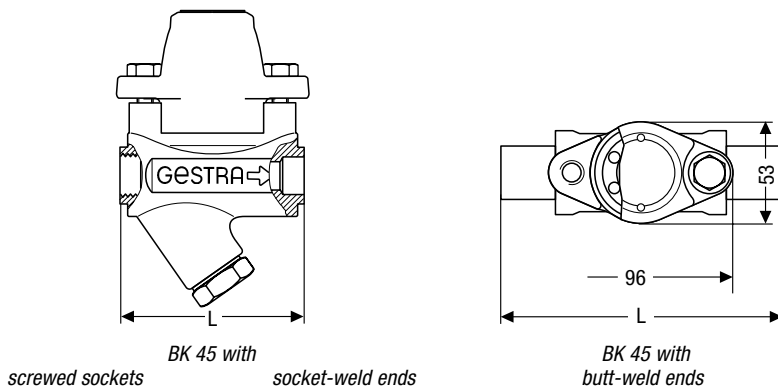
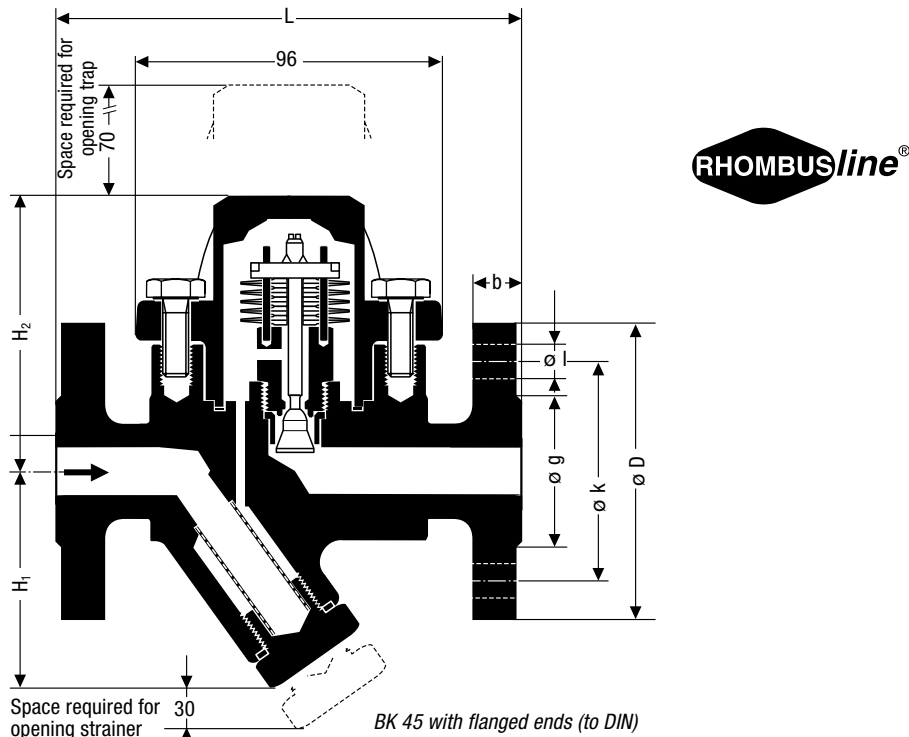


GESTRA Steam Systems

Steam Traps RHOMBUSline®
BK 45, BK 45U
PN 40
DN 15, 20, 25 (½", ¾", 1")

Product Range A1

BK 45
BK 45U



Dimensions and weights		End connections								
		Flanged			Screwed Socket-weld			Butt-weld		
Nominal sizes	[mm] [inch]	15 ½	20 ¾	25 1	15 ½	20 ¾	25 1	15 ½	20 ¾	25 1
Dimensions [mm]	L	150	150	160	95			200		
	H1		70		70			70		
	H2		88		88			88		
Approx. weight	[kg]	3.7	4.3	4.8	2.2	2.1	2.0	2.5	2.5	2.5

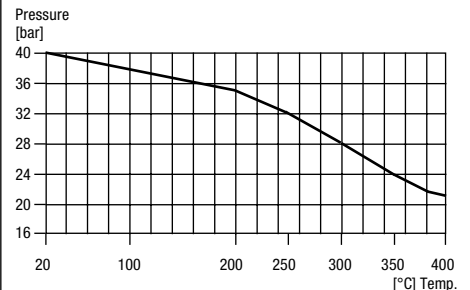
Flange dimensions		End connections								
		DIN			CL 150			CL 300		
Flange dimensions	D	95	105	115	88.9	98.4	107.9	95.2	117.5	123.8
	b	16	18	18	11.1	12.7	14.3	14.3	15.9	17.5
	k	65	75	85	60.3	69.8	79.4	66.7	82.5	88.9
	g	45	58	68	34.9	42.9	50.8	34.9	42.9	50.8
	l	14	14	14	15.9	15.9	15.9	15.9	19.0	19.0
Number of bolts		4	4	4	4	4	4	4	4	4

Thermostatic steam trap with corrosion-resistant thermostatic element (Duo stainless steel bimetallic regulator) unaffected by waterhammer.
 Y-type strainer, non-return valve and asbestos-free cover gasket (graphite) included **as standard**.
 The traps with standard regulator discharge the condensate with virtually no banking-up.
 Optionally BK 45U with an undercooling of approx. 30 K (to utilize the condensate heat in steam tracers).

