15



MK 35/2 S, DN 25



**Features of the MK series** 

- · Very sensitive response characteristic
- Function is not impaired by high back pressure
- Automatic air-venting (trap can be used for thermal air-venting in steam systems)
- Installation in any position (horizontal and vertical lines)
- High hot-water capacities even with low differential pressures

- With tandem seat (double sealing) for low condensate flowrates
- · Built-in non-return valve
- Stainless steel internals (corrugated membrane of Hastelloy)
- Design "U" with undercooling capsule: utilization of a certain amount of sensible heat by banking-up of condensate, decreasing the amount of flash steam
- Optional extra: Integrated condensate monitoring for MK 45 (temperature or steam loss)

## **Application**

Туре							
MK 45-1 (HOMBUS/line* MK 35/31 <sup>1</sup> )	With tandem seat (double sealing) For low condensate flowrates, steam-tracing, steam-line drainage, air-venting						
MK 45-2 MK 35/32 <sup>1</sup> )	With single seat For medium condensate flowrates, steam-tracing, drainage of heat exchangers, air-venting						
MK 25/2 ¹) MK 25/2 S ¹) MK 35/2 S ¹) MK 35/2 S3 ¹)	With single seat For large condensate flowrates, drainage of heat exchangers						
MK 36/51 <sup>1</sup> ) MK 36/52 <sup>1</sup> )	With tandem seat (double sealing) – with flat gasket For small/large condensate flowrates, steam tracing, steam-line drainage, venting and vacuum-breaking. Also suitable for food, biological and pharmaceutical applications.						
MK 45 A-1 MK 45 A-2 eHOMBU9/line*	For small and large condensate flowrates; steam-tracing, steam-line drainage, air-venting						

<sup>1)</sup> Can also be used for vacuum breaking (aerating).

#### **Air Venting**

#### Steam Trap for Thermostatic Air-Venting with Membrane Regulator

The thermostatic steam traps with membrane regulators of the MK series can also be used for air-venting.

#### **Application**

Thermostatic steam trap for automatic air-venting and discharge of non-condensable gases and steam/air mixtures from steam lines and heat exchangers.

A special type of membrane regulator capsule might be required.

#### **Pressure/Temperature Ratings**

Туре	PN / Class	$\Delta$ PMX	Material		Max. Pressure/Temp. Rating <sup>1</sup> )			
			EN	ASTM	PMA	TMA	p/T	
		[bar]			[bar]	[°C]	[bar	/°C]
MK 35/31, MK 35/32	PN 25	21	1.0460	A105	25.0	400	18.6 / 225	14.4 / 400
MK 45-1, MK 45-2	PN 40	32	1.0460	A105	40.0	450	27.6 / 300	13.1 / 450
MK 45-1, MK 45-2	Class 300	32	1.0460	A105	51.1	425	39.8 / 300	28.8 / 425
MK 35/2 S, DN 25 MK 35/2 S3, DN 25	PN 40	32	1.0460	A105	40.0	450	27.6 / 300	13.1 / 450
MK 25/2, MK 25/2 S, DN 40, 50	PN 40	32	1.0460/ 1.0619	A105/ A216-WCB	40.0	450	27.6 / 300	13.1 / 450
MK 36/51, MK 36/52	_	32	1.4301²)	A479-F304	49.0	400	32.0 / 250	28.0 / 400
MK 36/51, MK 36/52 MK 45 A-1, MK 45 A-2 MK 45 A-1,	PN 40	32	1.4404	A182-F316L	40.0	400	29.9 / 250	25.7 / 400
MK 45 A-1, AND	Class 300	32	1.4404	A182-F316L	41.4	450	26.1 / 300	23.4 / 450

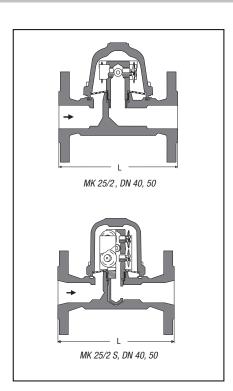
Limits for body/cover. Functional requirements may restrict the use to below the limits quoted.
 For full details on limiting conditions depending on end connection and type of regulator see data sheet.

