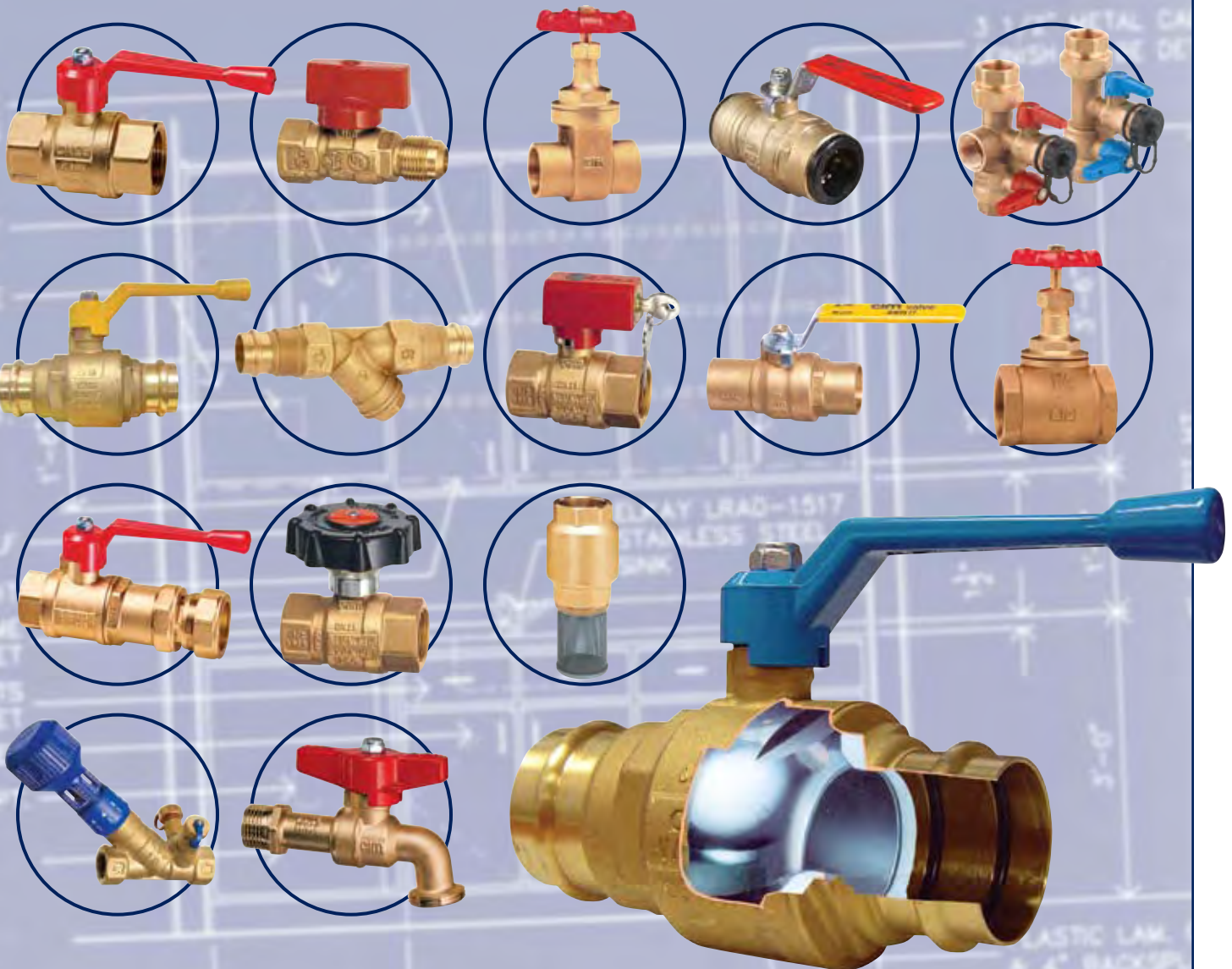


valve
cimberio[®]
technological solutions

Valve Guide





Since 1957, the Cimberio company has developed and introduced a wide range of ball, gate, industrial and specialty valves for many different uses from commercial and residential plumbing to agricultural systems, waterworks and other industrial applications. The name Cimberio has become synonymous the world over with high quality competitive products, and they are currently sold and installed in over 54 countries around the globe. All Cimberio valves are manufactured in one of our state of the art Italian facilities utilizing the most up to date automated methods for production, assembly, testing and packaging. Every valve is 100% tested during the manufacturing and assembly process assuring the maximum levels of performance and the highest standards of quality in accordance with ISO 9001.

We are proud of our vast catalog of both standard and unique products, including many patented designs and pride ourselves on being able to provide our customers a combination of value, quality and technical innovation unparalleled in the industry. When you have installed a Cimberio Valve you can be confident that you have installed a quality product that is ***CIMply The Best!***

Certified Total Quality

Cimberio products are certified by the most prestigious and rigorous National and International Certifying Institutes. The Cimberio Quality System has been certified to the ISO 9001:2000 standard, upgrading the first ISO and BSI certification achieved in 1989.



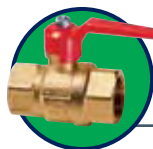
Individual spec sheets for all valves included in this guide can be found online at www.cimberiovalve.com or can be requested by calling 877-228-9246.

BALL VALVES



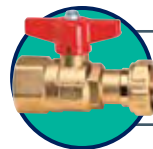
Standard Pattern Ball Valves

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Heavy Pattern Ball Valves

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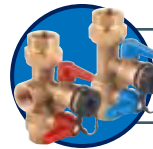
Water Meter Ball Valves

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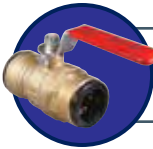
Ball Bib Cocks

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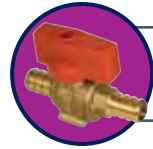
CimKIT™ Valves

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CimPUSH™ Ball Valves

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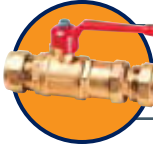
CimPEX™ Ball Valves

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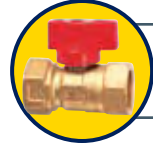
CimPRESS™ Ball Valves

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CimJOINT™ Ball Valves

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Ball Valves for Gas Services

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cim17.1 Full Port Standard Pattern Ball Valve

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

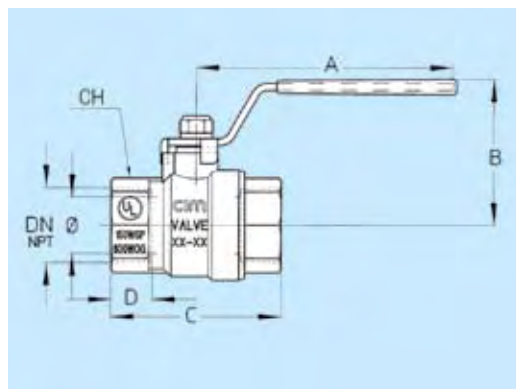


Applications:

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.

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	17-02	17-03	17-04	17-06	17-07	17-08	17-09	17-10

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



cim17.2 Full Port Standard Pattern Ball Valve

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

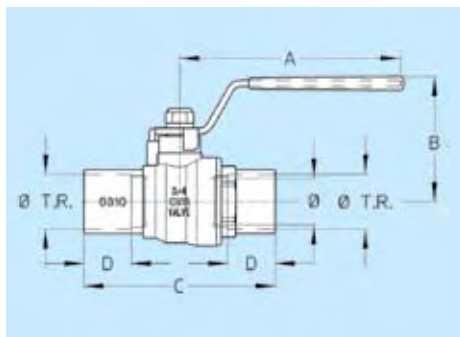


Applications:

The CIM 17.2 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.

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	17CC-02	17CC-03	17CC-04	17CC-06	17CC-07	17CC-08	17CC-09	17CC-10	17CC-11	17CC-12	17CC-14

Size Port inch Port mm	1/2" 0.55" 14mm	3/4" 0.75" 19mm	1" 0.94" 24mm	1-1/4" 1.18" 30mm	1-1/2" 1.46" 37mm	2" 1.85" 47mm	2-1/2" 2.48" 63mm	3" 2.99" 76mm	4" 4.11" 104mm
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	8-1/2" 206mm	9-7/16" 240mm	10-1/4" 260mm
B	1-13/16" 46.5mm	2" 51mm	2-3/16" 55mm	2-3/8" 60mm	3-1/16" 78mm	3-3/8" 85mm	5-15/16" 151mm	6-3/4" 171mm	6-3/8" 162mm
C	2-3/16" 55mm	3-1/16" 78.5mm	3-9/16" 91mm	4" 102mm	4-3/4" 120mm	5-3/4" 145mm	5-15/16" 151mm	6-3/4" 171mm	10-1/4" 260mm
D	1/2" 13mm	3/4" 19.5mm	15/16" 23mm	1" 25mm	1-1/8" 28mm	1-3/8" 34mm	1-1/16" 27mm	1-1/8" 28mm	2-1/8" 54mm
Pounds Grams	0.35 160	0.60 270	0.89 405	1.29 585	2.07 940	3.28 1490	9.38 4060	13.69 6210	24.7 11,203



cim17.1 & 17.2 Full Port Standard Pattern Ball Valves



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.

PRESSURE/TEMPERATURE RATINGS

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

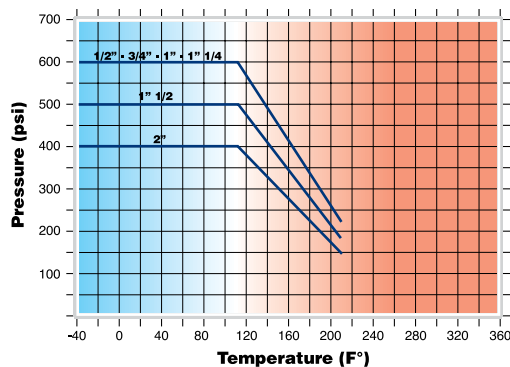
1-1/2" : 500 PSI

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: 2×10^{-5} PSI



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

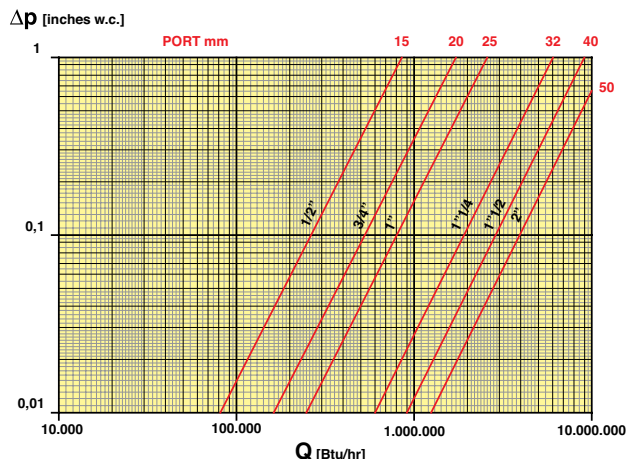
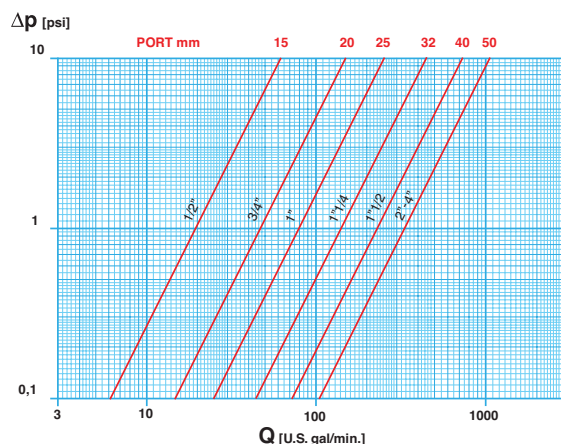
	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
	Ø mm	15	20	25	32	40	50	63	76	100
	Ø inch	0.59	0.79	0.98	1.26	1.57	1.97	2.48	2.99	3.94
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4	601.5	983.1	1582
CM	N x m lb x in	3 27	5 44	6 53	7 62	10 89	13 115	16 142	20 177	30 266
CS	N x m lb x in	6 53	10 89	12 106	14 124	20 177	26 230	32 283	40 354	60 531
MT	N x m lb x in	20 177	24 213	26 230	26 230	80 709	80 709	280 2480	280 2480	550 4872

