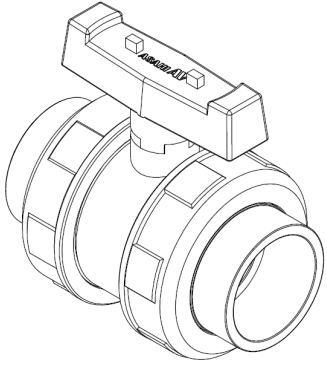


Instruction manual

GP-V General Purpose Ball Valve



GP-V

General Purpose Ball Valve



1. Intended Use

The ball valve BX series is intended exclusively for shutting off and conducting allowed media within the allowable pressure and temperature range in the piping systems into which it is installed. The maximum service life is 25 years.

2. Regarding this document

2.1 Abbreviations

PN Nominal pressure
DN Nominal diameter

2.2 Safety Instructions and Warnings

	WARNING	Possible danger! Non-observance may result in serious injuries or death.
	CAUTION	Non-observance may result in damage to the valve or material losses.
	Prohibited	Action that should not be taken.
	Mandatory	Mandatory actions that must be

3. Safety and responsibility

- Ball valve BX may only be used for its intended purpose (see **1. Intended Use**).
- Always observe product specifications, precautions and instructions.
- Never use a damaged or defective product.
- Make sure that the piping system has been installed professionally and serviced regularly.
- Products and equipment shall be installed only by persons who have the required training, knowledge or experience.
- Regularly train personnel in all relevant questions regarding safety at work and environmental protection.

4. Transport and storage

- Transport and/or store the product in its unopened original packaging.
- Store the product in a cool and dry place, away from direct sunlight. Protect the product from dust and dirt, thermal and UV radiations.
- Make sure that the product has not been damaged neither by mechanical nor thermal influences.

5. Installation

- Remove the ball valve from its original packaging immediately before installation.
- Make sure that pressure rating, type of connection and dimensions correspond to the operating conditions.

CAUTION

Compare the installation dimensions and specifications in the technical documentation with those of the components at hand.

The use of components and installation dimensions other than those prescribed can cause damage to the piping system.

WARNING

Products and equipment shall be installed only by persons who have the required training, knowledge or experience.

- Make a function test: close the ball valve by hand and open it again. Ball valves which do not function properly must not be installed.
- Always build the ball valve into the system in the opened position.
- Make sure that the ball valve is aligned with the pipe so that the valve is kept free of mechanical stress.
- Unscrew the union ends (components n.1 and 2) from the valve.
- Install the valve, see figures a - d.
- Adhere specific jointing instructions for solvent welding and threaded connection.

CAUTION

Solvent welding connection: while cementing sockets to the pipe ends, keep sockets separately from valve body.

Connect the valve body only after the solvent cement is dry.

This will prevent the solvent cement from damaging body and working parts.

CAUTION

Screw the nuts only handtight, without the use of additional tools.

The use of additional tools can damage nuts or their thread.

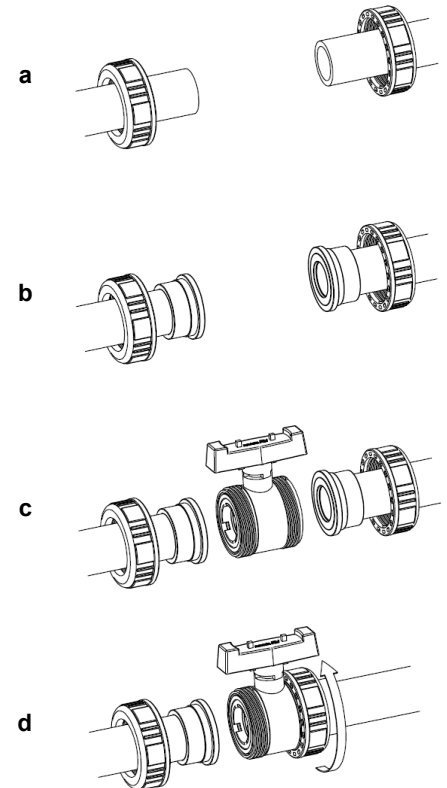
CAUTION

Implement suitable fixed point downstream or upstream the valve. Stresses on the valve due to thermal expansion or operations will be absorbed instead of being transferred to the piping system.

CAUTION

The test pressure of an assembly may not exceed $1.1 \times PN$. The component with the lowest PN determines the maximum allowed test pressure in the performance section.

- Check that all valves are in the required position (open or closed).
- Fill the piping system and deaerate carefully.
- Check the valves and connectors for leak-tightness.
- After the leak test: remove the test medium.



Instruction manual

GP-V General Purpose Ball Valve (continued)

Torque force

DN	15	20	25	32	40	50	80	100
Nm	1.5	2	3	5	7	10	24	30

6. Dismounting

WARNING
 Completely relieve pressure in pipes before dismounting.
 If the pressure is not relieved completely, the medium can evade uncontrolled. Depending on the type of medium, risk of injury may exist.

WARNING
 Completely empty and rinse the pipe before dismounting the valve.
 Provide for safe collection of the medium if it is harmful, flammable or explosive (e.g. connection of a container).

- Completely relieve pressure in pipes.
- Completely empty and rinse pipe. Pay attention to potential residues.
- Remove the valve from pipe by unscrewing the nuts.
- Partially open the dismantled valve (45° position) and let it drain in vertical position.
- To disassemble the valve, see figures e - h.

7. Maintenance

Following measures should be noted:

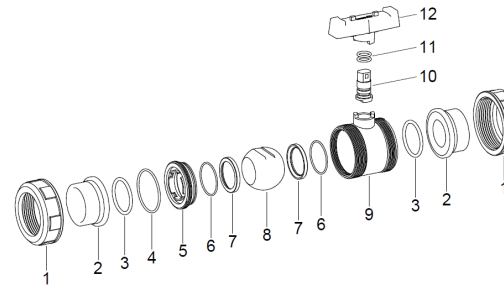
- Periodic inspection to make sure that no medium is leaking.
- For ball valves which are kept permanently in the same position: 1 or 2 times per year, make a function test to check serviceability.
- For frequent control operations (e.g. actuated valves), or due to chemical attack on the sealing material: check if may become necessary to replace parts inside the valve. For this purpose, the valve must be removed from the piping system (see **6.Dismounting**). See table of components for spare parts available.

CAUTION

- Only use original spare parts, specifically designed for this valve.
- Never use petroleum-based greases or Vaseline (Petrolatum).
- All the seals must be lubricated with a silicon-based grease.
- Store the seals in their original packaging, in a cool, dry and dark place. Before mounting, the seals should be checked for damages from aging, (fissures and hardening).
- Do not use defective spare parts.

- To assemble the components and replace seals, see figures i - r.
- Tight the nuts (2) so that the ball moves snugly.

Components



n.	Component	Material
1	Nut*	PVC-U
2	Socket*	PVC-U
3	Socket O-ring*	EPDM/FKM
4	Body O-ring*	EPDM/FKM
5	Ball seat carrier	PVC-U
6	Ball seat O-ring*	EPDM/FKM
7	Ball seat*	PTFE
8	Ball	PVC-U
9	Body	PVC-U
10	Stem	PVC-U
11	Stem O-ring*	EPDM/FKM
12	Handle*	PVC-U

* spare parts available

Declaration of conformity

The manufacturer declares, in accordance with the harmonized ISO 16135:2001 standard, that the ball valves are pressure-bearing components in the sense of the Directive 2014/68/UE concerning pressure equipment and that they meet the requirements pertaining to valves as stated in this directive, (only valves larger than DN 25).

09/03/2020

