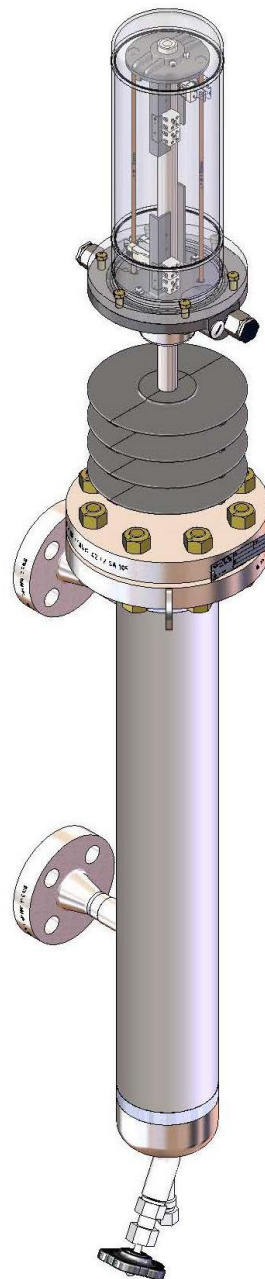




Water level controller and limiter

RBA 26 / RBA36



Edition 02/2021

D-07-B-50223-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.

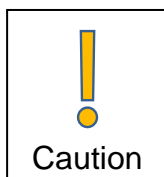
1.1 Symbols used in these instructions

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

 <p>Danger</p>	This symbol and signal word refer to a potentially hazardous situation which could result in death or injuries if ignored.
 <p>Caution electrical voltage</p>	This symbol and signal word indicate live parts with an immediate danger of death from electric shock.
 <p>Caution hot</p>	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



Use these installation and operating instructions, the identification on the rating plate (see 9.3) 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, 9.3) 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



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.

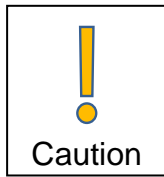
For all maintenance work or new installations, on new or existing boilers or vessels, it is imperative to check that the boiler or vessel has been depressurised and that the pressure has been safely reduced to atmospheric pressure. In principle, no system should be regarded as unpressurized even if indicated 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).



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.

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 locking switch must not be opened. A breach of the seal affixed excludes any warranty.



2. Contents of the packaging

The device is supplied as a complete unit.

3. Important information

3.1 Intended use

Float switch RBA26/36:

The float switch RBA26 can be used as a two-point water level controller or water level limiter without special design for steam generators.

The product complies with the EU directive 2014/68/EU.

Applied regulations according to EN 13445 / EN 12952 / EN 12953 / AD2000 or according to ASME boiler.

Type	EG-type-examination
RBA26,36	Z-D-002-12683/19

4. Explanation

4.1 System Description

The float switch, in different versions, is used to control or limit the water level in tanks and steam generators.

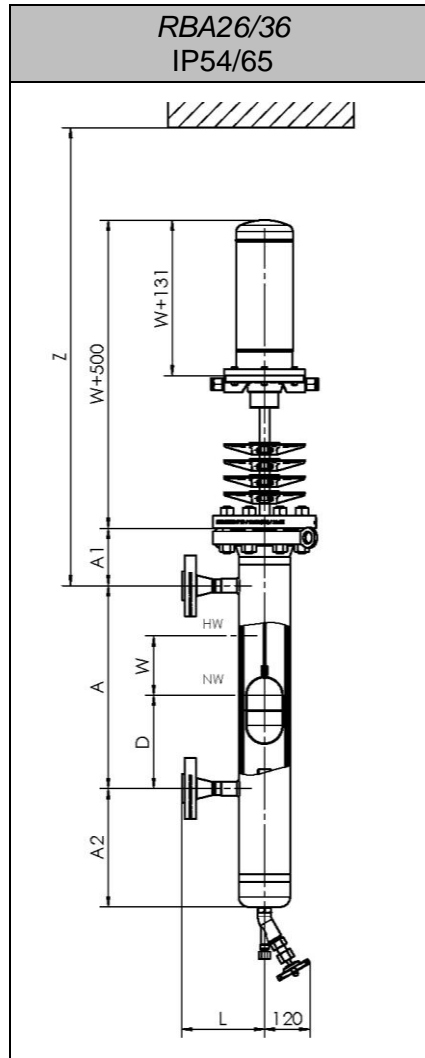
4.2 Function

The level gauge works according to the physical principle of communicating tubes.

