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

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.

Range
If used as continuous blowdown valve (at saturation temperature):
BA 28 max. 63 bar g (915 psig)
BA 29 max. 94 bar g (1360 psig)
BA 210 max. 142 bar g (2060 psig)
BA 211 max. 226 bar g (3280 psig)

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
36 x 5.6 to 8
ANSI B 36.10: 1" Schedule 80 and 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.

Materials
BA 28
Body (two parts): forged steel C 22.8 (No. 1.0460 DIN)
Nozzle insert: cast stainless steel G-X 22 CrMoV 12 1 (1.4931)
Stage nozzle: stainless steel C 20 Cr 13 (1.4021)
BA 29
Body (two parts): C 22.8 (1.0460)
Nozzle insert*: G-X 22 CrMoV 12 1 (1.4931)
Stage nozzle*: stainless steel X 8 CrTi 17 (1.4510)
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)
BA 211
Lower-body part: forged alloy steel 13 CrMo 44 (1.7335)
Upper-body part*: 13 CrMo 44 (1.7335)
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).

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

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

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.