

# cimPRESS Full Port Ball Valve

cim222H.1

CimPRESS x Male Garden Hose Thread



## Applications:

The CIM 222H.1 CimPRESS ball valve is manufactured in accordance with MSS-SP-110, PS117-2004, and EN ISO 9001 standards and is designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. The CIM 222H.1 is suitable for use with non-aggressive fluid applications including residential, industrial, and agricultural systems. (CimPRESS is not intended for use with soft or rolled copper tubing)

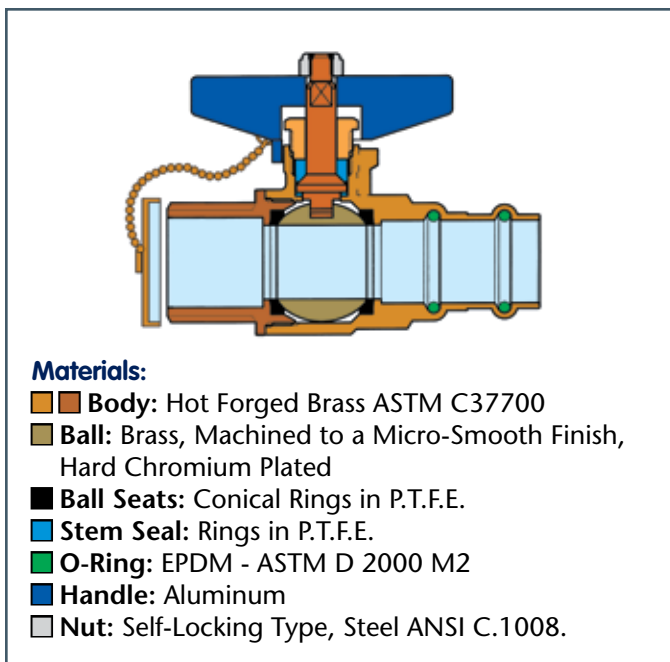
## Features:

CimPRESS valves were developed as purpose built valves for standard press attachment to eliminate the need to assemble separate components in the field, which could result in weak/leak points and increased material and labor costs. The CIM 222H.1 is manufactured from DZR "CR" corrosion-resistant brass with double EPDM-ASTM D 2000 M2 O-Rings to ensure a leak proof cold crimped seal with added protection against corrosion.

CimPRESS valves eliminate the torch and the need to clean, flux and solder in order to create a permanent watertight valve connection, significantly reducing average installation time while avoiding potential fire risks and other problems associated with sweat connections; saving time and money.

## Connection:

Standard press connection for copper and stainless steel tube plumbing systems x NPT threads ANSI B 1.20.1



## 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.
- O-Ring: EPDM - ASTM D 2000 M2
- Handle: Aluminum
- Nut: Self-Locking Type, Steel ANSI C.1008.

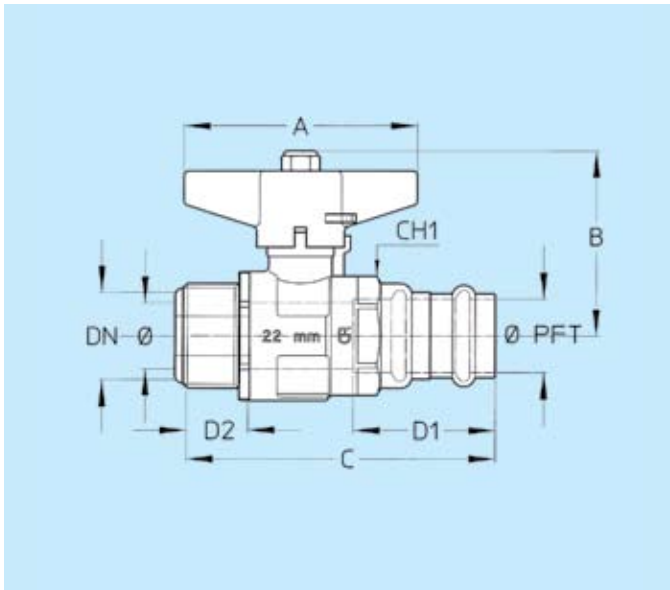
All Cimberio valves qualify for the American Recovery and Reinvestment Act and the Buy American Act.

Size	Fast Order No.	Technical ID No.
1/2"	222H-04	CIM222H-BE04TH
3/4"	222H-06	CIM222H-BE06TH
1"	222H-07	CIM222H-BE07TH

# cimPRESS Full Port Ball Valve

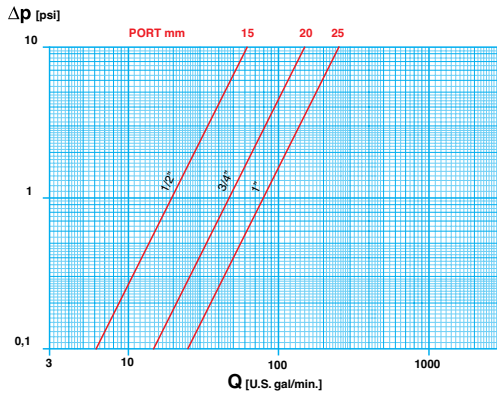
cim222H.1

CimPRESS x Male Garden Hose Thread

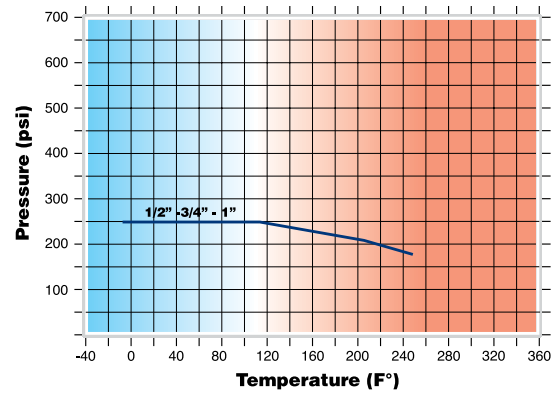


Size	1/2"	3/4"	1"
Port inch	0.59"	0.79"	0.98"
Port mm	15mm	20mm	25mm
A	2"	2-3/4"	2-3/4"
	50mm	70mm	70mm
B	2-1/16"	2-3/16"	2-3/8"
	52mm	56mm	60mm
C	3-5/16"	3-11/16"	4-1/8"
	83.5mm	94mm	105mm
D1	1-9/16"	1-3/4"	1-3/4"
	40mm	44mm	44mm
D2	11/16"	3/4"	13/16"
	17mm	18.5mm	21mm
CH	15/16"	1-1/4"	1-1/2"
	24mm	32mm	38mm
Pounds	0.53	0.88	1.31
Grams	240	400	595
Required Pipe Insertion Depth	1.5580"	1.7380"	1.7310"
	39.57mm	44.14mm	43.97mm

## FLOW AND PRESSURE DROP



## PRESSURE/TEMPERATURE RATINGS



## 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"
222H.1	Ø mm	15	20	25
	Ø inch	0.59	0.79	0.98
	CV	gal/min	19.7	47.5
CM	N x m	3	5	6
	lb x in	27	44	53
CS	N x m	6	10	12
	lb x in	53	89	106
MT	N x m	10	24	24
	lb x in	89	213	213

**Working Pressure:** 250 PSI

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

**Test Pressures:** According to ISO 5208