It is a float-controlled device. The transducer magnet, which is connected to the float via the float rod, switches the magnetic locking switches located in the switch housing without contact.

5. Technical data

5.1 Device versions



Switching ranges:

Schaltverstellbereich	W [mm]								
RBA 26		100	150						
RBA 36		100	150	250	350	450 ¹⁾	550 ¹⁾	650 ¹⁾	750 ¹⁾

¹⁾ Depending on pressure level and density range

Dimensions A, Z:

Type	Dimension Z [mm]
RBA26	A-D+800
RBA36	

Dimension [mm]	A1		A2	
PS [ba]	100	160	100	160
RBA26/36	155	175	250 ²⁾	

²⁾ Depending on float length and dimension D

Valves:

Valve	Type
Drain valve	AV250
	AV520, AV585

5.2 Connector type

Standard : Flanges according to DIN or ASME

On request : Welding ends or socket welding
according to DIN or ASME

5.3 Materials

Parts in contact with the medium or pressure holding parts made of C steel,
according to DIN or ASME.

5.4 Limitations of use



Nominal pressure		160	250
Max. all. pressure PS	[bar]	100	160
Max. all. temperature TS	[°C]	312	345

5.5 Corrosion resistance

When used as intended, the safety of the device is not impaired by corrosion.

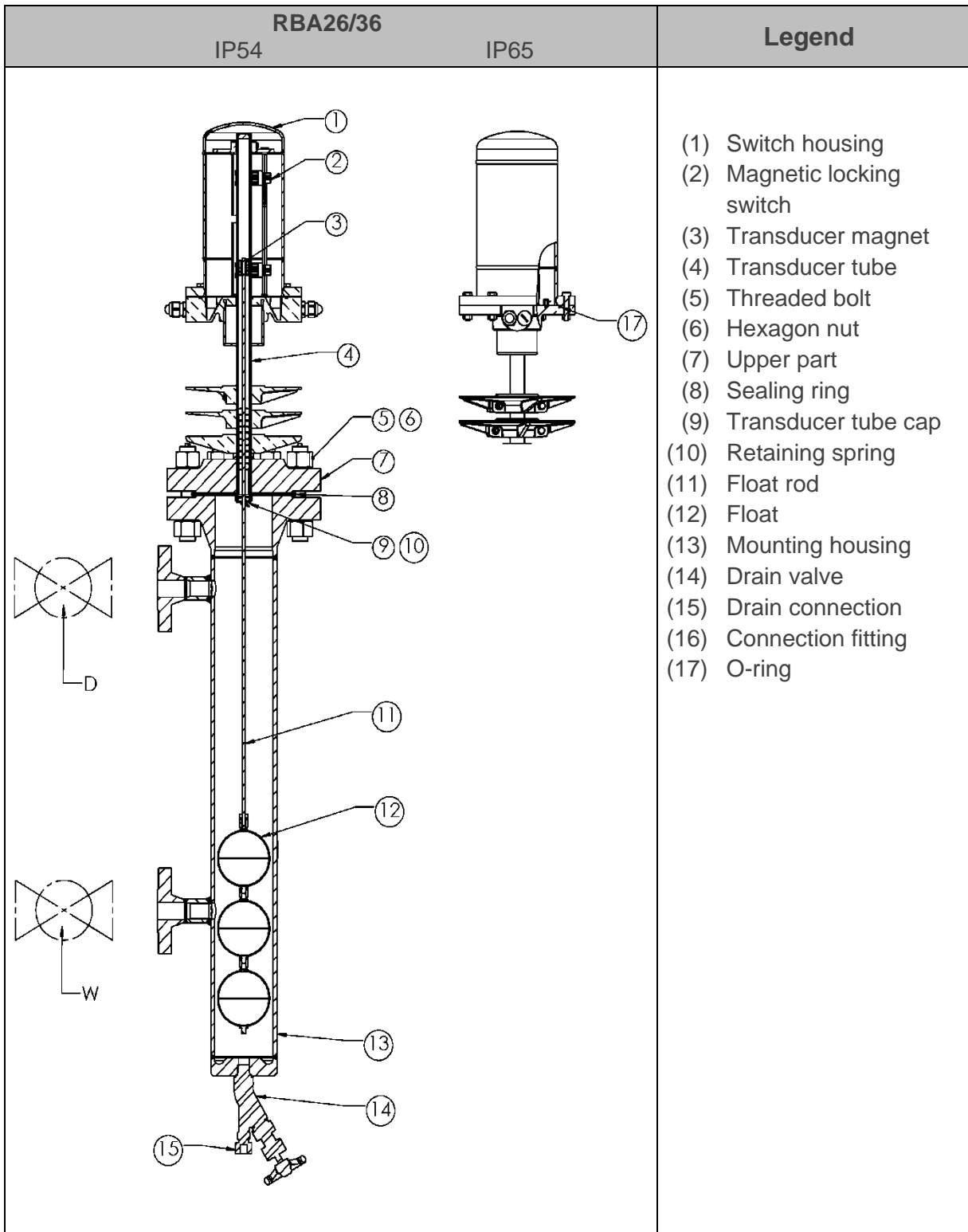
5.6 Appliance rating plate / labelling

According to EN19 the following are marked on the rating plate:

 <p>IGEMA GmbH Mess- und Regelsysteme Antwerpenerstraße 1 Germany - 48163 Münster</p> <p>CE 0035</p> <p>See installation instructions</p> 	Built	A	Type	B	
	PS	C	bar	TS	D °C
	Conn. Type	PN	E	DN	F

- A Date of manufacture
- B Device type
- C Max. all. pressure
- D Max. all. temperature
- E Nominal pressure
