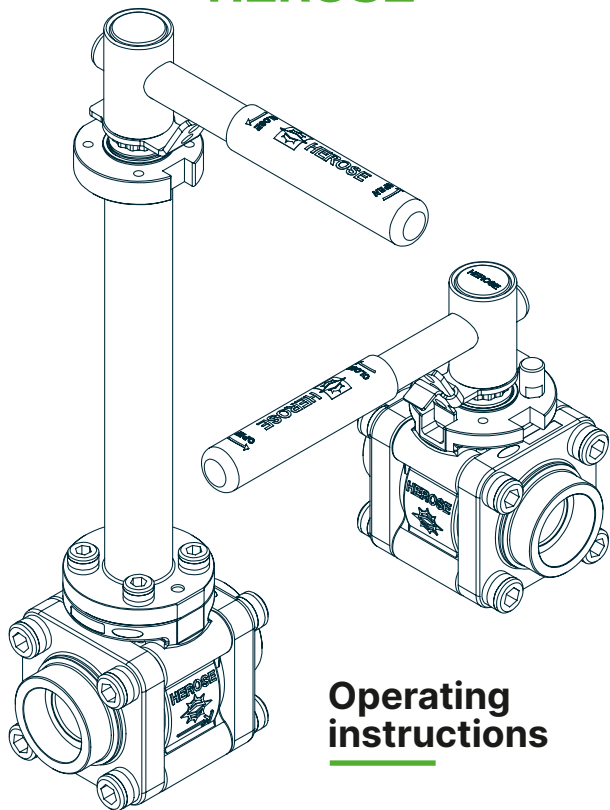




HEROSE



Operating instructions

Article no.: 37000.0021.0100

DE

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Important

Read carefully before use.

Retain for later use.



7th issue 03/2026

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Installation, maintenance and operating instructions

Designation
Ball valve

Model number
15C01 | 15C02

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About these instructions

Principles

The operating instructions are part of the valve named on the front page..

Applicable documents

Document	Contents
Data sheet	Description of the valve

For accessories, refer to the respective manufacturer's documentation.

Hazard levels

The warning notes are marked and classified according to the following hazard levels:

DANGER

Identifies a hazard with a high risk level that will result in death or serious injury.

WARNING

Identifies a hazard with a moderate risk level that could result in death or serious injury.

CAUTION

Identifies a hazard with a low risk level that will result in a minor or moderate injury.

NOTICE

Identifies a risk to property. Damage to property may occur if this notice is ignored.

Safety

Intended application

The valve is intended for installation in a pipework system in order to block media or allow them to pass through within the permissible operating conditions. The permissible operating conditions are specified in these operating instructions.

The valve is suitable for the media listed in these operating instructions; see section "Media".

Operating conditions and applications deviating from these require the approval of the manufacturer.

Only media may be used to which the materials used for the valve body and seals are resistant. Contaminated media or usage outside of the pressure and temperature specifications can lead to damage to the valve body and seals.

When using the valve as an end-of-line valve, the valve is to be placed in the "Closed" position and secured against unauthorised opening. The unsealed body end must be protected against dirt and unauthorised reaching inside.

Avoidance of foreseeable misuse

- Do not exceed the permissible operating limits for pressure and temperature specified in the data sheet or in the documentation.
- Follow all safety instructions and operating procedures in these operating instructions.
- Warranty claims against HEROSE GMBH will be rejected if the HEROSE seal is broken by unauthorised companies.

Meaning of the operating instructions

The operating instructions must be read and followed by the responsible technical personnel before installation and start-up. As part of the valves, the operating instructions must be kept nearby. People could be seriously injured or killed if the operating instructions are not followed.

- Read and observe the operating instructions before using the valve.
- Retain the operating instructions and make sure they are available.
- Pass the operating instructions on to subsequent users.

Requirements for people who work with the valve

People can be seriously injured or killed if the valve is used improperly.

