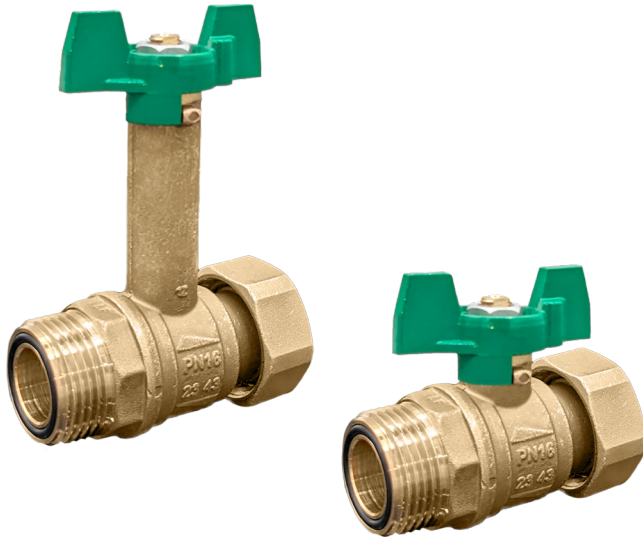


Isolation full-port low-lead ball valve

290030 and 290031



NSF/ANSI/CAN 61
NSF/ANSI/CAN 372



Function

The code 290030 and 290031 full-port ball valves are designed for isolating a variety of Caleffi valves with 1" metric "G" thread union connections. The isolation valve installs in between the valve body and the tailpiece fitting assembly. Male x female configuration and bi-directional full ball valve flow capacity provides flexibility for using one or two isolation valves for the primary functioning valve. Code 290031 has an extended stem for those projects that require pipe insulation.

These ball valves feature a blowout proof stem, PTFE seats, double o-ring stem seals, chrome-plated lead free brass ball and stem, and cast aluminum T-handle. It complies with NSF/ANSI/CAN 61 & 372.

Compatible with 1" union valve products found in latest Caleffi product catalog.



Product range

290030	Isolation ball valve.....	size 1" x 1" Male x Female Metric (G) thread
290031	Isolation ball valve with extended handle.....	size 1" x 1" Male x Female Metric (G) thread

Technical specifications

Materials

Valve

Body and male end cap: DZR low-lead* brass EN 12165 CW510L
 Female unplated nut: DZR low-lead* brass EN CW617N EN 12165
 Chrome-plated ball and unplated stem: DZR low-lead* brass EN 12164 CW510L
 Seats (2): PTFE
 O-ring stem seals (2): peroxide-cured EPDM
 Posi-Stop™ union seal: peroxide-cured EPDM
 Green T-handle (RAL6001): Cast Aluminum EN AC-46100 EN 1676

* Meets the "lead free" requirement of Section 1417 of the Safe Drinking Water Act (SDWA).
 This product has a weighted average lead content of less than 0.25% for its wetted surfaces contacted with consumable water.

Performance

Suitable Fluids: water, glycol solutions
 Max. percentage of glycol: 50%
 Max. working pressure: 230 psi (16 bar)
 Working temperature range: -40 – 300 °F (-40 – 150 °C)
 Flow coefficient, fully open: Cv 5.8 (Kvs 5.0)

Connections:

Main connections: 1" Metric "G" thread Male x Female, ISO 228/1

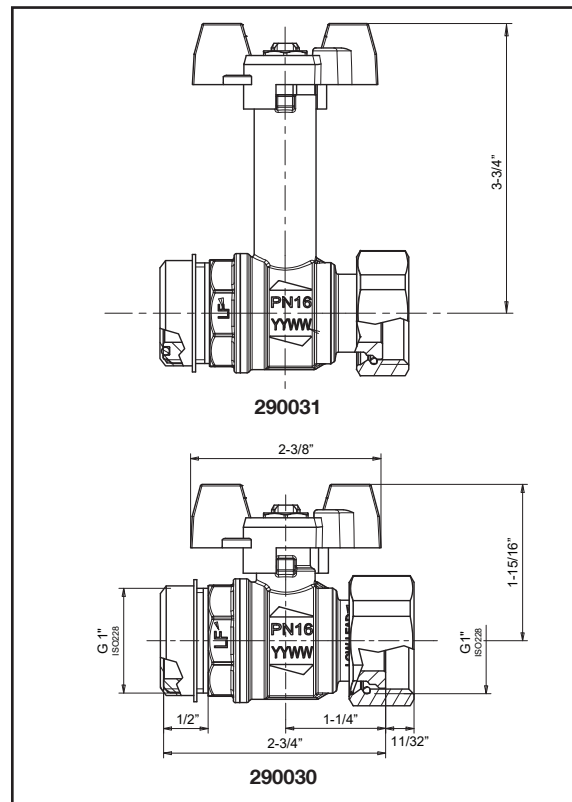
Certifications:

Complies with NSF/ANSI/CAN 61 & 372.

