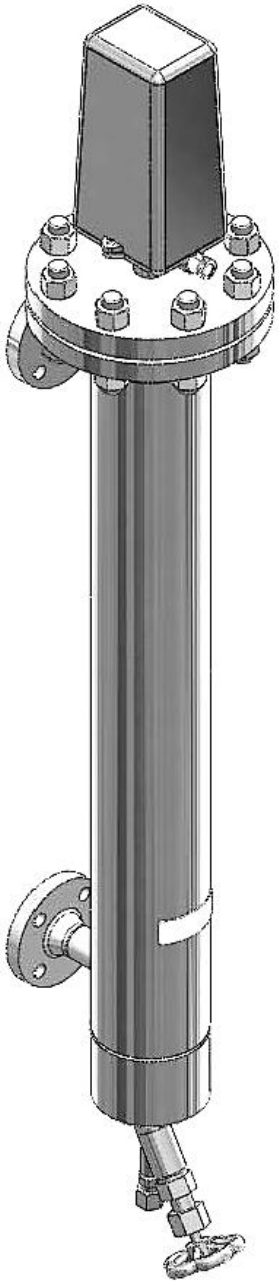
Water level controller and limiter

BA14 / RBA24 / RBA34



Edition 11/2020

D-07-B-50203-EN-00

ASSEMBLY and OPERATING MANUAL

Product philosophy

Thank you for placing your trust in IGEMA and deciding in favour of one of our high-quality products.

For more than 100 years, measuring and control systems have been developed, produced and sold worldwide under the IGEMA brand name.

“Steam is our passion” and we offer you the entire programme for the safe and economic operation of your plants, especially in the steam and condensate sector.

Please read the installation and operating instructions carefully to ensure a safe and reliable operation.

In addition to the information on installation and operation, you will also find important information on maintenance, care, safety and value retention of your measuring and control system.

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1. Important safety instructions

KEEP THESE INSTALLATION AND OPERATING INSTRUCTIONS IN A SAFE PLACE!

Commissioning as well as maintenance and repair work may only be carried out by qualified persons in compliance with the installation instructions given in this operating manual. The correct installation, commissioning, maintenance and operation of the device presupposes that the person in charge is familiar with measurement and control systems and complies with the general installation and safety instructions. In addition, the correct and intended use of tools and the handling of safety devices must be ensured. Unqualified persons must not be assigned the above tasks!

IGEMA GmbH accepts no liability for damage to property or personal injury caused by unqualified persons or by failure to observe these installation and operating instructions. If no sufficiently qualified person can be found, IGEMA GmbH can be commissioned with the installation/maintenance.

1.1 Symbols used in these instructions

In the following installation and operating instructions, safety instructions are marked with the following symbols:

 Danger	This symbol and signal word refer to a potentially hazardous situation which could result in death or injuries if ignored.
 Caution electrical voltage	This symbol and signal word indicate live parts with an immediate danger of death from electric shock.
 Caution hot	This symbol with a signal word indicates a potentially hazardous situation that can result in severe burns and scalds all over the body.

 Caution	This symbol and signal word refer to a potentially hazardous situation which could result in personal injury, property and environmental damage if ignored.
 Caution	This symbol and signal word refer to a potentially hazardous situation which could result in damage to the equipment if ignored.
 Info	This symbol indicates useful information and recommendations as well as measures that will prolong the value of your measuring and control system.

1.2 Intended use of the device


Caution

Use these installation and operating instructions, the identification on the rating plate (see 5.6) and the technical data sheet to check whether the device is suitable for the intended use/application. The device complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

The device may only be used to indicate fill levels on containers.

The maximum values of the pressure and temperature range of the device must be checked before installation. If the maximum allowable operating values of the device are lower than those of the system on which it is to be installed, protective instruments for the device, such as pressure reducers or similar, must be provided to avoid limit situations. The device may only be used in accordance with the information in these installation and operating instructions or for the parameters and applications agreed in the supply contract. (see rating plate, 5.6) The operator of the direct water level indicator is obliged to familiarise himself on the compatibility of the medium and the device. In case of doubt, contact the relevant installation manager or site manager.

The correct installation position, alignment and flow direction of the device must be observed! Before installing the IGEMA product on boilers or containers, it is essential to remove all protective covers and, if necessary, the protective film from rating plates and sight glasses.

1.3 Safety at work

Danger

Before installation or carrying out maintenance work on the device, safe access must be ensured and a secure working area with sufficient lighting must be defined and marked out. Always use lifting equipment for heavy loads!

Before starting any work, carefully check which liquids or gases are or have been in the pipeline. (flammable substances, irritating substances, substances hazardous to health) When opening or dismantling the device, residues of the medium can escape. Subsequent fumes are also possible in unpressurized and cold systems. Use designated PPE such as safety goggles and respiratory protection!

Special attention must be paid to the condition of the environment around the installation or maintenance site. Be aware of e.g.: potentially explosive atmospheres, lack of oxygen in tanks and pits, dangerous gases/liquids, extreme temperatures, hot surfaces, fire hazard (e.g. during welding) and moving machine and system components. Protect yourself from excessive noise by taking the required protective measures.

