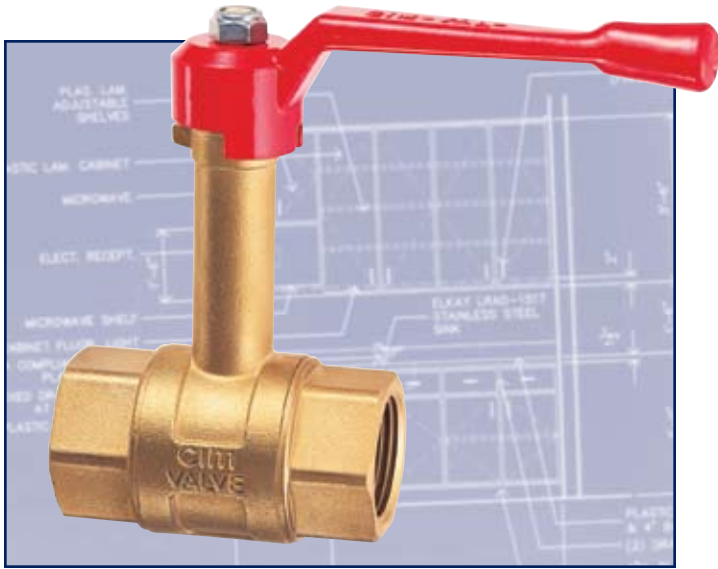


Full Port Ball Valve with Integral Stem Extension

cim 501.1

FIPT x FIPT



Applications:

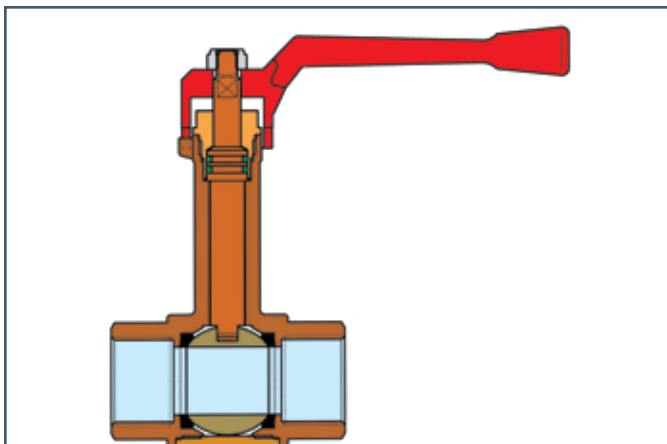
The CIM 501.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed with an integral stem extension. Applications include non-aggressive fluids and gases for residential and commercial plumbing, industrial applications, agricultural systems, waterworks, saturated steam or high temperature hot water services, condensate lines, as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 501.1 ball valve, which is similar to the Cim 11 building block, is a full port ball valve built with a heavy pattern body that offers increased thread depth, and includes a unique blast proof/impact proof 3 part stem design that features an integral stem extension that is part of the body forging. This superior design locates the stem seal, cap stem, and stem nut at the end of the stem extension to accommodate pipe insulation and eliminates the potential leak points typically found with standard stem extension kits.

Threading:

NPT threads ANSI B1.20.1.



Materials:

- **Body/Extension:** Hot Forged Brass ASTM C37700
- **Adaptor:** Hot Forged Brass ASTM C37700
- **Ball:** Brass, Machined to a Micro-Smooth Finish, Hard Chromium Plated
- **Cap Stem:** 36600 Bar Stock
- **Ball Seats:** Conical Rings in P.T.F.E.
- **Stem Seal:** Two O-Rings in FPM.
- **Handle:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000
- **Nut:** Self-Locking Type, Steel ANSI C.1008.

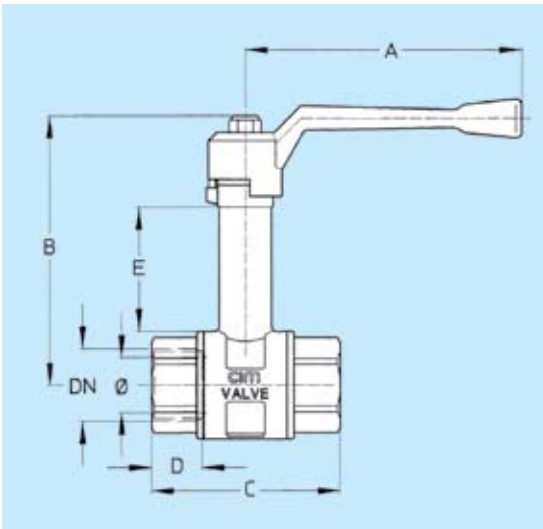
Size	Fast Order No.	Technical ID No.
1/2"	501-04	CIM501-A04ES-DZ
3/4"	501-06	CIM501-A06ES-DZ
1"	501-07	CIM501-A07ES-DZ
1-1/4"	501-08	CIM501-A08ES-DZ
1-1/2"	501-09	CIM501-A09ES-DZ
2"	501-10	CIM501-A10ES-DZ