To avoid accidents, all persons who work on the valve must meet the following minimum requirements:

- They are physically capable of controlling the valve.
- They can safely carry out the work with the valve within the scope of these operating instructions.
- They understand the operating principles of the valve within the scope of their work and are able to recognise and avoid the danger of the work.
- They have understood the operating instructions and are able to implement the information of the operating instructions.

Personal protective equipment

Missing or unsuitable personal protective equipment increases the risk of damage to health and injuries to people.

- The following protective equipment must be provided and worn during work:
 - Protective clothing
 - Safety shoes
- Define and use additional protective equipment depending on the application and the media:
 - Safety gloves
 - Eye protection
 - Ear protection
- Wear the specified personal protective equipment for all work on the valve.

Additional equipment and spare parts

Additional equipment and spare parts that do not meet the manufacturer's requirements can negatively affect the operational safety of the valve and cause accidents.

- In order to ensure operational safety use original parts or parts that meet the manufacturer's requirements. If in doubt, have these confirmed by the dealer or manufacturer.

Comply with technical thresholds

If the technical thresholds of the valve are not observed, the valve can be damaged, accidents can be caused and people can be seriously injured or killed.

- Comply with the thresholds. See section "Description of the valve".
- This product is designed for ≤ 500 loading cycles at pressure differences from zero to PN and any number of loading cycles at pressure differences not exceeding $0.05 \times \text{PN}$.

Safety instructions

! DANGER

Hazardous medium.

The escaping operating medium can cause poisoning, cauterisation, suffocation and burns!

- › Wear the prescribed personal protective equipment.
- › Ensure safe discharge.
- › Provide suitable collection containers.
- › Ensure adequate ventilation.
- › Keep away from ignition sources.

! WARNING

Harmful and/or hot/cold conveyed media, lubricants and fuels

Hazardous for persons and the environment!

- › Collect and dispose of rinsing medium and any residual media.
- › Wear protective clothing and a protective mask.
- › Observe legal regulations regarding the disposal of harmful media.

Risk of injury if maintenance work is done incorrectly!

Incorrect maintenance can lead to serious injury and considerable material damage.

- › Only trained personnel are permitted to carry out repairs.
- › Ensure there is adequate space for installation before starting work.
- › Only dismantle the valve when it is not under pressure.
- › Keep the assembly area neat and tidy! Parts and tools in loose piles or lying around are sources of accidents.
- › If parts have been removed, take care to assemble correctly and re-install all attachment items.

- › Before putting back into service, ensure:
 - › All maintenance work has been performed and completed.
 - › There are no persons in the hazard area.
 - › All covers and safety devices are installed and operating correctly.

! CAUTION

Cold/hot pipelines and/or valves.

Risk of injury due to thermal influences!

- › Insulate valves.
- › Install warning signs.

Medium escaping at high speed and high/low temperature.

Risk of injury!

- › Wear the prescribed protective equipment.

Improper disassembly of the actuator.

Personal injury and property damage!

- Disassembling a pressurised actuator leads to uncontrolled pressure relief!
- › Before dismantling the actuator, close the pressure supply.
- › Release the pressure from the cylinder.

! NOTICE

Impermissible stress due to operating conditions and extensions/added structures.

Leaks, a crack in the valve housing or damage to the actuator!

- › Provide suitable support.
- › Do not use the valve as a foothold.
- › Additional loads such as traffic, wind or earthquakes are not explicitly considered as standard and require a separate sizing.

Condensation in air conditioning, cooling and refrigeration plants.

Icing!

- › Blocking of the actuation mechanism!
- › Damage due to corrosion!
- › Insulate the valve with diffusion-tight material

Incorrect installation.

Damage to the valve!

- › Remove caps before installation.
- › Clean the sealing surfaces.
- › Protect the body against impacts.
- › Damage to the seat is possible!
- › Do not leave/use in the 45° position.

Painting of valves and pipelines.

Functional impairment of the valve/loss of information!