- F Nominal pressure

6. Design



7. Assembly



The shut-off valves (W + D) can only be connected with the spindle running horizontally. Flow direction '→' must point in the direction of the mounting housing (13)!

Connect the device free from tension to the boiler nozzles equipped with shut-off valves.

It is important to ensure that the height of the LW mark on the mounting housing of the device corresponds to that of the boiler!

7.1 Version with flange

- Ensure correct installation position!
- Remove the protection caps from connection flanges. The protective caps are only used as transport protection.
- Ensure that the sealing surfaces are clean and undamaged.
- Use sealing material according to EN1514 and screws according to DIN2510 or DIN974 (material 1.7709).
- Fit the float switch.

7.2 Version with welding ends

- Ensure the correct installation position!
- Remove the protection caps. The protective caps are only used as transport protection.
- Assembly only with welding process 111 (manual arc welding) and 141 (tungsten inert gas welding).

7.3 Heat treatment of the weld seams

Supplementary heat treatment of weld seams is not required.

7.4 Drain tubing

- Check the screw connection of the drain valve (14) / mounting housing (13) for tight fit and retighten if necessary.
- Mount drain tubing on drain valve (15) on site.



The drain line must ensure free exit against the atmosphere and be secured against pressure surges!

- Close the valves.

8. Power connection



Connection must only be carried out by qualified staff according to wiring diagram!

