VEXVE

Trunnion mounted gas ball valves

Installation, operation and maintenance manual

Contents

NOTE:

This manual must be read and its instructions must be followed when installing, operating and/or performing maintenance on the valve as well as its manual gear or actuator.

These instructions are of general nature and do not cover all possible operating scenarios. For more specific guidance on the installation, operation and maintenance of the valve or its suitability for an intended use, please contact the manufacturer.

Vexve Oy reserves the right to make alterations to these instructions.

Vexve Oy is not responsible for damages caused by incorrect transportation, handling, installation, operation or maintenance. Furthermore, Vexve Oy is not responsible for damage caused by foreign objects or impurities.

Warranty

Warranty according to Vexve Oy's "General terms and conditions of sale".

The warranty covers manufacturing and material faults. The warranty does not apply to damages caused by inappropriate installation, operation, maintenance, or storage ie. these instructions must be followed for the warranty to apply. Vexve Oy requires that any faulty products under warranty are to be returned to the factory for inspection. Only after the product has been found faulty, Vexve Oy can grant compensation.

Please refer to Vexve Oy's "General terms and conditions of sale" for detailed warranty clauses. The document is available from the manufacturer.

Warnings and symbols

Ignoring the warnings and symbols may lead to serious injury or equipment damage. Persons authorized to use the equipment must be familiar with the warnings and instructions.

Appropriate transportation, storage and installation as well as careful commissioning are essential to ensure faultless and stable operation.

The following symbols are used in this manual to draw attention to actions essential to ensure the proper use and safety of the device.

Meaning of the symbol: NOTE

The NOTE symbol is used for actions and functions that are essential for the proper use of the device. Ignoring this symbol may have harmful consequences.

Meaning of the symbol: WARNING

The WARNING symbol is used for actions and functions that, if carried out incorrectly, may lead to injury or equipment damage.

1. General

Vexve Oy's fully welded trunnion mounted gas ball valve (color yellow) is designed for clean gaseous mediums and to be used in natural gas systems. The gas ball valve can also be used in compressed air applications and in many other systems where gaseous medium is used – check the compatibility of the valve and medium from Vexve Oy.

In the trunnion mounted gas ball valve design the sealing rings are floating and the ball is fixed. The ball and the stem are attached to each other on both sides of the ball, which provides more support especially as the ball size increases. Vexve's trunnion mounted gas ball valves have rate A tightness in both directions.

Vexve Oy's trunnion mounted gas ball valve can be used within the following temperature range. Please note that the maximum allowable working pressure depends on the operating temperature.

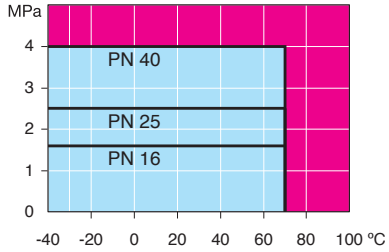


Chart 1.
Pressure-temperature chart
DN 150–1200 full bore.

Operating conditions: -40...+70 °C

If the intended operation temperature is below -30 °C or above + 70°C, please contact the manufacturer.

NOTE:

When intending to use the valve for other media or applications please contact Vexve Oy to ensure its suitability.

NOTE:

Dimensions in this manual generally refer to full bore ball valves. Manual can be utilized also as a reduced bore ball valve's user manual. However must be noticed that a reduced bore ball valve follows user instructions of a one size smaller full bore ball valve. For example a DN 200 reduced bore ball valve follows user instructions of a DN 150 full bore ball valve.

Parts lists for Vexve Oy's steel ball valves are presented in Appendices 7.1 and 7.2

For detailed technical information including dimensions and weights, torques, Kv-values etc please refer to www.vexve.com.

2. Valve identification

The identification plate locates at the valve body. It has the following information:

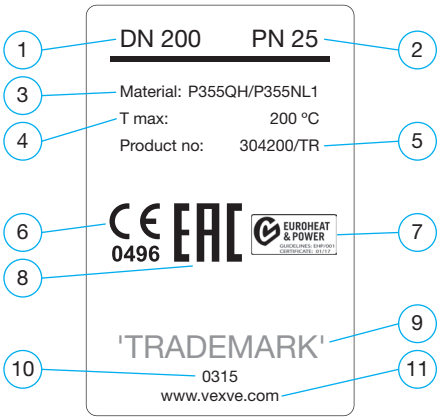


Figure 1. Identification plate for DN 150–400FB.

1. Valve DN size
2. Pressure class
3. Valve Body Material
4. Maximum Allowable Temperature
5. Product number
6. CE-Mark and the number of the notified body
7. EHP003 certification
8. Eurasian conformity valve certification
9. Trademark
10. Manufacturing date
11. Manufacturer's Website

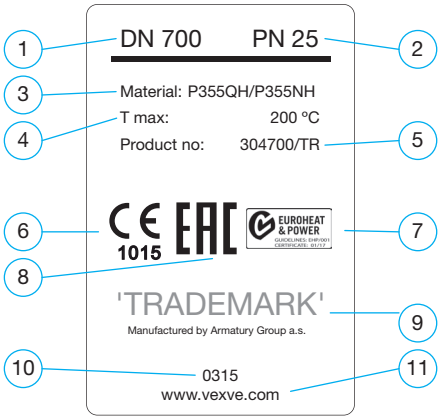


Figure 2. Identification plate for DN 450–1200FB.

1. Valve DN size
2. Pressure class
3. Valve Body Material
4. Maximum Allowable Temperature
5. Product number
6. CE-Mark and the number of the notified body
7. EHP003 certification
8. Eurasian conformity valve certification
9. Trademark
10. Manufacturing date
11. Manufacturer's Website

3. Unloading and storage

Check that the contents of the delivery is as ordered. Check that the valve and related equipment have not been damaged during transportation.

Store the valve carefully before installation, preferably in a well-ventilated, dry place, on a shelf or a wooden grid to protect it from rising damp.

Protect bare metal surfaces, shaft parts, and flange surfaces with anti-corrosive agent before storage.

The valve must be transported to the installation site in a sturdy package. Do not remove the flow port protectors before installation. Protect the valve from sand, dust, and other impurities.

Use lifting ropes when lifting the large size valves. It is forbidden to lift the valve by its actuator or stem (see Figure 3).

NOTE:

Take the weight of the valve into account when handling it and use only approved lifting equipment.

When delivered, the valve is in the open position. During storage, the valve must also be in the open position.

Maximum recommended storage time is two years. If the valve is stored for more than two years, it should be operated and cleaned yearly.

Packaging:

Vexve Oy's products are protected during transportation with special packaging. The packaging consists of environmentally friendly materials that are easy to sort and recycle.

Recycling the packaging materials at designated waste collection points is recommended.

The following packaging materials are used: wood, cardboard, paper, and polyethylene sheets.

Recycling and disposal

Nearly all parts of the valve are made of recyclable materials. The material type is marked on most parts. Separate recycling and disposal instructions are available from the manufacturer. The valve can also be returned to the manufacturer for recycling and disposal against a fee.

