Continuous Blowdown Valves
Reactomats
BA 210
PN 63 – 320, DN 25 mm (1")

BA 210

Description

The valve is connected to the water space of the boiler. Precise adjustment of blowdown rate by turning regulating lever on the calibrated scale plate (see charts on back page).

With the regulating lever in blow-off position the capacity is approximately three times the capacity at scale division 100.

The BA includes a sampling valve for checking the boiler-water concentration.

Application

Continuous blowdown of steam boilers, evaporators, Quench coolers and similar installations. Regulating or dosing valve for all industries.

Connections

Butt-weld ends for pipe according to DIN 2448:

30 x 2.6 to 4.5
31.8 x 2.6 to 5
33.7 x 3.6 to 6.3
38 x 5.6 to 8
ANSI B 36.10: 1" Schedule 160

Other dimensions or weld-neck flanges on request at extra cost.

Design

Straight-through valves with butt-weld ends, weld-neck flanges at extra cost. With GESTRA stage-nozzle, regulating lever, calibrated scale and sampling valve.

On request with electric actuator as BAE 28 – 211.



BA 28 – BA 211

Range

If used as continuous blowdown valve (at saturation temperature):

BA 210 max. 142 bar g (2060 psig)

Max. temperature		°C	120	200	250	300	350	400	450	500	530
Max. service pressure											
	BA 210 PN 250*)	barg	250	200	175	150	140	125	–	–	–
		psig	3625	2900	2540	2175	2030	1810	–	–	–

*) For relatively small capacities (see charts) use BA 29k, 210k or 211k with special stage nozzle.

Item 1,2,3,4
C1Z95S1S (SPM-10710)
C1Z95S2F (SPM-10810)
C1Z969LX (SPM-10910)
C1Z969K4 (SPM-11010)

Materials

BA 210
Lower-body part: C 22.8 (1.0460)
Upper-body part*): C 22.8 (1.0460)
Nozzle insert*): G-X 22 CrMoV 12 1 (1.4931)
Stage nozzle*): X 8 CrTi 17 (1.4510)

*) additionally armoured

Order Specifications

Valve type, nominal pressure (PN), nominal size (DN), capacity, service pressure, back pressure, fluid, application (e.g. type of boiler).

The following test certificates can be issued on request, at extra cost:
In accordance with EN 10204-2.1, -2.2, -3.1A, -3.1B and -3.1C.

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.

Enquiry Specification

Reactomats (continuous blowdown valves) with GESTRA stage nozzle, regulating lever, calibrated scale and sampling valve.

Application (optional) as continuous blowdown valve for steam boilers, evaporators and similar installations or as regulating/dosing valve.

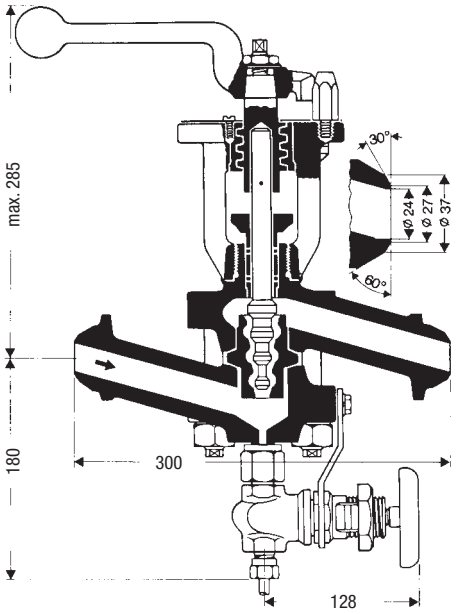
Indications on nominal pressure (PN), nominal size (DN), type of connection, service pressure, back pressure, temperature, fluid, application (e.g. type of boiler).

Continuous Blowdown Valves

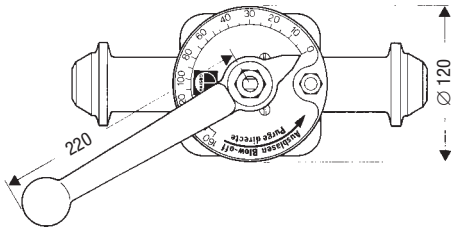
Reactomats
BA 28, BA 29, BA 210, BA 211
PN 63 – 320, DN 25 mm (1")

Dimensions

BA 28 – 211 (approx. weight 21 kg)



Sampling valve with compression fitting 8 mm O.D.



Supply in accordance with our general terms of business.