For all maintenance work or new installations, on new or existing boilers or vessels, it is imperative to check that the boiler or vessel has been depressurised and that the pressure has been safely reduced to atmospheric pressure. In principle, no system should be regarded as unpressurized even if indicated by pressure measuring devices such as pressure gauges or sensors. When releasing the pressure, make sure that no persons are in the release area. Carefully check whether you and/or other persons in the vicinity need PPE to protect yourself from external influences such as high and low temperatures, radiation, noise, danger to eyes, loose objects that can fall down or chemicals.

There is always a risk of injury when handling large and/or heavy equipment. Observe the load handling regulation as a minimum requirement for working with loads. Avoid handling the device with your own physical force, e.g. by lifting, pulling, carrying, pushing or supporting it, especially to prevent back injuries. Use lifting equipment to move heavy and bulky equipment in accordance with Article 1, Section 2 of the German Load Handling Regulation (LasthandhabV).

Caution hot!

Under normal operating conditions the surface of the device can become very hot! Under the maximum operating conditions, the surface temperature can exceed 350°C. After shutting off or, if necessary, shutting down the boiler, wait until the temperature has normalized to room level. To avoid the risk of burns and scalds, always use PPE including safety goggles!

1.4 Safety instructions for this device

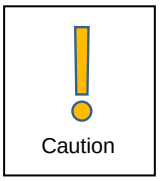
These installation and operating instructions are an integral part of the device and must be forwarded to the responsible departments "Goods inward, Transport, Installation, Commissioning and Maintenance". They must be kept in such a way that the technical staff have access to these documents at all times. If the device is passed on to a third party, these installation and operating instructions must also be included in the national language of the third party.

Avoid shocks and hard contact during transport, as this can lead to damage. During intermediate storage, the device must be kept dry and secured against damage.

When servicing the unit, make sure to use sharp-edged internal parts and avoid shards of broken glass. There is a risk of cutting hands and arms! Always wear work gloves when changing packing, valve seat and valve plug.

For units with a dead weight of 30 kg or more, the customer must provide adequate support (e.g. via a spring suspension device, etc.). This can be attached to the holding strap/eyelet on the device.

When returning goods to IGEMA GmbH, the applicable safety and environmental laws according to GGVSEB [German ordinance on the national and international carriage of dangerous goods by road, rail, and inland waterways] must always be observed. If there are any risks to health or the environment due to residues or the device has a mechanical defect this must be indicated when returning the device and the necessary precautionary measures must be taken. If the returned goods are devices that have come into contact with or contain hazardous substances, a safety data sheet must be enclosed, and the goods must be clearly marked. In addition, the hazardous substance must be reported to the logistics service provider.



Pay attention that the magnetization of the permanent magnets in the unit is not changed!
Avoid magnetic fields close to the units!

1.5 Exclusion of liability

IGEMA GmbH Mess- und Regelsysteme will assume no liability if the above regulations, instructions and safety precautions are not observed and followed. If they are not expressly listed in the installation and operating instructions, changes to an IGEMA device are carried out at the risk of the user.

The magnetic switch may not be opened.
Each warranty claim expires if the test seal is damaged.

2. Contents of packing

The unit is delivered as complete unit.

3. Important information

3.1 Intended use

Float switch RBA24/34, BA14:

The float switch type RBA24/34 can be used as two-point water level controller or limiter without special design for steam generators.

The float switch type BA14 can only be used as water level limiter without special design.

The product corresponding to the EU 2014/68/EU.
Applied standards as per EN 13445 / EN 12952 / EN 12953 / AD 2000 or ASME-Boiler.

Type	EC type-examination registration number
BA14	Z-D-002-10439/14-Rev.2
RBA24,34	Z-D-002-10440/14-Rev.2

4. Explanations

4.1 System description

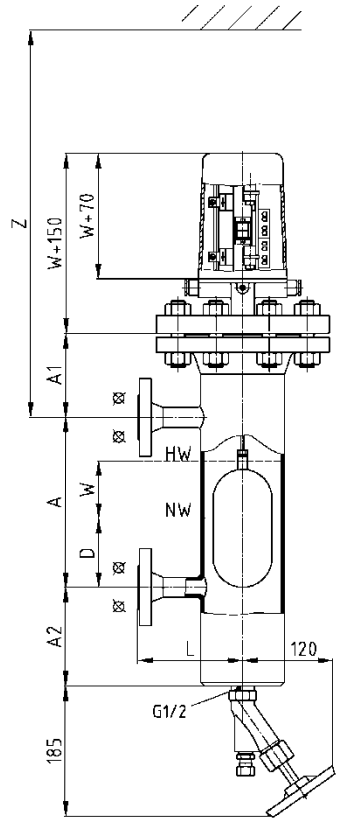
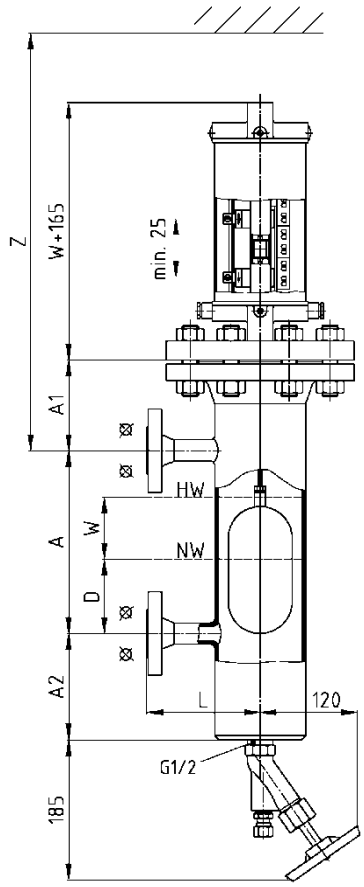
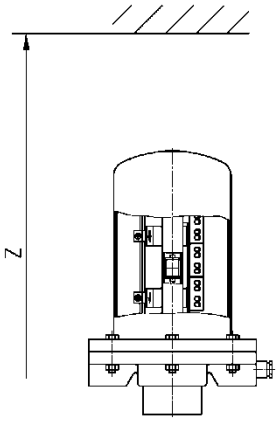
The float switch (different versions) is used to control or to limit the level of containers and steam generators.