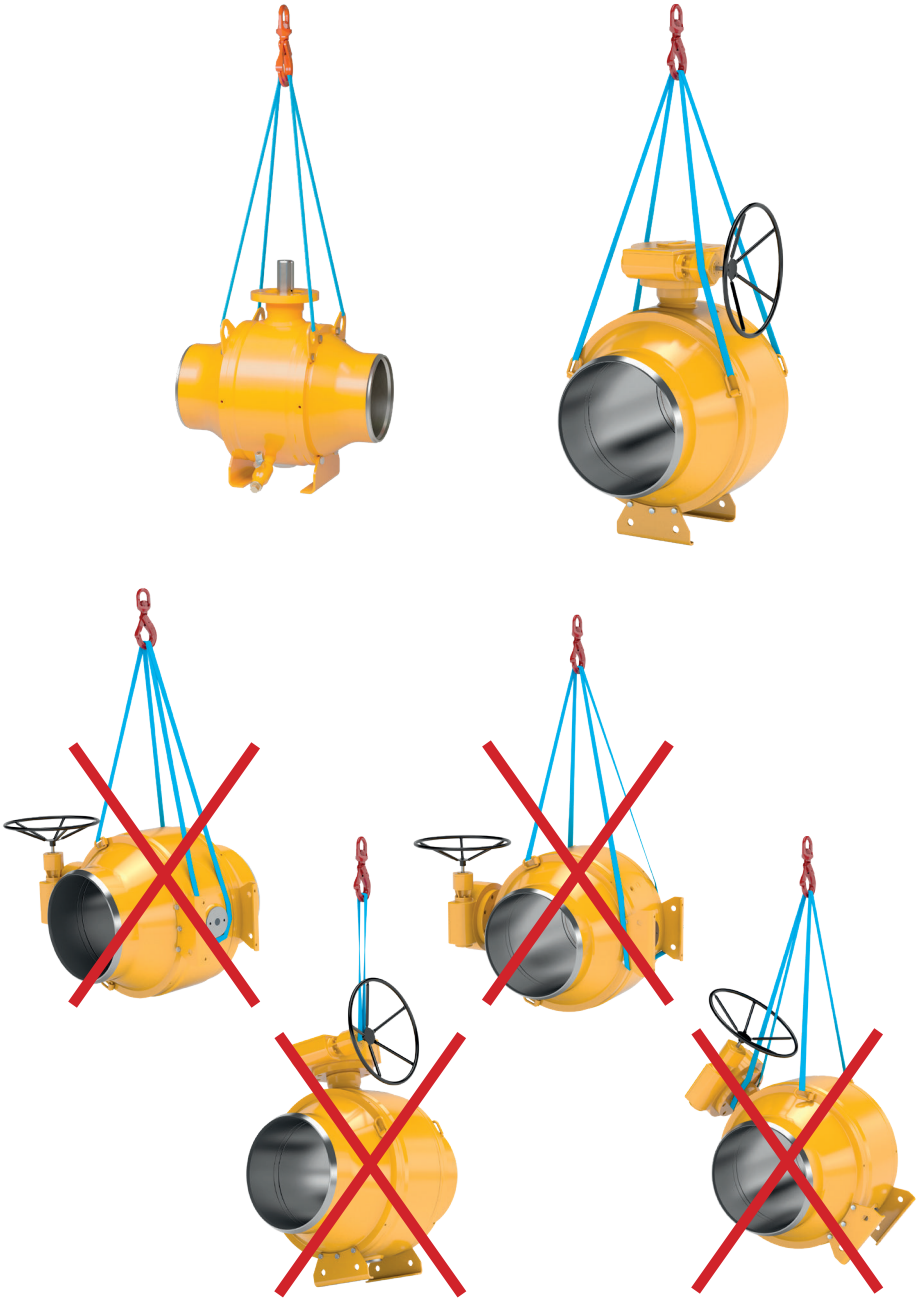


Figure 3. Lifting the valve

4. Valve installation

WARNING:

Incorrect installation may result in serious personal injury and it may damage or cause malfunction of the equipment. These instructions must therefore be followed carefully when installing the valve.

These general instructions do not cover all possible operating scenarios. For more specific guidance on the use of the valve or its suitability for an intended use, please contact the manufacturer.

- Do not remove the flow port protectors before installation. Keep the valve protected from sand, dust, and other impurities.
- If the valve was delivered with the actuator installed, avoid removing the actuator during installation.
- Incorrect re-installation or adjustment of the actuator will result in a high risk of damage and leakage.
- Exercise extreme caution when testing the valve before installation in the pipeline.
- The valve or valve assembly must not be lifted from the actuator. If the valve is equipped with lifting lugs, use them (see Figure 3). Dropping or incorrect lifting of the valve can result in personal injury or equipment damage.
- Use one of the allowed lifting methods shown in Figure 3.

NOTE:

The valve must be used only in applications for which it is intended.

Prior to installation:

- Remove the flow port protectors and check that the inside of the valve is clean.
- Remove the protective tapes that are covering seat and ball.

NOTE:

The recommended installation position for the valve is with the shaft in the vertical or horizontal position.

WARNING:

The pipeline and valve shall be carefully cleaned prior to installation as any welding debris or other impurities can damage the valve.

NOTE:

Make sure that the base of the valve is properly supported in the installation location. With sizes DN 500 full bore and bigger we recommend using concrete base to ensure proper support for the valve.

4.1 Installation of valve with weld connections

NOTE:

Electric welding must be used to weld the valve in place.

- Recommended welding method is manual metal arc welding. Recommended welding rod is ESAB OK 48.00 or equal (standard: EN ISO 2560-A; classification: E 42 4 B 42 H5).
- A valve may be welded only by an authorized mechanic, following valid norms and standards.
- The valve must remain open during installation and welding to ensure that welding residue does not damage the seal surfaces.
- The ends of the pipes must be parallel to the valve and correctly aligned.
- The length of the valve must be the same as the distance between the pipe ends, taking into consideration the welding gaps.
- Diameter and wall thickness of the pipes must be compatible with the welding ends of the valve.
- Do not overheat the valve. Use cooling during the welding. Use wet fabric to protect the valve seat from excess heat during the welding. The welder should have the proper qualification to do this kind of welding procedures.

NOTE:

The recommended installation position for the valve is with the shaft in the vertical or horizontal position.

NOTE:

Cool down the valve (after welding) before normal operation. The valve may not be opened or/and closed after the welding before it has cooled down.

- The valve must first be bridged to the pipeline using spot welding, with 4–8 seams alternately on opposite sides of the valve.
- Then the seams between the bridges are welded as shown in Figures 4. and 5. Welding order: 1-2-3-4.
- Any lid welding must be carried minimum at 200 mm from the valve seam.
- During welding the ground must be connected to the pipe of the valve body or the pipeline. Ground cable should be connected to the pipe on the same side as the welding seam. Otherwise the current may damage the valve seal. Never connect the ground to the valve neck, top flange or actuator.

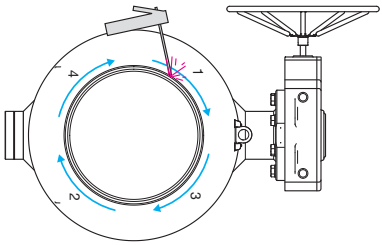


Figure 4. Welding the seams.

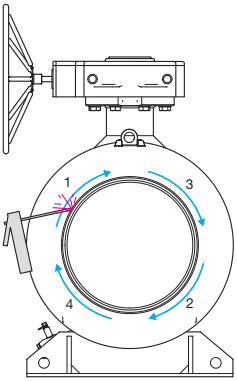


Figure 5. Welding the seams.

4.2 Installation of valve with flanges

- Valve may be installed only by an authorized mechanic, following valid norms and standards.
- The valve must remain open during installation to ensure that any residue or dirt does not damage the sealing faces.
- The sealing faces of the pipe flanges must be parallel to the valve sealing faces and correctly aligned.
- The length of the valve must be the same as the distance between the flanges in the pipe line, taking into consideration the gasket.
- The flanges in the pipeline must be compatible with valve flanges. For detailed information please refer to the standard EN1092-1.
- The bolts and nuts used on installation must be selected to match operating conditions at installation location. Bolts and nuts must also fulfill requirements of the pressure, temperature, flange material and gasket. For detailed information please refer to the standards EN 1515-1, EN1515-2 and EN 1515-4.
- The bolts and nuts shall be tightened in a crosswise manner.
- The gasket used on installation must be selected to match operating conditions, temperature, pressure and medium. Gasket dimensions must be compatible with sealing faces of the flanges. For detailed information please refer to the standard EN1514.
- Recommended installation position for the valve is with the shaft in the vertical or horizontal position.

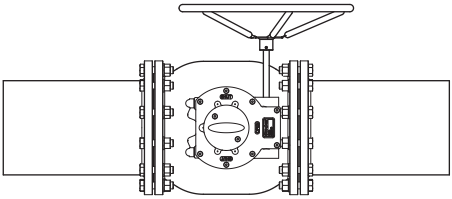


Figure 6. Horizontal installation.

