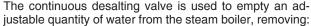
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Continuous desalting valve

For steam boilers

Mode 560



- Organic matter and mineral salts in solution. (Calcium, magnesium, sodium, potassium, iron, bicarbonate ions, chlorides, sulphates, nitrates, ...etc.).
- Solid materials in suspension. (Sand, clay, metal residues, rock residues, organic matter, ...etc.).

The continuous bleeding process prevents:

- Damage caused by erosion and perforation, entailing the following high costs:
 - Direct: Replacement or repair of materials.
 - Indirect: Stoppages, product losses, ...etc.
- Danger of boiler explosion.

and reduces:

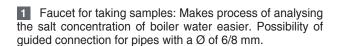
- Incrustations and sediments caused by precipitation of calcium and magnesium salts, which obstruct thermic transmission and which cause unnecessary and excessive fuel consumption.
- Foam formation caused by excessive saline concentration, with its corresponding drag.

Specifications

 Consists of Faucet for taking samples and Measuring nozzle in one single unit.



EN ASME/ANS

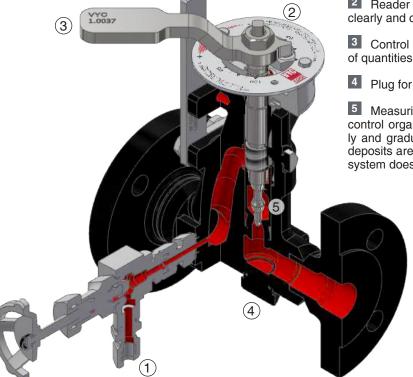


Reader plate: Allows bleeding positions to be seen clearly and concisely, even from some distance away.

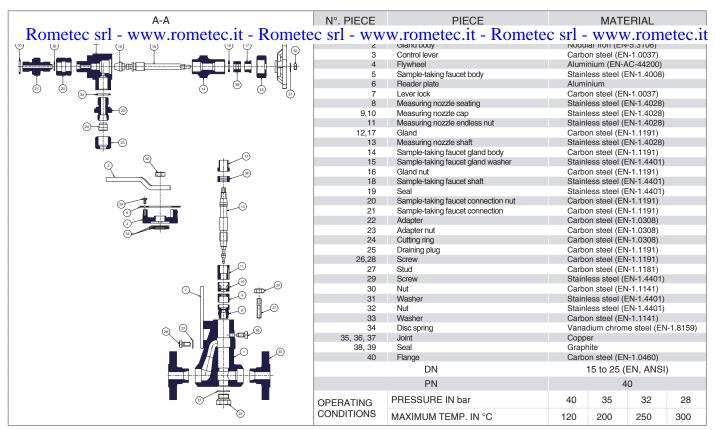
3 Control lever. For precise and progressive adjusting of quantities to be bled.

Plug for draining the measuring nozzle.

Measuring nozzle: Acts as a valve, measuring and control organ. The water under pressure expands silently and gradually into it. Thus, dirt, incrustations and salt deposits are removed. Due to this gradual expansion, the system does not suffer erosion.



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Installation

- a) Make a by-pass with some kind of drilling pipe, leading out from inside the steam chamber at 30÷50 mm. below the minimum water level
- b) Connect this by-pass to the continuous desalting valve, which can be installed in any position.
- c) Convey the water coming out of the valve to the outlet. When the bleeding percentage is high, the heat can be overcome using an exchanger.

Operation, efficiency and emptying

To establish the boiler's salinity, the quantity of salts extracted per unit of time must be equal to that of the water supply in this same period.

P = Amount of water extracted in the bleeding process (kg/h)

R = Real steam production of the boiler (kg/h)

S = Conductivity of the water supply (µS/cm).

C = Desired conductivity inside the boiler (μ S/cm).

The effect is achieved when the salts are removed continuously and without movement in order to prevent uncontrolled water losses from the boiler.

The amount of water extracted in the bleeding process:

$$P = \frac{R \cdot S}{C \cdot S}$$

Using the calibrated scale, the lever allows exact adjustment of the measuring nozzle. We shall set the lever at the position that allows us to remove a volume of water (P) at a differential pressure. Differential pressure = Working pressure - (Back pressure + Load losses). Continuous desalting is achieved with adjustment values of 0 to 35.

The position "Direct bleeding" corresponds to the section of nozzle that is totally open and allows complete bleeding in a few seconds. In this case, the volume is approximately three times greater than that for 35 on the scale.

The combination of the Continuous desalting valve* and the Blowdown valve for bleeding dirt and sludge* is essential for optimizing the boiler's efficiency, and include its maximum security and availability.

Neither of them can be replaced with others not designed for this specific application.

Their moderate cost is depreciated in the short term.

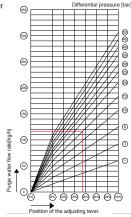
* (See brochure for Models 560-A).

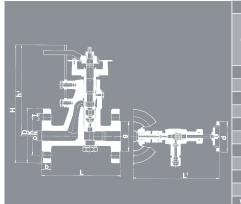
• (See brochure for Models 260, 260-A and 460).

Example: $\Delta p = 15$ bar R = 800 kg/l. $S = 800 \mu\text{S/cm}$ $C = 6200 \mu\text{S/cm}$

Amount of water extracted in the bleeding process: P= 118kg/h

Of these, between 5-10% by blowdown valve for bleeding dirt and sludge (Mod 260, 260-a or 460) and the remainder by means of continuous desalting valve (Mod 560 or 560-A).





	DN		15			20			25	
	CONNECTIONS	I- Flanges PN-40 EN 1092-1								
		II- Flanges class 150 lbs ASME/ANSI B 16.5								
		III- Flanges class 300 lbs ASME/ANSI B 16.5								
ı			II	III	1	H	III	1	H	III
ı	Н	222	219	222	227	224	232	232	229	237
ı	h1	174			174			174		
	L	150			150			150		
ı	L1	167			167			167		
Ī	d	60			60			60		
	D	95	90	95	105	100	115	115	110	125
	K	65,00	60,30	66,70	75,00	69,90	82,60	85,00	79,40	88,90
	l l	14,00	15,90	15,90	14,00	15,90	19,10	14,00	15,90	19,10
	b	16,00	11,20	14,30	18,00	12,70	15,90	18,00	14,30	17,50
	DRILLS N°.	4			4			4		
	WEIGHT IN Kgs.	5,20	4,63	5,09	5,78	5,03	5,85	6,34	5,66	6,63
	CODE 2102-560.	8024	80240	80243	8344	83440	83443	8104	81040	81043



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