

Full Port Standard Pattern Ball Valve

cim17.1

Flat Handle • FIPT x FIPT • UL/CSA/AGA Listed



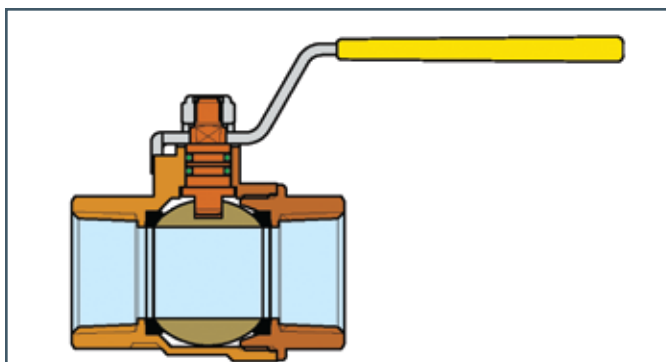
Applications:

The CIM 17.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with non aggressive fluids. Applications include: residential and commercial plumbing, industrial applications, agricultural systems, waterworks, high temperature hot water services, and condensate lines.

Threading:

NPT threads ANSI B1.20.1.

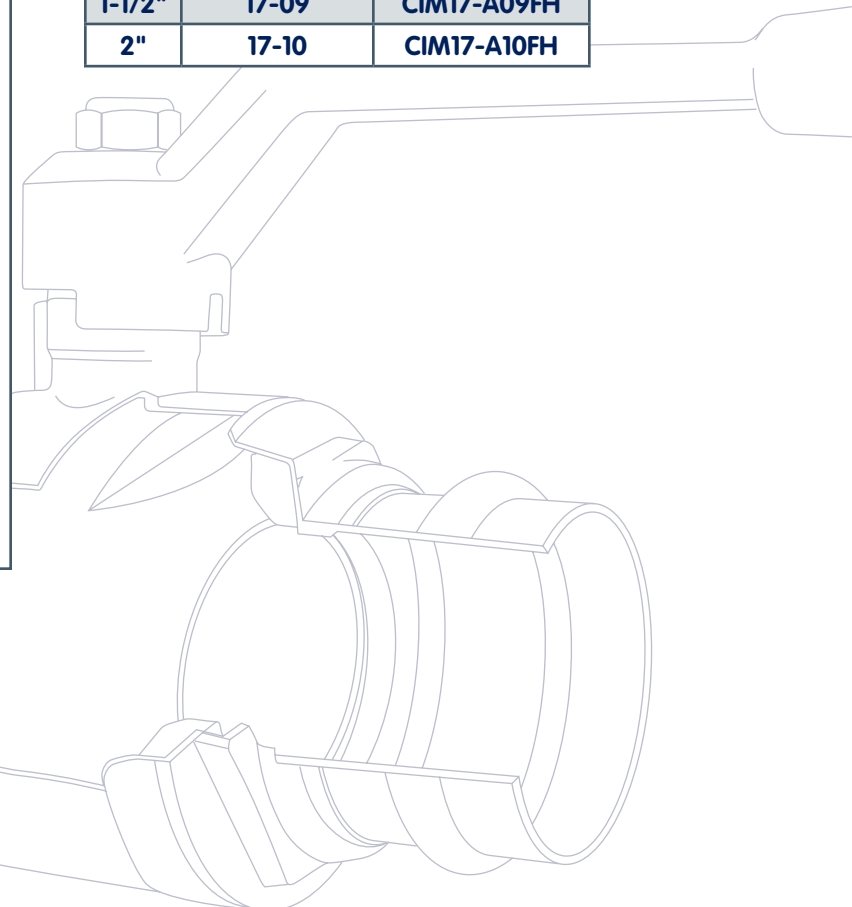
Size	Fast Order No.	Technical ID No.
1/2"	17-04	CIM17-A04FH
3/4"	17-06	CIM17-A06FH
1"	17-07	CIM17-A07FH
1-1/4"	17-08	CIM17-A08FH
1-1/2"	17-09	CIM17-A09FH
2"	17-10	CIM17-A10FH



Materials:

- **Body:** Hot Forged Brass ASTM C37700
- **Adaptor:** Hot Forged Brass ASTM C37700
- **Ball:** Brass, Machined to a Micro-Smooth Finish, Hard Chromium Plated, ASTM 36600
- **Stem:** ASTM 36600 Bar Stock
- **Ball Seats:** Conical Rings in P.T.F.E.
- **Stem Seal:** Two O-Rings in NBR.
- **Handle:** Steel with PVC Grip
- **Nut:** Self-Locking Type, Steel ANSI C.1008.

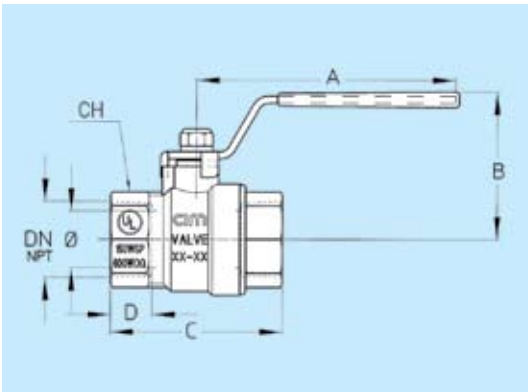
All Cimberio valves qualify for the American Recovery and Reinvestment Act and the Buy American Act.