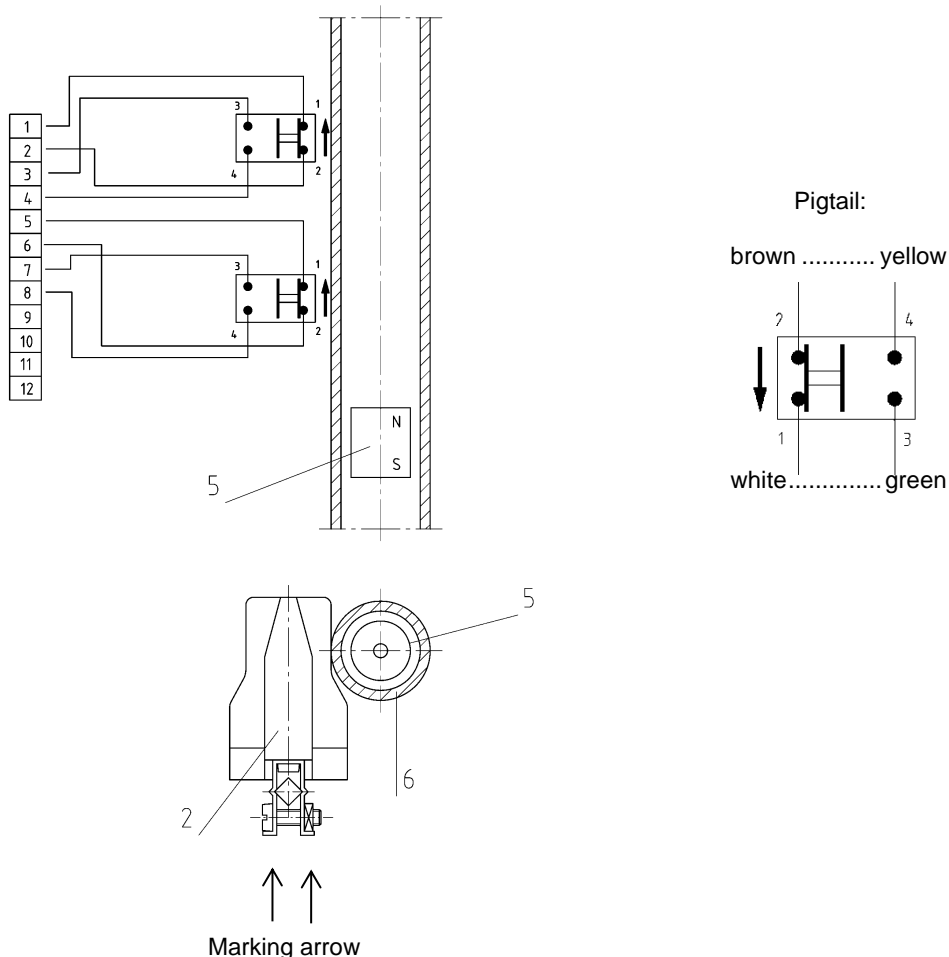
Observe the regulations of the VDE and the local network operator for on-site installation!

Only use cables suitable for the area of application!

When setting up a safety circuit, the switching time of the magnetic locking switch must be observed.

Basic and proven safety principles according to DIN EN ISO 13849 for electrical components must be observed.

8.1 Wiring diagram



To extend the contact life of the magnetic locking switch we recommend the use of commercial RC combinations or an appropriate varistor when using inductive consumers (e.g., 0.1 $\mu\text{F}/100 \Omega$).

Resistance (Ω) and capacity (W) according to customer's specifications.

We recommend the use of acetic acid-free silicone cable for the connecting cable in the "inside connection box" area.

8.2 Magnetic locking switch connection

- Open the switch housing (1) and remove the foam padding between the transducer tube (4) and the magnetic locking switch(es) (2).
- Magnetic locking switch(es) (2) is/are already permanently mounted in the device and electrically connected to the terminals according to the wiring diagram. Magnetic locking switches can be connected as normally closed, normally open or change-over contacts. The switch base is marked with an arrow.
- If the switch is mounted correctly, the arrow must point downwards.
- Make the electrical connection.
- Finally, ensure that the cables do not meet hot elements.