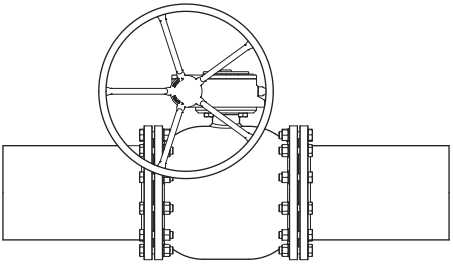
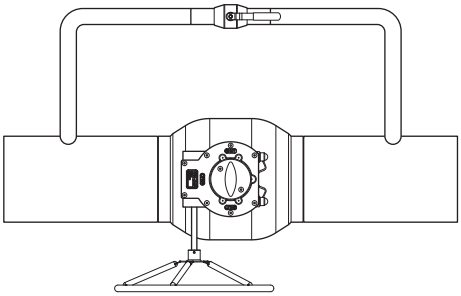


Figure 7. Vertical installation.

4.3 Before commissioning



To avoid pressure shocks and to reduce the forces caused by opening the valve under pressure, it is recommended to use a by-pass valve in connection with trunnion mounted ball valves (see Figure 10).

Figure 10. By-pass valve.

4.4 Commissioning and Pressure testing

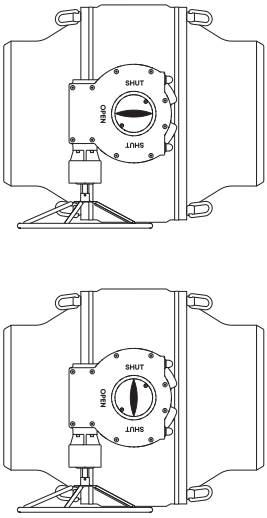


Figure 11. Check that the valve is either in an open or close position.

Exceeding of permitted values marked on the valve may damage the valve and, in the worst case, cause uncontrolled venting of the pressure. This leads to equipment damage and possibly also to personal injuries. The largest allowable testing pressure is 1,1xPN, when the valve is closed. During the pipeline pressure testing (1,5xPN), the valve must be open.

The shut-off valves are designed to be fully open or close. The valves shall not be used in intermediate positions. Check that the valve is either in an open or close position against the stopper. The valve is equipped with a manual gear or an actuator, operate the valve with the help of it.

5. Gear and actuator disassembly and installation

NOTE:

Avoid removing the actuator/gear from the valve. The actuator/gear has been calibrated at the factory to ensure that the valve is tight. If the actuator/gear is removed, it may have to be re-calibrated.

Vexve Oy accepts responsibility only for actuators/gears installed by Vexve Oy.

Refer to the separate adjustment instructions, available from the manufacturer.

WARNING:

The manual gear or actuator may not be removed or dismantled if the valve is pressurized! It is recommended to use the special actuator removal tools!

Incorrect disconnection may cause serious personal injuries as well as malfunction and damage to the equipment. Extreme caution must be exercised during the disconnection!

Do not use too high torques to operate the valve. Too high torques can damage the valve or the actuator/gear!

5.1 Disassembly and reinstallation of ProGear/Rotork manual gear

Part numbers mentioned in this chapter refer to the figure 12.

Disassembly:

1. Turn the valve to the open position before removing the gear. Valve opens when you turn the hand wheel of the gear counterclockwise
2. Turn the hand wheel slightly towards the close position (clockwise) to release forces between the valve and the gear in order to make it easier to remove the gear. To do this, turn the hand wheel only that much that it rotates easily
3. Remove the bolts (2) of the position indicator plate and remove the position indicator plate (3). Mark the position of the valve stem to the bush of the gear (1) in order to make it easier to reinstall the gear back into the right position
4. Remove the attachment bolts of the gear and then remove the gear

Reinstallation:

5. When reinstalling the manual gear back to valve, check that the gear is in the right position
   - If the gear is installed back to its original position there is no need to adjust the gear settings
   - If the gear is turned 180 degrees from its original position, you must carefully check that the valve closes and opens correctly. If the mechanical limits (parts 4-7) are not correct you must adjust the gear as described in the chapter “5.2 Adjustment of manual gear”
6. Install the gear back to the valve and tighten the attachment bolts
7. Check that the valve opens and closes correctly. If the mechanical limits (parts 4-7) are not correct you must adjust the gear as described in the chapter “5.2 Adjustment of manual gear”

5.2 Adjustment of ProGear/Rotork manual gear

Part numbers mentioned in this chapter refer to the figure 12.

1. Remove the plastic dust caps (4) from the top of the mechanical limits. Open the locking nuts (5) and loosen the adjusting screws (6 & 7)
2. Turn the valve to the open position. Valve opens when you turn the hand wheel of the gear counterclockwise. Valve is in the open position when the flow port of the valve ball is concentric with the seat of the ball
3. Tighten the OPEN position adjusting screw (7) until it stops turning. Fix it with the locking nut (5) and put the dust cup in its place (4)
4. Turn the valve 90 degrees to the closed position. Valve closes when you turn the hand wheel of the gear clockwise
5. Tighten the CLOSE position adjusting screw (6) until it stops turning. Fix it with the locking nut (5) and put the dust cup in its place (4)
6. Check that the valve opens and closes correctly

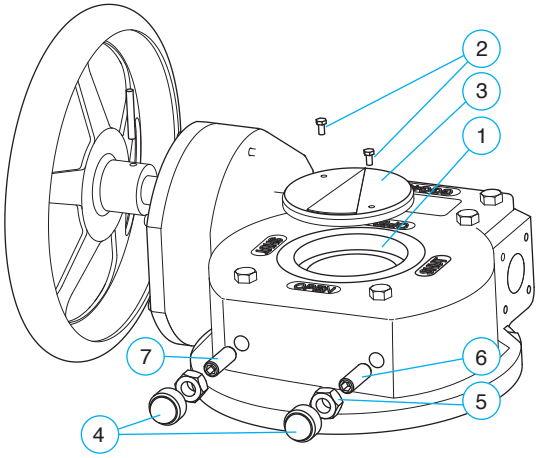


Figure 12. Manual gear.

5.3 Disassembly and reinstallation of AUMA electric actuator

Part numbers mentioned in this chapter refer to the figure 13.

Disassembly:

1. Before removing the actuator, turn the valve to the open position either electrically or manually by rotating the hand wheel (3) of the motor unit (2) counterclockwise
2. Turn off the power supply of the actuator
3. Turn the hand wheel (3) of the motor unit (2) slightly towards the close position (clockwise) to release forces between the valve and the actuator in order to make it easier to remove the actuator. To do this, turn the hand wheel (3) only that much that it rotates easily
4. Remove the bolts (4) of the position indicator plate. Remove the position indicator plate (5), the retaining ring (6) and the cover plate (7)
5. Before removing the actuator, mark the position and the place of the bushing (8) in relation to the actuator and the valve
6. Remove the attachment bolts of the actuator and remove the actuator. The bushing (8) will stay at the valve stem

Reinstallation:

7. When reinstalling the actuator back to the valve, check that the actuator is in the right position
   - If the actuator is installed back to its original position there is no need to adjust the actuator settings
   - If the actuator is turned 180 degrees from its original position, you must carefully check that the valve closes and opens correctly. If the actuator limits are not correct you must adjust the actuator as described in the chapter 5.4 “Adjustment of the mechanical limits of AUMA electric actuator”
8. Install the actuator back to the valve and tighten the attachment bolts of the actuator
9. Check that the valve opens and closes correctly. If the actuator limits are not correct you must adjust the actuator as described in the chapter 5.4 “Adjustment of the mechanical limits of AUMA electric actuator”

5.4 Adjustment of the mechanical limits of AUMA electric actuator

Part numbers mentioned in this chapter refer to the figure 13.