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

	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
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



cim11.1 Full Port Heavy Pattern Ball Valve

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



Applications:

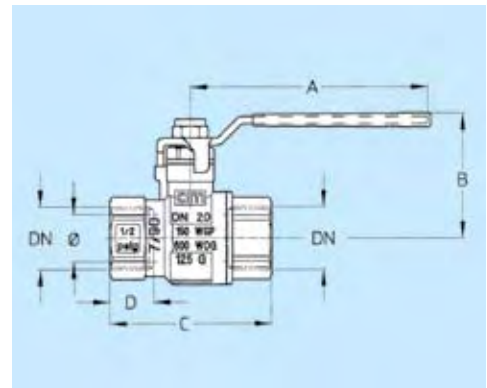
The CIM 11.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with non-aggressive fluids and gases. Applications include: residential and commercial plumbing, industrial applications, agricultural systems, waterworks, saturated steam or high temperature hot water services, condensate lines, as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 11.1 ball valve, which is the building block for many other Cimberio valves, 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 allows handle option flexibility.

Size	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	11-02	11-03	11-04	11-06	11-07	11-08	11-09	11-10	11-11	11-12	11-14

Size Port inch Port mm	1/4" 0.39" 10mm	3/8" 0.39" 10mm	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	2-1/2" 2.48" 63mm	3" 2.99" 76mm	4" 3.94" 100mm
A	2-9/16" 65mm	2-9/16" 65mm	3-1/8" 80mm	3-15/16" 100mm	3-15/16" 100mm	4-3/4" 120mm	5-15/16" 150mm	5-15/16" 150mm	9-7/16" 240mm	9-7/16" 240mm	12-1/4" 310mm
B	1-3/8" 34mm	1-3/8" 34mm	1-13/16" 46mm	2-1/16" 53mm	2-1/4" 57mm	2-5/8" 66mm	3-3/16" 81mm	3-7/16" 88mm	5-5/16" 134mm	5-15/16" 150mm	7-1/8" 180mm
C	7/8" 47mm	7/8" 47mm	2-7/16" 61mm	2-11/16" 68mm	3-1/4" 82mm	3-5/8" 92mm	4-1/4" 107mm	4-15/16" 125mm	5-15/16" 151mm	6-3/4" 171mm	8-1/8" 206mm
D	1/2" 12.5mm	1/2" 12.5mm	11/16" 17mm	3/4" 18.5mm	13/16" 21mm	7/8" 22.5mm	15/16" 23mm	1-1/16" 26.5mm	1-1/16" 27mm	1-1/8" 28mm	1-3/8" 35mm
CH	13/16" 20mm	13/16" 20mm	1" 25mm	1-1/4" 31mm	1-9/16" 40mm	1-15/16" 49mm	2-3/16" 55mm	2-3/4" 69mm	3-3/8" 86mm	3-15/16" 100mm	4-7/8" 123mm
Pounds Grams	0.26 120	0.26 120	0.49 220	0.79 360	1.3 590	2.02 915	2.99 1355	4.54 2060	9.38 4255	13.69 6210	22.05 10,000



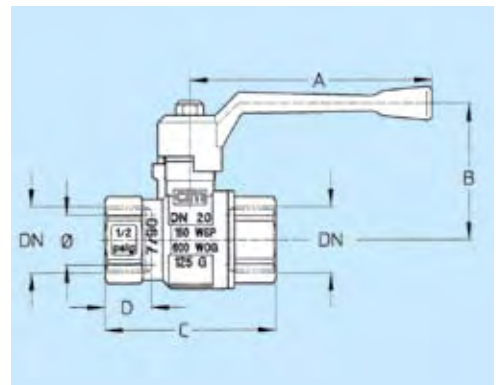
cim12.1 Heavy Pattern Ball Valve with Lever Handle

FIPT x FIPT

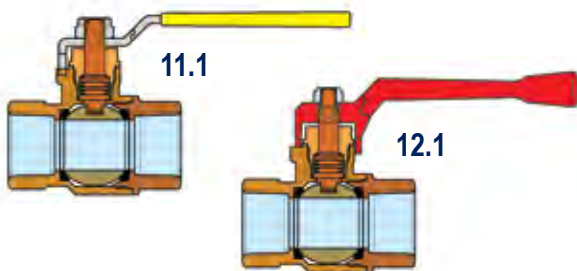
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	12-04	12-06	12-07	12-08	12-09	12-10	12-11	12-12	12-14



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	2-1/2" 2.48" 63mm	3" 2.99" 76mm	4" 3.94" 100mm
A	3-1/8" 80mm	3-15/16" 100mm	3-15/16" 100mm	4-3/4" 120mm	5-15/16" 150mm	5-15/16" 150mm	9-7/16" 240mm	9-7/16" 240mm	12-1/4" 310mm
B	2-1/16" 52mm	2-3/16" 56mm	2-3/8" 60mm	2-7/8" 73mm	3-1/2" 89mm	3-3/4" 96mm	4-3/4" 121mm	5-3/16" 132mm	6-1/8" 155mm
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	5-15/16" 151mm	6-3/4" 171mm	8-1/8" 206mm
D	11/16" 17mm	3/4" 18.5mm	13/16" 21mm	7/8" 22.5mm	15/16" 23mm	1-1/16" 26.5mm	1-1/16" 27mm	1-1/8" 28mm	1-3/8" 35mm
CH	1" 25mm	1-1/4" 31mm	1-9/16" 40mm	1-15/16" 49mm	2-3/16" 55mm	2-3/4" 69mm	3-3/8" 86mm	3-15/16" 100mm	4-7/8" 123mm
Pounds Grams	0.49 220	0.79 360	1.3 590	2.02 915	2.99 1355	4.54 2060	9.38 4255	13.69 6210	22.05 10,000



cim11.1 & 12.1 Full Port Heavy Pattern Ball Valves



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:** Corrosion Coat Rugged Steel w/PVC Grip
- **Handle:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000
- **Nut:** Self-Locking Type, Steel ANSI C.1008.

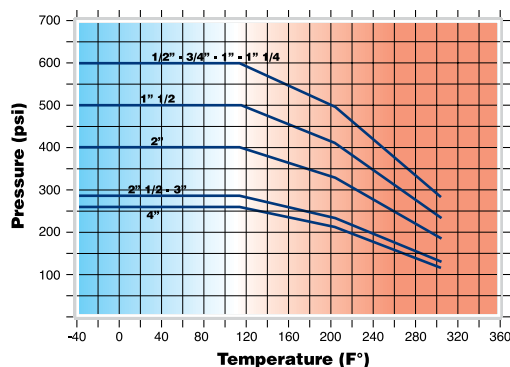
PRESSURE/TEMPERATURE RATINGS

Working Pressure: 1/2" – 1-1/4" : 600 PSI
 1-1/2" : 500 PSI
 2" : 400 PSI
 2-1/2" – 3" : 290 PSI
 4" : 261 PSI

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

Test Pressures: According to ISO 5208

Vacuum: the CIM 12.1 Ball Valve can be used for Vacuum: 2×10^{-5} PSI



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

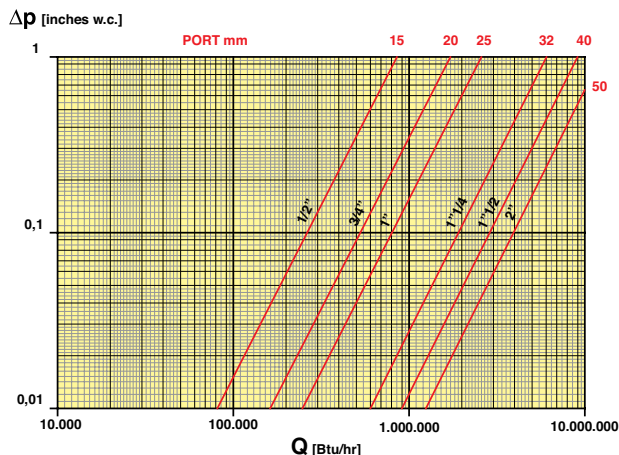
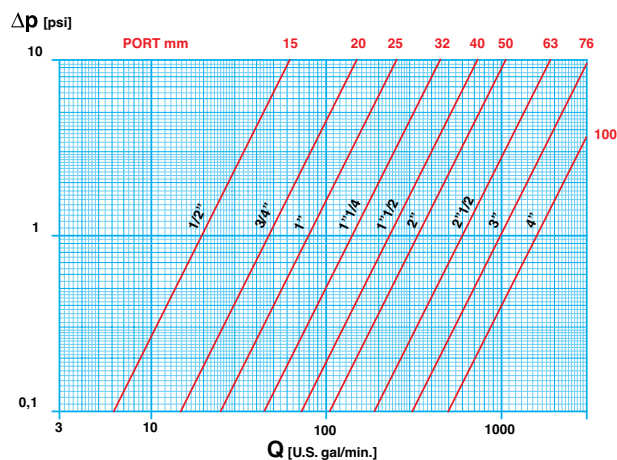
12.1	SIZE Ø mm Ø inch	1/2" 15 0.59	3/4" 20 0.79	1" 25 0.98	1-1/4" 32 1.26	1-1/2" 40 1.57	2" 50 1.97	2-1/2" 63 2.48	3" 76 2.99	4" 100 3.94
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4	601.5	983.1	1582
CM	N x m lb x in	3 27	5 44	6 53	7 62	10 89	13 115	16 142	20 177	30 266
CS	N x m lb x in	6 53	10 89	12 106	14 124	20 177	26 230	32 283	40 354	60 531
MT	N x m lb x in	10 89	24 213	24 213	45 399	90 797	90 797	280 2480	280 2480	550 4872

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

12.1	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	3,425,000	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 89	24 213	24 213	45 399	90 797	90 797