<sup>2)</sup> EN material comparable to ASTM material.

# Thermostatic Steam Traps MK with Membrane Regulator PN 25 - PN 40

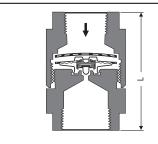




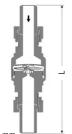


## **Available End Connections and Overall Length**

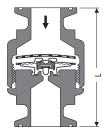
		Overall length (L) in mm						
Туре	Connection	DN 8	DN 10 3/8"	DN 15	DN 20 3/4"	DN 25 1"	DN 40 1 <sup>1</sup> / <sub>2</sub> "	DN 50 2"
MK 45-1	Flanged EN PN 40	-	-	150	150	160	-	-
MK 45-2	Flanged ASME 1501)	_	_	150	150	160	_	_
MK 45 A-1 STAINLESS	Flanged ASME 3001)	_	_	150	150	160	_	-
MK 45 A-2 STEEL	Screwed sockets	_	-	95	95	95	-	-
MK 35/2 S3 only DN 25	Socket-weld (SW)	-	_	95	95	95	-	-
MK 35/2 S only DN 25	Butt-weld (BW) 2)	_	_	200	200	200	_	_
MK 35/31	Screwed sockets	-	70	70	-	-	-	-
MK 35/32	Socket-weld (SW)	_	_	95	-	_	_	_
MK 25/2 DN 40 – 50 MK 25/2 S DN 40 – 50	Flanged EN PN 40	-	-	-	-	-	230	230
	Flanged ASME 150	_	_	_	_	_	230	230
	Flanged ASME 300	-	-	-	-	-	230	230
	Screwed sockets	_	_	_	_	_	130	230
	Socket-weld (SW)	-	-	-	-	-	130	230
MK 36/51	Screwed sockets	65	65	65	65	_	_	_
MK 36/52 STAINLESS STEEL	Union butt-weld nipples 3)	_	_	150	_	_	_	_
	Hinged clamp	-	65	65	65	65	-	_



MK 36/51, DN 8, 10, 15, 20 mm Connection: screwed socket



MK 36/51, DN 15 mm Design with union butt-weld nipples



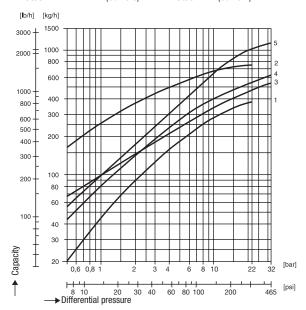
MK 36/51, DN 8, 10, 15, 20 mm Connection: hinged clamp

- 1) MK 45 with ASME flanges: overall length 172 mm available on request.
- 2) Only MK 45
- 3) Made of carbon steel or stainless steel

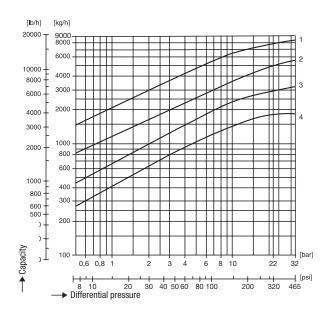
### **Capacity Charts**

The charts show the maximum hot condensate capacities.

MK 45-1/MK 45A-1	(Curve 4)	MK 35/31	(Curve 1)
MK 45-2/MK 45A-2	(Curve 5)	MK 35/32	(Curve 2)
MK 36/51	(Curve 3)	MK 36/52	(Curve 2)



MK 25/2 S, DN 40, 50 (Curve 1) MK 35/2 S3, DN 25 (Curve 3) MK 25/2, DN 40, 50 (Curve 2) MK 35/2S, DN 25 (Curve 4)





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