

Important: This instruction manual contains important information on the safety measures to be adopted during installation and start-up. It is therefore essential that both the installer and the user read the instructions before starting assembly and start-up.

General safety instructions

The following symbols indicate the possible dangers that may result from not paying heed to the corresponding instructions:

Not paying heed to these instructions carries the risk of harm to the valve or persons.

It is necessary that the manufacturer's instructions are complied with.

Manufacturer's declaration

Our valves have been subjected to pressure/temperature tests which can guarantee a long life for the product, as required by the norms of this product. Cepex guarantees its ball valves, always provided that the product has not been altered or manipulated; it should be installed by qualified technicians.

Cepex ball valves are not suitable for gas conduction.

Fluids with abrasive contents could affect the functioning of the valve.

For the use of fluids which contain chemical products, the table in the technical manual referring to the behaviour of the materials of the valve should be consulted.

Avoid functioning under cavitation.

Take precautions in installations needing a pressure reducing/sustaining valve, as little peaks of pressure are usually produced that are harmful to the correct maintenance of the product.

The maximum useful life of the valve is 25 years.

Installation of the valve

The valves should be transported in their original packaging. They should be protected from harmful external factors: light, dust, heat, humidity or UV radiation. In particular, the connections must not be damaged by mechanical or thermal factors.

The valve should be stored with the handle in the open position.

Install the valve pointing in the direction of flow marked on the body of the valve – downstream.

If the valve is dismantled, it is essential that there is no pressure in the installation, as this could cause injury to persons and damage the valve.

The valve is supplied assembled from the factory and the following steps should be followed for its installation:

1. Check that the diameter of the tube corresponds to the inside of the end connector (if it is a solvent socket).
2. Adjust the valve to the installation leaving the union nut (3) Fig.01 on the tube before gluing the end connector (5) Fig.02.

3. Leave an exact distance between end connectors (see Fig.03), so that the body of the valve can be easily introduced, preventing it from being strained by both ends of the tubing.
4. Solvent sockets (PVC-U / PVC-C) are made by cleaning the areas to be joined with a suitable solvent and then adding adhesive. It is not recommended that pressure is applied until 24 hours after gluing.

In the solvent operation you have to separate the body of the end connectors, just to avoid the adhesive damages the valve internal parts.

5. Teflon tape is placed in the male threads of the threaded unions: "it is very important that an excessive amount is not used as when it is put together it could cause breakage of the female housing".

6. The soldered unions (PE / PP-H) are made taking into account the instructions of the soldering tool used.

7. The dimensions of installation, end connectors and union nuts have been modified according to the previous industrial series of ball valves.

This range of valves allows the valve to be fixed to a base using threaded inserts at the bottom. When using the inserts, take note of the dimensions of the screws (Chart01).

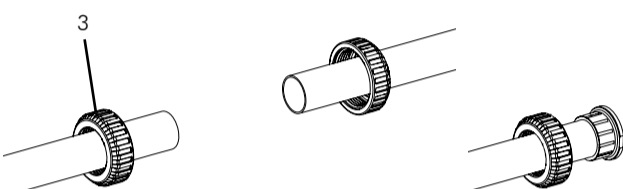


Fig.01

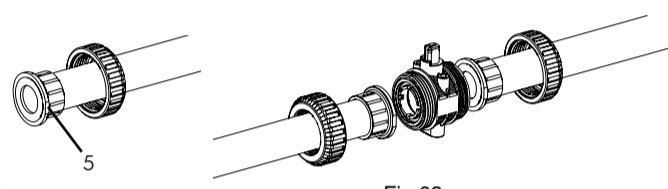


Fig.02

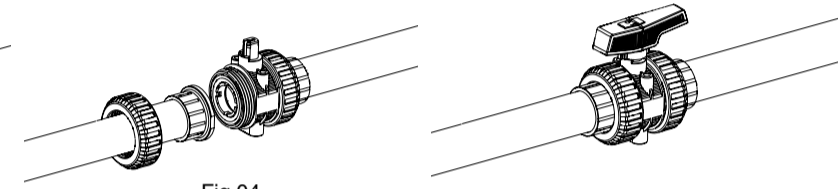


Fig.03

Adjustment and maintenance of the valve

If the valve is installed correctly pointing in the direction of flow marked on the body, it is possible to carry out the maintenance **downstream** without problems. By simply closing the valve this acts as a plug. If on the contrary it is **upstream** where maintenance is required, it is essential that there is no pressure in the circuit when dismantling the union nut and end connector.

The operations described next are always carried out without fluid in the line.

