Isolation full-port low-lead ball valve

290030 and 290031

Submittal Data 03707 NA — Issue Date 04/2024

Application

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.

Typical Specification

Furnish and install on the plans and described herein, code 290030, Isolation full-port low-lead ball valve as manufactured by Caleffi in size 1" x 1" male x female metric (G) thread connections. Each valve must be designed with a blowout proof stem, PTFE seals, double o-ring stem seals, chrome-plated lead free brass ball and stem, and cast aluminum T-handle. Each isolation valve complies with NSF/ANSI 61 and 372. Code 290031 features an extended handle for projects requiring pipe insulation, It must be designed for 230 psi (16 bar) maximum working pressure and 300°F (150°C) maximum working temperature, with full open flow coefficient Cv 5.8 (Kvs 5.0).

Technical Data

Materials

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)

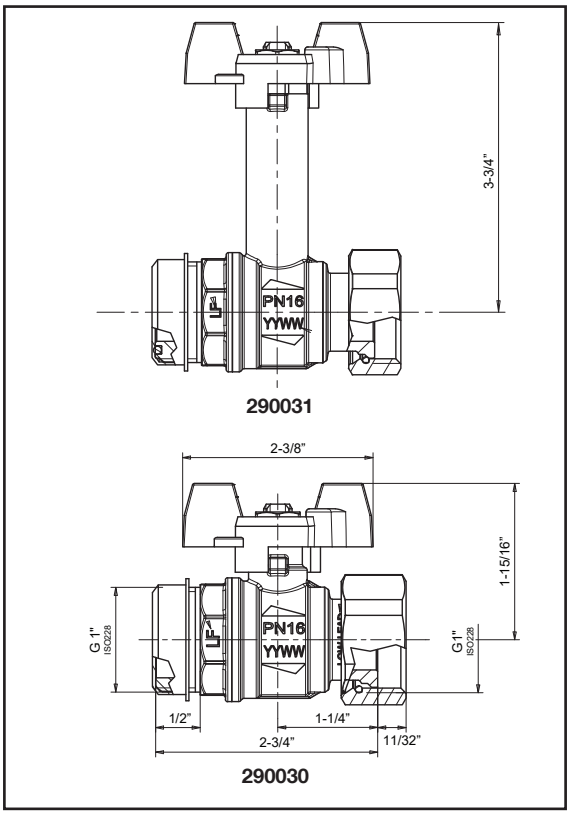
Connections:

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

Certifications:

Complies with NSF/ANSI/CAN 61 & 372.

Dimensions



We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system.

Job name _____ Size _____

Job location _____ Quantity _____

Engineer _____ Approval _____

Mechanical contractor _____ Service _____

Contractor's P.O. No. _____ Tag No. _____

Representative _____ Notes _____

Caleffi North America, Inc. 3883 West Milwaukee Road / Milwaukee, WI 53298
Main tel: 414.238.2360 / Technical Support: 414-338-6338 / techsupport.us@caleffi.com
www.caleffi.com

© Copyright 2024