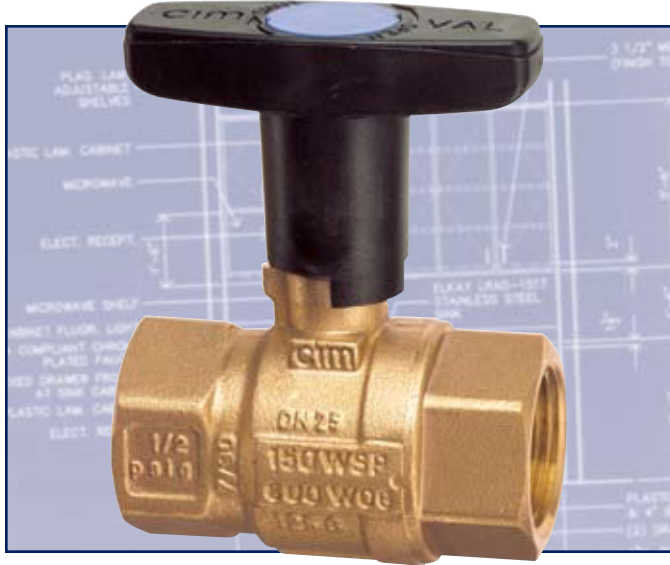


Full Port Ball Valve with Nylon Isolation Handle

cim A12.1

FIPT x FIPT



Applications:

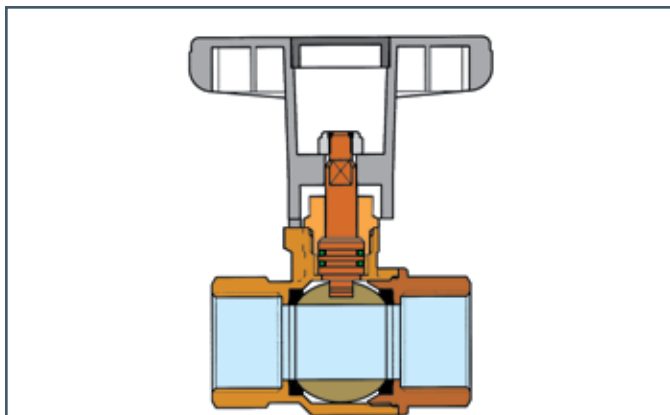
The CIM A12.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed with a nylon isolation handle. Applications include non aggressive fluids and gases for residential and commercial plumbing, industrial applications, agricultural systems, waterworks, saturated steam or high temperature hot water services, condensate lines, as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM A12.1 ball valve, which is built from the Cimberio 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. The CIM A12.1 ball valve also features a nylon isolation handle to accommodate pipe insulation.

Threading:

NPT threads ANSI B1.20.1.



Materials:

- **Body:** 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:** Nylon
- **Nut:** Self-Locking Type, Steel ANSI C.1008.

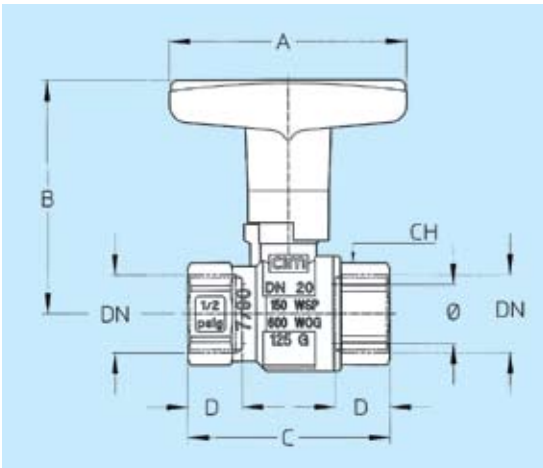
Size	Fast Order No.	Technical ID No.
1/2"	A12-04	CIMA12-A04NH
3/4"	A12-06	CIMA12-A06NH
1"	A12-07	CIMA12-A07NH
1-1/4"	A12-08	CIMA12-A08NH
1-1/2"	A12-09	CIMA12-A09NH
2"	A12-10	CIMA12-A10NH

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

Full Port Ball Valve with Nylon Isolation Handle

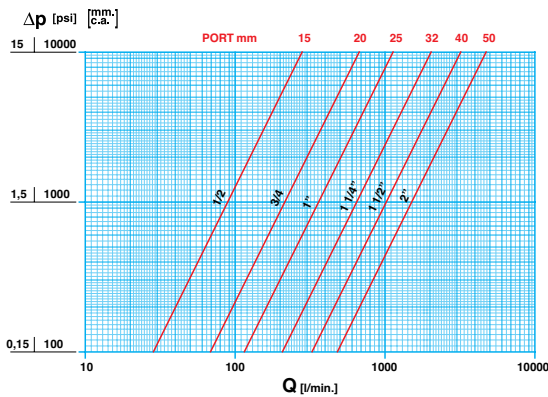
cim A12.1

FIPT x FIPT

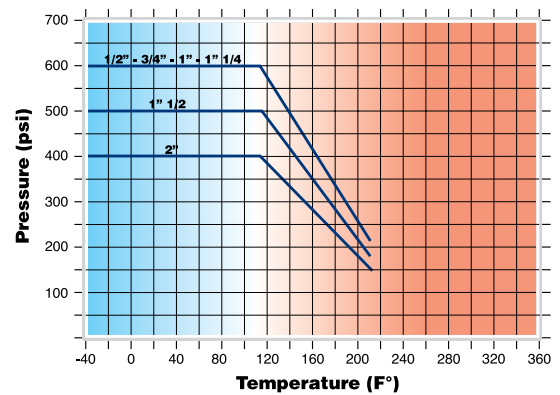


Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.79" 20mm	1" 0.98" 25mm	1-1/4" 1.26" 32mm	1-1/2" 1.57" 40mm	2" 1.97" 50mm
A	3-1/8" 80mm	3-1/8" 80mm	3-1/8" 80mm	3-3/4" 95mm	4-5/16" 110mm	4-5/16" 110mm
B	3-1/16" 77mm	3-1/4" 81.5mm	3-3/8" 85.5mm	3-3/4" 96mm	4-5/16" 109.5mm	4-9/16" 116.5mm
C	2-7/16" 61mm	2-11/16" 68mm	3-1/4" 82mm	3-5/8" 92mm	4-1/4" 107mm	4-15/16" 125mm
D	11/16" 17mm	3/4" 18.5mm	13/16" 21mm	7/8" 22.5mm	15/16" 23mm	1-1/16" 26.5mm
CH	1" 25mm	1-1/4" 31mm	1-9/16" 40mm	1-15/16" 49mm	2-3/16" 55mm	2-3/4" 69mm
Pounds Grams	0.51 230	0.82 370	1.32 600	2.04 925	3.03 1375	4.59 2080

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

A12.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
	Ø mm	15	20	25	32	40	50
	Ø inch	0.59	0.79	0.98	1.26	1.57	1.97
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: 1/4" – 1-1/4" : 600 PSI

1-1/2" : 500 PSI

2" : 400 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 302° F

Test Pressures: According to ISO 5208

Vacuum: the CIM A12.1 Ball Valves can be used for Vacuum: 2×10^{-5} PSI