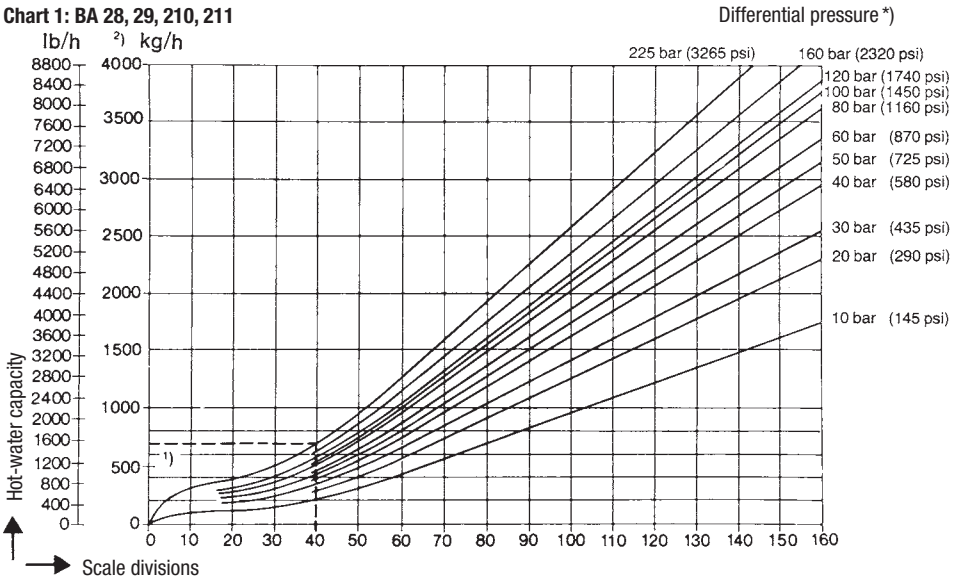
Types, Capacity, Scale Division

Selection of valve type according to pressure and temperature see under "Range".

Scale divisions for required capacity (blow-down quantity) see charts.

In blow-off position (regulating lever against stop) the capacity is approximately three times the capacity at scale division 100.

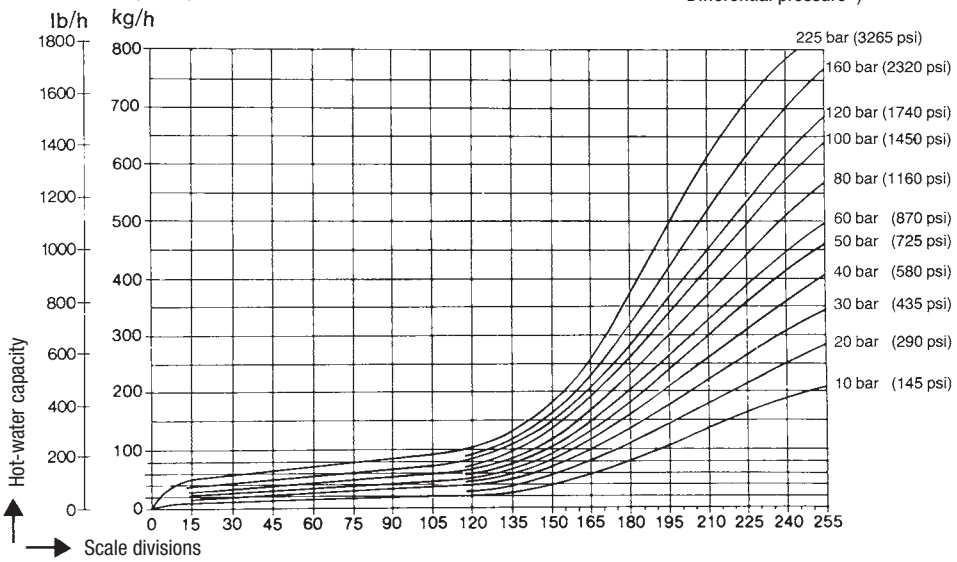
Chart 1: BA 28, 29, 210, 211



1) For relatively small quantities (see dotted lines in chart) use BA 29k, 210k or 211k (with special stage nozzle). Scale divisions according to chart 2.

2) If the quantity of boiler water to be discharged is higher than the values covered by chart 1, GESTRA Reactomats BA 39 with radial stage nozzle should be used.

Chart 2: BA 29k, 210k, 211k



*) Differential pressure (working pressure) = **Inlet** minus **outlet** pressure.

If the boiler water is lifted after the Reactomat, the differential pressure is reduced by approximately 1 bar for 7 m (or 2 psi for 3 feet) in lift.