If the actuator is already installed to the valve, you can skip the points 1-8

1. Vexve Oy's ball valves are delivered from the factory in the open position. If the valve has been operated so that it is in some other position, turn the valve to the open position. Remove the device (handle/actuator) that you used to operate the valve
2. Check that the valve stem is intact and clean. Check also that the key of the valve stem is properly in its groove
3. Put the bushing (8) on the valve stem and set it to the right depth. Check that the overlap between the valve stem and the bushing is long enough. Usually a proper gap between the bushing and the actuator flange of the valve is about 10 mm
4. Tighten the locking screw (9) with an Allen key
5. Turn the actuator to the open position
6. Install the actuator on the valve in the preferred position. The gear unit (1) must fit the bushing (8) easily and you must not force it in its place
7. Grease the attachment screws of the actuator. Put all the washers and the attachment screws first loosely in their places and finally tighten them up
8. (If the motor unit (2) is not installed to the gear unit (1), install it now. Put all the washers and the attachment screws first loosely in their places and finally tighten them up)
9. Turn the hand wheel (3) a couple of revolutions clockwise. Remove the attachment screws (10) of the limiting bush (11)
10. (Set the position and torque limit of the motor unit (or control unit if included) according to separate AUMA's instructions)
11. Turn the valve to the open position
12. Turn the limiting bush counterclockwise until it stops turning. Then turn it backwards (clockwise) app. 1/8 turn
13. Pull the limiting bush out and put it back in its place so that the holes of it will match the holes of the gear unit. Fasten the limiting bush (11) tightly with the attachment screws (10).
14. Check that the actuator works properly

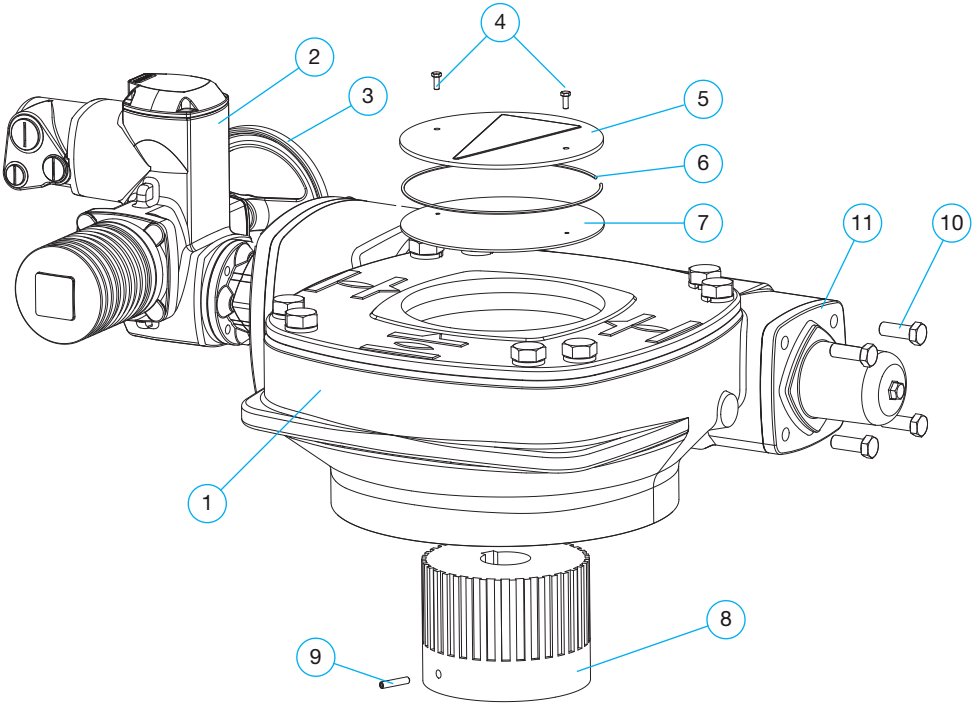


Figure 13. Electric actuator.

5.5 Assembly/disassembly of pneumatic actuator

Please refer to the separate installation/adjustment instructions, available from the manufacturer.

5.6 Assembly/disassembly of hydraulic actuator

Please refer to the separate installation/adjustment instructions, available from the manufacturer.

6. Maintenance

Vexve Oy's ball valves are virtually maintenance-free.

Correct choice of valve as well as careful installation, commissioning, and use significantly reduce any need for maintenance.

WARNING:

When the valve is installed in the line, its surface temperature may be dangerously high. Protect yourself against burns.

We recommend checking the following periodically:

Check that the valve is free from surface damage and shaft leaks, and carefully repair any damage.

To ensure long-term operational reliability, even when seldom used (around ten times a year or less), we recommend the following:

Approximately six months after commissioning and then once a year, inspect the valve for shaft leaks, check the manual gear / actuator, and ensure the tightness of the screws between valves.

6.1 Replacing the O-ring seal of stem

NOTE!

When reassembling, be sure to put the retaining ring (4) properly into its groove in the stem and make sure that the stem is in the right position. Make sure that the gap in the retaining ring (4) is not located in the same place with the key (1).

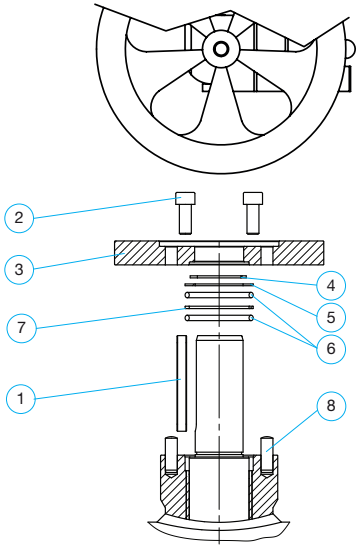
NOTE!

Clean the stem hole of the actuator before reinstalling the actuator. Actuator must fit the stem easily so that it won't press the stem downwards.

WARNING:

Stem sealing O-rings can only be replaced when the valve body contains no pressure.

6.1.1 Replacing the O-ring seal of stem in valves DN 150–400

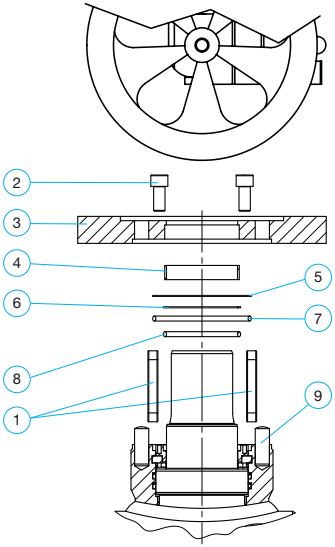


Instructions:

- remove the actuator, hex screws (2), the key (1) and the actuator flange (3). The pins (8) may be left at their place.
  - TIP: You can remove the actuator flange with the help of M12 screws: drive the screws into the flange and pull it away. (Screw holes of the flange are equipped with M12 thread. Screws (2) that you removed earlier are M10 screws)
- remove the retaining ring (4), the sliding plate (5), the upper O-ring (6), the distance plate (7) and the lower o-ring (6)
- put the new lower o-ring (6), the distance plate (7) and the new upper o-ring (6) in their places. Install the o-rings by pressing them evenly downwards from the upper edge
- assemble the rest of the removed parts in reverse order

	Part	DN 150–200	DN 250–300	DN 350–400
1	Key	040001	070005	070006
2	Hex screw (4 pcs)	070044	070044	070044
3	Actuator flange	935501	935503	935505
4	Retaining ring	009006	009008	070014
5	Sliding plate	630469	630470	940280
6	O-ring (2 pcs)	298296	298297	298386
7	Bottom distance plate	940163	630471	970058
8	Cylindrical pin (4 pcs)	004011	004017	004016

6.1.2 Replacing the O-ring seal of stem in valves with actuators DN 450–900 (manufactured after 2021)



Instructions:

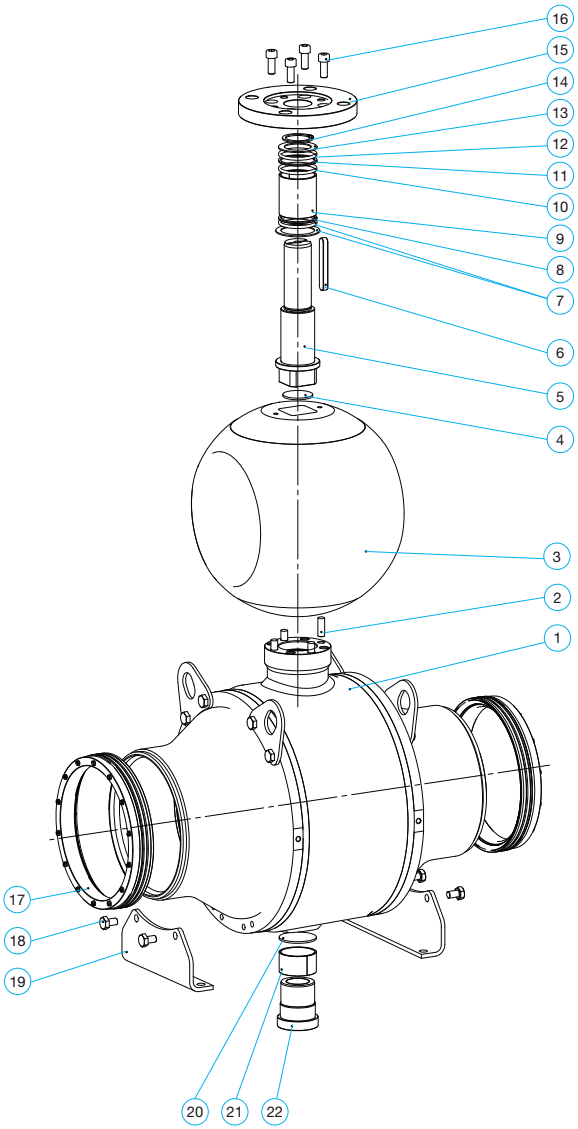
- remove the actuator, bolts (2), the keys (1), the actuator flange (3) and the bearing (4). The pins (9) may be left at their place.
- remove the distance plates (5,6) and the O-rings (7,8)
- put the new o-rings (7,8) and the distance plates (5,6) in their places. Install the o-rings by pressing them evenly downwards from the upper edge
- assemble the rest of the removed parts in reverse order

	Part	DN 450	DN 500	DN 600
1	Keys	OHSR562X201210001001	OHSR562X251410001001	OHSR562X281612001001
2	Bolts	OHSS143X1603501001	OHSS143X1603501001	OHSS143X1603501001
3	Actuator flange			
4	Bearing	OVLK008020001	OVLK010020001	OVLK010020001
5	Distance plate	OVTKT01X118110015002	OVTKT01X13813015001	OVTKT01X13813015001
6	Distance plate	OVTKT01X08908015002	OVTKT01X109100215001	OVTKT01X109100215001
7	O-ring	OVPOV00X0107325336001	OVPOV00X0129545337001	OVPOV00X0129545337001
8	O-ring	OVPOV00X0078745336001	OVPOV00X0097795336002	OVPOV00X0097795336002
9	Cylindrical pin (4 pcs)	OHSK150X1605001001	OHSK150X2005501001	OHSK150X2005501001

	Part	DN 700	DN 800	DN 900
1	Keys	OHSR562X281613001001	OHSR562X321814001001	OHSR562X321814001001
2	Bolts	OHSS143X1603501001	OHSS143A2405003001	OHSS143A2405003001
3	Actuator flange			
4	Bearing	OVLK012030001	OVLK012535001	OVLK012535001
5	Distance plate	OVTKT01X158150215001	OVTKT01X169160215001	OVTKT01X169160215001
6	Distance plate	OVTKT01X129120015002	OVTKT01X13412515001	OVTKT01X13412515001
7	O-ring	OVPOV00X0148595336002	OVPOV00X0158125336001	OVPOV00X0158125336001
8	O-ring	OVPOV00X0116845336002	OVPOV00X0120025336001	OVPOV00X0120025336001
9	Cylindrical pin (4 pcs)	OHSK150X2005501001	0440-D75851	0440-D75851

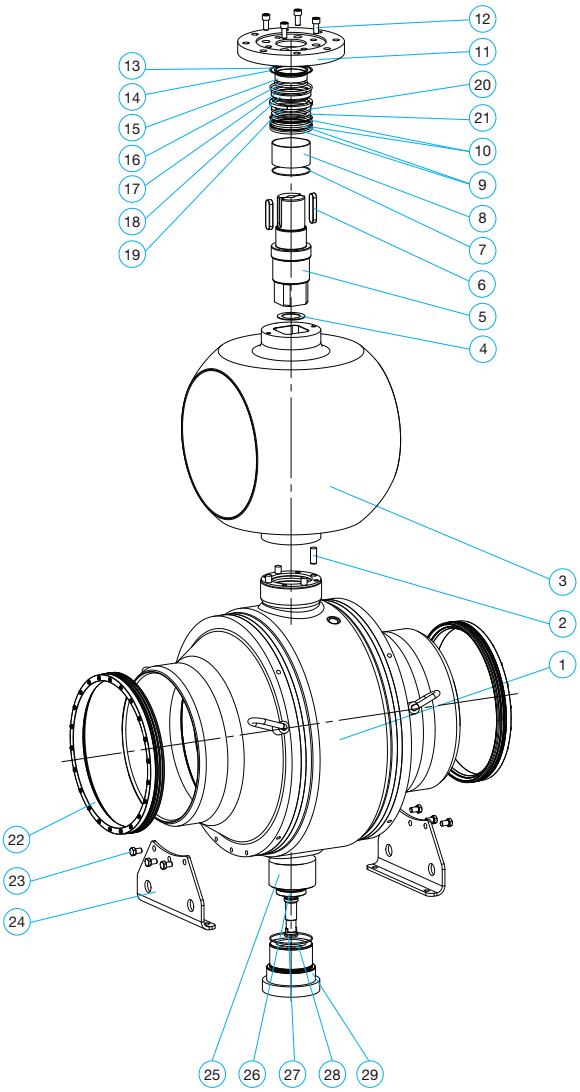
7. Appendices

7.1 Parts list for trunnion mounted ball valves DN 150–400



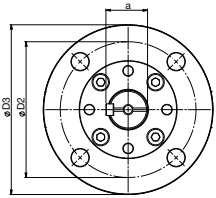
Part number		qty
1	Valve body	1
2	Pin	4
3	Ball	1
4	Sliding plate	1
5	Upper stem	1
6	Key	1
7	Sliding plate	1
8	O-ring	1
9	Sliding bearing	1
10	O-ring	1
11	Bottom distance plate	1
12	O-ring	1
13	Sliding plate	1
14	Retaining ring	1
15	Top flange	1
16	Socket head screw	4
17	Seal assembly	2
18	Hex screw	4
19	Mounting support	2
20	Sliding plate	1
21	Sliding bearing	1
22	Lower stem	1

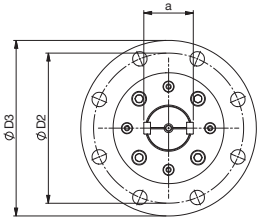
7.2 Parts list for trunnion mounted ball valves DN 450–900

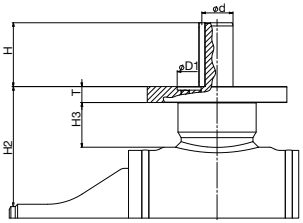


Part number		qty
1	Valve body	1
2	Pin	4
3	Ball	1
4	Sliding plate	1
5	Upper stem	1
6	Key	2
7	O-ring	1
8	Sliding bearing	1
9	O-ring	2
10	Distance plate	2
11	Top flange	1
12	Socket head screw	4
13-14	Top distance plate	2
15	Sliding bearing	1
16-17	O-ring	2
18	O-ring bushing	1
19	Segment ring	1
20-21	Distance plate	2
22	Seat assebly	2
23	Hex screw	6
24	Mounting support	2
25	Sliding bearing	1
26	Lower stem	1
27-28	O-ring	2
29	Base plate	1

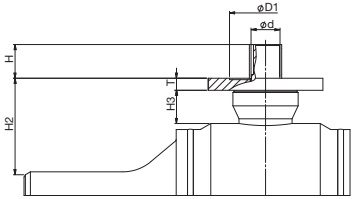
7.3 Coupling dimensions, full bore ball valves DN 150–900 with actuators