4.2 Function

The unit works according to the physical law of the communicating tubes.
The water level controller or limiter is a float actuated unit where the transmitter magnet connected with the float via the float rod actuates the magnetic switches located inside of the switch housing without direct contact.

5. Technical data

5.1 Versions

BA14, RBA24 IP54/65	RBA34 IP54	RBA34 IP65
		

Switch ranges:

Range of adjustment	W [mm]								
BA 14	40								
RBA 24		100	150						
RBA 34				250	350	450	550	650	750

Dimensions A, Z:

Type	Dim. Z [mm]
BA14, RBA24	A-D+550
RBA34, IP54	A-D+550
RBA34, IP65	A-D+600

but min. 2W+525

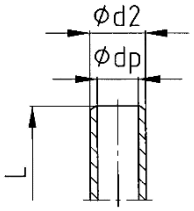
Dim [mm]	A1		A2	
PS [bar]	32	80	32	80
BA14, RBA24/34	112	152	140	

Valves:

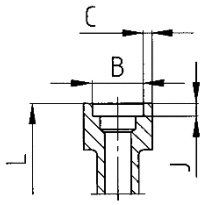
Valve	Type
Drain valve	AV500, AV520, AV580, A8550

5.2 Type of connection

Standard : flanges according to DIN or ASME



On request : welding end or socket welding
according to DIN or ASME



5.3 Materials

Components in contact with the medium and pressure-holding components are made of C steel according to DIN or ASME.

5.4 Application limits

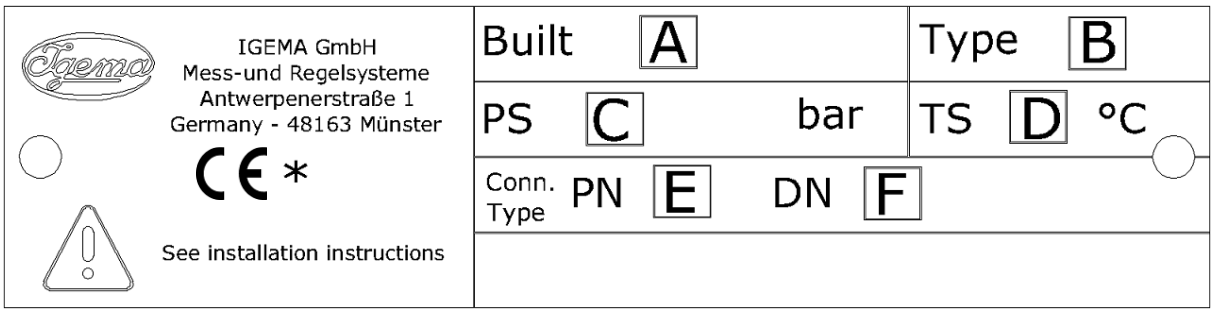
Max. allowable pressure PS	[bar]	32	50	80
Max. allowable temperature TS	[°C]	239	265	296

5.5 Corrosion resistance

The safety of the unit is not influenced by corrosion if it is used as intended

5.6 Identification plate / Marking

The following data are indicated on the identification plate:



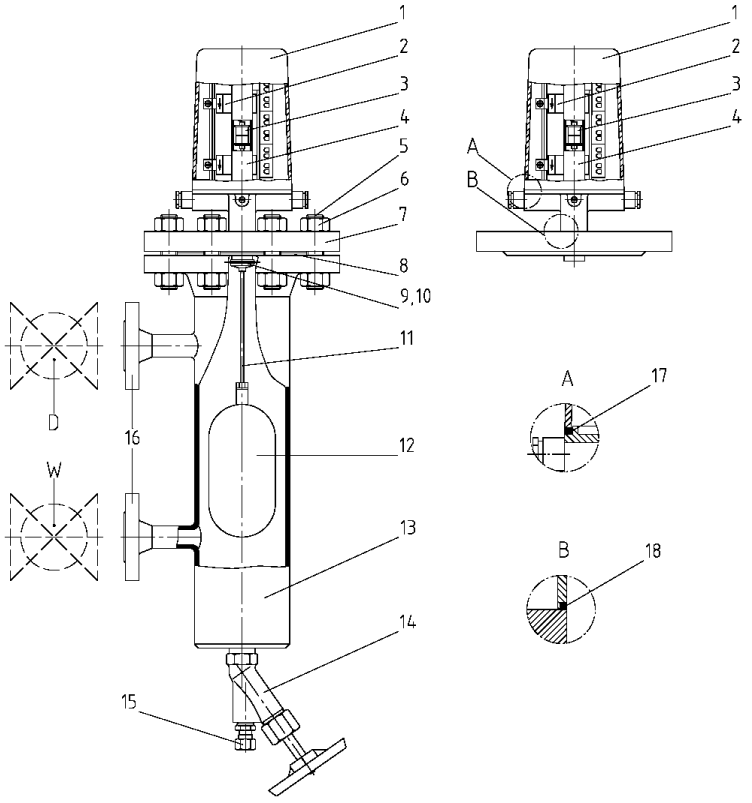
* marking depending on the realization

A Date of manufacture + Order number
B Type of unit
C Max. allowable pressure
D Max. allowable temperature
E Nominal pressure (not listed)
F Nominal diameter

6. Construction

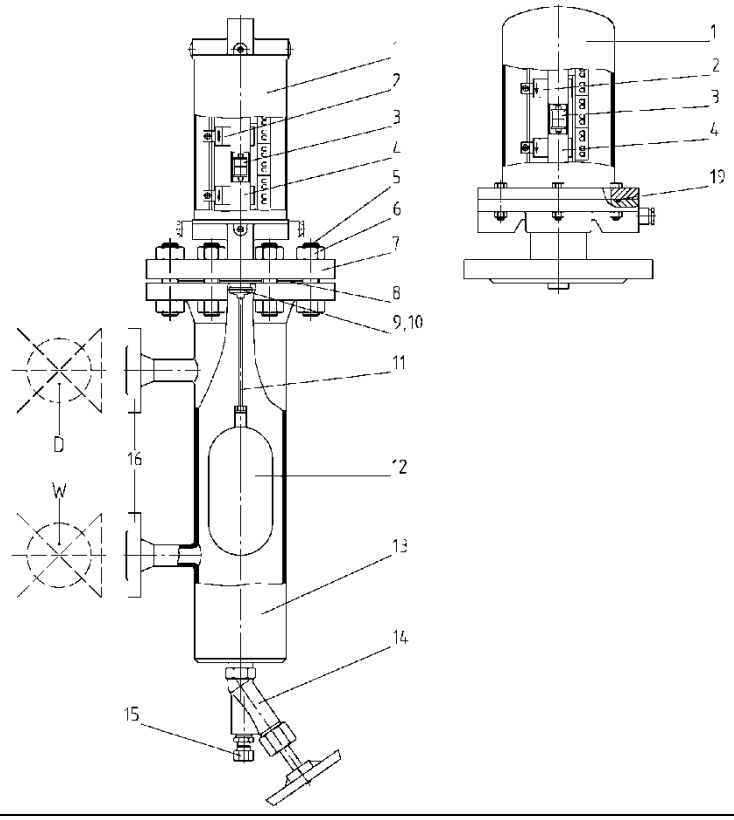
BA14, RBA24

IP54 IP65



RBA34

IP54 IP65



Legende

(1) Switch housing
(2) Magnetic switch
(3) Transmitter magnet
(4) Transmitter tube
(5) Thread bolt
(6) Hex nut
(7) Upper part
(8) Sealing ring
(9) Transmitter tube cap
(10) Retaining spring
(11) Float rod
(12) Float
(13) Standpipe
(14) Drain valve
(15) Drain connection
(16) Connection stud
(17) O-ring
(18) O-ring
(19) O-ring

7. Assembly

Connect shutoff valves (W+D) only with horizontally orientated spindle; the flow direction "⇨" on the valves (W+D) has to point out into the direction of the standpipe (13)!

Connect unit free of tension with switch housing (1) turned upwards to the boiler studs equipped with shutoff valves.

Pay attention that the height of the LWL mark on the standpipe of the unit corresponds to the one of the boiler!

7.1 Version with flange

- Respect installation position!
- Remove protection caps from connection flanges. Caps only serve as transport protection.
- Ensure that sealing surfaces are clean and undamaged.
- Use sealing material as per EN1514 and screws as per DIN2510 or DIN974 (material 1.7709).
- Mount float switch.

7.2 Version with welding end

- Respect installation position!
- Remove protection caps. Caps only serve as transport protection.
- Assembly only with welding process 111 (manual arc welding) and 141 (tungsten inert gas welding).

7.3 Heat treatment of weldseams

Supplementary temper tests of weldseams are not required!

7.4 Drain piping

- Check connection drain valve (14) / standpipe (13) and re-tighten if necessary.
- Mount drain piping on drain valve (15).