- › Protect stem, plastic parts and type plate against the application of paint.

Impermissible stress.

Damage to the control mechanism!

- › Do not use the valve as a foothold.

Exceeding the maximum permissible operating conditions.

Damage to the valve!

- › The maximum permissible working pressure must not be exceeded, and the minimum and maximum allowable working temperatures must be observed.
- › Lay the welding/soldering seam in several sections so that the warming in the middle of the body does not exceed the maximum permissible operating temperature.

Particles and other contaminants in the conveyed medium.

Damage to the valve/internal leakage!

- › Remove particles/contaminants from the conveyed medium.
- › It is recommended to install strainers/dirt filters in the pipework system.

Incorrect earthing during welding work in the pipeline.

Damage to the valve (burned spots)!

- › Remove bonnet during welding.
- › When carrying out electric welding work, do not use functional parts of the valves for earthing.

Transport and storage

Inspect condition on delivery

- Inspect the valve for damage upon receipt.
- In case of transport damage, determine and document the precise extent of the damage, and report it immediately to the supplying dealer/carrier and the insurer.

Transportation

- Transport the valve in the packaging supplied.
- The valve is delivered ready to operate with lateral connections covered by protective caps.

- Protect the valve against shocks, impacts, vibrations and dirt.
- Adhere to a transport temperature range of -20°C to $+65^{\circ}\text{C}$.

Storage

- Store the valve in a clean and dry place.
- In damp storage rooms, use desiccants or heating to prevent the formation of condensation.
- Adhere to a transport temperature range of -20°C to $+65^{\circ}\text{C}$.

Description of the valve

Refer to the respective data sheet for further detailed information.

Structure

Ball valve according to EN 1983.

15C01: Non-automatically opening and closing, 3-part straight-type ball valve for single-sided use in the flow direction. Full passage

15C02: Non-self-opening and closing 3-part ball valve in straight-type that can be used on both sides/on one side in the direction of flow. Full passage.

Component	Contents
Body	Straight-type
Bonnet	flanged
Hand lever	non-ascending
Obturator	Ball with non-metallic material seal
Body end	with welding end with threaded end (NPT; BSPP)

Marking

The ball valve is provided with an individual marking for identification.

Symbol	Explanation
DNxxx	Nominal diameter
PNxxx	Rated working pressure
	Flow direction arrow
$-xxx^{\circ}\text{C} / xxx^{\circ}\text{C}$	Temperature min./max.
	Manufacturer's mark "HEROSE"
e.g. 01/24	Year of construction MM/YY
e.g. 12345	Type
e.g. 1234567	Serial no.
e.g. EN1626	Standard
 xxxx	CE mark and number of the notified body
 xxxx	PI mark and number of the notified body
 xxxx	Rho mark and number of the approved body
 xxxx	UKCA mark and number of the approved body
 xxxx	Conformity mark Ukraine with number of the certification body
	Ex marking with device group, category and protection class, among other things
e.g. 1.4404	Material

Intended application

Ball valves are used to allow or block the flow of media under pressure. Ball valves are intended exclusively for installation in pipework systems with connections of the same pressure rating and corresponding connection or between flanges of the same pressure rating and identical flange connection. The closing direction is clockwise.

Ball valves are bidirectional/unidirectional valves that allow flow in only one (15C01) or in one or both (15C02) directions. With these valves, the line pressure pushes the floating ball towards the downstream seat to achieve a bubble-tight seal.

Ball valves are designed to be opened counterclockwise and closed clockwise by rotating the hand lever or operating the actuator. The hand lever indicates the direction of the ball opening. Detailed user information for actuator powered ball valves is enclosed.