FLOW AND PRESSURE DROP



cimA12.1 Heavy Pattern Ball Valve with Nylon Isolation Handle

FIPT x FIPT

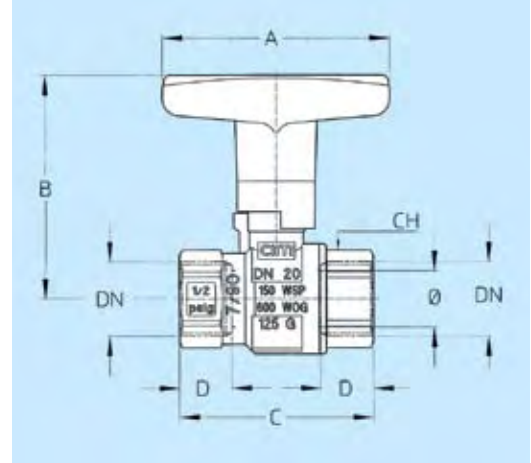


Features:

The CIM A12.1 ball valve features a nylon isolation handle to accommodate pipe insulation.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	A12-04	A12-06	A12-07	A12-08	A12-09	A12-10

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	3-1/8"	3-1/8"	3-1/8"	3-3/4"	4-5/16"	4-5/16"
	80mm	80mm	80mm	95mm	110mm	110mm
B	3-1/16"	3-1/4"	3-3/8"	3-3/4"	4-5/16"	4-9/16"
	77mm	81.5mm	85.5mm	96mm	109.5mm	116.5mm
C	2-7/16"	2-11/16"	3-1/4"	3-5/8"	4-1/4"	4-15/16"
	61mm	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
CH	1"	1-1/4"	1-9/16"	1-15/16"	2-3/16"	2-3/4"
	25mm	31mm	40mm	49mm	55mm	69mm
Pounds	0.51	0.82	1.32	2.04	3.03	4.59
Grams	230	370	600	925	1375	2080



cimB12.1 Heavy Ball Valve w/Square Head Stem & Locking System

FIPT x FIPT

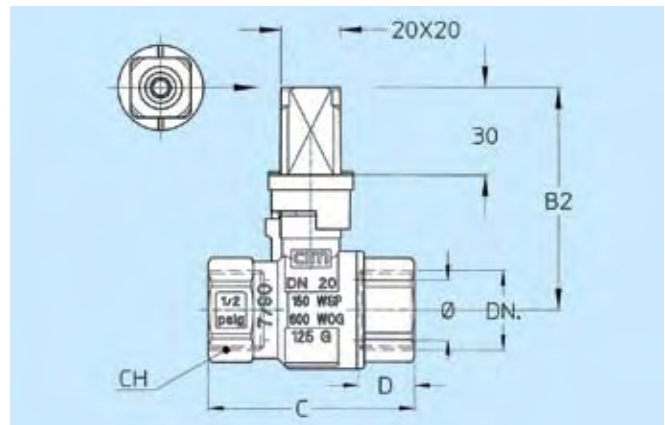


Features:

The CIM B12.1 ball valve features a locking security mechanism which is even tamper resistant to forced opening/closing. The locking mechanism is available in 12 different lock configurations and can be master keyed.

Size	1/2"	3/4"	1"	1-1/4"
Cim No.	B12-04	B12-06	B12-07	B12-08

Size	1/2"	3/4"	1"	1-1/4"
Port inch	0.59"	0.79"	0.98"	1.26"
Port mm	15mm	20mm	25mm	32mm
B1	3-3/4"	3-15/16"	4-1/8"	4-3/8"
	95mm	100.5mm	105.5mm	111mm
B2	2-3/4"	2-15/16"	3-1/16"	3-7/16"
	70mm	74.5mm	78.5mm	87mm
C	2-7/16"	2-11/16"	3-1/4"	3-5/8"
	61mm	68mm	82mm	92mm
D	11/16"	3/4"	13/16"	7/8"
	17mm	18.5mm	21mm	22.5mm
CH	1"	1-1/4"	1-9/16"	1-15/16"
	25mm	31mm	40mm	49mm
Pounds	1.21	1.49	2.01	2.69
Grams	550	675	910	1215



cim12SI.1 Heavy Pattern Ball Valve with Key Locking Handle

FIPT x FIPT

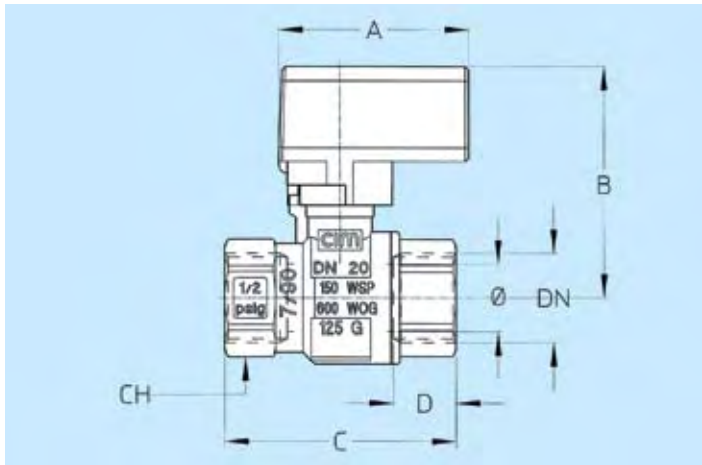


Features:

The CIM A12.1 ball valve features a locking handle that will operate in either the open or closed position, is available in 12 different lock configurations, and can be master keyed.

Size	1/2"	3/4"	1"
Cim No.	12SI-04	12SI-06	12SI-07

Size	1/2"	3/4"	1"
Port inch	0.59"	0.79"	0.98"
Port mm	15mm	20mm	25mm
A	2-3/16"	2-3/16"	2-3/16"
	56mm	56mm	56mm
B	2-1/2"	2-11/16"	2-13/16"
	64mm	68mm	72mm
C	2-7/16"	2-11/16"	3-1/4"
	61mm	68mm	82mm
D	11/16"	3/4"	13/16"
	17mm	18.5mm	21mm
CH	1"	1-1/4"	1-9/16"
	25mm	31mm	40mm
Pounds	0.88	1.17	1.71
Grams	400	530	775



cim612.1 Heavy Pattern Ball Valve with Slow Closure Handle

FIPT x FIPT

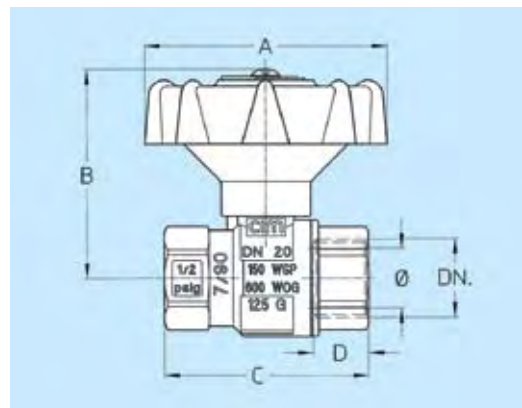


Features:

The CIM 612.1 features a speed reducing handwheel that requires a 360° rotation to open/close the valve, allowing gradual and controlled operation while preventing concussive damage and surges and vibrations in the piping system by eliminating the "water-hammer" associated with standard "on-off" ball valves.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	612-04	612-06	612-07	612-08	612-09	612-10

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	3-1/8"	3-1/8"	3-1/8"	3-1/8"	4-5/16"	4-5/16"
	80mm	80mm	80mm	80mm	110mm	110mm
B	2-5/8"	2-13/16"	2-15/16"	3-5/16"	3-15/16"	4-3/16"
	67mm	71mm	75mm	83.5mm	99mm	106.5mm
C	2-7/16"	2-11/16"	3-1/4"	3-5/8"	4-1/4"	4-15/16"
	61mm	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
CH	1"	1-1/4"	1-9/16"	1-15/16"	2-3/16"	2-3/4"
	25mm	31mm	40mm	49mm	55mm	69mm
Pounds	0.73	0.98	1.53	2.41	3.25	4.8
Grams	330	445	695	1093	1472	2176



cim209M.1 Heavy Pattern Ball Valve with Compression Ends

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

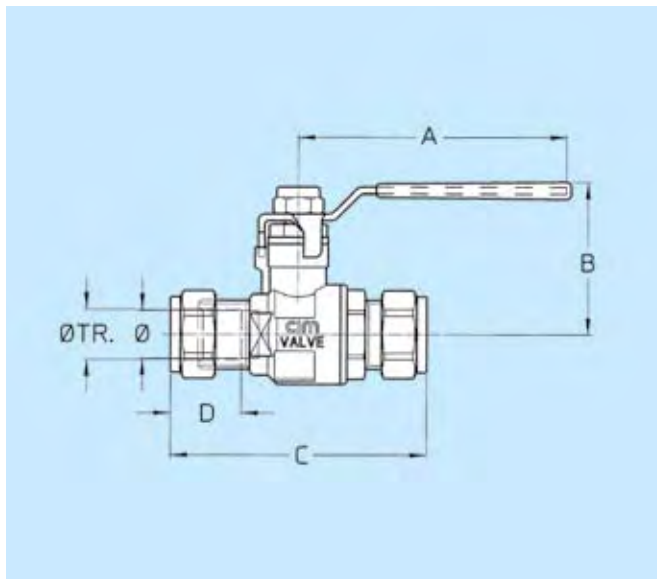


Features:

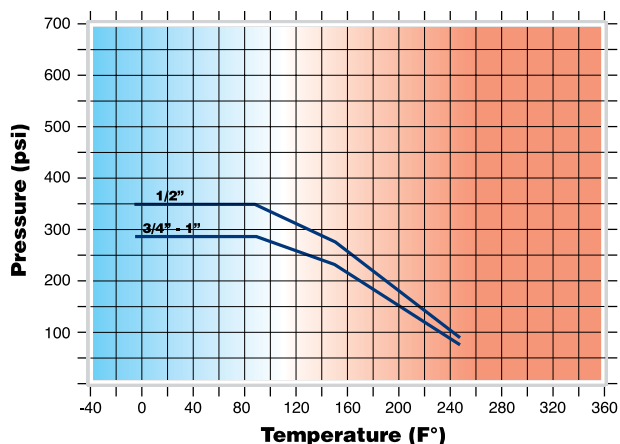
The CIM 209M.1 ball valve, which is built from the Cimberio CIM 11 building block, is a full port ball valve built with a heavy pattern body with compression ends and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	1/2"	3/4"	1"
Cim No.	209-04	209-06	209-07

Size	1/2"	3/4"	1"
Ø Copper Pipe inch	0.59"	0.87"	1.1"
Ø Copper Pipe mm	15mm	22mm	28mm
Port inch	0.57"	0.79"	0.98"
Port mm	14.5mm	20mm	25mm
A	3-1/8" 80mm	3-15/16" 100mm	3-15/16" 100mm
B	1-13/16" 46mm	2-1/16" 53mm	2-1/4" 57mm
C	3-1/16" 77mm	3-7/16" 87mm	3-3/4" 95mm
D	7/8" 21.5mm	1" 25mm	1" 26mm
CH1	15/16" 24mm	1-1/4" 32mm	1-9/16" 39mm
CH2	15/16" 24mm	1-1/4" 32mm	1-9/16" 39mm
Pounds	0.56	0.93	1.38
Grams	255	420	625



