



VALVOINDUSTRIA ING. RIZZIO S.P.A.
Via Circonvallazione 10 13018 Valduggia VC – Italy
www.vironline.com

POLYPROPYLENE, CAST IRON, BRONZE AND BRASS BALL VALVES

The range of our bronze, brass, Cast Iron, and Polypropylene ball valves consists of compact, simple, easy to install, operate and maintain. Their robust construction ensures a long and troubles free life. They offer a full bore with minimum turbulence in the open position and a tight sealing in the closed one, both for liquids and gas. Opening and closing occur in a quarter turn. VIR ball valves must be installed in accordance with the following instruction and with the appropriate member state legislation.

INSTALLATION

PREPARATION

Ensure valve is suitable for service conditions, pressure-temperature and service media. For any problems or doubt, please, contact our company at ++39 0163 47891, tcnsales@vironline.com, or consult www.vironline.com/ped.

The installation shall be correct to allow a good draining and vent, to avoid water hammer, vacuum collapse, corrosion and uncontrolled chemical reactions and to permit cleaning, inspection and maintenance.

VIR valves have been designed for loadings of an efficient system and completely reamed. Loadings caused by wind, traffic or earthquake have not been taken into consideration. Installer has the responsibility to ensure that the valves do not exceed the allowable limit of pressure and temperature of the valve.

VALVE LOCATION

Ball valves can be fitted in vertical, horizontal or inclined pipelines. Flow can be in either direction (except that there is a direction arrow). The position chosen for the installation must allow easy access to the valve for maintenance, operation and registration of gland nut. It is very important that the centers of the valve and pipes section belong to the same line. This is to reduce the risk of uncontrolled loadings on the valve.

PIPING SUPPORTS

Piping supports must be carefully lined up and they must have a correct distance according to the size and to the model of pipe. It is important to pay attention to add not unpredictable stress because of an incorrect position of the piping supports.

THREADED JOINTS

Threaded valves settle with sealers for threads, as hemp, teflon band or liquid sealers (solid sealers need to be applied with anti-clockwise direction). During the installation the valve must be held with a spanner the head, to avoid distortion of the valve; never do the opposite.

Pipe must be taken not so far from the threaded area to avoid an excessive torsion moment.

The male thread on the pipe must have fully formed, undamaged threads.

COMPRESSION END VALVES

When using compression type connections, , make sure the pipe ends are cut square and free from burrs. The pipe must pass through the compression ring until it seats firmly in the bottom of the valve connection socket. The compression nut should be tightened sufficiently to firmly grip and slightly indent the pipe. Sealant is not required.

OPERATION

VIR ball valves are designed to be operated using the operating mechanism which we provide (lever, butterfly, set, etc.) additional aids should not be necessary. These kind of valves must be used just for interception, therefore opened or closed. Valves, which normally remain inoperative for long time, should be sometimes operated with an open and close cycle. It would be better do this operation monthly.

ROUTINE MAINTENANCE

Check for leaks at gland. If gland is leaking tighten the gland nut. The gland nut should be tightened only enough to prevent gland leakage. If leakage persists the packing should be replaced. Make sure to use always original VIR spares. Part code can be found on the drawing or it may be asked directly at VIR using same phone or e-mail as above.

NOTE: make sure valve and pipeline have been depressurized before making any maintenance or any replacements.

The valve must be replaced if leakage comes from the valve body or body end connection.

GENERAL CONSIDERATION

Maximum operating pressure reduces as service temperature increases. Pressure and temperature limitations are shown on VIR catalogue or on the following graphic according to relevant PN.

VIR valves are not designed to operate under strong water hammers.

Therefore these unpredictable loadings are added with the regular loading to check if the valve has been appropriately measured.

Usually a water hammer is caused by the quick check-valve/ball valve closure by a sudden reduction in flow.

The removal of components from the valve, as handle, or the use of non original spares invalidates our responsibility about CE marking.

The surfaces of valves in service may be subject to extreme temperatures; care should be taken when handling.

Model

			PED CATEGORY	
PN	°t min	°t max	3.3	MOD A1 CAT2

APPLICATIONS			
Group 1 GAS	Group 2 GAS	Group 1 LIQUID	Group 2 LIQUID

210	16	-5	90	10 - 25	***
220	16	-5	90	8 - 50	***
240	16	-5	90	8 - 50	***
218	16	-20	60	10 - 25	***
228	16	-20	60	8 - 50	***
300L	40	-10	100	8 - 25	32 - 50
300T	40	-10	100	8 - 25	32 - 50
310	16	0	95	15 - 25	***
315	10	0	95	20 - 25	***
317	10	0	95	25	***
323	25	-10	80	8 - 15	***
324	25	-10	80	8 - 15	***
328	25	-10	150	10 - 32	***
32S	25	-10	120	8 - 50	***
330	20	0	130	15 - 100	***
333	20	0	130	15 - 50	***
335	20	0	130	15 - 50	***
338	20	0	130	15 - 50	***
339	25	-10	120	15 - 25	32 - 50
340	25	-10	150	8 - 25	32 - 100
340LN	25	-10	150	10 - 50	***
340LD	25	-10	150	10 - 50	***
342	25	-10	150	15 - 50	***
343	25	-10	150	8 - 25	32 - 50
345	25	-10	150	10 - 50	***
348	25	-10	150	8 - 25	32 - 50
350	25	-10	150	8 - 25	32 - 100
355	40	-10	150	8 - 25	32 - 50
357	25	-10	120	15 - 28	***
360	25	-10	150	8 - 50	***
365	25	-10	150	15 - 28	***
365LN	25	-10	150	10 - 54	***
36N	25	-10	150	10 - 54	***
380	25	-10	150	8 - 100	***
390	16	-10	100	20 - 25	32 - 250
390	10	-10	100	***	300

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