Ball valves with actuator are operated via a compressed air supply (hose), with a recommended working pressure of 6.0 bar, max. 8.0 bar.



open

closed



Operational data

Type	Nominal diameter	Nominal pressure	Temperature
15C01	DN10	PN100	-196 °C to +65 °C
	DN15		
	DN20		
	DN25	PN70	
	DN32		
	DN40		
	DN50		
	DN65	PN50	
	DN80		

Type	Nominal diameter	Nominal pressure	Temperature
15C02	DN10	PN100	-60 °C to +190 °C
	DN15		
	DN20		
	DN25	PN70	
	DN32		
	DN40		
	DN50	PN50/PN70	
	DN65	PN50	
	DN80		

Pressure / Temperature

Pressure/temperature classification according to EN 12516-1, Table 27

Max. operating pressure for 1.4409 material

Type	Temperature	PN50	PN70	PN100
15C01	-196 °C	50 bar	70 bar	100 bar
	-10 °C	50 bar	70 bar	100 bar
	50 °C	50 bar	70 bar	100 bar
	65 °C	49.60 bar	69.57 bar	99.40 bar
15C02	-60 °C	50 bar	70 bar	100 bar
	-10 °C	50 bar	70 bar	100 bar
	50 °C	50 bar	70 bar	100 bar
	65 °C	49.69 bar	69.57 bar	99.40 bar
	150 °C	44.76 bar	62.68 bar	89.60 bar
	190 °C	41.46 bar	58.04 bar	82.88 bar

Max. operating pressure for material ASME SA-351 CF3M /ASTM A351 Gr. CF3M				
Type	Temperature	PN50	PN70	PN100
15C01	-196 °C	50 bar	70 bar	100 bar
	-10 °C	50 bar	70 bar	100 bar
	50 °C	50 bar	70 bar	100 bar
	65 °C	49.60 bar	69.57 bar	99.40 bar
15C02	-60 °C	50 bar	70 bar	100 bar
	-10 °C	50 bar	70 bar	100 bar
	50 °C	50 bar	70 bar	100 bar
	65 °C	49.77 bar	69.67 bar	99.52 bar
	150 °C	44.90 bar	62.88 bar	89.90 bar
	190 °C	42.26 bar	59.16 bar	84.52 bar

Media

Gases, cryogenic liquefied gases (only for ball valves with upstream pressure relief holes in the ball) and their gas mixtures, such as::

Type 15C01			
Argon	Nitrous oxide	Carbon dioxide	Krypton
Natural gas	Oxygen	Nitrogen	
Type 15C02			
Ammonia	Argon	Nitrous oxide	Carbon dioxide
Krypton	Natural gas	Oxygen	Nitrogen

The use of other media is only permitted after consultation with the manufacturer.

ATEX

Only ball valves/valves with EX marking may be used in EX zones in accordance with the intended use.

The ball valves/valves are marked/classified as follows in accordance with the ATEX Directive 2014/34/EU:

Marking type 15C01

II 2G - Ex h IIC T6 Gb

Meaning of the marking:

- › **II** – Device group II (use in all potentially explosive atmospheres except mining)
- › **2G** – Category 2 for gas atmospheres
- › **Ex h** – Non-electrical device with constructive explosion protection
- › **IIC** – Gas group (e.g. hydrogen, acetylene - highest requirements)
- › **T6** – Maximum surface temperature $\leq 85^\circ\text{C}$
- › **Gb** – Device protection level (high protection for zone 1)

Marking type 15C02

II 2G - Ex h IIC T85 °C ... T190 °C Gb

Meaning of the marking:

- › **II** – Device group II (use in all potentially explosive atmospheres except mining)
- › **2G** – Category 2 for gas atmospheres
- › **Ex h** – Non-electrical device with constructive explosion protection
- › **IIC** – Gas group (e.g. hydrogen, acetylene - highest requirements)
- › **T85 °C ... T190 °C** – Maximum surface temperature
- › **Gb** – Device protection level (high protection for zone 1)

Intended application

The device is intended for use in zone 1 and zone 2 hazardous areas where flammable gases, vapours or mists may occur.

Use is only permitted under the following conditions:

- › The device may only be used with operating media whose properties match the intended device group and gas group.