Field of application: Draining of saturated steam and superheated steam lines and steam tracers.
 Can also be used for air-venting.

Installation in any position. In horizontal pipes the cover must be on top.

Pressure/Temperature Ratings				
Max. service pressure	[barg] [psig]	32 465	22 320	21 305
Related temperature	[°C]	250	385	400
	[°F]	482	725	752
Max. differential pressure (inlet pressure minus outlet pressure)		22 barg (320 psig)		



Materials	DIN reference	ASTM equivalent
Body, cover	C 22.8 (1.0460)	A 105
Screws	24 CrMo 5 (1.7258)	A 193 B 7
Bimetallic regulator	Stainless steel	
Other internals	Stainless steel	

Connections

Flanges: DIN, PN 40.
 ANSI 150 and 300 lb/in²
 Screwed sockets: BSP or NPT (API)
 Socket-weld ends
 Butt-weld ends

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Capacity Charts

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

Curve 1

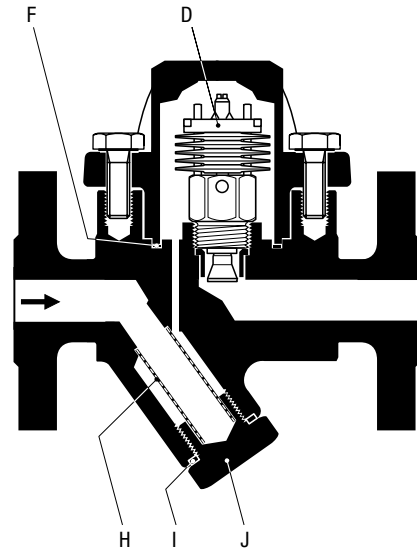
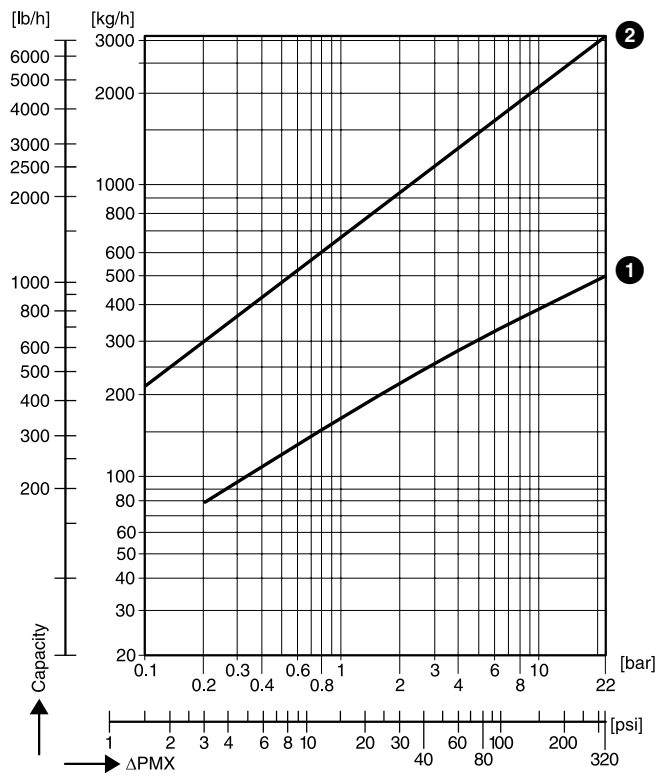
Curve 1 indicates the max. capacity of hot condensate that the BK 45 having a standard regulator can discharge with virtually no banking-up.

The BK 45U (undercooling) discharges the condensate when it is approx. 30 K (degC) below saturation temperature (banking-up of condensate).

Curve 2

Curve 2 shows the max. capacity of cold condensate that the BK 45 and BK 45U can discharge (condensate temperature 20 °C).

Capacity Chart for BK 45 and BK 45U



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 B.

All inspection requirements have to be stated with the order. After supply of the equipment certificates can no longer be established. Charges and extent of the above mentioned certificates as well as the different tests confirmed therein are listed in our price list "Test and Inspection Charges for Standard Equipment".

For other tests and inspections than those listed above, please consult us.

Supply in accordance with our general terms of business.

Standard Spare Parts			
Item. No.	Designation	Order No.	
		BK 45	BK 45U
D, F	Regulator, complete including cover gasket	375234	375235
H, I, J	Strainer set, complete	375113	375113
F*)	Cover gasket (set with 50 items ¹⁾)	375159	375159
I*)	Strainer gasket (set with 50 items ¹⁾)	375162	375162

*) Parts subject to wear

¹⁾ Contact your local dealer for smaller quantities.

GESTRA AG

P. O. Box 10 54 60, D-28054 Bremen
 Münchener Str. 77, D-28215 Bremen

Telephone +49 (0) 421 35 03 -0, Fax +49 (0) 421 35 03 - 393

E-Mail gestra.ag@flowsolve.com, Internet www.gestra.de

