



MEETING STANDARDS IS OUR STANDARD
INSTALLATION, MAINTENANCE AND OPERATING INSTRUCTIONS
Stainless Steel BALL VALVES

IMO030.04

IMPORTANT: read this entire document carefully before installation or servicing and save it for future reference

INSTALLATION Most **RuB** valves may be installed for flow in either direction; in case of special unidirectional valves, flow direction is shown by an arrow. **RuB** valves may also be used for throttling (in half open position).

Under certain conditions, for example severe throttling service, use with particularly viscous or abrasive fluids, high differential pressure, use in environments with chlorine, amine, ammonia and sulphur dioxide, the valve may be damaged without any liability attributable to **RuB**.

Use standard piping practices when installing valves with threaded ends. Make sure pipes are properly aligned before valve is installed. When tightening the valve-to-pipe joint the valve should be wrenched from the flats at the end being worked. (Holding the opposite end of the valve will put the valve body in torsion and, for two piece bodies, may damage the body/cap joint). Do not over-tighten connections. Connections need only be snug and leak free. Over-tightening promotes thread failure and may damage the valve. After installation the whole system should be flushed to avoid damage from solids left in the pipe. It is highly recommended that the whole installation be tested before being released for use.

For valves S.130 - S.132 with an adjustable packing gland, if the handle is removed tighten the gland nut finger tight plus 1/6 of a turn. Then install the handle and tighten the handle nut until the handle is fully seated on the stem. Do not operate the valve without the handle.

For valves S.131 with a packing after installation tighten the handle nut in order to ensure tightness. Do not operate the valve without the handle.

Before releasing the system for use, this shall be tested and absence of leaks ascertained.

All packaging materials and, when replaced, the valve itself, must be disposed of in compliance with local regulations.

WARNING For your safety, it is important that the following precautions be taken prior to removal of the valve from the line or before any disassembly:

1. Wear any protective clothing and equipment normally required when working with the fluid involved.
2. Depressurize the line and cycle the valve as follows:
 - a) Place the valve in the open position and drain the line;
 - b) Cycle the valve to relieve residual pressure in the body cavity before removal from the line;
 - c) After removal and before any disassembly, cycle the valve again, leave it in the half-open position, and collect any residual liquid for suitable disposal.
3. When removing piping from the valve, place a wrench on the body or the body-cap nearest the end being worked. Wrenching the valve from the opposite end may cause unintentional disassembly of the body-cap joint.

WARNING: if a standard ball valve is closed while full of fluid, and the fluid later expands due to temperature variations, the valve may be severely damaged and the fluid may leak into the environment.

MAINTENANCE Periodically observe the valve to assure proper performance. More frequent observations are recommended under extreme operating conditions, i.e. conditions approaching the temperature and/or pressure limits indicated in the specifications for the product, or in the event of

valves subject to vibrations, bending and/or torsion. A combination of two or more factors must be considered as extreme operating conditions thus inspections must be increased.

For valves S.130 - S.132 with an adjustable packing gland, routine maintenance consists of tightening the gland as described above (see "Installation"). For valves S.131 with a packing routine maintenance consists of tightening the handle nut as described above (see "Installation").

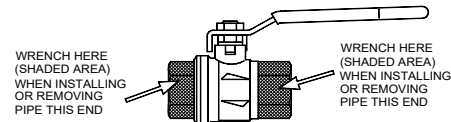
Valves with O-ring stem sealing do not require this maintenance.

For hard water operate valve every month. For very hard water operate valve every 2 weeks.

OPERATING INSTRUCTIONS To close the valve: rotate lever clockwise 90°; to open it: rotate lever 90° counter-clockwise. Quick actuation may cause water hammer and consequent damage to the system. NOTE: stem flats show the position of the ball (when flats are parallel to pipe, valve is open, when perpendicular, it is closed). **RuB** valves can be used for throttling (i.e. operated in partially open position) but in severe throttling service the valve may be damaged. Consult with **RuB** for such applications. If you need any further information on applications, special configurations, approvals, etc. please consult with **RuB** official catalogue, contact **RuB**, or visit our Web site (details below).

NOTE This product has been inspected according to **RuB** quality procedures. If you ascertain that this valve contains a defect in material and/or due to workmanship, please return it to your Seller with a copy of the original box label and the details of your claim (in the event of failure during operation, you should forward details concerning the product position in the system and an analysis of the media flowing through the product. In such cases it is moreover essential to record the installation status in the system through detailed pictures before removing the product). In case of improper application, installation, or maintenance, no claim is accepted. Replacement or modification of parts/components of the product, causes the immediate withdrawal of **RuB** liability, warranty and certification.

NOTE: DRAWING SHOWS A TYPICAL TWO-PIECE BALL VALVE



Markings on valve (wherever applicable)

CF8M = Body material – stainless steel ASTM A351

316 = Body material – stainless steel ASTM A351 (CF8M)

XXXX CWP = Max Cold Working Pressure in psi

XXXX WOG = Water Oil Gas Pressure in psi

WARNING: This product can expose you to chemicals including lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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