Ensure that drain piping has free outlet to atmosphere and is protected from pressure peaks!

- Close valves.

8. Electrical connection

Caution

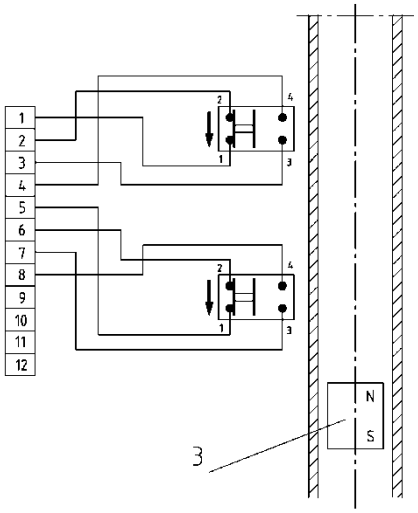
Only skilled and qualified personnel may carry out the electrical connection according to the wiring diagram!

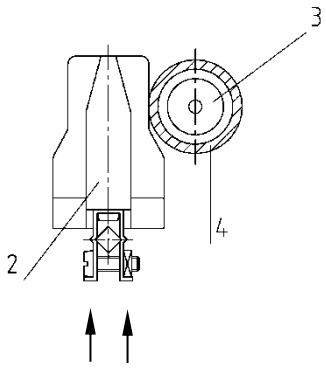
Respect the instructions of the VDE (Association for Electrical, Electronic & Information Technologies) and of the local network operators for the installation to be provided by the customer!

Only use cables that are suitable for the operating range!

Observe the switching time of the magnetic switch when designing a safety circuit. Adhere to basic and reliable safety principles as per DIN EN ISO 13849 for electrical components.

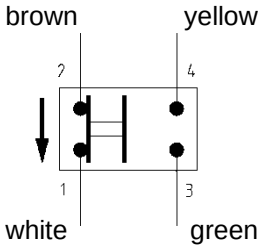
8.1 Wiring diagram





Identification arrow

Connection wires:



We recommend to use customary RC combinations or a suitable varistor (e.g. 0,1 µF/100Ω) as inductive consumer to extend the contact life of the magnetic switch. Resistance value (Ω) and power rating (W) depend on customer indications.

We suggest to use silicon cables free of acetic acid for the further connection cable in the area „connecting housing inside“.

8.2 Connection magnetic switch

- Open switch housing (1) and remove foam cushions between transmitter tube (4) and magnetic switch(es) (2).
- The magnetic switches are already rigidly mounted inside of the switch housing and electrically connected to the terminals.
  The magnetic switch can be connected optionally as breaker, maker or change-over contact. Switch base is marked with an arrow.
- If the switch is correctly mounted, the arrow should point downwards.
- Carry out electrical connection.
- Finally ensure that no cable gets in contact with hot elements.

8.3 Technical data magnetic switch

Kind of contact	bistable
Contacts	1 breaker / 1 maker
Connection wire	1 x 0,5 mm² (16 x ø 0,2) – Cu tinned / PTFE
Wire length L	200 mm
Max. perm. temperature	-70°C bis +260°C

Type	Switching voltage U	Switching current I	Max. power UxI
M130-K	≤ 250 VAC	≤ 1 A	≤ 150 VA
M130-KS	≥ 24 VAC	≥ 0,065 A	≥ 1,5 VA
	≤ 24 VDC	≤ 0,008 A	≤ 0,12 VA

Type	Article-No.	Contakt material
M130-KG	15-01122	Silber-Palladium AgPd 70/30 massiv, hard-gold plated AuCo 4-6µm

8.4 Insulation of electrical components


Caution

Electronic and electrotechnical components must not be insulated. These products must not exceed the maximum permissible temperature. Otherwise, the components will be destroyed and will cause total failure. If the devices and other associated electronic components will be isolated, this is at your own risk.
IGEMA GmbH assumes no liability for damage caused by the insulation of the device and its components

9. Commissioning

Caution! Danger of scalding!
Beware, the device is hot during commissioning and operation!

9.1 Commissioning of unit together with the boiler

Check specifications of material, pressure and temperature!

- Close drain valve (14) (see sketch chapter 5).
- Fully open shutoff valves (W+D).
- Check position of magnetic switch (2) in operating condition and adjust the height if necessary.
- The magnetic switch (2) must be correspondingly affixed onto the transmitter tube (4).

9.2 Commissioning of unit if boiler is already in operating condition

- Close drain valve (14) (see sketch chapter 5).
- Slowly open shutoff valve (W) followed by shutoff valve (D).
- Check position of magnetic switch (2) in operating condition and adjust the height if necessary.
- The magnetic switch (2) must be correspondingly affixed onto the transmitter tube (4).

10. Operation monitoring

A separate purging of the connection lines including standpipe is demanded for float switches.

10.1 Purging of connection lines

- Close shutoff valves (W+D) (see sketch chapter 5).
- Slowly open drain valve (14) and drain water of standpipe.
- Slightly open shutoff valve (D) and close after approx. 2 seconds.
- Slightly open shutoff valve (W) and close after approx. 2 seconds.
- Close drain valve (14).
- Slightly open shutoff valves (W+D), standpipe is filled now.
- Fully open shutoff valves (W+D) after the standpipe is filled.