8.3 Technical data for magnetic locking switch

Switching behaviour	bistable
Switching function	1 NO contact / 1 NC contact
Connection strand	1 x 0,5 mm ² (16 x ø 0,2) – Cu tin-plated / PTFE
Strand length L	200 mm
Max. all. temperature	-70°C bis +260°C

Type	Switching voltage U	Min.switching current	Max. switching current
M130-KG	24 ≤ VAC ≤ 250	8 mA	2A
	≤ 24 VDC	8 mA	1A

Type	Item-no.	Contact material
M130-KG	15-01122	Solid silver-palladium AgPd 70/30, hard gold-plated AuCo 4-6µm

8.4 Isolation of electronic components



Electronic and electrotechnical components must not be insulated. These products must not be heated above the max. all. temperature. Otherwise, the components will be destroyed and fail.

If the devices and other associated electronic components are nevertheless isolated, this is done at your own risk.

IGEMA GmbH assumes no liability for damage that occurs while isolating the device and the associated components have arisen.

9. Commissioning



**During commissioning and during operation, the device is hot.
Caution, risk of burns!**

9.1 Commissioning of the device simultaneously with the boiler

Check specifications of material, pressure and temperature!

- Close the drain valve (14) (see sketch chapter 6)
- Open the shutoff valves (D+W) completely.
- Check the setting of the magnetic locking switch (2) in operating condition and readjust to height if necessary.
- The magnetic locking switch (2) must be firmly attached and fixed to the transducer tube (4)

9.2 Commissioning of the device when the boiler is under pressure and temperature.

- Close the drain valve (14) (see sketch chapter 6)
- Slowly the open shutoff valves (W), then the slowly open shutoff valve (D).
- Check the setting of the magnetic locking switch (2) in operating condition and readjust to height if necessary.
- The magnetic locking switch (2) must be firmly attached and fixed to the transducer tube (4).



From the dimension $W > 350\text{mm}$, the hood of the switch housing must not be fitted until after the unit has been mounted on the boiler! In addition, an interception eyelet is attached to the switch housing hood. In this case, it is imperative that the device be supported by means of the attached eyelet(s)!

10. Operating monitoring



For water level controllers and limiters, separate blowing through of the connecting lines including the mounting housing is required.

10.1 Blowing through the connecting lines

- Close the shutoff valves (W+D). (see sketch chapter 6)
- Slowly the open the drain valve (14), at the same time the mounting housing is drained.
- Open the shutoff valve D slightly, close after approx. 2 seconds.
- Open the shutoff valve W slightly, close after approx. 2 seconds.
- Close the drain valve (14).
- Open the shutoff valves (W+D) slightly, the mounting housing is filled up.
- After filling the mounting housing, fully open the shutoff valves (W+D).

10.2 Function test



For water level limiters a functional test is mandatory. The scope and intervals of testing must be determined between the operator, the boiler supplier and the local expert.

- Close the shutoff valves (W+D). (see sketch chapter 6)
- Slowly the open the drain valve (14) and drain the water.
- The float device sinks below LW and the magnetic locking switch switches. The prescribed function test has been carried out.
- Close the drain valve (14).
- Slowly open the shutoff valve W, then the shutoff valve D.

11. Maintenance



Before carrying out any conservation work or chemical cleaning of the boiler, the shutoff valves of the unit must be closed.

Ideally, the passage at the flange connection of the boiler nozzles is interrupted by blanking plates. During the boiler inspection, check that the unit, in particular the float (12), float device (11, 12) with transducer magnet (3), magnetic locking switch (2) and the associated shutoff valves are in perfect condition.

A bent float rod impairs the function.

11.1 Opening of the mounting housing



**The system must be depressurized for dismantling work!
Wait for the device to cool down!**

- Close the shutoff valves (W+D). (see sketch chapter 6)
- Open the drain valve (14), the unit drains.
- When dismantling beware of the release of fumes and residual hot water.
- Loosen screw connection (5, 6).
- Lift the upper part of the unit (7) upwards. Make sure that the float rod (11) is not bent.