Isolation ball valves, installed on QuickSetter+ without optional temperature gauge.



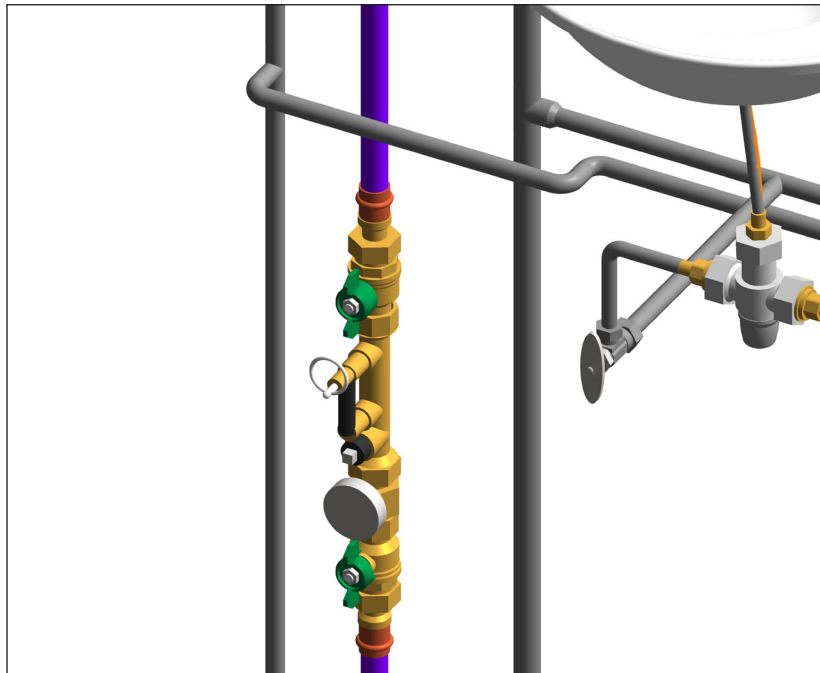
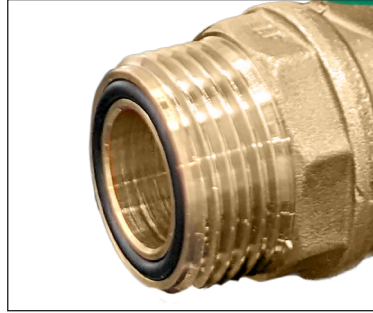
Dimensions



Posi-Stop union seals

The 290030 and 290031 isolation ball valves feature Caleffi's Posi-Stop union seal on the male inlet surface, as shown. The Posi-Stop technology incorporates an embedded o-ring into the male union connection. The contractor tightens the union nut down until a positive, metal-to-metal stop is reached. This controls the O-ring compression to a precise, repeatable value. This results in a field proven, reliable seal connection.

Posi-Stop simplifies serviceability. The installer can remove, service, and reinstall the valve with the same union connections, optimizing service trips. The embedded O-ring provides a reliable seal to liquid and air, allowing contractors to pneumatically test systems with air in order to identify leaks before putting the system into operation.



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SPECIFICATION SUMMARY

290030 and 290031 Isolation ball valves

Two-way isolation bi-directional full-port low-lead ball valve installs in between valve body with 1" metric "G" thread union connection and piping tailpiece assembly. Size 1" male x 1" female ISO 228/1. Designed with blowout proof stem, PTFE seals, peroxide-cured EPDM double o-ring stem seals, peroxide-cured EPDM Posi-Stop™ union seal, chrome-plated lead free ball and stem, and cast aluminum T-handle. Each isolation valve complies with NSF/ANSI/CAN 61 and 372. Water and 50% max. glycol solutions. Maximum working pressure 230 psi (16 bar), working temperature range -40 degrees F to 300 degrees F (-40 degrees C to 150 degrees C), fully open flow coefficient Cv 5.8 (Kvs 5.0). Code 290030 has standard handle configuration, code 290031 has extended stem handle.

We reserve the right to make changes and improvements to the products and related data in this publication, at any time and without prior notice. The technical brochure on www.caleffi.com always has the most up-to-date version of the document, which should be used for technical verification.



Caleffi North America, Inc.
3883 W. Milwaukee Road
Milwaukee, WI 53208
Tel: 414-238-2360 · Fax: 414-238-2366
Technical Support: 414-338-6338 / techsupport.us@caleffi.com
sales@caleffi.com · www.caleffi.com
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