- › The maximum surface temperature depends on the operating temperature of the medium and the operating conditions and must be ensured by the operator.
- › It must be ensured that the ignition temperature of the operating medium is above the maximum possible surface temperature of the device at all times.
- › All specified technical data and permissible operating parameters (e.g. pressure, temperature) must be observed.
- › Only suitable and authorised media may be used.

General safety instructions

- › Work may only be carried out by qualified specialist personnel.
- › The device may only be operated if it is undamaged.
- › Sparking must be prevented.
- › Deposits of dust or dirt must be removed.
- › Electrostatic charging is characterised by suitable measures.

Conditions for safe operation

- › Seals and moving parts must be checked regularly.
- › Only original spare parts may be used.
- › Maintenance intervals must be observed.
- › Temperature limits (see meaning of marking) must not be exceeded under any circumstances.

Installation

- › The device must be included in the potential equalisation.
- › Installation only in an unpressurised and de-energised environment.
- › Ensure that there is no potentially explosive atmosphere during installation.
- › All connections must be tight and correctly executed.
- › Avoid mechanical stresses (e.g. from pipelines).

Maintenance and servicing

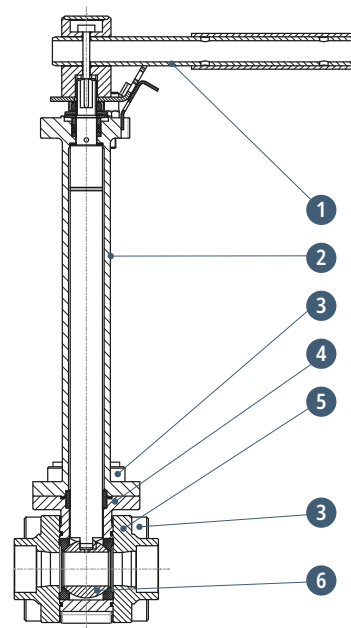
- › Regular visual inspection for damage and leaks.
- › Perform function test according to maintenance schedule.
- › Repairs may only be carried out by authorised specialist companies.

Marking on the product

The ATEX marking is permanently and legibly affixed to the type plate and must not be removed, altered or made unrecognisable.

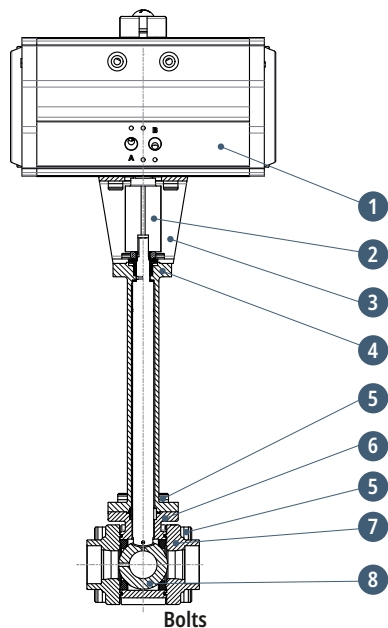
Materials

Type 15C01 - manual operation



No.	Name	Material
1	Hand lever	1.4301 / ASTM A312 TP304 Seamless tube
2	Bonnet	1.4409 CF3M
3	Bolts	A2-70
4	Body	1.4409 CF3M
5	Side parts	1.4409 CF3M
6	Ball	1.4404 ASTM A479 316L

