

GESTRA Steam Systems

Product Range Group A1

Duo Steam Trap BK 27

PN 40/63, DN 50 (40) mm

2" (1½")

BK 27

Description

Thermostatic/thermodynamic steam trap with corrosion-resistant regulator unaffected by waterhammer.

Integral strainer and non-return valve action. Automatic deaeration.

Installation in any position.

Asbestos-free cover gasket (graphite/CrNi).

Pressure/Temperature Rating				
PN 40 15 Mo 3				
PMA (Maximum allowable pressure)	[barg] [psig]	35,6 516	26,7 387	25,8 374
TMA (Maximum allowable temperature)	[°C] [°F]	250 482	400 752	450 842
Δ PMX (Maximum differential pressure) (inlet pressure minus outlet pressure)		40 bar (580 psi)		
PN 63 15 Mo 3				
PMA (Maximum allowable pressure)	[barg] [psig]	47,6 690	42,0 609	40,6 588
TMA (Maximum allowable temperature)	[°C] [°F]	300 572	400 752	450 842
Δ PMX (Maximum differential pressure) (inlet pressure minus outlet pressure)		45 bar (650 psi)		

Materials	DIN reference	ASTM equivalent *
Body	15 Mo 3 (1.5415)	A 182 F 1
Cover bolts	21 CrMoV 57 (1.7709)	
Nuts	21 CrMoV 57 (1.7709)	
Temperature feeler	Corrosion-resistant Duo stainless steel	
Other internals	Stainless steel	

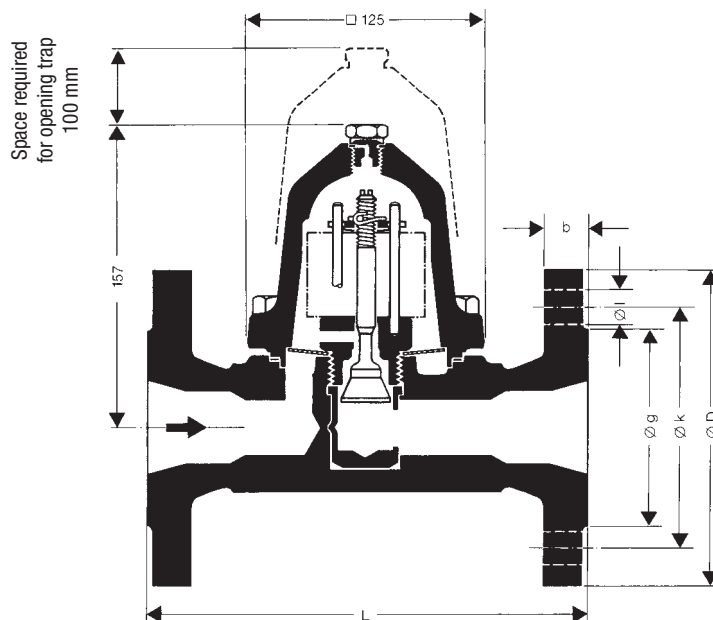
* Physical and chemical properties comply with DIN grade. ASTM nearest equivalent grade is stated for guidance only.

Connections

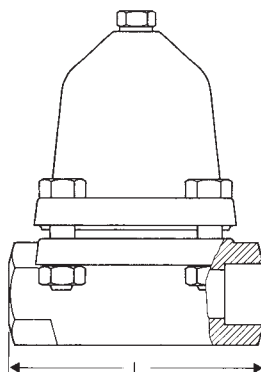
Flanges: DIN 2635, Form C, PN 40
DIN 2636, Form E, PN 63
ANSI B 16.5, 600 RF

Socket-weld ends

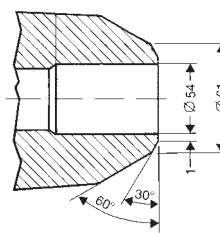
Butt-weld ends



BK 27 with flanged ends



BK 27 with socket-weld ends



Butt-weld ends according to DIN 3239-1 – DN 50 mm – R3, edge form 22 according to DIN 2559

Dimensions and Weights		Connections					
		Flanged		Socket-weld ends		Butt-weld ends	
Nominal sizes DN	[mm]	40	50	40	50	40	50
	[in]	1½	2	1½	2	1½	2
Dimensions	L	230	300	180	180	180	180
	H ₂	157	157	157	157	157	157
Approx. weight	[kg]			9.0	9.0	9.0	9.0