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Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.79" 20mm	1" 0.98" 25mm	1-1/4" 1.26" 32mm	1-1/2" 1.57" 40mm	2" 1.97" 50mm
A	3-9/16" 90mm	3-9/16" 90mm	4-5/16" 110mm	4-5/16" 110mm	5-15/16" 150mm	5-15/16" 150mm
B	1-7/8" 47.5mm	2-1/16" 52mm	2-1/4" 56.5mm	2-9/16" 65.5mm	3-3/16" 81mm	3-7/16" 88mm
C	2-3/16" 55mm	2-3/8" 60mm	2-15/16" 74mm	3-1/4" 81.5mm	3-3/4" 95.5mm	4-7/16" 112.5mm
D	9/16" 14mm	9/16" 14.5mm	11/16" 17mm	11/16" 17.5mm	3/4" 18mm	13/16" 20mm
CH	1" 25mm	1-1/4" 31mm	1-1/2" 38mm	1-7/8" 47mm	2-1/8" 54mm	2-5/8" 66mm
Pounds Grams	0.44 200	0.67 305	1.12 510	1.64 745	2.56 1160	3.76 1705

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

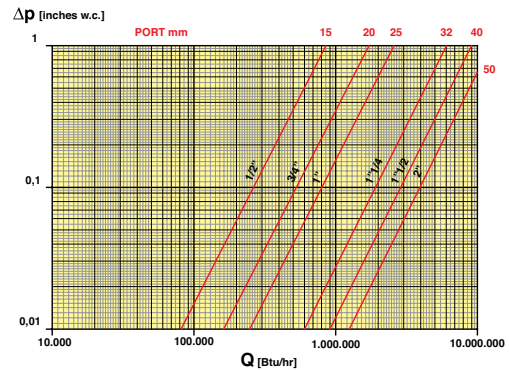
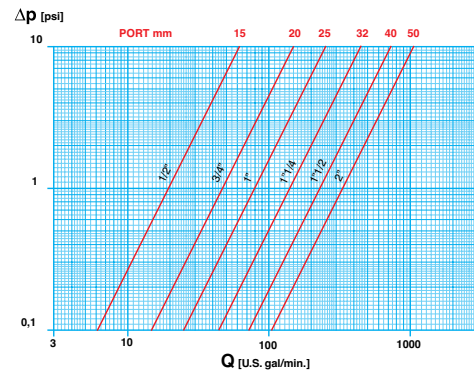
17.1	SIZE Ø mm Ø inch	1/2" 15 0.59	3/4" 20 0.79	1" 25 0.98	1-1/4" 32 1.26	1-1/2" 40 1.57	2" 50 1.97
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4
CM	N x m lb x in	3 27	5 44	6 53	7 62	10 89	13 115
CS	N x m lb x in	6 53	10 89	12 106	14 124	20 177	26 230
MT	N x m lb x in	20 177	24 213	26 230	26 230	80 709	80 709

FC: Capacity is determined by the quantity in BTU/h of a gas of 0.64 SG which can be passed with a pressure drop equal to 0.3" water column

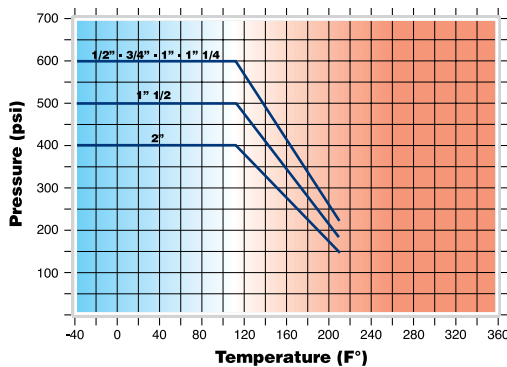
Element: Gas - Specific Gravity: 0.64

17.1	SIZE Ø mm Ø inch	1/2" 15 0.59	3/4" 20 0.79	1" 25 0.98	1-1/4" 32 1.26	1-1/2" 40 1.57	2" 50 1.97
FC	BTU/h	455,000	930,000	1,420,000	3,245,000	4,975,000	6,800,000
CM	N x m lb x in	3 27	5 44	6 53	7 62	10 89	13 115
CS	N x m lb x in	6 53	10 89	12 106	14 124	20 177	26 230
MT	N x m lb x in	10 177	24 213	26 230	26 230	80 709	80 709

FLOW AND PRESSURE DROP



PRESSURE/TEMPERATURE RATINGS



Working Pressure: 1/2" – 1-1/4" : 600 PSI

1-1/2" : 500 PSI

2" : 400 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 212° F

Test Pressures: According to ISO 5208

Vacuum: the CIM 17.1 Ball Valve can be used for Vacuum: 2x10⁻⁵ PSI