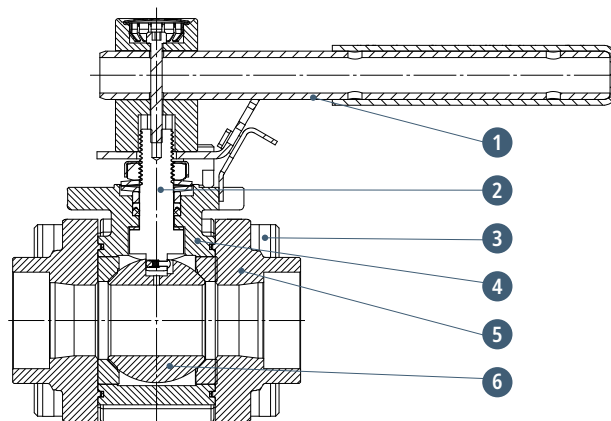
Type 15C01 - actuator



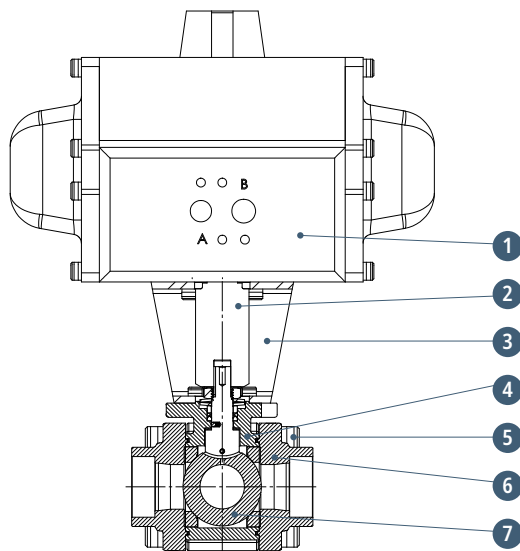
Bolts

No.	Name	Material
1	Actuator	Various
2	Adapter	ASTM A276 F304
3	Support	ASTM A240
4	Bonnet	1.4409 CF3M
5	Bolts	A2-70
6	Body	1.4409 CF3M
7	Side parts	1.4409 CF3M
8	Ball	1.4404 ASTM A479 316L

Type 15C02 - manual operation



No.	Name	Material
1	Hand lever	1.4301 / ASTM A312 TP304
2	Stem	ASTM A479 Gr. 316
3	Bolts	A2-70
4	Body	1.4409 CF3M
5	Side parts	1.4409 CF3M
6	Ball	1.4404 ASTM A479 316L



No.	Name	Material
1	Actuator	Various
2	Adapter	ASTM A276 F304
3	Support	ASTM A240
4	Body	1.4409 CF3M
5	Bolts	A2-70
6	Side parts	1.4409 CF3M
7	Ball	1.4404 ASTM A479 316

Scope of delivery

- › Valve
- › Operating instructions

Dimensions and weights

Refer to the respective data sheet for further detailed information.

Service life

The user is obligated to use HEROSE products for their intended purpose. In this case, a technical service life may be assumed in accordance with the underlying product standards (e.g. EN 1626 or EN ISO 10297).

The technical service life can be restarted several times through the exchange of wearing parts within the context of the maintenance intervals, and service lives of more than 10 years can be achieved.

If products are stored for a period exceeding 3 years, then the synthetic material components and sealing elements fitted to the product should be replaced as a precautionary measure before installation and use.

Installation

Installation position

The direction arrow must be observed during installation (there is no direction arrow for bidirectional ball valves). Installation is permitted only in the flow direction. When installing the valve in a horizontal pipeline, we recommend a vertical position of the stem (hand lever/ actuator upwards) or an inclination of up to 65° from the vertical.

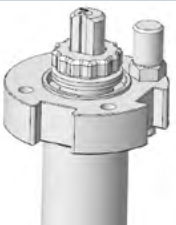
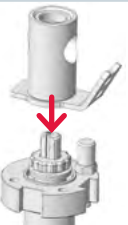
Installation notice