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

Full Port Ball Valve with Integral Stem Extension

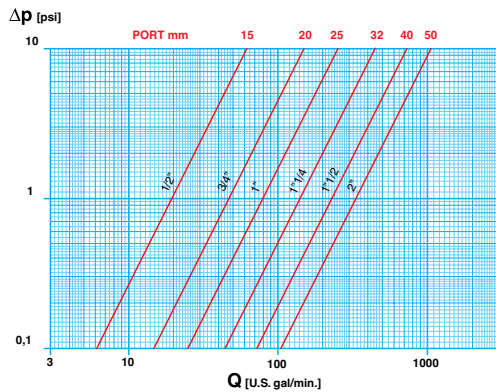
cim 501.1

FIPT x FIPT

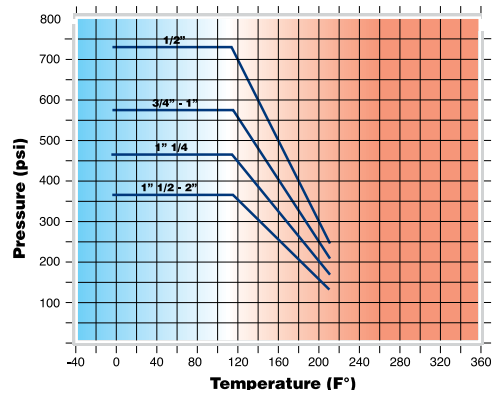


Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Port inch	0.59"	0.79"	0.98"	1.26"	1.57"	1.97"
Port mm	15mm	20mm	25mm	32mm	40mm	50mm
A	3-15/16"	3-15/16"	4-3/4"	4-3/4"	5-15/16"	5-15/16"
	100mm	100mm	120mm	120mm	150mm	150mm
B	3-15/16"	4-1/16"	4-3/4"	4-7/8"	5-13/16"	6-1/8"
	100mm	104mm	120mm	124mm	148mm	155mm
C	2-3/8"	2-11/16"	3-1/4"	3-5/8"	4-1/4"	4-15/16"
	60mm	68mm	82mm	92mm	107mm	125mm
D	11/16"	3/4"	13/16"	7/8"	15/16"	1-1/16"
	17mm	18.5mm	21mm	22.5mm	23mm	26.5mm
E	1-3/4"	1-3/4"	2"	2"	2-3/16"	2-3/16"
	45mm	45mm	50mm	50mm	55mm	55mm
CH	1"	1-1/4"	1-9/16"	1-7/8"	2-3/16"	2-3/4"
	25mm	31mm	40mm	47mm	55mm	69mm
Pounds	0.76	1.05	1.79	2.41	3.68	5.47
Grams	345	475	810	1095	1670	2480

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"	1-1/4"	1-1/2"	2"
501.1	Ø mm	15	20	25	32	40	50
	Ø inch	0.59	0.79	0.98	1.26	1.57	1.97
	CV	19.7	47.4	78.7	142.3	229.1	335.4
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4
CM	N x m	3	5	6	7	10	13
	lb x in	27	44	53	62	89	115
CS	N x m	6	10	12	14	20	26
	lb x in	53	89	106	124	177	230
MT	N x m	10	24	24	45	90	90
	lb x in	89	213	213	399	797	797

Working Pressure: 1/2" : 725 PSI

3/4" - 1" : 580 PSI

1-1/4" : 464 PSI

1-1/2" - 2" : 362 PSI

Max. Operating Temperature: Working Limit for Fluids -4° F - 212° F

Test Pressures: According to ISO 5208

Vacuum: the CIM 501.1 Ball Valves can be used for Vacuum: 2x10⁻⁵ PSI