Gestra® Steam Trap • Thermostatic Steam Trap

BK 212

3625 psi Maximum Δp (250 bar)

Class Rating: ANSI 2500

Available Sizes: ½", ¾" and 1" (DN 15, 20 and 25)

Application

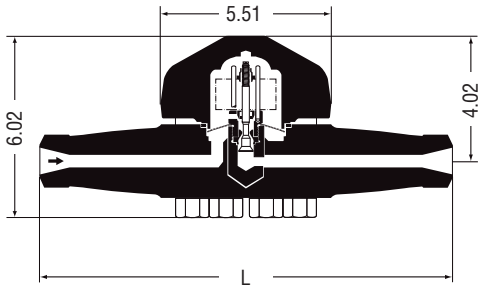
The BK 212 is designed for high pressure drip applications including: steam main drip, turbine protection drain, etc. Excellent for superheated steam drip applications.

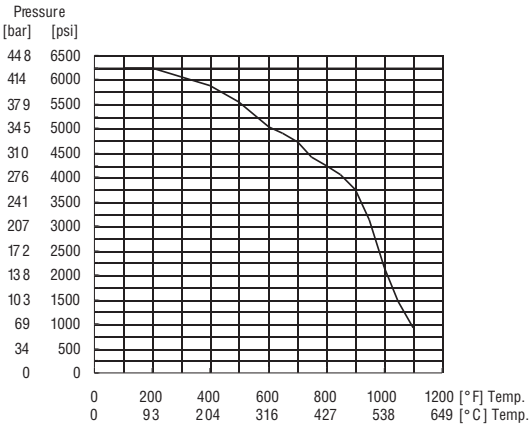
Features and Benefits

- Forged alloy steel body with Titanium body shield to resist flashing damage.
- Titanium alloy valve and seat.
- Pressure assisted "fail open-only" design.
- Standard factory setting discharges hot condensate in a modulating fashion at approximately **18°F** (10°C) below saturation temperatures throughout its operating range.
- One internal bimetallic regulator for all applicable body pressure ranges.
- Staged "control valve" style nozzle reduces wiredrawing damage by reducing flashing. Totally unaffected by water hammer.
- Self draining – will not freeze when installed in gravity drainage position. Can be installed in any position.
- Automatically vents air and non-condensable gases and has a very high (**>9:1**) cold water capacity for rapid start-up.
- Operates with **zero steam loss** throughout its operating range saving steam and money during the life of the trap.
- Easy in-line inspection and maintenance – no need to remove the trap from the piping to clean or replace the internals.
- Valve and seat are a single, modular replacement part.
- Internal stainless steel strainer.
- Integral check valve design.
- Two (2) year guarantee.

Materials

- Body and Cover – ASTM A182 F22
- Cover Bolts – ASTM A193B7 (DIN 1.7258)
- Bimetallic Regulator – Stainless Steels
- Stage Nozzle and Seat Ring – Titanium
- Other Internals – Stainless Steel





Pressure / Temperature Ratings			
Maximum Service Pressure	[psig]	**3814**	**2639**
	[barg]	263	182
Related Temperature	[°F]	**887**	**977**
	[°C]	475	525
Maximum Differential Pressure	**3625** psig (250 barg)		

Dimensions and Weights			End Connections								
			Flanged			Screwed Socket-Weld			Butt-Weld		
Nominal Sizes		[inch]	**1/2**	**3/4**	**1**	**1/2**	**3/4**	**1**	**1/2**	**3/4**	**1**
		[mm]	15	20	25	15	20	25	15	20	25
Dimensions	L	[inch]	**17.7**	**18.9**	**18.9**		**13**			**13**	
		[mm]	450	480	480		330			330	
Approx. Weight		[lbs]	**47.1**	**49.3**	**55.9**		**33.9**			**33.9**	
		[kg]	21.4	22.4	25.4		15.4			15.4	

FLOWSERVE

3625
psi
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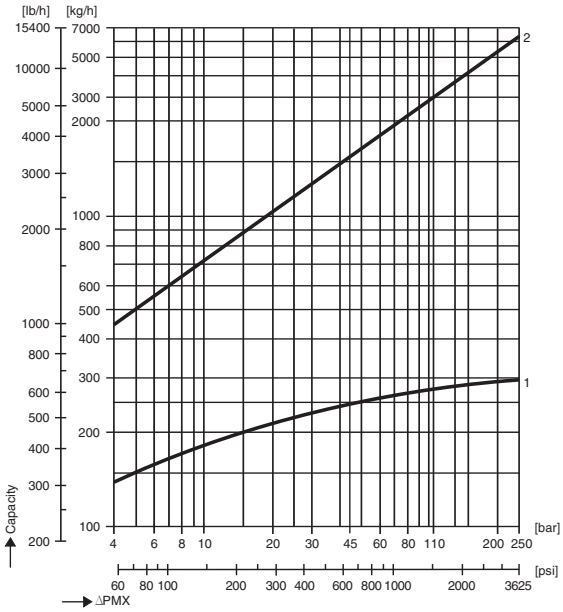

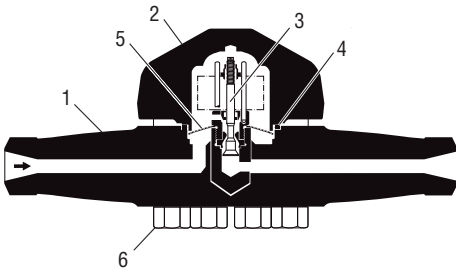

Standard Spare Parts		
Item Number	Description	BK 212
1	Body	
2	Cover	
3	Regulator	371862
4	Cover Gasket	374009
5	Strainer	096345
6	Cover Bolts	089342

Capacity Charts
The charts show the maximum capacities for hot and cold condensate. The capacities are a function of differential pressure or the difference between inlet and outlet pressures for the trap.

Curve 1 shows the maximum capacity when discharging hot condensate that is 18°F (10°C) below steam saturation temperature. For example, at a differential pressure of 1,000 psi (69 bar), the maximum hot capacity is approximately 600 lb/hr.

Curve 2 shows the maximum capacity when discharging cold condensate at a temperature of 68°F (20°C). For example, at a differential pressure of 1,000 psi (69 bar), the maximum cold capacity is approximately 4,800 lb/hr.

Temperature Discharge Options
Special factory adjustment of the regulator for increased undercooling is available for open discharge applications where sensible heat savings and flash steam suppression are desirable. For more details, contact your Gestra representative.

Body Pressure/Temperature Ratings
The curve shows the maximum shell (body) pressure and temperature rating. Operating differential pressure is limited to 3,625 psi.

Material/Test Certificates
Test certificates can be issued on request in accordance with EN 10204 – 2.2 and -3.1B. Heat codes from Body and Cover are required.

Available End Connections
Flanges: ANSI 2500RF

Socket-weld ends (Class 9000)

Butt-weld ends (Sch 160 or XXS)

How to Order
Specify trap, end connection size and type.

For Example: BK 212 ½" Socketweld