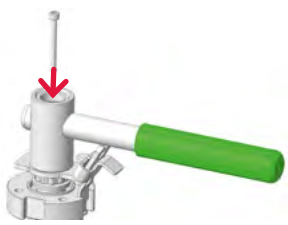
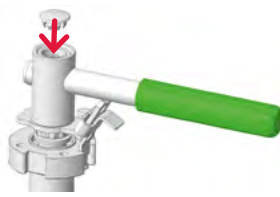
- › Use suitable tools:
 - › Allen keys of sizes 6, 8, 10, 14, 19
 - › Open-ended spanners
 - › Torque wrench
 - › TIG welding machine
 - › Oxy-fuel welding machine
- › Clean tools before installation.
- › Use suitable transport and lifting equipment for installation.
- › Open the packaging immediately before installation. Oil and grease-free for oxygen (O2). Valves for oxygen are permanently marked with "O2".
- › Observe the HEROSE information sheet 'Oxygen Applications'.
- › Only install the valve if the maximum working pressure and operating conditions of the plant correspond to the marking on the valve.
- › Remove protective caps or covers before installation.
- › Check the valve for contamination and damage. **Do not** install a damaged or dirty valve.
- › Avoid damaging the connections.
- › The sealing surfaces must remain clean and intact.
- › Seal the valve with suitable seals. No sealant (sealing tape, liquid sealing) may enter the valve. Note O2 suitability.
- › Connect pipelines in a force-free and torque-free manner. Stress-free mounting.
- › To ensure trouble-free operation, impermissible static, thermal or dynamic stresses must not be transmitted to the valve. Observe reaction forces.

- › Temperature-dependent changes in length in the pipework system must be compensated with expansion joints.
- › The valve is supported by the pipework system.
- › Detailed user information is enclosed for valves with power actuators and attachments with safety function (sensor, switch, solenoid valve, etc.).

- › The valve must be protected against dirt and damage during construction work.
- › Remove any transport locks such as blocking bushing (optional).
- › Check the leak-tightness.

Hand lever assembly

1  › The lever must first be fastened to the upper end of the stem; the ball valve is then ready for use.	2  › Push the lever connector onto the upper end of the stem.
3  › Push the closing sleeve onto the locking plate so that it can be secured with the valve bonnet.	4  › Insert the hand lever into the lever connection with the open/closed marking facing upwards.

5  › Insert the screw included from above and tighten it so that the lever and the lever connector are firmly connected to the stem.	6  › After fastening the screw, the cap is fitted as a screen. The ball valve can now be opened and closed.
--	---

Welding

Welding of the valve and any heat treatment that may be required are the responsibility of the contracting construction company or operating company. During this procedure, make sure that no dirt gets into the interior.

Before welding

1  › Move the hand lever to the open position. › Loosen the bolts. Direction of rotation: counterclockwise › Remove the bolts.	2  › Remove side parts. › Carefully remove the ball seal › Turn the hand lever to the closed position while supporting the ball.
3 Weld on the side parts	

After welding

1



- › Remove the old body seals and replace them with the new body seals supplied with the valve.
- › Position the body between the side parts.

CAUTION

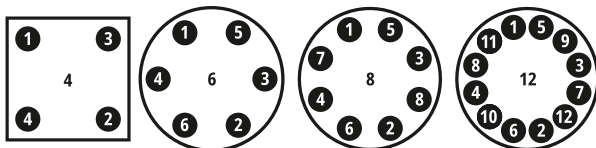
- › Do not damage the seal!
- › Pay attention to the flow direction!

2



- › Tighten the bolts.
- › Cross tighten the bolts to the specified torque
- › Direction of rotation: clockwise

3



- › Assembly sequence for the bolts

4

Type 15C01

Nominal diameter	Side part body	Cylinder screw
DN10 PN100	24 Nm	M8
DN15 PN100	24 Nm	M8
DN20 PN100	50 Nm	M10
DN25 PN70	50 Nm	M10
DN32 PN70	90 Nm	M12
DN40 PN70	90 Nm	M12
DN50 PN70	180 Nm	M16
DN65 PN50	90 Nm	M12
DN80 PN50	180 Nm	M16

- › Torques for side part / body

Type 15C02

Nominal diameter	Side part body	Cylinder screw
DN10 PN100	24 Nm	M8
DN15 PN100	24 Nm	M8
DN20 PN100	50 Nm	M10
DN25 PN70	50 Nm	M8
DN32 PN70	90 Nm	M12
DN40 PN70	90 Nm	M12
DN50 PN70	180 Nm	M16
DN65 PN50	90 Nm	M12
DN80 PN50	180 Nm	M16

5

- › Check the leak-tightness.