11.2 Closing of the mounting housing

- Check that the sealing surfaces of the device flanges are in perfect condition.
- Install the upper part of the device with the built-in float device using a new seal (8). Make sure that the float rod (11) is not bent.
- Tighten the screw connections (5, 6) evenly and crosswise in several rounds to the max. screw torque specified in the table (see chapter 11.4).
- Carry out commissioning (see Chapter 9).

11.3 Checking or replacing of the float device

- Open mounting housing (see chapter 11.1)
- Release transducer tube cap (9) via spring wire clamp (10).
- Pull float rod (11) with float (12) out of transducer tube (4) and check for damage.
- Replace deformed or corroded parts.
- Insert the complete float device (11, 12) into the transducer tube (4).
- Place the transducer tube cap (9) onto the transducer tube (4) and secure with the spring wire clamp (10).
- Close the mounting housing (see Chapter 11.2). Make sure that the float rod (11) is not bent.

11.4 Tightening torques

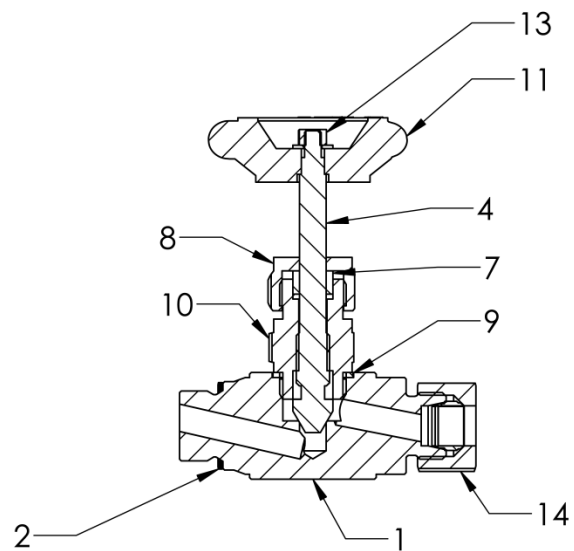
all. pressure PS [bar]	Tightening torques Md → Md_{max} [Nm]					
	in steps					
	1	2	3	4	5	6
100	80	110	140	170	195	210
160	120	160	200	240	280	320

12. Drain valve

12.1 Design

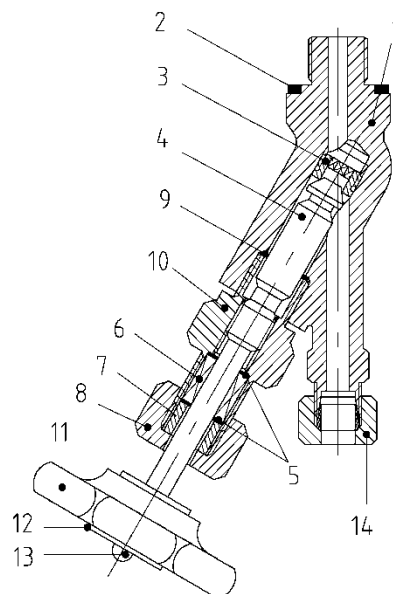
AV250

- With input side external thread G $\frac{1}{2}$ "
- Output side with cutting ring fitting $\varnothing 12$ according to DIN 2353 – DS12
- On request other drain connections possible



