

BLOWDOWN CONTROL FOR STEAM BOILERS

FUNCTION

SETEC's automatic blow down control system is specially designed as an extra equipment for steam boilers with unattended operation, so that the period without attention the blow down are secured. If the blow down are neglected for a longer period, the concentration of sludge, salt, and water treatment chemicals for the boiler will heap up the boiler water. When the water quality demands from the boiler manufactures instructions, there can be problems as overboiling, foam and unsteady water level, which can lead to function failure of the level controllers for low level alarm and the feed water control systems.

The blow down control system consists of an amplifier box module type SBD, a blow down valve with pneumatic or electrical actuator. The amplifier box/regulator type SBD has adjustable functions for stand-by period (pause) and blow down impulses. The pause function can be adjusted from 0,5 - 12hrs. and the length of the blow down pulse can be adjusted from 2,5 - 60 sec. The blow down valve opens when the regulator connects the control power 230VAC (Open impulse) to the electrical actuator or to the solenoid valve, which open for the compressed air. The blow down ceases when the regulator disconnects the open impulses and instead connects closing impulses to the electrical actuator. The blow down valve with pneumatic actuator is provided with a spring return systems. When the regulator disconnects the open impulse to the solenoid valve, the compressed air is accession to the pneumatic actuator and the spring in the actuator will close the blow down valve.

BLOW DOWN VALVE WITH ELECTRICAL ACTUATORS

Blow down valve (Ball valve) type 323 has threaded connection 1/2" - 1. 1/2", and type 324 has flange connection DN15 - DN50 PN40. The valves can be used for steam boilers with max. working pressure : 2,5MPa.

BLOWDOWN VALVE WITH PNEUMATIC ACTUATORS

Blow down valve type 200 (Piston valve) has threaded connection in dim. 1/2" - 1.1/2" with valve body made in stainless steel. The valve are at pressure range PN16. Blow down valve type 273 (Piston valve) has flange connection DN20 - DN50 PN25, the valve body is made of steel GGG40.3. Blow down valve (Ball valve) type 223 has threaded connection and type 224 has flange connection in dim. DN20 - DN50 PN40 the valve body is made of steel A150, and can be used for steam boilers with max. Working pressure: 2,5MPa.

The SBD is approval by Nemko and Det Norske Veritas.