The valve is adjusted in the factory for correct and prolonged functioning. Nevertheless, it is possible to readjust the tightening of the sealing gasket on the ball when the conditions of use so require it. This operation is carried out with the help of the handle.

To use this, remove the upper plug with the help of a screwdriver acting as a lever. Dismantle the screw and remove the handle (4), pulling upwards Fig.05.

Dismantle the valve's union nuts (3) and remove them from their housing. Put the handle into the slot that is found in the seal carriers for this purpose (12) and turn the key anti-clockwise to tighten the O-ring and clockwise to loosen it Fig.06.

If any of the components of the valve wear out, you can replace them by dismantling the body of the valve. To do so, proceed in the same way with the adjustment but turn it clockwise until the seal carriers (12) are free Fig.07. When you have done this you may substitute any of the body's O-rings (8), (9), (6) Fig.08. Turn the shaft until the ball is in a closed position; remove the ball (2) and remove the ball seat (9) Fig.09.

To replace the shaft, it has to be forced as shown in Fig.10. Once the shaft has been removed (1) the O-rings can be replaced (7) Fig.11.

Remember that excessive force on the seal carriers can affect the action which can damage the actual functioning of the valve.

Assembly can be done by reversing the process but always taking the precaution of lubricating the O-rings with Teflon oil. Do not use grease or mineral oils that attack the material of the O-rings.

When reassembling the shaft, check that its slot is aligned/oriented with the housings in the neck of the body (see Fig.10).

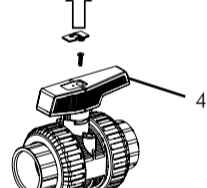


Fig.05

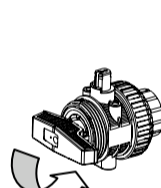


Fig.06

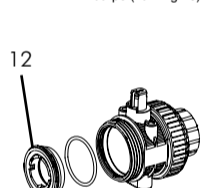


Fig.07

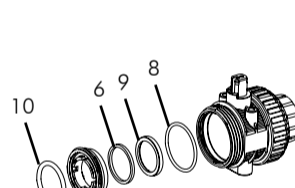


Fig.08

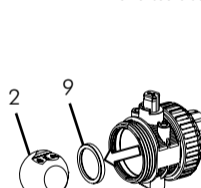


Fig.09

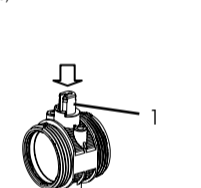


Fig.10

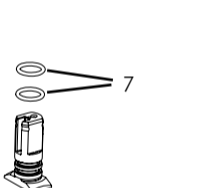


Fig.11

Threaded seal carriers contain a ring or ball seat (6) whose position during assembly is very important. Proceed as shown in the drawing. The inclined plane of piece 6 should be assembled so that it makes contact with the ball.

Le porte-joint à visser porte un anneau ou joint du siège de boisseau (6) dont la position de montage est très importante. Procéder tel qu'il est indiqué sur l'illustration. Le plan incliné de la pièce 6 doit rester monté de façon qu'elle entre en contact avec le boisseau.

El portajuntas roscado lleva alojado un anillo o junta asiento bola (6) cuya posición de montaje es muy importante. Proceder tal y como está indicado en el dibujo. El plano inclinado de la pieza 6 debe quedar montado de forma que entre en contacto con la bola.

The valve can be motorised with either pneumatic or electrical action using an additional accessories kit.

L'ensemble de la vanne peut être motorisé, aussi bien avec un actionneur pneumatique qu'électrique en utilisant un kit supplémentaire d'accessoires.

El conjunto de la válvula puede ser motorizado, tanto con actuador neumático como eléctrico utilizando un kit de accesorios adicional.