DN 150–400

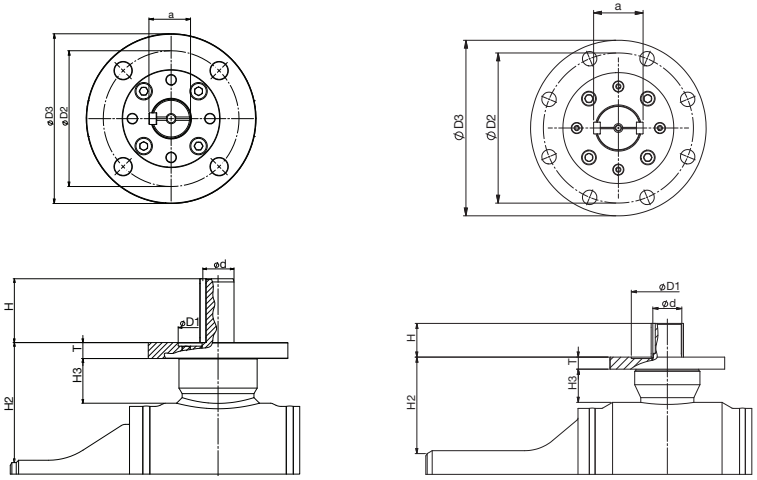


DN 450–900

DN	H	Ød	T	H2	H3	a	D1	D2	D3	Bolts	Key	Flange ISO5211
150	80	40	20	150	57	43	100	140	175	4xM6	A-12x8 - 80	F14
200	80	40	20	150	56	43	100	140	175	4xM16	A-12x8 - 80	F14
250	82	50	20	166	62	53.5	130	165	210	4xM20	A-14x9 - 90	F16
300	82	50	20	175	62	53.5	130	165	210	4xM20	A-14x9 - 80	F16
350	105	70	25	222	80	74.5	200	254	300	8xM16	A-20x12 - 100	F25
400	105	70	25	222	80	74.5	200	254	300	8xM16	A-20x12 - 100	F25
450*	100	75	34	262	88	84.2	230	298	350	8xM20	A-20x12 - 100	F30
500*	100	90	38	283	88	100.6	230	298	350	8xM20	A-25x14 - 100	F30
600*	121	98	38	311	88	110.2	230	298	350	8xM20	A-28x16 - 120	F30
700*	130	98	48	366	111	110.2	260	356	415	8xM30	A-28x16 - 130	F35
800*	140	120	50	426	138	133.8	260	356	415	8xM30	A-32x18 - 140	F35
900*	140	120	50	451	138	133.8	300	406	475	8xM36	A-32x18 -140	F40
Toler.		-0.1										

*DN 450–900 coupling dimensions are for PN 25 & PN40 valves.

7.4 Coupling dimensions, reduced bore ball valves DN 200–900 with actuators



DN 200–450

DN 500–900

DN	H	Ød	T	H2	H3	a	D1	D2	D3	Bolts	Key	Flange ISO5211
200	80	40	20	150	57	43	100	140	175	4xM6	A-12x8 - 80	F14
250	80	40	20	150	56	43	100	140	175	4xM16	A-12x8 - 80	F14
300	82	50	20	166	62	53.5	130	165	210	4xM20	A-14x9 - 90	F16
350	82	50	20	175	62	53.5	130	165	210	4xM20	A-14x9 - 80	F16
400	105	70	25	222	80	74.5	200	254	300	8xM16	A-20x12 - 100	F25
450	105	70	25	222	80	74.5	200	254	300	8xM16	A-20x12 - 100	F25
500*	100	75	34	262	88	84.2	230	298	350	8xM20	A-20x12 - 100	F30
600*	100	90	38	283	88	100.6	230	298	350	8xM20	A-25x14 - 100	F30
700*	121	98	38	311	88	110.2	230	298	350	8xM20	A-28x16 - 120	F30
800*	130	98	48	366	111	110.2	260	356	415	8xM30	A-28x16 - 130	F35
900*	140	120	50	426	138	133.8	260	356	415	8xM30	A-32x18 - 140	F35
Toler.		-0.1										

*DN 500–900 coupling dimensions are for PN 25 & PN40 valves.

VEXVE

VEXVE ARMATURY GROUP

Vexve Oy

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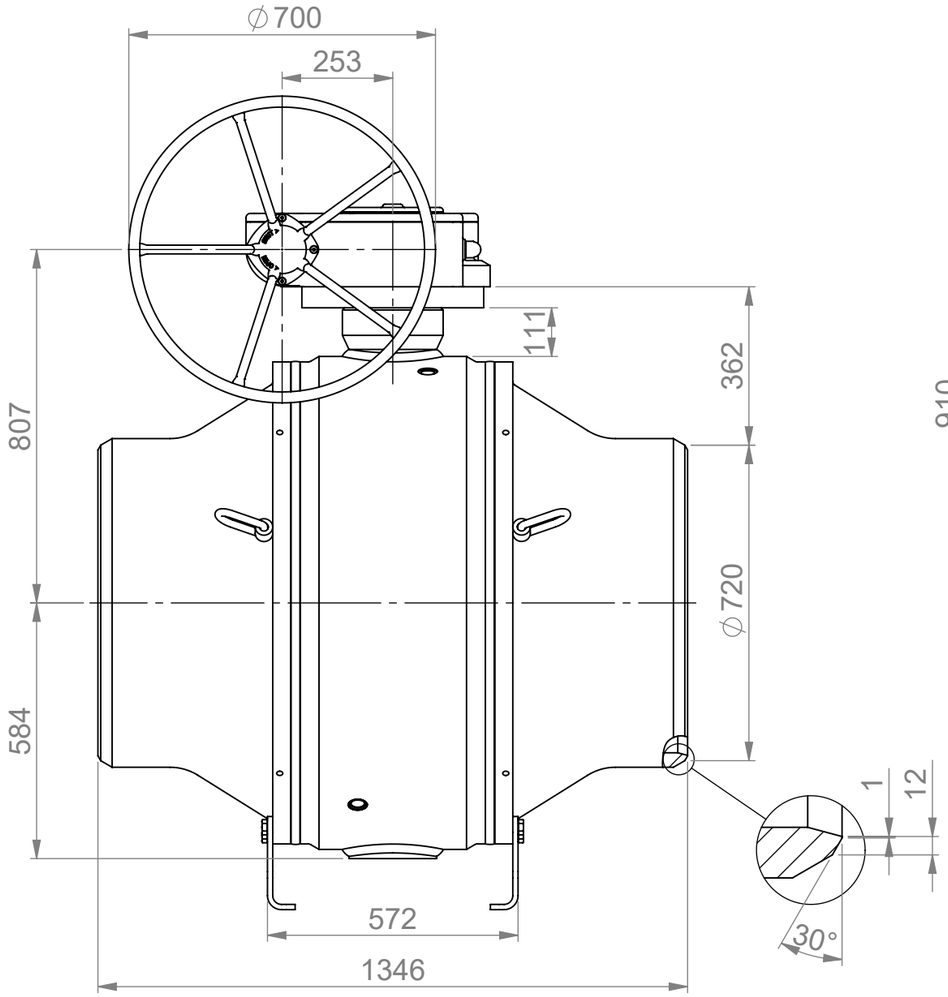
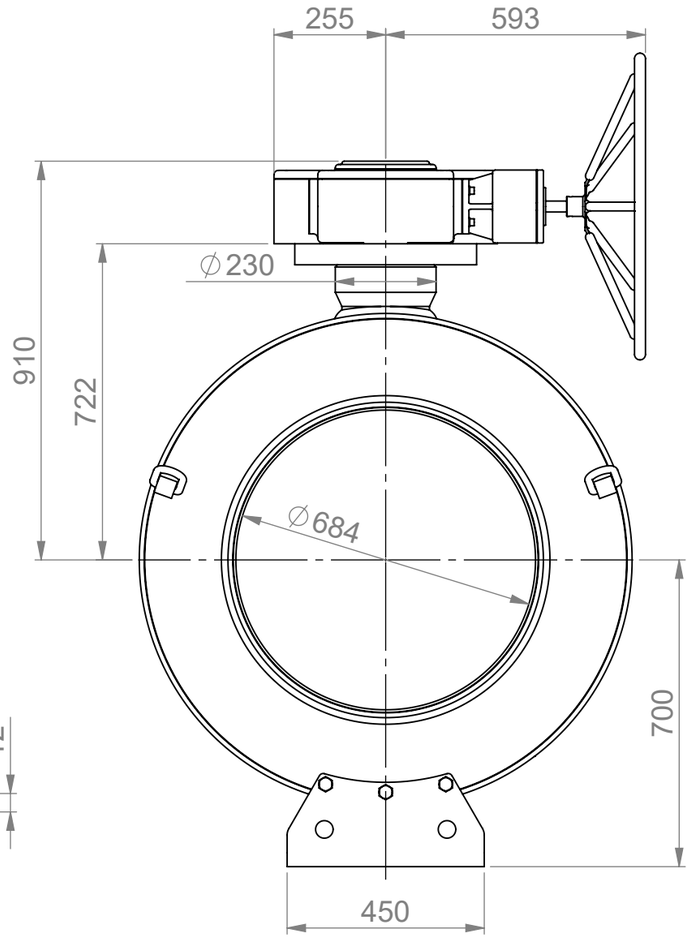
38200 Sastamala
Finland