Operation

Start-up

- › Check the following points prior to start-up:
 - › All assembly and installation work has been completed.
 - › The safety guards are in place.
 - › Compare the material, pressure, temperature and installation position with the layout plan for the pipework system.
 - › Contamination and residues have been removed from the pipeline and valve to prevent leaks.
 - › The ball valve is in the open or closed position (90°).
 - › Do not cool down the valve in partial opening.

Maintenance and service

Safety during cleaning

- › Use only cleaning products that are suitable for the materials.
- › Take note the specifications in the safety data sheet, the general health and safety regulations, and the HEROSE information sheet 'Oxygen Applications' if degreasers are used for process-related reasons when cleaning bearing parts, couplings and other precision components.
- › Maintenance or cleaning work must not be carried out when the valve is in operation.
- › Only external cleaning is permitted.

Maintenance

The maintenance and inspection intervals must be defined by the operating company according to the operating conditions and the national regulations. The manufacturer's general recommendations for the maintenance and inspection of the valves are given in the table below and are based on the national standards of the country of manufacture.

Inspection and maintenance intervals

Description	Interval	Scope
Inspection	During start-up	› Visual inspection » of the valve for damage » of the marking for legibility » of the installation position › Leak-tightness » at the packing gland » between bonnet and body » at the seating (internal leak-tightness) › Test of the valve opening and closing function
Functional testing	Inspection and maintenance in accordance with the respective legal regulations. In Germany, for example, according to the Operational Safety Ordinance	› Test of the opening and closing function of the valve, including visual inspection
External inspection	Inspection and maintenance in accordance with the respective legal regulations. In Germany, for example, according to the Operational Safety Ordinance	› Function and tightness test including visual inspection
Innere Prüfung Internal inspection	Every 5 years or ≥ 500 actuation cycles	› Replacement of all sealing elements if the tightness test, functional test and visual inspection yield negative results
Hydraulic test	Every 10 years	› Replacement of all sealing elements, including a function, leak and pressure test as well as an inspection

Fault table

Fault	Cause	Remedy
Leak at the stem	Gland nut loose	› Retighten the gland nut
	Packing gland defective	› Replace the packing gland
	Fit on the stem damaged	› Replace the stem
Leak between bonnet and body	Bonnet loose	› Retighten the bonnet / bolts
	Seal damaged	› Replace the seal
Ball valve does not open / close	Gland nut overtightened	› Loosen the gland nut › Tightness must still be ensured
	Actuator not working	› Check energy supply to the actuator
Ball valve is leaking at the ball seals	Ball valve not fully open or closed when warmed or cooled by the medium	› Replace the ball seals
	Ball seals are damaged	› Replace the ball seals

Spare parts

Repairs to valves may only be carried out by HEROSE or by specialist workshops authorised by HEROSE and inspected by the approval authorities, using only original spare parts.

Returns / complaints

Use the Service form in case of returns/ complaints.



Contact in case of service:
herose.com → Service → Complaints
E-Mail: service@herose.com

Disassembly and disposal

Notices regarding the disassembly

- › Observe all national and local safety requirements.
- › The pipework system must be depressurised.
- › The medium and valves must be at ambient temperature.
- › Vent / flush the pipework system in the case of corrosive and aggressive media.
- › Remove the valve from the pipework system.

Disposal

- › Collect greases and lubricating fluids during dismantling.
- › Separate the materials:
 - › Metal
 - › Synthetic material
 - › Electronic scrap
 - › Greases and lubricating fluids
- › Carry out a sorted disposal of the materials.

Notes

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 **Mack Valves India Pty Ltd.**
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HEROSE Ibérica, S. L.
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