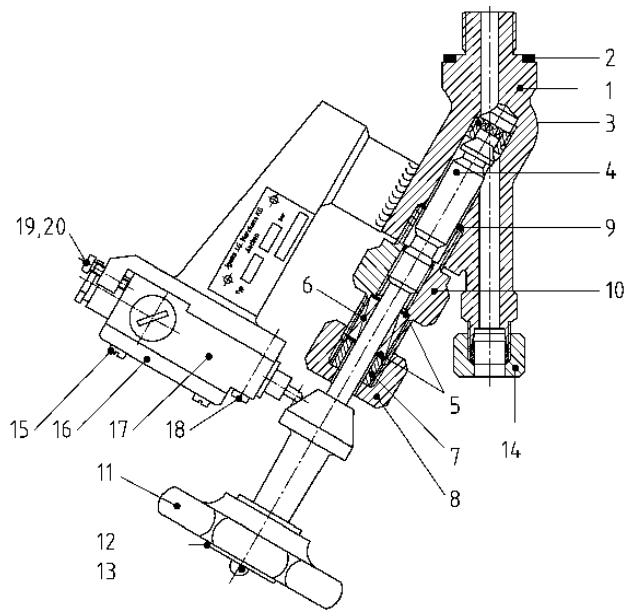
AV520

- With input side external thread G $\frac{1}{2}$ "
- Output side with cutting ring fitting $\varnothing 12$ according to DIN 2353 – DS12
- On request other drain connections possible



AV585

- With input side external thread G $\frac{1}{2}$ "
- Output side with cutting ring fitting $\varnothing 12$ according to DIN 2353 – DS12
- With limit switch for registering of the sludge removal process
- On request other drain connections possible



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

12.2 Assembly



Ensure that drain tubing 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 screw: fit tube $\varnothing 12 \times 1$ (made of St 35.8 material) on-site to the screw connection (14) provided 2353 for this purpose according to DIN 2353 (AF24)
Welding end: weld on
Flange: screw on
- The limit switch (17) is adjusted at the factory.
- Connect limit switch electrically, connection cable BIHF 3 x 0.75 or 4 x 0.75.

12.3 Commissioning

Rust, sand or similar impurities in the medium or when flushing for the first time before start-up can cause leaks if they get stuck in the area of the seat.

Purging of valve:

- Open the valve fully to allow purging. Due to the storage, the pre-pressed gland packing can settle and its tightness can decrease (see chapter 12.4)
- Close the valve.

12.4 Wartung



**Only perform maintenance work on the drain valve when the device has been depressurized and drained of liquid!
Severe burns and scalds on the whole body are possible!**

Re-tightening of the gland packing:

- Activate cap nut (8) with an open-end spanner (AF27) clockwise until the valve is tight. The spindle (4) must remain moveable.
- Replace the gland packing if re-tightening of packing was not successful.

Replacing packing:

- Screw off cap nut (13) and remove handwheel (11).
- Unscrew upper part of valve (10).
- Unscrew the cap nut (8), remove the 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:

- Insert the spindle (greased in the thread area) from above and screw it all the way down.
- Place new greased packing with scraper rings (5).
- Insert stuffing box (7).
- Tighten cap nut (8).
- Insert new sealing ring (9).
- Grease and screw in thread of upper part (10) and tighten with **$M_d = 220 \text{ Nm}$** .
- Place handwheel (11) and tighten cap nut (13).

Replacing complete upper part:

- For dismantling component parts see “Replacing packing”
- Unscrew seat (3) with hexagon socket wrench AF11.
- Screw in new seat (greased in thread area) and tighten, tightening torque $M_d = 55 \text{ Nm}$.
- Replace complete upper part.
- Insert new spindle.
- For assembly of component parts see above.

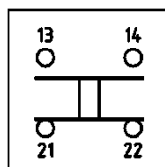
Replacing the limit switch (17)



Disconnect limit switch (17) from mains voltage!

- Loosen screws (15) and remove switch housing cover (16).
- Disconnect the electrical connection cable from the limit switch; loosen the connecting terminals and unscrew the sealing ring on the cable gland.
- Loosen lock nut (19) and turn adjusting screw (20) back.
- Loosen the fastening screws (18).
- Replace limit switch and reattach.
- Make the electrical connection; insert the cable into the limit switch via the cable gland; retighten the cable gland and reseal the housing.
- Close the drain valve.
- After approx. two turns of the handwheel (open valve) the snap-action contact of the limit switch must react. Contact position (13, 14 NO contact) changes to (21, 22 NC contact) (see fig. "Contact position").
Readjustment via adjusting screw (20).
- After adjustment, fix lock nut (19) and fixing screws (18).
- Close drain valve!

