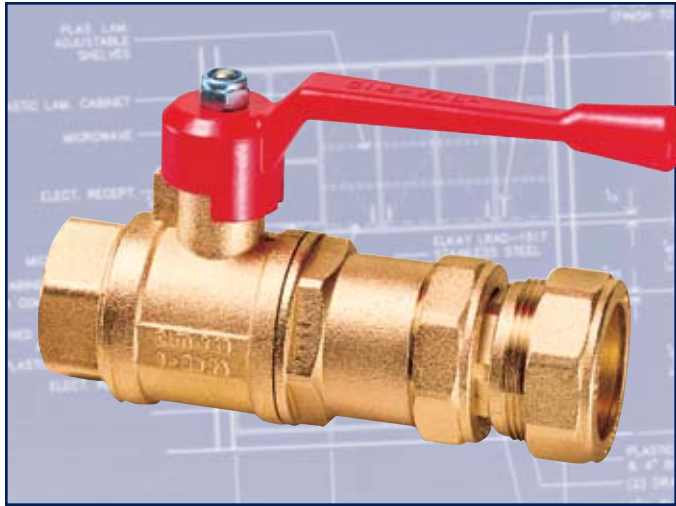


# cimJOINT Ball Valve with Telescopic Expansion Union

cim66.1

FIPT x Copper Compression



## Applications:

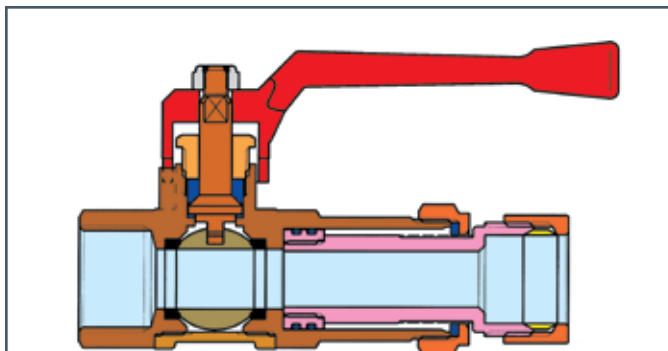
The CIM 66.1 ball valve with telescopic expansion union is manufactured in accordance with EN ISO 9001 and is designed to solve expansion and contraction problems normally found in hydraulic, heating, sanitary, pneumatic and similar pipe systems.

## Features:

Additional applications include watermeter or pump installations where the extension capabilities of the union incorporated into the valve eliminate the need for extra fittings or nipples to make connections. CimJOINT ball valves can also be used for the easy replacement or addition of a valve into an existing pipe system.

## Threading:

NPT threads ANSI B1.20.1 x Copper compression.



## Materials:

- **Body:** Hot Forged Brass ASTM C37700
- **Ball:** Brass, Machined to a Micro-Smooth Finish, Hard Chromium Plated
- **Ball Seats:** Conical Rings in P.T.F.E.
- **Stem Seal:** Rings in P.T.F.E.
- **Cap Stem:** 36600 Bar Stock
- **Piston Fitting:** 36600 Bar Stock
- **Sealing Gaskets:** EPDM - ASTM D 2000 M2
- **Handle:** Hard Duraluminum Alloy Epoxy Painted Red RAL3000

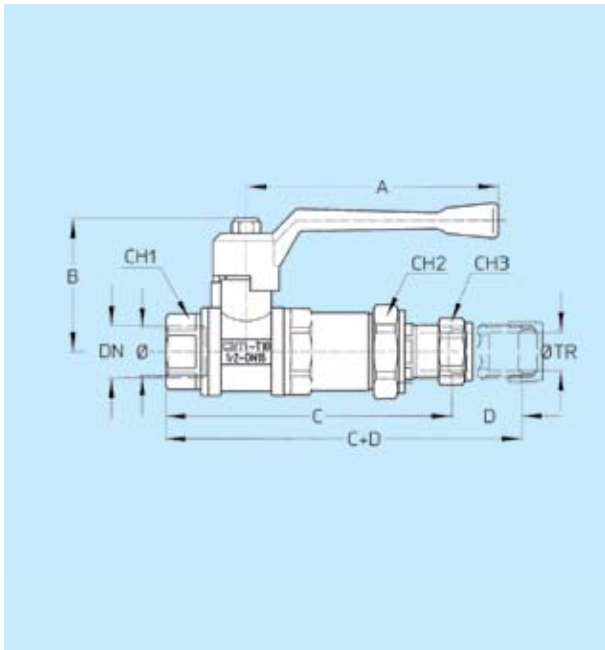
| Size | Fast Order No. | Technical ID No.  |
|------|----------------|-------------------|
| 1/2" | 66-04          | CIM63-AC04AH-CJBV |
| 3/4" | 66-06          | Discontinued      |
| 1"   | 66-07          | CIM63-AC07AH-CJBV |

All Cimberio valves qualify for the American Recovery and Reinvestment Act and the Buy American Act.