10.2 Function test

A function test is prescribed for float switches. Tests extend and delays must be specified between operator, boiler manufacturer and local expert.

- Close shutoff valves (W+D) (see sketch chapter 5).
- Slowly open drain valve (14) and drain water.
- The float device sinks now under LWL and the magnetic switch is actuated.
  The prescribed function test is finished.
- Close drain valve (14).
- Slowly open shutoff valve W and then shutoff valve D.

11. Maintenance


Caution

Before carrying out maintenance works or a chemical cleaning of the boiler, close shutoff valves of the unit.

Ideally insert blind flanges on the flange connection of the boiler studs. Check state of the unit during boiler revision, especially float (12), float device (11, 12) with transmitter magnet (3), magnetic switch (2) and corresponding shutoff devices.

A deformed float rod impairs the function.

11.1 Opening of standpipe


Danger

For disassembling, the plant must be pressureless!

Wait until the unit has cooled!

- Close valves (W+D) (see sketch chapter 5).
- Open drain valve (14) and drain unit.
- Caution during disassembly! Residual medium may escape and further evaporation is possible.
- Unfasten bolting (5, 6).
- Remove upper part (7) upwards. Observe that the float rod (11) is not deformed.

11.2 Closing of standpipe

- Check sealing surfaces of flanges.
- Mount upper part of the unit with installed float device using a new sealing (8). Observe that the float rod (11) is not deformed.
- Tighten bolting (5, 6) in several steps using successively opposite diagonal tightening until the tightening torque **Md** $_{max}$ indicated in the table of chapter 10.4 is reached.
- Carry out commissioning (see chapter 8).

11.3 Check or exchange of float device

- Open standpipe (see chapter 10.1)
- Unfasten transmitter tube cap (9) via retaining spring (10).
- Remove float rod (11) with float (12) from transmitter tube (4) and check.
- Replace deformed or corroded parts.
- Insert complete float device (11, 12) into transmitter tube (4).
- Place transmitter tube cap (9) on transmitter tube (4) and secure with retaining spring (10).
- Close standpipe (see chapter 10.2). Take care that float rod (11) is not deformed!

11.4 Tightening torques

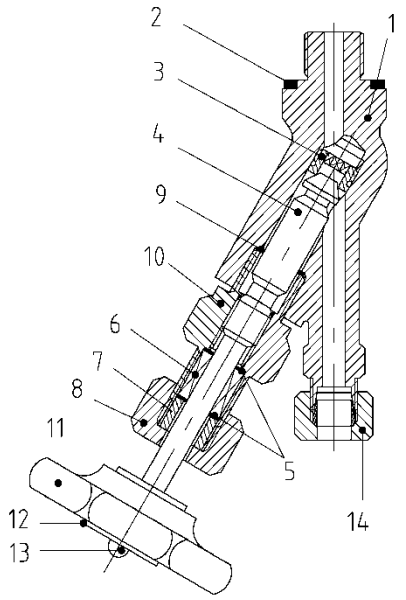
All. pressure ***PS*** [bar]	Tightening torque Md → **Md max** [Nm] in steps					
	1	2	3	4	5	6
32	40	65	90	115	**145**	**-**
80	80	110	140	170	195	**210**

12. Drain valve

12.1 Construction

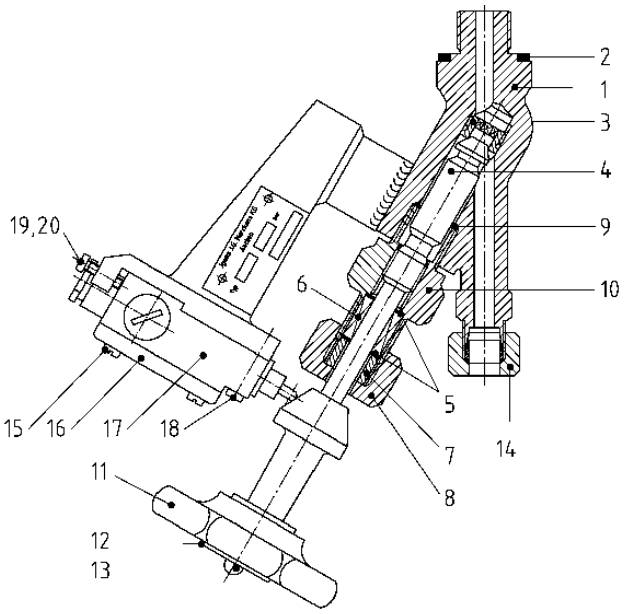
AV500, AV520

- Male thread G½" on input side
- Output side with cutting ring connection ø12 as per DIN 2353 – DS12
- Other drain connections on request



AV580, AV585

- Male thread G½" on input side
- Output side with cutting ring connection ø12 as per DIN 2353 – DS12
- With limit switch to register the blow-down process
- Other drain connections on request



(1) Valve housing
(2) Sealing ring
(3) Seat
(4) Valve spindle with cone
(5) Scraper rings
(6) Gland packing
(7) Stuffing box
(8) Screw cap
(9) Sealing ring
(10) Upper part of valve
(11) Handwheel
(12) Plate OPEN-CLOSED
(13) Cap nut
(14) Drain connection
(15) Screw
(16) Switch housing cover
(17) Limit switch
(18) Fixing screw
(19) Counter nut
(20) Adjusting screw

12.2 Assembly


Danger

Ensure that drain piping has free outlet to atmosphere and is protected from pressure peaks.