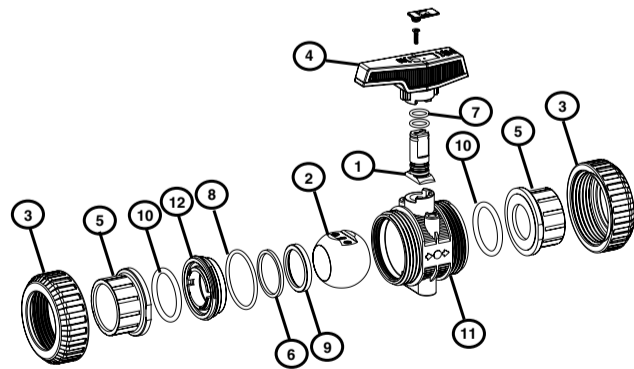


FIG.	Parts	Pièces	Despiece	Parti	Bautelle	Peças	Material
1	Shaft	Axe	Eje	Perno	Zapfen	Eixo	PVC-U / PVC-C / PP-H
2	Ball	Boisseau	Bola	Sfera	Kugel	Esfere	PVC-U / PVC-C / PP-H
3	Union nut	Ecrou	Tuerca	Ghiera	Überwurfmutter	Porca	PVC-U / PVC-C / PP-H
4	Handle	Poignée	Conjunto maneta	Maniglia	Handgriff	Manípulo	PP + TPE
5	End connector	Collet	Manguito enlace	Manicotto	Anschlussmuffe	União	PVC-U / PVC-C / PP-H
6	Dampener seal	Joint siège	Junta amortiguación	Guarnizione	Hinterlagendichtung	Junta	Food grade EPDM / FPM
7	Shaft o-ring	Joint de l'axe	Junta eje	O-ring perno	Zapfendichtung	Junta eixo	Food grade EPDM / FPM
8	Body o-ring	Junta du corps	Junta cuerpo	O-ring corpo	Gehäusedichtring	Junta corpo	Food grade EPDM / FPM
9	Ball seat	Garniture du boisseau	Asiento bola	Guarnizione	Kugeldichtung	Assentamento	PTFE
10	End connector o-ring	Joint du collet	Junta manguito	O-ring manicotto	Anschlussdichtung	Junta colarinho	Food grade EPDM / FPM
11	Body	Corps	Cuerpo	Corpo	Gehäuse	Corpo	PVC-U / PVC-C / PP-H
12	Seal-carrier	Porte-joint	Portajuntas	Porta o-ring	Dichtungsträger	Porta-juntas	PVC-U / PVC-C / PP-H
13	Mounting clamp	Bride de fixation	Brida fijación	Torretta di sostegno	Zwischenstück	Flange fixação	PP
14	Coupling bush	Douille de raccordement	Casquillo unión	Pezzo di connessione	Kupplungsstück	Casquinho	Stainless steel
15	Throttle plate	Sélecteur	Conjunto divisor	Gruppo divisore	Rasterplatte	Conjunto divisor	POM
16	Lever-lock	Lever	Gatillo maneta	Leva di blocco	Stellhebel	Gatillo manípulo	PP-GF

Chart01

Diameter	Bolt	Insertion depth
D20	M4	8 mm
D25-D32-D40	M5	9 mm
D50-D63-D75-D90	M8	12 mm

FLUIDRA INDUSTRY

DECLARACIÓN DE CONFORMIDAD CE
EC Declaration of Conformity

El fabricante / the manufacturer: **CEPEX S.A.U.**
Avinguda Ramon Caurans 40 (Parcela 6)
Polígon Industrial Congost
08530 LA GARRIGA

Declaro que nuevas válvulas / declares that our valves:

Tipo/type: **Válvula de Bola manuales / Manual Ball valves**

Modelo/Model: UP.73IN.SF6, UP.73IN.FT6, UP.69IN.FLG6, UP.73IN.SF7, UP.73IN.FT7, UP.69IN.FLG7, UP.73IN.MP.SF6, UP.73IN.MP.FT6, UP.69IN.MP.FLG6, UP.73IN.MP.SF7, UP.73IN.MP.FT7, UP.69IN.MP.FLG7, CP.73IN.SF6, CP.73IN.FT6, CP.73IN.SF7, CP.73IN.MP.FT7, CP.73IN.MP.SF6, CP.73IN.MP.FT6, CP.73IN.MP.SF7, CP.73IN.MP.FT7, PPH.73IN.FT6, PPH.73IN.FT6F6, PPH.73IN.BW6, PPH.73IN.BWF6, PPH.73IN.FT7, PPH.73IN.FT7F7, PPH.73IN.BW7, PPH.73IN.BWF7

cumple con los requisitos establecidos por la UNIÓN EUROPEA para EQUIPOS A PRESIÓN según Directiva 97/23/CE (PED) de acuerdo con las normas armonizadas:

- EN ISO 16135 VALVULAS INDUSTRIALES - Válvulas de bola de materiales termoplásticos

meets the requirements established by the European Union for PRESSURE EQUIPMENT according to Directive 97/23/EC (PED) in accordance with the harmonized standards:

- EN ISO 16135 INDUSTRIAL VALVES - Ball valves of thermoplastics material.

La marca CE sobre la válvula hace referencia a esta conformidad. Según la directiva 97/23/CE solamente las válvulas mayores a DN25 pueden ir marcadas con CE.

The CE marking on the valve refers to this conformity. According to Directive 97/23/EC only valves larger than DN25 can be marked with CE.

Yasmin Fernández
Director Calidad
La Garriga, Enero 2013