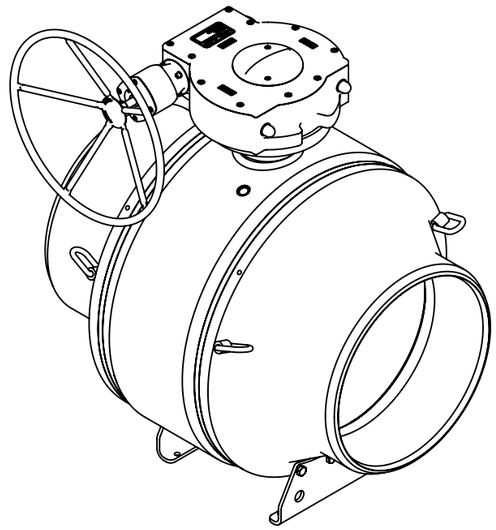
Riihenkalliontie 10
23800 Laitila
Finland

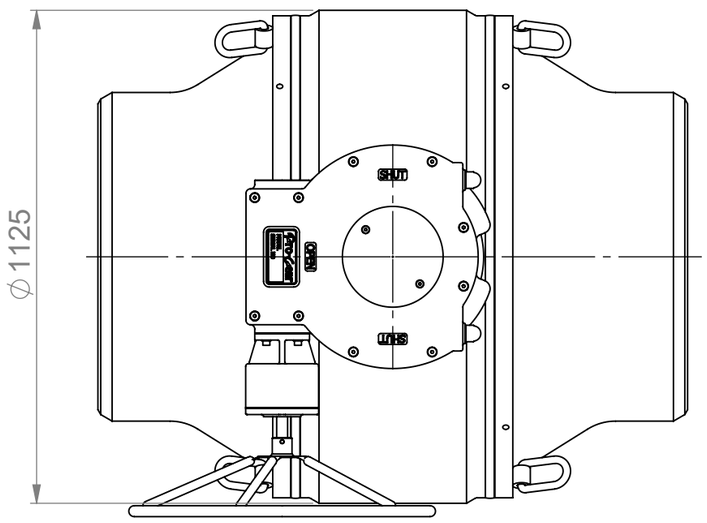
Tel. +358 10 734 0800
vexve.customer@vexve.com

www.vexve.com









Main dimension drawing for customer use	Description: Gas ball valve DN700 W/W, weld ends 720mm Full bore, Trunnion mounted, with manual gear: Pro-Gear Q-24000 S (F35 - Ø98) W-700
Weight: kg	
Drawn by: RLu 26.04.2024	Drawing number: 304701-GS-TR-C
Approved by: JLä 26.04.2024	Product number: 304701/GS/TR

 Units in mm

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

ÉMI-TÜV

No. CA-2099402-3

Product tests on sample called „P 513 Alkyd Primer/Alkyd Base Satin, RAL 8012"

Client:
Policolor SA
in Bucharest, 98th Timisoara Blv, 6th district
Romania.

Based upon No. R-2099402, we hereby attest that the sample

P 513 Alkyd Primer 80 µm /Alkyd Base Satin 80 µm, paint system 160 µm thickness

distributed by Policolor SA., according to our tests

COMPLY WITH

the following classification according to the regarding standards:

Corrosion category: C3 Medium (M)
/ Urban and industrial atmospheres, moderate sulphur dioxide pollution; coastal area with low salinity. If the cleanliness of the steel surface at least Sa2 ½ /

Applied legislation, regulations, standards:
EN ISO 12944-1:2018, EN ISO 12944-6:2018 Corrosion protection of steel structures by protective paint systems, ISO 8501-1

Valid until: 08/08/2026 or the change of product, production technology and concerning regulation.

Budapest, 08/08/2023

Zsolt Szépvölgyi
Head of Department
ÉMI-TÜV SÜD Kft.
KERMI Departmen

ÉMI-TÜV SÜD Kft., KERMI Department,
H-2000, Szentendre, Dózsa György str. 26..Telephone: +36 26 501

TÜV®

ДОБРОВОЛЬНАЯ СЕРТИФИКАЦИЯ ПРОДУКЦИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.НА39.Н00394/22

Срок действия с 06.09.2022 по 05.09.2025

№ 0087237

ОРГАН ПО СЕРТИФИКАЦИИ рег.№ RA.RU.10НА39, Орган по сертификации Общества с ограниченной ответственностью "Лидер", 117630, РОССИЯ, город Москва, шоссе Старокалужское, дом 62, этаж 2, помещение VIII, комнаты 12, 13, Тел: +7 4996820193, E-mail: lider.sertification@gmail.com

ПРОДУКЦИЯ Трубы стальные диаметром 219-1420 мм
Серийный выпуск

код ОК 034-2014 (КПЕС 2008)

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ
ГОСТ Р 55934-2013 "Трубы стальные для повторного применения. Правила приемки и маркировки", ГОСТ 10706-76 «Трубы стальные электросварные прямошовные. Технические требования», ГОСТ 10704-91 «Трубы стальные электросварные прямошовные. Сортамет», ГОСТ 20295-85 «Трубы стальные сварные для магистральных газопроводов. Технические условия»

код ТН ВЭД 7305 19 0000

ИЗГОТОВИТЕЛЬ ООО «Этол»
Место нахождения: 400075, Россия, Волгоградская область город Волгоград, проезд Мирный, дом 2, ИНН 3447016790

СЕРТИФИКАТ ВЫДАН ООО «Этол»
Место нахождения: 400075, Россия, Волгоградская область город Волгоград, проезд Мирный, дом 2
Телефон: +78442996753 Адрес электронной почты: etol_34@mail.ru

НА ОСНОВАНИИ Протокола испытаний № 2022-PTI-09/0400 от 05.09.2022 года, выданного Испытательной лабораторией Общества с ограниченной ответственностью «АВАЛОН», аттестат аккредитации РОСС RU. 32438.04 РСТ0.005

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема сертификации: 3.

«ЛИДЕР» М.П.

Руководитель органа подпись Р.С. Флеров (инициалы, фамилия)

Эксперт подпись Ю.С. Судакова (инициалы, фамилия)

Сертификат не применяется при обязательной сертификации

RUSSIAN FEDERATION

№ 0110652

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ «ПРОМТЕХСТАНДАРТ»

№РОСС RU.32001.04ИБФ1 в едином реестре зарегистрированных систем добровольной сертификации
ФЕДЕРАЛЬНОЕ АГЕНТСТВО ПО ТЕХНИЧЕСКОМУ РЕГУЛИРОВАНИЮ И МЕТРОЛОГИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

Регистрационный номер РОСС RU.32001.04ИБФ1.ОСП20.17829

Срок действия с 17.03.2022 по 16.03.2025

ОРГАН ПО СЕРТИФИКАЦИИ № РОСС RU.32001.04ИБФ1.ОСП20, ООО «Научно-исследовательский институт проектирования и измерений», 141730, Московская область, город Лобня, улица Борисова, дом 14, корпус 2, помещение 006, офис 1

ПРОДУКЦИЯ Детали трубопровода бесшовные приварные из марок сталей: 3,20,09Г2С, 12Х18Н10Т, 10Х17Н13М2Т, 15Х5М, 13ХФА, AISI 304,316,321: отводы, тройники, переходы, заглушки. Серийный выпуск.