- Firmly screw on drain valve with sealing ring (2) on existing unit.
- Cutting ring connection: Assemble drain piping (tube ø 12x1 material St 35.8) on provided drain connection (14) as per DIN 2353 (SW24) (on the part of the builder).
  Welding end: weld on
  Flange: screw on
- Limit switch (15) is already adjusted (factory-made).
- Carry out electrical connection of limit switch.
  Connection cable BIHF 3 x 0,75 or 4 x 0,75.

12.3 Commissioning

Rust, sand or similar impurities inside of the medium or during first flushing can cause leakage if they remain in the area of the seat.

Purging of valve:

- Fully open valve for purging. The pre-pressed packing can lose its denseness due to a longer storage (see chapter 11.4)
- Close valve.

12.4 Maintenance


Danger

Before carrying out maintenance works on drain valve, unit has to be pressureless and empty!
Severe burns and scalding's on the whole body are possible!

Re-tightening of gland packing:

- If a valve is leaky, tighten screw cap (8) with open-end wrench (AF27) clockwisely until valve is tight. Spindle (4) has to stay movable.
- Change packing if re-tightening of packing was not successful.

Replacement of packing:

- Screw off cap nut (13) and remove handwheel (11).
- Unscrew upper part of valve (10).
- Remove screw cap (8) and stuffing box (7).
- Remove spindle with cone (4) upwards.
- Push out gland packing (6) with scraper rings (5) from top and clean packing space.

Assembly:

- Grease spindle thread insert from top and firmly tighten screws.
- Place new greased packing with scraper rings (5).
- Insert stuffing box (7).
- Tighten screw cap (8).
- Insert new sealing ring (9).
- Grease thread of upper part of valve (10), screw in and tighten with tightening torque **M_d = 220 Nm**.
- Place handwheel (11) and tighten cap nut (13).

Replacement of complete upper part:

- For dismounting of component parts see “Replacement of packing”
- Unscrew seat (3) with hexagon socket wrench SW11.
- Grease seat thread, screw in and tighten with tightening torque **M_d = 55 Nm**.
- Replace complete upper part.
- Place new spindle.
- For assembly of component parts see above.

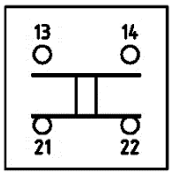
Auswechseln des Endschalters (17)

Switch off mains voltage for limit switch (17)!

- Unfix screws (15) and remove switch housing cover (16).
- Disconnect electrical connection from limit switch. Unfasten fixing terminals and unscrew sealing ring of cable gland.
- Unfix counter nut (19) and turn back adjusting screw (20).

- Unfasten fixing screws (18).
- Replace limit switch and fasten again.
- Carry out electrical connection and close housing again.
- Close drain valve.
- Quick action contact of limit switch must react after approx. 2 turns of the handwheel (open valve). Contact position (13, 14-breaker) changes to (21,22-maker) (see fig. "contact position").
  Readjustment with adjusting screw (20).
- Tighten counter nut (19) and fixing screws (18) after adjustment.
- Close drain valve!

Contact position (open):

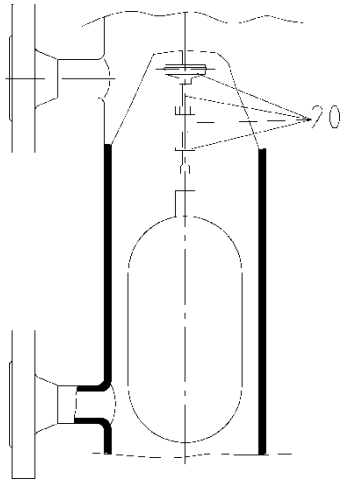


13. Spare parts

Always indicate article no. and serial no. (indicated on the identification plate) in case of spare parts order!