PRESSURE/TEMPERATURE RATINGS



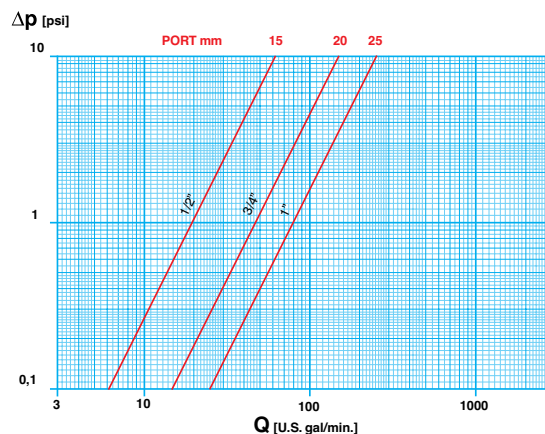
Working Pressure: 1/2" : 348 PSI, 3/4" – 1" : 290 PSI

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

Test Pressures: According to ISO 5208

Vacuum: the CIM 209M.1 Ball Valve can be used for Vacuum: 2x10⁻⁵ PSI

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

209M.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	47.4	78.7

cim200MC.1 Heavy Pattern Ball Valve with Dual Side Tap Drains

Flat Handle • FIPT x FIPT

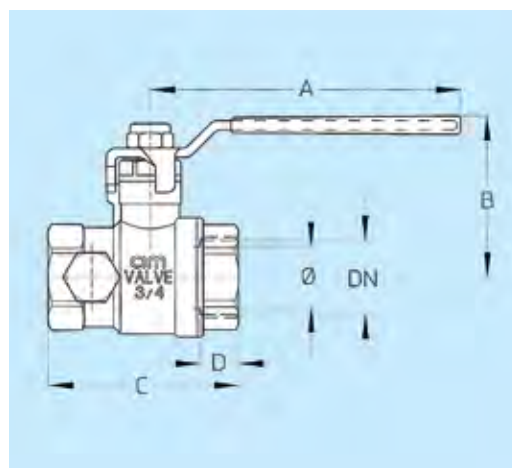


Features:

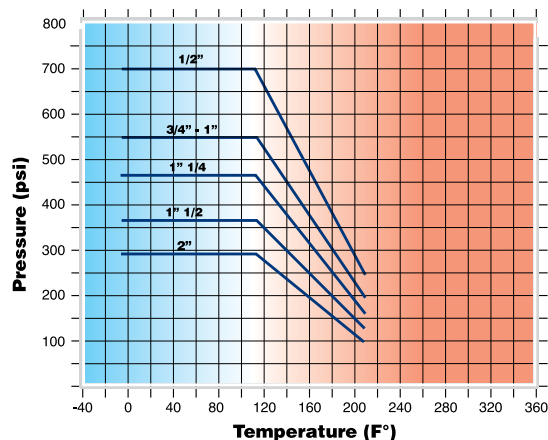
The CIM 200MC.1 ball valve, which is built from the Cimberio CIM 11 building block, is a full port ball valve built with a heavy pattern body with compression ends and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility. The CIM 200MC.1 features two tap drains on opposite sides of the forged brass valve body.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	200MC-04	200MC-06	200MC-07	200MC-08	200MC-09	200MC-10

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	3-1/8"	3-15/16"	3-15/16"	4-3/4"	5-9/16"	5-9/16"
	80mm	100mm	100mm	120mm	150mm	150mm
B	2-1/16"	2-3/16"	2-3/8"	2-7/8"	3-7/16"	3-13/16"
	52mm	56mm	60mm	73mm	88mm	96mm
C	2-1/4"	2-7/16"	3"	3-9/16"	4-1/4"	4-7/8"
	57mm	62mm	76mm	91mm	107mm	124mm
D	1/2"	1/2"	9/16"	11/16"	11/16"	13/16"
	12.5mm	12.5mm	14mm	17mm	18mm	20mm
CH	1"	1-1/4"	1-1/2"	1-7/8"	2-1/8"	2-5/8"
	25mm	31mm	38mm	47mm	54mm	66mm
Pounds	0.63	0.93	1.29	1.9	2.84	3.95
Grams	285	420	585	860	1290	1790



PRESSURE/TEMPERATURE RATINGS

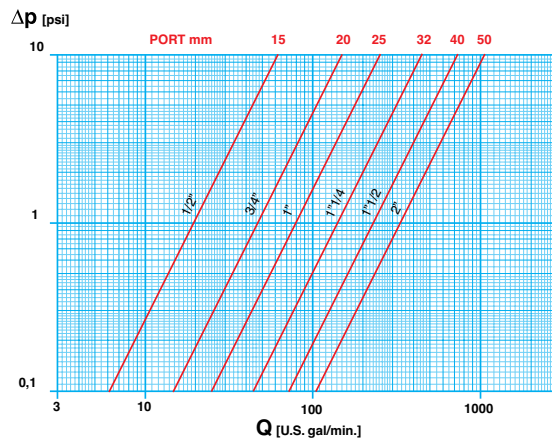


Working Pressure: 1/2" : 696 PSI
 3/4" – 1" : 551 PSI
 1-1/4" : 464 PSI
 1-1/2" : 363 PSI
 2" : 290 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

200MC.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4

cim620.1 Heavy Pattern Ball Valve with Integral Strainer

Tee Handle • FIPT x FIPT

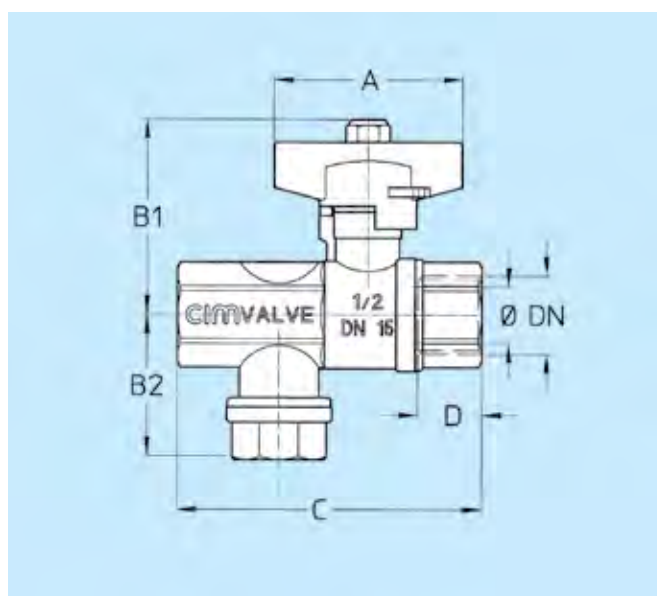


Features:

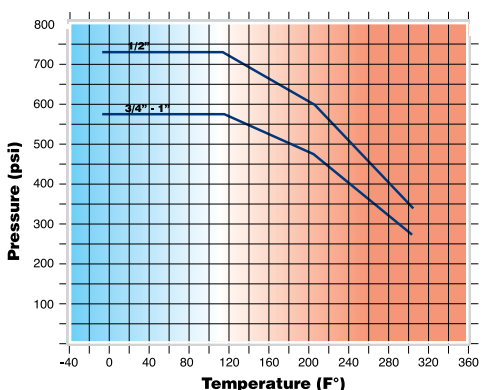
The CIM 620.1 ball valve, which is built from the Cimberio CIM 11 building block, is a full port ball valve built with a heavy pattern body that offers increased thread depth and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility. The CIM 620.1 also features an integral strainer designed to collect impurities, such as sand, rust, and metal shavings, to safeguard pipes and valves from mechanical damage and deposits. The CIM 620.1's compact design incorporates two distinct functions in one unit.

Size	1/2"	3/4"	1"
Cim No.	620-04	620-06	620-07

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
B1	2-1/16"	2-3/16"	2-3/8"
	52mm	56mm	60mm
B2	1-9/16"	1-11/16"	2"
	39mm	43mm	50mm
C	3-3/16"	3-5/8"	4-7/16"
	81mm	92mm	112mm
D	11/16"	3/4"	13/16"
	17mm	19mm	21mm
CH1	1"	1-1/4"	1-1/2"
	25mm	31mm	38mm
CH2	1"	1-3/16"	1-7/16"
	25mm	30mm	37mm
Pounds	0.71	1.15	1.51
Grams	320	520	685



PRESSURE/TEMPERATURE RATINGS



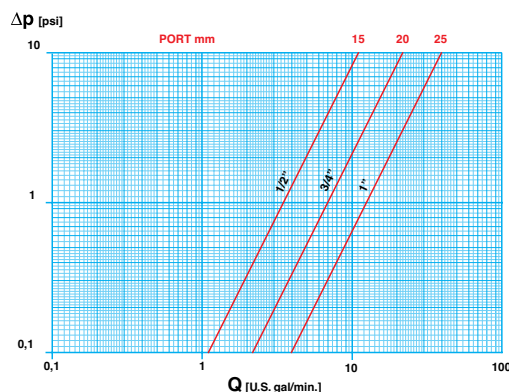
Working Pressure: 1/2" – 3/4" : 725 PSI, 1" : 580 PSI

Max. Operating Temperature: Working Limit for Fluids -4° F – 302° F

Test Pressures: According to ISO 5208

Vacuum: the CIM 620.1 Ball Valves can be used for Vacuum: 2x10⁻⁶ PSI

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

620.1	SIZE	1/2"	3/4"	1"
CV	gal/min	3.5	6.9	12.7

cim501.1 Heavy Pattern Ball Valve with Integral Stem Extension

Lever Handle • FIPT x FIPT

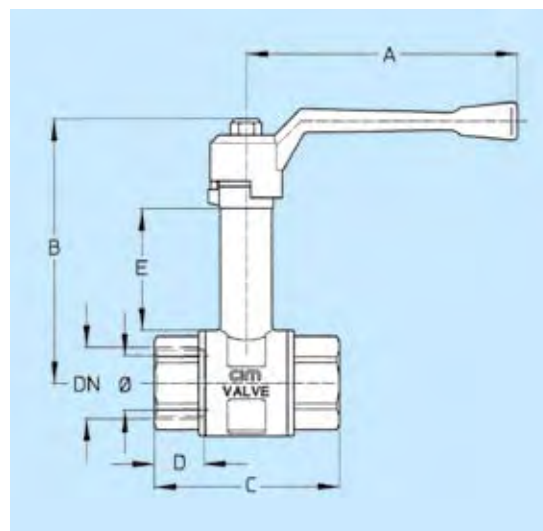


Features:

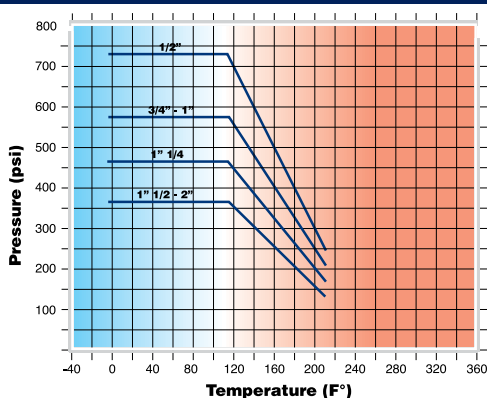
The CIM 501.1 ball valve, which is similar to the Cim 11 building block, is a full port ball valve built with a heavy pattern body that offers increased thread depth, and includes a unique blast proof/impact proof 3 part stem design with an integral stem extension that is part of the body forging. This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

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	501-04	501-06	501-07	501-08	501-09	501-10

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



PRESSURE/TEMPERATURE RATINGS



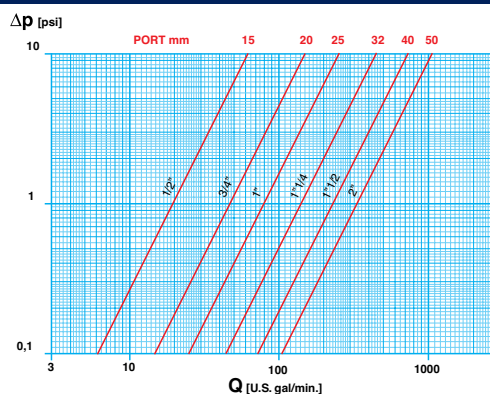
Working Pressure: 1/2" : 725 PSI
 3/4" – 1" : 580 PSI
 1-1/4" : 464 PSI
 1-1/2" – 2" : 362 PSI

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

FLOW AND PRESSURE DROP



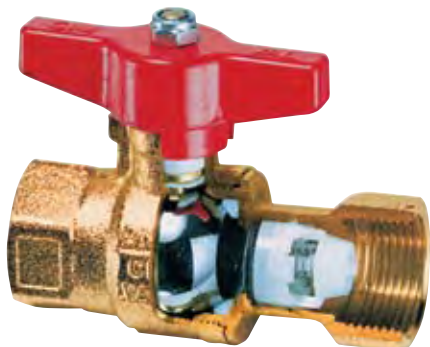
CV: Capacity in "U.S. gal/min" at pressure drop of "1 PSI"

Element: Water - Temperature: 59.9° F

501.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	gal/min	19.7	47.4	78.7	142.3	229.1	335.4

cim356.1 Heavy Pattern Ball Valve with Integral Check Valve

Tee Handle • FIPT x FIPT

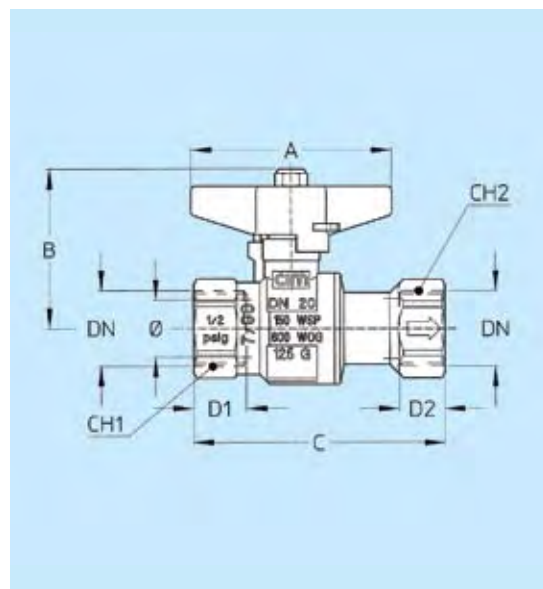


Features:

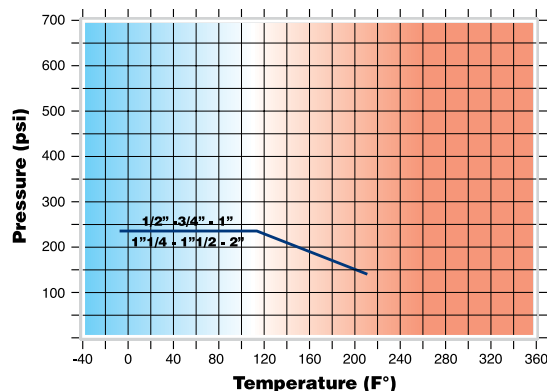
The CIM 356.1 ball valve, which is similar in design to the Cimberio CIM 11 building block, is built with a heavy pattern body that offers increased thread depth and includes a unique stem design that allows handle option flexibility. The CIM 356.1 also features an integral check valve designed to ensure limited pressure drop while maintaining security against the threat of contamination and pollution backflow. The CIM 356.1's compact design incorporates two distinct functions in one unit.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	356-04	356-06	356-07	356-08	356-09	356-10

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	2"	2-3/4"	2-3/4"	3-3/8"	3-15/16"	3-15/16"
B	2-1/16"	2-3/16"	2-3/8"	2-7/8"	3-1/2"	3-13/16"
C	2-15/16"	3-7/16"	4-3/16"	4-5/8"	5-1/2"	6-11/16"
D1	11/16"	3/4"	13/16"	7/8"	15/16"	1-1/16"
D2	5/8"	5/8"	13/16"	11/16"	3/4"	13/16"
CH1	1"	1-1/4"	1-9/16"	1-15/16"	2-3/16"	2-3/4"
CH2	1"	1-1/4"	1-1/2"	1-7/8"	2-1/8"	2-5/8"
Pounds	0.53	0.88	1.42	2.16	3.27	5.18
Grams	240	400	645	980	1485	2350



PRESSURE/TEMPERATURE RATINGS

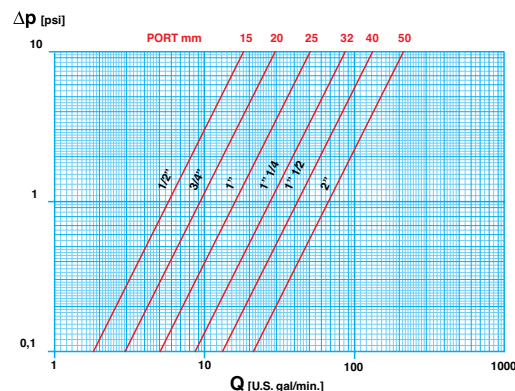


Working Pressure: 232 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

356.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	gal/min	5.8	9.3	16.2	27.7	41.6	65.9

cim204.1 Water Meter Inlet Ball Valve

FIPT x Swivel Nut



Applications:

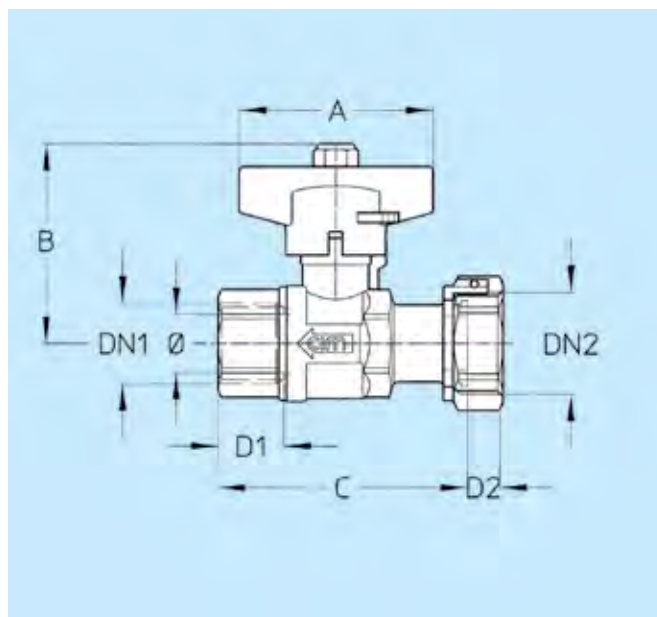
The CIM 204.1 water meter inlet ball valve, like all Cimberio ball valves designed for water meter service, is manufactured in accordance with EN ISO 9001 for use with residential and commercial water service.

Features:

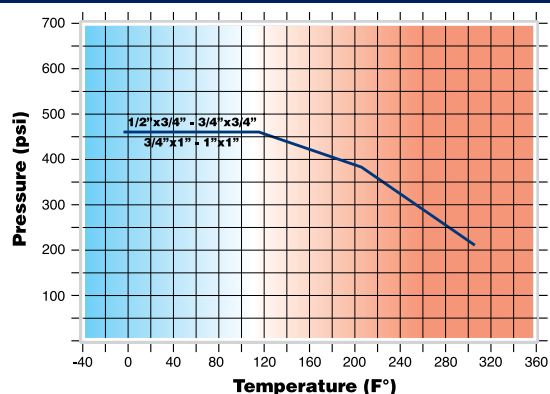
The CIM 204.1 is constructed with a lockable swivel nut for easy and quick installation of a water meter.

Size	1/2" x 3/4"	3/4" x 3/4"	3/4" x 1"	1" x 1"
Cim No.	204-0406	204-0606	204-0607	204-0707

Size DN1	1/2"	3/4"	3/4"	1"
Size DN2	3/4"	3/4"	1"	1"
Port inch	0.59"	0.59"	0.79"	0.79"
Port mm	15mm	15mm	20mm	20mm
A	2"	2"	2-3/4"	2-3/4"
	50mm	50mm	70mm	70mm
B	2-1/16"	2-1/16"	2-3/16"	2-3/16"
	52mm	52mm	56mm	56mm
C	2-1/2"	2-11/16"	3"	3-1/4"
	64mm	67.5mm	76mm	83mm
D1	11/16"	3/4"	3/4"	15/16"
	17mm	18.5mm	19mm	23mm
D2	3/8"	3/8"	3/8"	3/8"
	9mm	9mm	10mm	10mm
CH1	1"	1-1/4"	1-1/4"	1-1/2"
	25mm	31mm	31mm	38mm
CH2	1-1/4"	1-1/4"	1-7/16"	1-7/16"
	31mm	31mm	37mm	37mm
Pounds	0.54	0.63	0.93	1.04
Grams	245	285	420	470