Flange Dimensions		Connections					
		DIN PN 40		DIN PN 63		ANSI 600	
Flange dimensions	D	150	165	170	180	155.6	165.1
	b	18	20	26	26	28.5	31.7
Dimensions	k	110	125	125	135	114.3	127.0
	g	88	102	88	102	73.0	92.1
	l	18	18	22	22	22.2	19.0
Number of bolts		4	4	4	4	4	8
Approx. weight	[kg]	14.7	14.7	18.5	18.5	20	20

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Capacity Chart

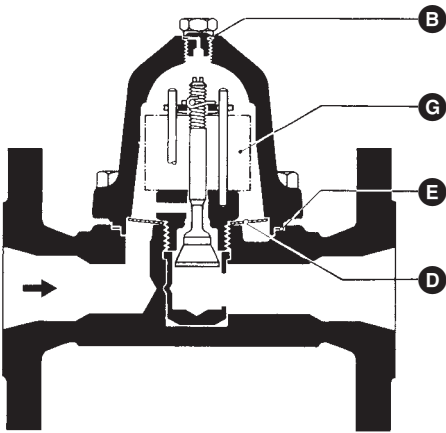
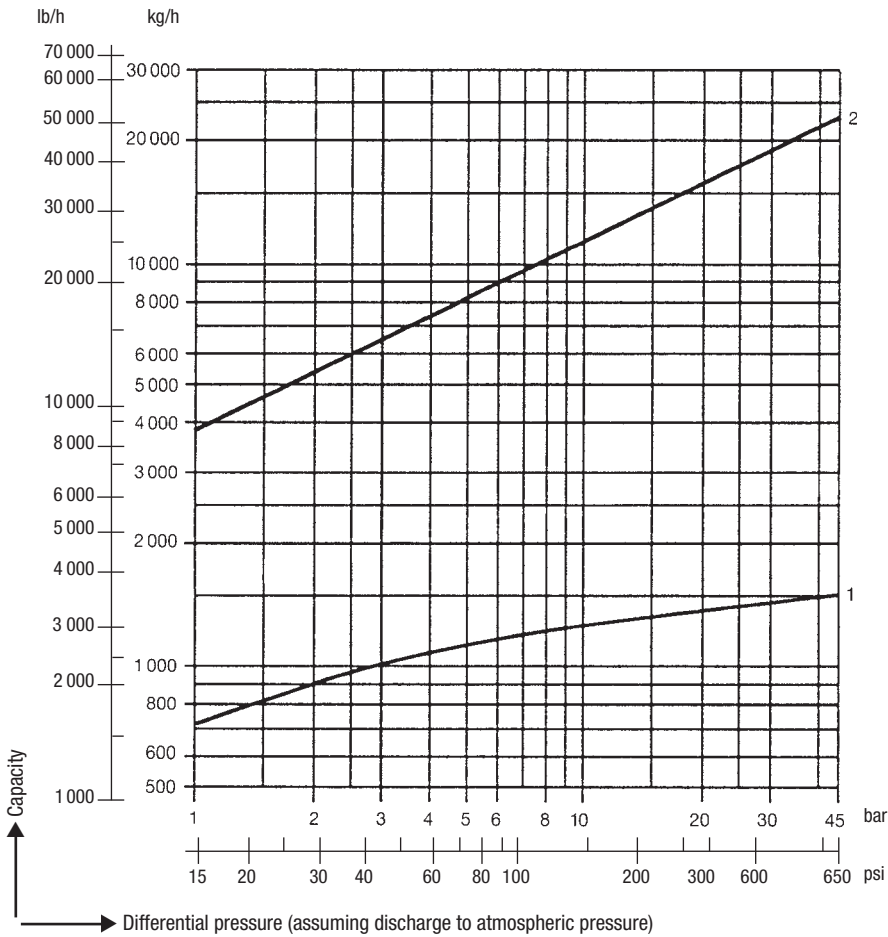
The chart shows the maximum capacities for hot and cold condensate discharge at factory setting (steam-tight closure).

Curve 1

Discharge of hot water with virtually no banking-up.

Curve 2

Cold condensate at a temperature of 20 °C.



Spare Parts		
Item No.	Designation	Order No.
G	Regulator complete	098854
B	Plug gasket	000992
E	Cover gasket	086536
D	Strainer	097018

When ordering please state:

Steam pressure, back pressure, quantity of condensate to be discharged, connections, size, 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 -3.1B.

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

Supply in accordance with our general terms of business.

GESTRA AG

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