# cimJOINT Ball Valve with Telescopic Expansion Union

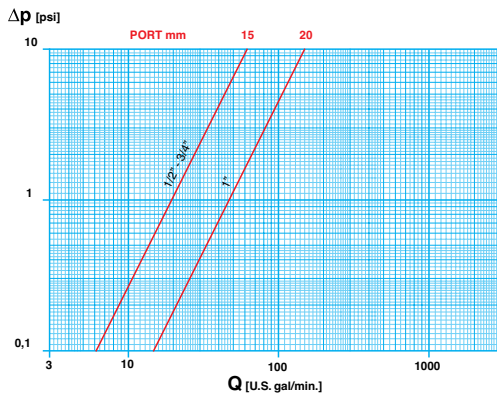
cim 66.1

## FIPT x Copper Compression



| Size      | 1/2"              | 3/4"              | 1"               |
|-----------|-------------------|-------------------|------------------|
| Port inch | 0.59"             | 0.59"             | 0.79"            |
| Port mm   | 15mm              | 15mm              | 20mm             |
| A         | 3-15/16"<br>100mm | 3-15/16"<br>100mm | 4-3/4"<br>120mm  |
| B         | 2-1/16"<br>53mm   | 2-1/16"<br>53mm   | 2-9/16"<br>65mm  |
| C         | 4-7/16"<br>113mm  | 4-7/16"<br>113mm  | 4-7/8"<br>124mm  |
| D         | 1-1/4"<br>32mm    | 1-1/2"<br>40mm    | 1-5/16"<br>33mm  |
| C + D     | 5-11/16"<br>145mm | 6"<br>153mm       | 6-3/16"<br>157mm |
| CH1       | 1-1/16"<br>27mm   | 1-1/4"<br>31mm    | 1-1/2"<br>38mm   |
| CH2       | 1-3/8"<br>34mm    | 1-3/8"<br>34mm    | 1-9/16"<br>39mm  |
| CH3       | 15/16"<br>24mm    | 1-1/4"<br>32mm    | 1-9/16"<br>39mm  |
| Pounds    | 1.16              | 1.25              | 2.05             |
| Grams     | 525               | 565               | 930              |

### FLOW AND PRESSURE DROP



### CV CM CS MT

**CV:** Capacity in "U.S. gal/min" at pressure drop of "1 PSI"

**CM:** Working Torque in "lb x in"

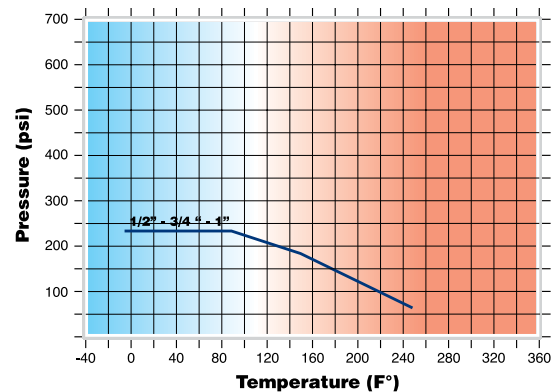
**CS:** Starting Torque in "lb x in"

**MT:** Torque Breaking Point on the Stem in "lb x in"

**Element:** Water - Temperature: 59.9° F

|      | SIZE    | 1/2" | 3/4" | 1"   |
|------|---------|------|------|------|
| 66.1 | Ø mm    | 15   | 15   | 20   |
|      | Ø inch  | 0.59 | 0.59 | 0.79 |
| CV   | gal/min | 19.7 | 19.7 | 47.4 |
| CM   | N x m   | 3    | 3    | 5    |
|      | lb x in | 27   | 27   | 44   |
| CS   | N x m   | 6    | 6    | 10   |
|      | lb x in | 53   | 53   | 89   |
| MT   | N x m   | 10   | 10   | 24   |
|      | lb x in | 89   | 89   | 213  |

### PRESSURE/TEMPERATURE RATINGS



**Working Pressure:** 1/2" – 1" : 232 PSI

**Max. Operating Temperature:** Working Limit for Fluids -4° F – 248° F

**Test Pressures:** According to ISO 5208

**Vacuum:** the CIM 66.1 Ball Valves can be used for Vacuum: 2x10<sup>-5</sup> PSI