

Desalting valve type H-ASV2-...

Application and function

The motor actuated desalting valve type H-ASV2 is used for continuous and automatic draining of saline boiler water.

Technical basic equipment

Constructions: H-ASV2-0 as globe valve
H-SV2- with sampling valve
H-ASV2-2 with 12 mm cutting ring connection for sampling pipe

Actuator MC163

- Micro controller actuated
- Automatic self-adjustment during commissioning
- Wear-resistant odometer system (reverberation sensor)
- Undetachable stroke storage in the EEPROM
- External status signal possible for manual timing
- Error recognition during continuous operation (in case of obstruction through foreign impact)
- Cap can be put on in 4 positions, 90° locking, no screws required
- Safety position during actuation of a binary signal (Frost protection)
- Actuator has protective insulation at 230 Vac

Materials:

- Valve housing: cast steel GS-C25N
- Spindle sealing: graphite
- Inner parts: needle cone and screwed seat made of hardened CrNi steel

Available (optional) versions

- Special voltage: 24Vdc or 115Vac
- Protection IP65

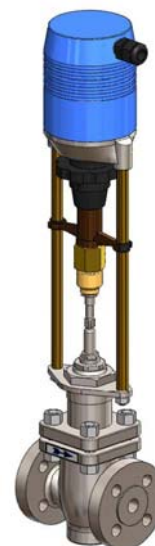
Technical data

Valve

| | | | | |
|--------------------|----------|--------------------|----|----|
| Allowable pressure | PS [bar] | 32 | | |
| Nominal diameter | DN | 15 | 20 | 25 |
| Leak rate | | 0,01% of kvs-value | | |
| kvs-value | | 0,16 - 2,5 | | |

Actuator MC163

| | | |
|-------------------|------------|---|
| Voltage | [Vac] | 230 +6%/-10% |
| Frequency | [Hz] | 50/60 5% |
| Coupling force | [kN] | 1,3 |
| Coupling time | [s/mm] | adjustable on site; 4 ¹⁾ , 6 |
| Hub | [mm] | max. 30 |
| Power consumption | [VA] | max. 14 |
| Operating mode | EN 60034-1 | S3-50% ED c/h 1200 |
| Protection | EN 60529 | IP54 |



Actuator MC163

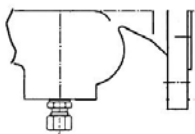
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|--------------------------|-------|-------------------|
| All. ambient temperature | [° C] | 0 up to +50 |
| Weight | [kg] | ~ 2,4 |
| Maintenance | | low maintenace |
| Limit switching | | dependent on load |

Continuous control:

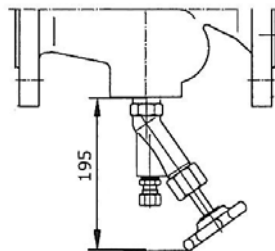
Since the density and thus also the salinity of the boiler water increases by the constant evaporation process in the steam boiler, the salinity of the steam boiler must be held in accordance with the valid regulations of the boiler manufacturer in order to avoid damages of the plant. You can achieve this by draining continuously a certain boiler water quantity. With the increasing salinity also the conductivity of the boiler water rises. This conductivity is controlled by the combination of a conductivity probe type EL22 with a conductivity limiter type FLB1. The conductivity limiter FLB1 sends a signal between 4-20 mA (according to the the conductivity) to the universal controller type KS40-1. Then the KS40-1 takes over the regulation of the water quantity to be drained and thus controls the desalting valve type H-ASV2.

| PS [bar] | DN | L | ~ H | ø D | ø k | z | ø d | b | f | h | Hub |
|----------|----|-----|-----|-----|-----|------|-----|----|---|-----|-----|
| 32 | 15 | 130 | 437 | 95 | 65 | 4x14 | 45 | 14 | 2 | 200 | 20 |
| | 20 | 150 | | 105 | 75 | | 58 | 16 | | | |
| | 25 | 160 | | 115 | 85 | | 68 | 16 | | | |

H-ASV2-2



H-ASV2-1



H-ASV2-0