Contact position (open):

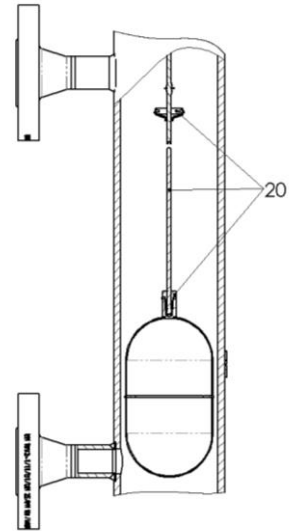


13. Spare parts

When ordering spare parts, please state the item number and the serial number entered on the rating plate!

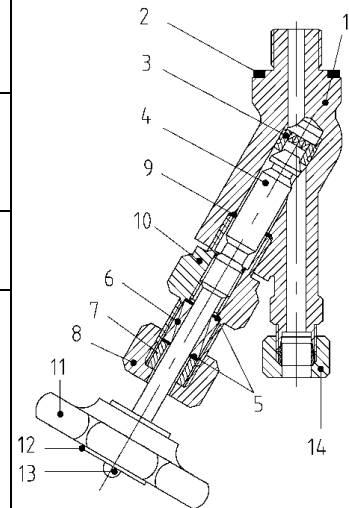
13.1 Float switches

Pos. no.	Designation	PS [bar]	Item- no.	Number
2	Magnetic locking switch	100-160	15-01122	On request
17	O-ring		40-00309	1
20	Float device		15-13746	1
12	Float		On request	1
5	Threaded bolt	100	40-04012	8
8	Seal		40-00200	1
6	Hexagon nut		40-00738	16
5	Screw bolts	160	40-02325	8
8	Grooved metal gasket		40-00199	1
6	Hexagon nut		40-02326	16



13.2 Drain valve

Pos. no.	Designation	Item no.		
		AV250	AV520	AV585
2	Sealing ring (threaded connection G½")	40-00099		
9	Sealing ring	Not available	40-02008	
5	Scraper ring			
6	Gland packing			
3	Seat		40-01864	40-01863
9	Sealing ring			
4	Spindle with rolled cone			
9	Sealing ring			
10	Valve upper part			
5	Scraper ring		40-02034	40-02005
6	Gland packing			
7	Stuffing box			
8	Cap nut			
11	Handwheel			
12	OPEN/CLPSE plate	40-02037	40-02036	
13	Cap nut			



14. Decommissioning



Severe burns and scalds all over the body are possible!

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

14.1 Disposal

Dismantle unit and separate waste products.

When disposing of the unit, observe statutory 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



EU-Konformitätserklärung EU-Declaration of Conformity

Konformitätserklärung gemäß EU-Richtlinie 2014/68/EU

Die Firma:
IGEMA GmbH
Antwerpener Str. 1
48163 Münster, Deutschland

erklärt, dass die
Schwimmerschalter

RBA 24/25/26 34/35/36
BA14
RBJ 54/64

mit der Funktion NW-Begrenzer / 2-
Punkt-Regler als Ausrüstungsteil mit
Sicherheitsfunktion bzw. druckhaltende
Ausrüstungsteile,

mit der Richtlinie übereinstimmen und
folgendem Konformitätsbewertungs-
verfahren unterzogen wurden :

Kategorie IV, Module B + D

Angewandte Normen:

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

Notifizierte Stelle für die Module:

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

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

Münster, 18.03.2020


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

Declaration of Conformity as per EU-Directive 2014/68/EU

The company:
IGEMA GmbH
Antwerpener Str. 1
48163 Münster, Germany

declares that the
Float Switches

RBA 24/25/26 34/35/36
BA14
RBJ 54/64

with the function as LW-Limiter / 2-
point-controller as safety or pressure
accessories

comply with the directive and that the
following conformity assessment was
used:

category IV, Module B + D


Applied standards:

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

Notified body for the modules:

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

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


C. Möllers
(Leitung Konstruktion)
(Head of construction)

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