PRESSURE/TEMPERATURE RATINGS



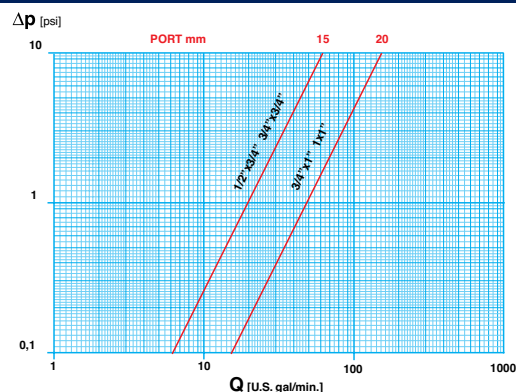
Working Pressure: 464 PSI

Max. Operating Temperature: Working Limit for Fluids -4° F – 302° F

Test Pressures: According to ISO 5208

Vacuum: The CIM204.1 ball valve can be used for vacuum: 2x10⁻⁵ PSI

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

204.1	SIZE	1/2" x 3/4"	3/4" x 3/4"	3/4" x 1"	1" x 1"
CV	gal/min	19.7	19.7	47.4	47.4

cim304.1 Water Meter Outlet Ball Valve with Integral Check Valve

FIPT x Swivel Nut



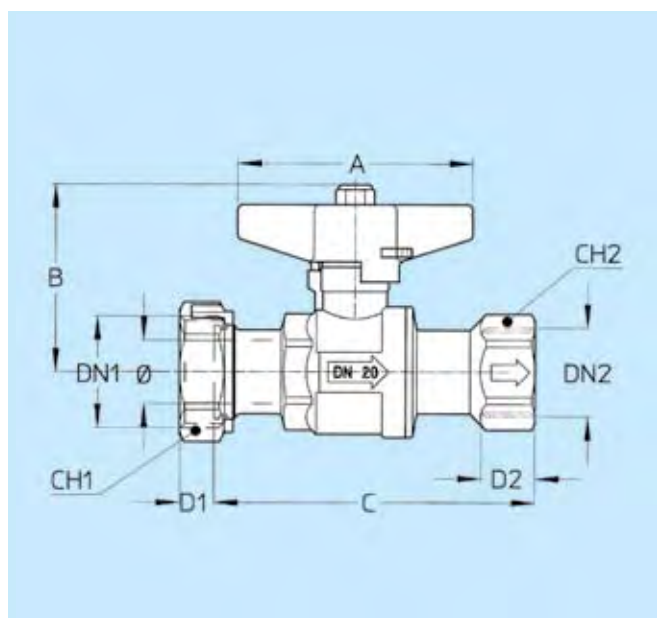
Applications & Features:

The CIM 304.1 water meter outlet ball valve is manufactured in accordance with EN ISO 9001 for use with residential and commercial water service.

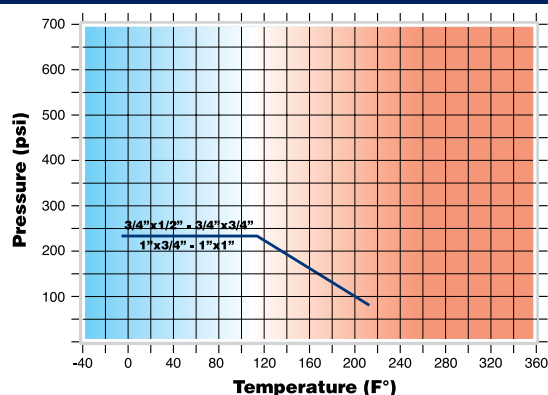
The Cim 304.1 is constructed with a lockable swivel nut to allow for easy and quick installation of a water meter. Installation times and costs are further reduced and safety improved with the inclusion of a built-in check valve designed to ensure limited pressure drop while maintaining security against the threat of contamination and pollution backflow.

Size	1/2" x 3/4"	3/4" x 3/4"	3/4" x 1"	1" x 1"
Cim No.	304-0406	304-0606	304-0607	304-0707

Size DN1	3/4"	3/4"	3/4"	1"
Size DN2	1/2"	3/4"	1"	1"
Port inch	0.59"	0.59"	0.79"	0.79"
Port mm	15mm	15mm	20mm	20mm
A	2"	2"	2-3/4"	2-3/4"
	50mm	50mm	70mm	70mm
B	2-1/16"	2-1/16"	2-3/16"	2-3/16"
	52mm	52mm	56mm	56mm
C	3-1/16"	3-5/16"	3-13/16"	4-1/16"
	78mm	84mm	96mm	103mm
D1	3/8"	3/8"	3/8"	3/8"
	9mm	9mm	10mm	10mm
D2	5/8"	5/8"	5/8"	13/16"
	15mm	16mm	16mm	20mm
CH1	1-1/4"	1-1/4"	1-7/16"	1-7/16"
	31mm	31mm	37mm	37mm
CH2	1"	1-1/4"	1-1/4"	1-1/2"
	25mm	31mm	31mm	38mm
Pounds	0.63	0.68	1.01	1.11
Grams	285	310	460	505



PRESSURE/TEMPERATURE RATINGS



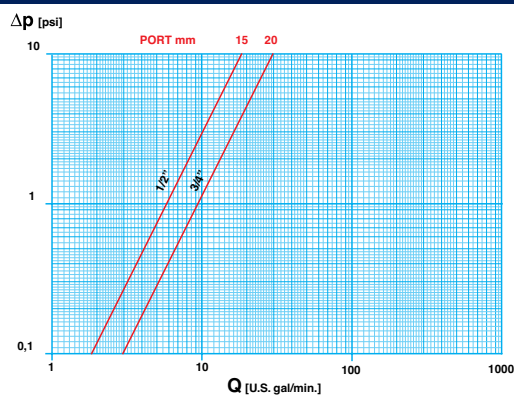
Working Pressure: 232 PSI

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

Test Pressures: According to ISO 5208

Vacuum: The CIM304.1 ball valve can be used for vacuum: 2x10⁻⁵ PSI

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

304.1	SIZE	3/4" x 1/2"	3/4" x 3/4"	1" x 3/4"	1" x 1"
CV	gal/min	5.8	5.8	9.3	9.3

cim261.1 Water Meter Installation Ball Valve

90° Flare x FIPT Shut-Off



Applications:

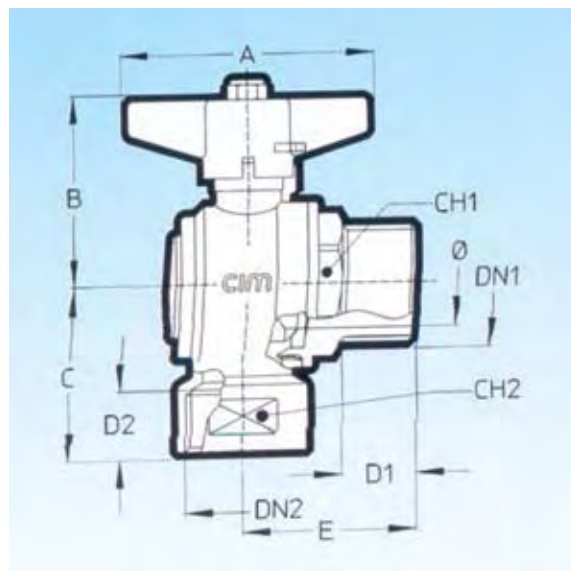
The CIM 261.1 water meter installation ball valve is manufactured in accordance with EN ISO 9000 and meets MSS SP-110 and is suitable for water meter service in residential and commercial water applications.

Features:

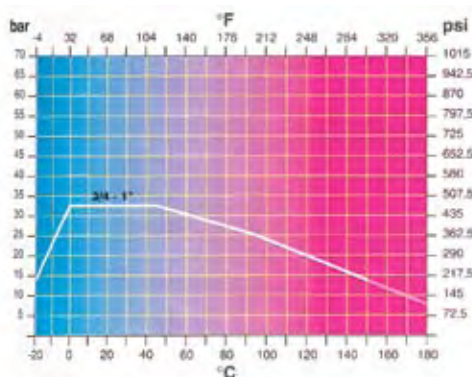
The CIM 261.1 features a 90° angle ball valve with a flare connection with nut for easy and quick installation of a water meter. The CIM 261.1 has a compact, one-piece design that eliminates unnecessary connections and leak points and reduces installation costs.

Size	3/4"	1"
Cim No.	261-06	261-07

Size Port inch Port mm	3/4" 0.79" 20mm	1" 0.98" 25mm
A	2-3/4" 70mm	2-3/4" 70mm
B	2-3/16" 56mm	2-3/8" 60mm
C	1-3/4" 45mm	1-7/8" 48mm
D1	11/16" 18mm	13/16" 21mm
D2	3/4" 20mm	11/16" 18mm
E	1-5/8" 42mm	1-15/16" 49mm
CH1	1-1/16" 27mm	1-7/16" 36mm
CH2	1-1/16" 27mm	1-1/2" 38mm
Pounds Grams	0.86 390	1.15 520



PRESSURE/TEMPERATURE RATINGS

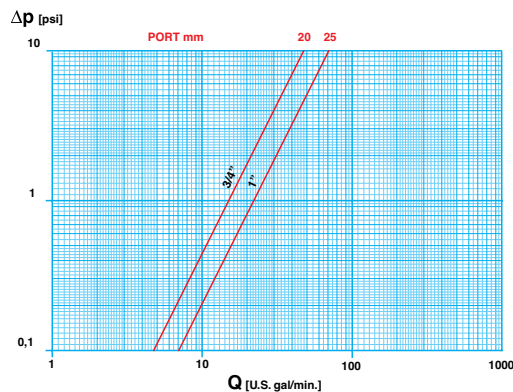


Working Pressure: 580 – 464 PSI

Max. Operating Temperature: Working Limit for Fluids -4° F – 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



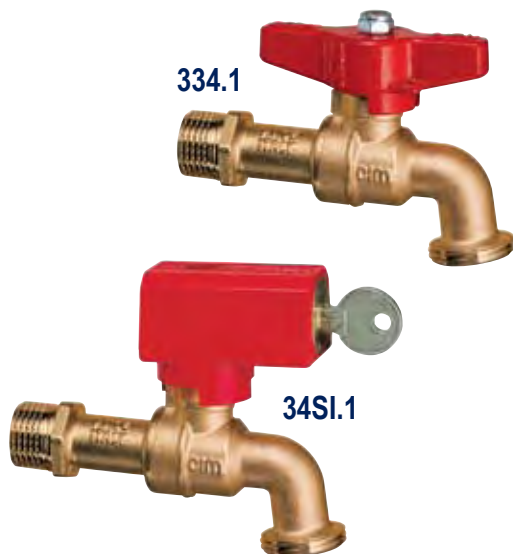
CV: Capacity in "U.S. gal/min" at pressure drop of "1 PSI"

Element: Water - Temperature: 59.9° F

261.1	SIZE	3/4"	1"
CV	gal/min	15	22

cim334.1 Ball Bib Cock cim34SI.1 Ball Bib Cock w/Locking Handle

MIPT x Garden Hose Thread



Applications:

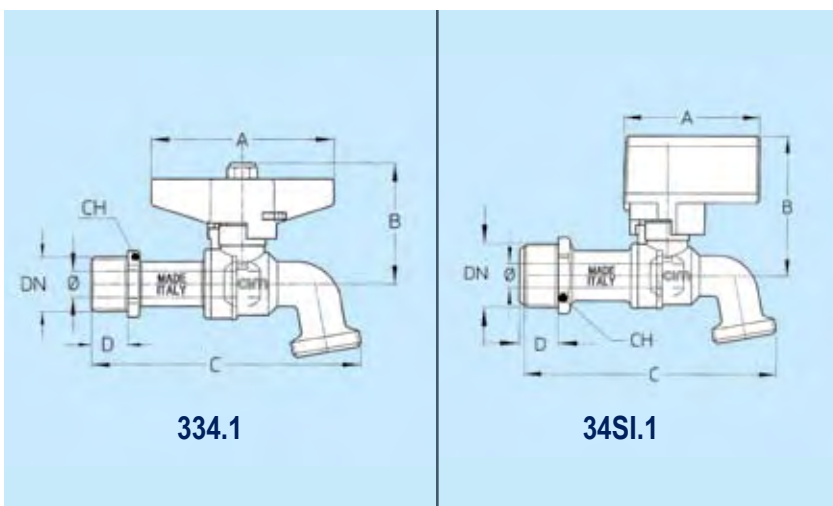
The CIM334.1 ball bib cock and the CIM 34SI.1 locking handle ball bib cock are manufactured in accordance with EN ISO 9001 and are designed for use with non aggressive fluids and gases for residential and commercial plumbing, industrial applications, agricultural systems, and condensate lines.