13.1 Float switch

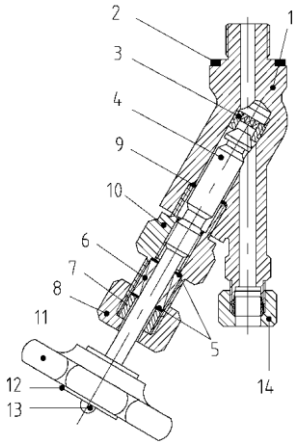
Pos. No.	Designation	PS [bar]	Article-No.	Quantity
2	Magnetic switch	32-80	15-01122	By order
17	O-Ring		40-00301	1
18	O-Ring		40-00300	1
19	O-Ring		40-00309	1
20	Float device		15-000006	1
12	Float		40-00918	1
5	Thread bolt	32	40-01501	8
8	Sealing		40-00193	1
6	Hex nut		40-01500	16
5	Thread bolt	50 [1)]	40-00381	4
8	Sealing		40-00189	1
6	Hex nut		40-00723	8
5	Bolt	80	40-00414	8
8	Serrated gasket		40-00200	1
6	Hex nut		40-00737	16



1) Version square flange

13.2 Drain valve

Pos. No.	Designation	Article No.			
		AV500	AV520	AV585	AV580
2	Sealing ring (threaded pipe G½")	40-00099			
9	Sealing ring	40-02008			
5	Scraper rings				
6	Gland packing				
3	Seat	40-01863	40-01864	40-01863	40-01864
9	Sealing ring				
4	Spindle with rolled cone	40-02033	40-02034	40-02005	40-02006
9	Sealing ring				
10	Upper part of valve				
5	Scraper rings				
6	Gland packing				
7	Stuffing box				
8	Screw cap				
11	Handwheel	40-02036	40-02037	40-02036	40-02037
12	OPEN/CLOSED plate				
13	Cap nut				



14. Decommissioning


Danger

Severe burns and scalding's on the whole body are possible!

Before detaching flange connections, screws of stuffing box etc., all connected lines must be pressureless (0 bar) and cooled off to ambient temperature (20°C)!

14.1 Disposal

Dismount unit and separate waste products.
When disposing the unit, observe legal regulations for waste disposal.

This high-quality IGEMA product was designed, manufactured and tested with the application of the QM System guidelines in accordance with DIN EN ISO 9001:2000.

If the device supplied indicates transport damage or gives cause for complaint in spite of our final quality control please contact our SERVICE department on telephone *+49 2501 92424-0* by return.

15. Declaration of Conformity

Boiler Monitoring

CE-Konformitätserklärung
CE-Declaration of Conformity
CE-Déclaration de Conformité

Konformitätserklärung gemäß EG-Richtlinie 2014/68/EU

Wir die Firma:

IGEMA GmbH
Antwerpener Str. 1
48163 Münster

erklären, dass die Produkte „Schwimmerschalter" mit der Funktion NW-Begrenzer/2-Punkt-Regler als druckhaltende Ausrüstungsteile

Produkttypen:

RBA24/25/26/34/35/36
BA14
RBJ54//64

mit der Richtlinie 2014/68/EU übereinstimmen und folgendem Konformitätsbewertungs-verfahren unterzogen wurden:

Kategorie IV, Modul B+D

Angewandte Normen:

DIN EN 12952-11: 2007
DIN EN 12953- 9: 2007

Weitere angewandte Regeln:

AD 2000,

Benannte Stelle für die Module:

Modul D
TÜV Rheinland Industrieservice GmbH
Am Grauen Stein, D-51105 Köln
Kenn- Nr. 0035

Modul B
DEKRA Automobil GmbH
Handwerkstraße 15, 70585 Stuttgart
Kenn-Nr. 2266

Declaration of Conformity in accordance with the PED directive 2014/68/EU,

We, the company:

IGEMA GmbH
Antwerpener Str. 1
48163 Münster

declare that the products „Float Switches" with the function LWL-limiters/2-point-controllers as pressure-holding parts

type of product:

RBA24/25/26/34/35/36
BA14
RBJ54//64

comply with the directive 2014/68/EU and that the following Conformity Assurance System was used:

Category IV, Module B+D

Applicable standards:

DIN EN 12952-11: 2007
DIN EN 12953- 9: 2007

Further applicable rules:

AD 2000,

Notified body for the modules:

Module D
TÜV Rheinland Industrieservice GmbH
Am Grauen Stein, D-51105 Köln
Identification no. 0035

Module B
DEKRA Automobil GmbH
Handwerkstraße 15, 70585 Stuttgart
Identification no. 2266

Déclaration de Conformité en accord avec la directive 2014/68/EU,

La société:

IGEMA GmbH
Antwerpener Str. 1
48163 Münster

déclare, que les contrôleurs de niveau, tant que pièces résistantes a la pression

Type de produits:

RBA24/25/26/34/35/36
BA14
RBJ54/64

sont en accord avec la directive 2014/68/EU et sont sóumisá la directive d´ assurance de conformité suivante:

Categorié IV, Module B+D

Norme appliquée:

DIN EN 12952-11: 2007
DIN EN 12953- 9: 2007

Autres règles appliqué:

AD 2000,

Organisme notifié pour les modules:

Module D
TÜV Rheinland Industrieservice GmbH
Am Grauen Stein, D-51105 Köln
Identification no. 0035

Module B
DEKRA Automobil GmbH
Handwerkstraße 15, 70585 Stuttgart
Identification no. 2266

D-Ko—38294-01

Münster, den 27.03.2019

E.H. Kilchert
(Geschäftsführer)
(Director)
(Directeur)

H. Gartenbröker
(QM-Beauftragter)
(QM representative)
(Responsable Assurance Qualité)

V. Hugemann
(Entwicklung)
(Development)
(Développement)

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