код ОК 24.20.40.000

код ТН ВЭД

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ ГОСТ 17375-2001, ГОСТ 30753-2001, ГОСТ 17376-2001, ГОСТ 17378-2001, ГОСТ 17379-2001, ГОСТ 17380-2001

ИЗГОТОВИТЕЛЬ Общество с ограниченной ответственностью «ТРУБОПРОВОДНЫЙ МИР», Адрес: Россия, 125362, г. Москва, ул. Свободы, дом 35, строение 42, этаж 1, пом. II, комн. 46, ИНН: 7733347239, ОГРН: 1197746641652, телефон: +7 (495) 143-00-93, электронная почта: sales@magsklad.ru

СЕРТИФИКАТ ВЫДАН Общество с ограниченной ответственностью «МОСАРМСНАБ», Адрес: Россия, 125363, г. Москва, ул. Новопоселковая, д. 6, корпус 217, помещение 1, комната 11, ИНН: 7734578616, ОГРН: 1087746211530, телефон: +7 (495) 143-00-93, электронная почта: mms@magsklad.ru

НА ОСНОВАНИИ Протокол испытаний №15883-НИИПИ/22 от 16.03.2022 Испытательная лаборатория ООО «НИИ ПИ» аттестат аккредитации №РОСС RU.32001.04ИБФ1.ИЛ38 от 2021-10-28

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ Схема сертификации: 1с (ГОСТ Р 53603-2009. Оценка соответствия. Схемы сертификации продукции в Российской Федерации).

Проверка подлинности сертификата соответствия

ООО «НИИ ПИ»

Руководитель органа _____ (подпись) Н.П. Звягин (инициалы, фамилия)

Эксперт _____ (подпись) А.Г. Тимофеева (инициалы, фамилия)

Настоящий сертификат соответствия обязывает организацию поддерживать выпуск (реализацию) продукции в соответствие с вышеуказанным стандартом, что будет находиться под контролем органа по сертификации системы добровольной сертификации «ПромТехСтандарт» и подтверждаться при прохождении ежегодного инспекционного контроля

АО «ОПЦИОН», Москва, 2021 г., «Б», ТЗ № 1130

ТОВ «ТЕСКО»

Орган з оцінки відповідності (ООВ) № UA.TR.006.

Оцінка відповідності продукції вимогам технічних регламентів України

СЕРТИФІКАТ

відповідності на основі цілковитого забезпечення якості
Модуль Н

(Повідомлення згідно п. 127 постанови КМУ №27 від 16.01.2019р.)

Зареєстрований у Реєстрі ООВ «ТЕСКО» 20.11.2023 р., № UA.TR.006.H.104801-23, дійсний до 19.11.2026 р.

№UA.TR.006

цим сертифікатом посвідчується, що

СИСТЕМА УПРАВЛІННЯ ЯКІСТЮ
стосовно забезпечення якості проектування, виробництва, контролю та випробувань арматури трубопровідної промислової та деталей трубопроводів (згідно додатку)
(код ДКПП 28.14.1, УКТЗЕД 8481), які випускаються серійно

ТОВ «Олбрізсервіс» 02093, м. Київ, вул. Юрія Литвинського, 59
Заводи: - ТОВ «Олбрізсервіс» 1.м. Обухів, м-н Яблуневий, 31, Київська обл.,
- ТОВ «Олбрізсервіс» Смт. Гусятин, Тернопільська область, вул. Спартака, 1

згідно з чинними в Україні нормативними документами

відповідає вимогам:

Модуля Н

Технічного регламенту обладнання, що працює під тиском

(постанова Кабінету Міністрів України №27 від 16.01.2019р.)

Контроль відповідності сертифікованої системи управління якістю вимогам зазначеного технічного регламенту здійснюється шляхом інспекційного нагляду, періодичність і процедури якого регламентується програмою.

СЕРТИФІКАТ ВИДАНИЙ ***Органом з оцінки відповідності ТОВ «ТЕСКО», (ООВ „ТЕСКО"), акредитований Національним агентством з акредитації України на сертифікацію систем менеджменту відповідно до ДСТУ EN ISO/IEC 17021-1, атестат акредитації № 8О067 дійсний до 31.10.2027***

Юр. адреса: 03151 м. Київ, вул. Молодогвардійська, 11б, Україна,
Місцезнаходження ООВ «ТЕСКО»: 03142, м. Київ, вул. В. Стуса, 35/37 (оф. 205),
Ідентифікаційний номер призначеного ООВ № UA.TR.006,
tel./fax +38-(044) – 495 3380, tel. +38-(044) – 2211 895,
e-mail: info@tecko.com.ua, www.tecko.com.ua.

на підставі (файли технічної документації № 006.1-1048):
- Результатів перевірки та оцінки системи управління якістю – Звіт № 006.1-1048 від 17.11.2023 р.

8О067
Сертифікація систем менеджменту

UA.TR.006

Керівник ООВ „ТЕСКО" В.В. Папазов

Чинність сертифікату можна перевірити в базі даних органу з оцінки відповідності ТОВ «ТЕСКО», що розміщена на веб-сайті: http://www.tecko.com.ua, та за тел. +38-(044) – 495 3380

ТОВ «ТЕСКО»
Орган з оцінки відповідності (ООВ) № UA.TR.006.

Оцінка відповідності продукції вимогам технічних регламентів України

ДОДАТОК ДО СЕРТИФІКАТУ

відповідності на основі цілковитого забезпечення якості № UA.TR.006.H.104801-23 від 20.11.2023 р., (Модуль H)

Проведені аудити

ООВ «ТЕСКО» провів оцінку системи якості виробництва, з метою підтвердження застосування відповідних вимог до вище вказаної продукції. Оцінку було проведено на місці виробництва, як описано у звіті №006.1-1048 від 17.11.2023р.

Положення та умови

Сертифікат є суб'єктом наступних положень та умов:

- Сертифікат є дійсним лише для вказаної вище продукції та/або виробництв;
- Виробник повинен виконувати всі зобов'язання затвердженої системи якості та підтримувати її так, щоб вона залишалась відповідною вимогам та ефективною;
- Виробник повинен повідомляти призначений орган про всі зміни в системі управління якості, для того, щоб ООВ «ТЕСКО» оцінив зміни і вирішив, чи сертифікат залишається дійсним;
- Один раз на рік будуть проводитись періодичні аудити з метою перевірки дотримання і використання виробником системи управління якості. ООВ «ТЕСКО» залишає за собою право на проведення перевірок у разі виникнення обґрунтованих рекламацій.

Сертифікат може бути визнано недійсним у випадку:

- Змін в системі якості, що стосуються продукції, без узгодження з ООВ «ТЕСКО»;
- Періодичні аудити не було проведено в установлені програмою технічного нагляду терміни.

Декларація відповідності та маркування продукції

Якщо виробник дотримується вказаних вище положень та умов, він має право скласти Декларацію про Відповідність та маркувати продукцію національним знаком відповідності згідно до постанови КМУ №1184 від 30.12.2015 р., з ідентифікаційним номером ООВ «ТЕСКО» (**006**).

Керівник ООВ „ТЕСКО" В. В. Папазов

Україна * «ТЕСКО» * Ідентифікаційний код 31564770

ТОВ «ТЕСКО»

Орган з оцінки відповідності (ООВ) № UA.TR.006.

Оцінка відповідності продукції вимогам технічних регламентів України

ДОДАТОК ДО СЕРТИФІКАТУ

відповідності на основі цілковитого забезпечення якості
№ UA.TR.006.H.104801-23 від 20.11.2023 р.,
(Модуль H)

№	Продукція	Параметри
1	Крани сталеві кульові, фланцеві, приварні, різьбові та їх модифікації (за ТУ У 29.1-23392043-001)	DN 25-400 PN16, 25, 40
2	Деталі трубопроводів (коліна, переходи) (за ТУ У 27.2-23392043-003)	DN 25-500 PN63
3	Фланці сталеві	DN 25-400 PN16, 25, 40

Всього 3 позиції

Керівник ООВ „ТЕСКО" **В.В. Папазов**

Україна м.Київ Товариство з обмеженою відповідальністю «ТЕСКО» Ідентифікаційний код 31564770

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