Features:

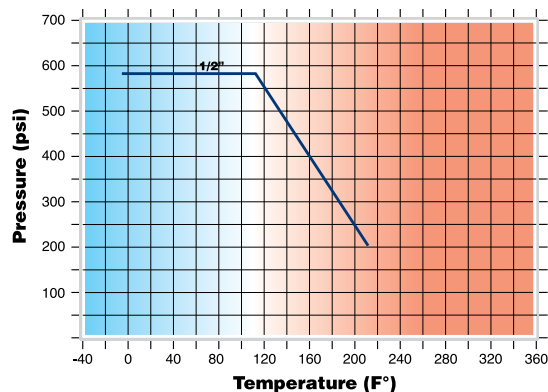
The angled through ball valve design of the CIM 334.1 and 34SI.1 provides exceptional wear resistance with maximum flow as compared to traditional bib cock design. Both of these bib cocks utilize the same unique blast proof/impact proof 3 part stem design used on the CIM 11 ball valve. The locking handle on the CIM 34SI.1 will operate in either the open or closed position and is available in 12 different lock configurations or can be master keyed.

Size	1/2" x 3/4" Hose Thread	
Cim No.	334-04	34SI-04

	334.1	34SI.1
Size	1/2"	1/2"
Port inch	0.39"	0.39"
Port mm	10mm	10mm
A	2-3/4" 70mm	2-1/4" 56mm
B	1-13/16" 46mm	2-1/4" 58mm
C	4-1/16" 103mm	4-1/16" 103mm
D	9/16" 14mm	9/16" 14mm
CH	15/16" 23mm	15/16" 23mm
Pounds	0.59	0.97
Grams	266	440



PRESSURE/TEMPERATURE RATINGS

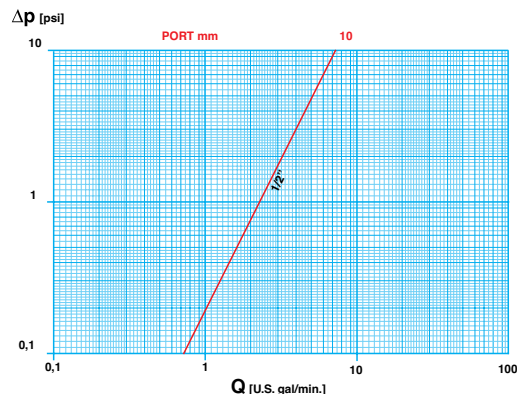


Working Pressure: 1/2" : 580 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

1/2" 334.1, 34SI.1: CV = 2.3 gal/min

cim46#.1 cimKIT™ Tankless Water Heater Valve Set

FIPT Union x FIPT, Sweat, Press or Push Connection • Includes Pressure Relief Valve



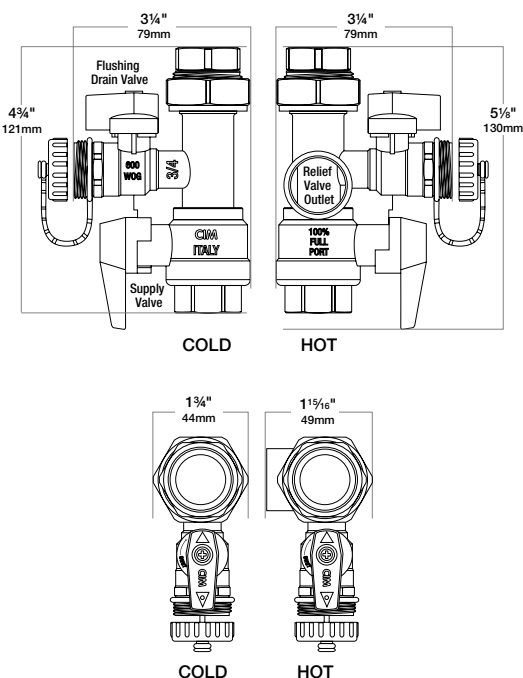
Applications:

The Cimberio CimKIT™ valve set includes one inlet and one outlet combination ball valve/union/drain and one pressure relief valve that are used in the installation of tankless water heaters.

Features:

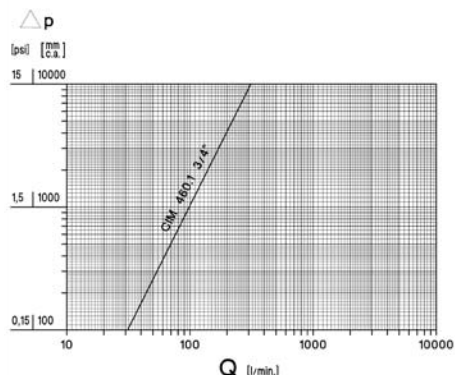
The Cimberio CimKIT™ is an integrated valve set combining the functions of up to ten fittings to provide quick and easy installation of tankless water heaters. CimKIT's™ integrated design eliminates the need for field fabrications which could result in potential weak/leak points and increased material and labor costs. The two valve assemblies include: integrated union adapters for direct connection to the cold water inlet and hot water outlet of the tankless water heater, integrated full port supply ball valves, and integrated full port system flushing/drain ball valves with hose thread connections and linked caps. The hot water valve assembly includes an outlet access port for the included ASME rated 150 PSI relief valve. The CimKIT™ valve assemblies also feature 1/4-turn, forward facing, color coded handles that remain easily accessible, even when installed in recess boxes. CimKIT™ is available in four connections: FIPT, Sweat, Press (for connection to copper or stainless steel tube using standard crimp press tools) or Push (for connection to copper tube, PEX pipe or CPVC pipe without the need for tools, glue, or solder).

The Cimberio CimKIT™ is also available in a "No-Lead" model with threaded or sweat connections for compliance with California AB1953 and Vermont S.1952. "No-Lead" models are available with a lead free pressure relief valve.



Size	Connection	Cim No.
3/4"	FIPT	460-06-KIT
3/4"	Sweat	461-06-KIT
3/4"	Press	462-06-KIT
3/4"	Push	467-06-KIT

FLOW AND PRESSURE DROP



No-Lead Models		
Size	Connection	Cim No.
3/4"	FIPT	460NL-06-KIT
3/4"	Sweat	461NL-06-KIT

All valve kits include integrated union adapters for direct connection to cold water inlet and hot water outlet of the tankless water heater. Valve kits include integrated full port supply valves and full port system flushing/drain valves with linked cap. *Hot water valve assembly includes outlet access port for included (unless otherwise noted) ASME rated 150 PSI relief valve.

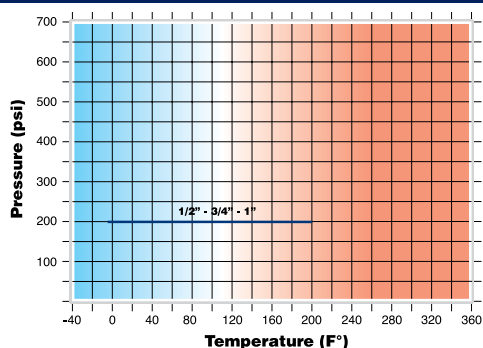
cim820.1 cimPUSH™ Full Port Ball Valve

Push Connection for Copper, PEX, and CPVC



Size	1/2"	3/4"	1"
Cim No.	820-04	820-06	820-07

PRESSURE/TEMPERATURE RATINGS



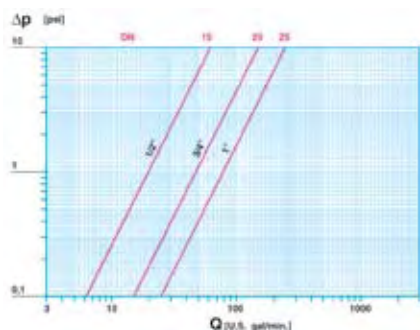
Working Pressure: 200 PSI

Max. Operating Temperature:

Working Limit for Fluids -4° F – 200° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

820.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	47.4	78.7

NOTE: CimPUSH valves should not be heated to over 250° F. You should not solder or braze within 12" of a CimPUSH valve. CimPUSH valves should not be installed within 18" of a hot water heater.

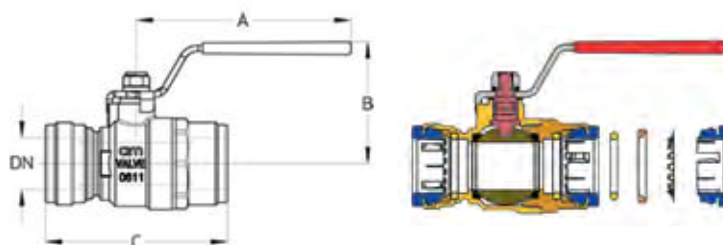
Applications:

The CIM 820.1 CimPUSH™ ball valve is manufactured in accordance with EN ISO 9001 and is designed with a push connection that allows for quick, permanent connections to copper tube, PEX pipe or CPVC pipe in any combination without the need for tools, clamps or solder. Applications include heating, potable water and sanitation systems for residential and commercial plumbing.

Features:

The CIM 820.1 CimPUSH™ ball valve allows for quick and easy connections in both wet and dry conditions, making it ideal for repair jobs. CimPUSH™ ball valves feature a blowout proof stem and include free inserts for connection to PEX pipe.

Size Port inch Port mm	1/2" 0.625" 16mm	3/4" 0.875" 22mm	1" 1.125" 28.5mm
A	3-9/16" 90mm	3-9/16" 90mm	4-5/16" 110mm
B	1-7/8" 47.5mm	2-1/16" 52mm	2-1/4" 56.5mm
C	2-11/16" 68mm	3-1/16" 77mm	3-5/8" 92mm
Pounds Grams	0.47 213	0.72 326	1.18 535
Required Pipe Insertion Depth	0.81" 20.5mm	0.91" 23.1mm	1.02" 25.9mm



Materials:

Body: Hot Forged Brass ASTM C37700

Adaptor: Hot Forged Brass ASTM C37700

Ball: Brass, Machined to a Micro-Smooth Finish, Chromium Plated

Stem: 36600 Bar Stock

Ball Seats: Conical Rings in P.T.F.E.

Stem Seal: Two O-Rings in NBR

O-Ring: EPDM 70 Perox

Washer: Nylon 6

Grip: AISI 304 Steel

Ring: Nylon 6

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

Handle: Zinc Plated Steel with PVC Grip

CimPUSH is approved for use on K, L, and M hard copper tubing, cross-linked polyethylene (PEX) pipe, and chlorinated polyvinyl chloride (CPVC) pipe. CimPUSH is not intended for use on soft copper tubing or polybutylene (PB) pipe.

cim865.1 cimPEX™ Full Port Ball Valve

PEX x PEX



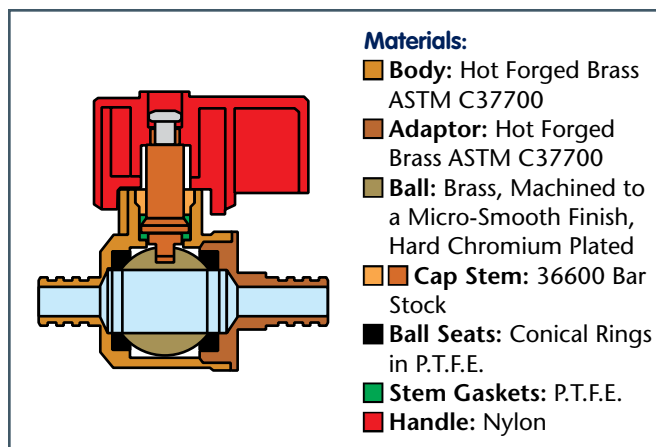
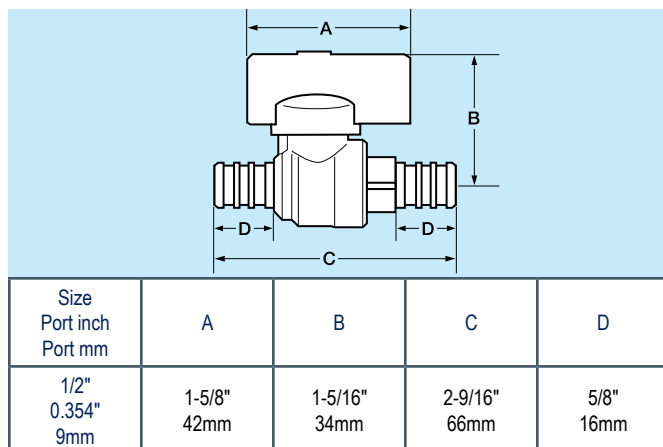
Applications:

The CIM 865.1 CimPEX™ ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with PEX (cross linked polyethylene) tubing in residential applications including hydronic radiant heating and hot and cold water plumbing systems.

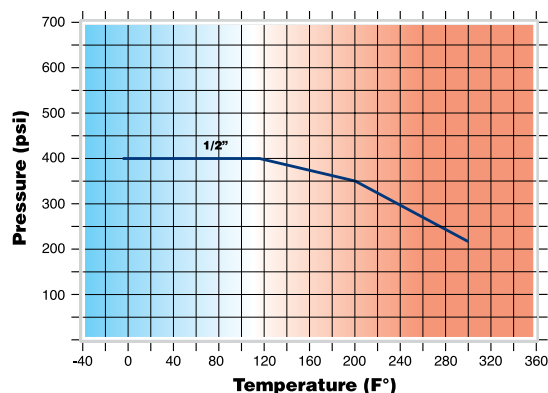
Features:

The CIM 865.1 CimPEX™ is a full port ball valve with a blast/ impact proof stem. Its integrated design eliminates the need for PEX to thread adapters. CimPEX ball valves feature stabilizing "feet" on the bottom of the valve body that secure the valve position; preventing strain on the tubing and connections and allowing for a more professional installation.

Size	1/2"
Cim No.	865-04



PRESSURE/TEMPERATURE RATINGS

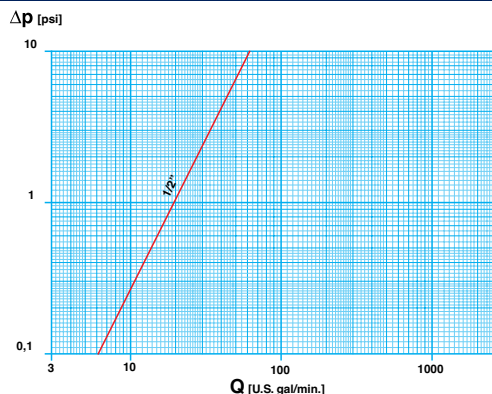


Working Pressure: 400 PSI

Max. Operating Temperature: Working Limit for Fluids -4° F – 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

865.1	SIZE	1/2"
CV	gal/min	19.7

cim220L.1 cimPRESS™ Full Port Ball Valve

CimPRESS x CimPRESS • IAPMO/UPC & NSF-61 Approved



Applications:

CIM 220L.1 CimPRESS™ ball valves are manufactured in accordance with MSS-SP-110, PS117-2004, and EN ISO 9001 standards and are designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. CimPRESS™ ball valves are suitable for use with nonaggressive fluid applications including residential, industrial, and agricultural systems. (CimPRESS is not intended for use with soft or rolled copper tubing)

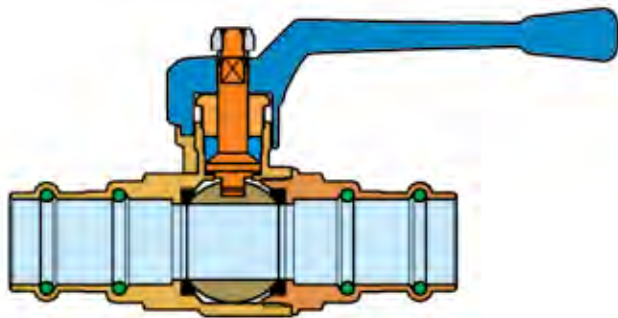
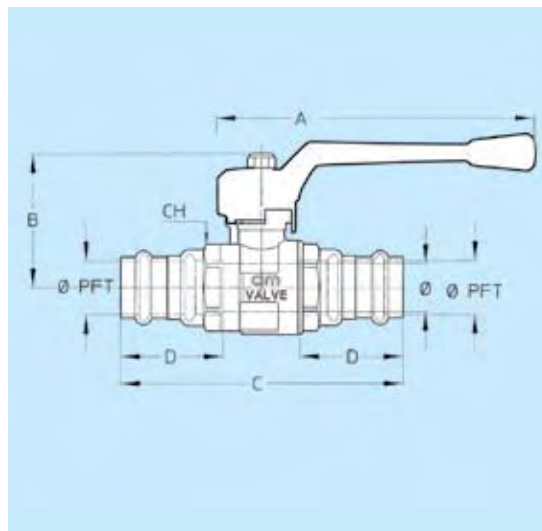
Features:

CimPRESS™ ball valves are manufactured from DZR "CR" corrosion-resistant brass and feature double EPDM-ASTM D 2000 M2 O-rings to insure a leak proof cold crimped seal. CimPRESS™ ball valves include a unique blast proof/impact proof stem design that allows handle option flexibility.

All 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.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	220-04	220-06	220-07	220-08	220-09	220-10

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	3-15/16" 100mm	5-1/2" 140mm	5-1/2" 140mm	6-5/8" 170mm	7-7/8" 200mm	7-7/8" 200mm
B	2-1/16" 52mm	2-3/16" 56mm	2-3/8" 60mm	2-7/8" 72.5mm	3-1/2" 88.5mm	3-3/4" 95.5mm
C	4-3/16" 106mm	4-3/4" 120mm	5" 127.5mm	5-1/4" 133mm	6-1/8" 155mm	7-1/8" 180mm
D	1-9/16" 40mm	1-3/4" 44mm	1-3/4" 44mm	1-11/16" 43mm	1-15/16" 48.5mm	2-1/8" 54.5mm
CH	15/16" 24mm	1-1/4" 32mm	1-1/2" 38mm	1-7/8" 48mm	2-3/16" 55mm	2-11/16" 68mm
Pounds Grams	0.57 260	0.96 435	1.29 585	2.01 910	3.12 1410	4.38 1985
Required Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm

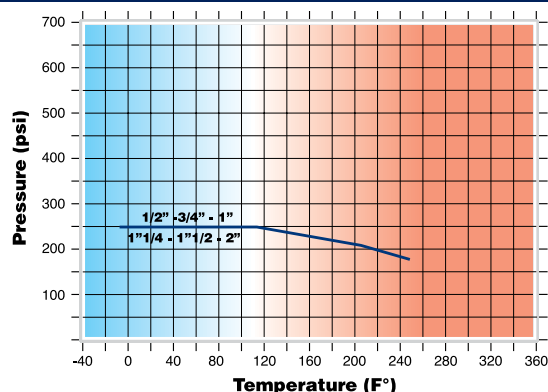


Materials:

- **Body:** Hot Forged Brass ASTM C37700
- **Ball:** Brass, Machined to a Micro-Smooth Finish, Hard Chromium Plated
- **Stem:** 36600 Bar Stock
- **Ball Seats:** Conical Rings in P.T.F.E.
- **Stem Seal:** Two O-Rings in FPM.
- **O-Ring:** EPDM - ASTM D 2000 M2.
- **Handle:** Aluminum
- **Nut:** Self-Locking Type, Steel ANSI C.1008

cim220L.1 cimPRESS™ Full Port Ball Valve

PRESSURE/TEMPERATURE RATINGS

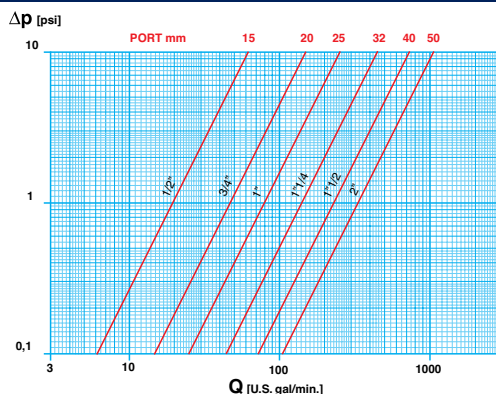


Working Pressure: 1/2" – 2" : 250 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

220.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	gal/min	19.7	47.5	78.7	142.3	229.1	335.4

cim220G.1 cimPRESS™ Full Port Ball Valve for Gas Services



Features:

The CimPRESS™ CIM 220G.1 ball valve is similar to the CIM 220L.1 but features double HNBR O-rings for natural gas and propane applications. The O-rings as well as the valve's handle are colored yellow for easy identification. The CIM 220G.1 is CSA approved.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	220G-04	220G-06	220G-07	220G-08	220G-09	220G-10

cim220DK.1 cimPRESS™ Full Port Ball Valve for Petroleum Services



Features:

The CimPRESS™ CIM 220DK.1 ball valve is similar to the CIM 220L.1 but features double HNBR O-rings for petrochemical applications. The O-rings as well as the valve's handle are colored black for easy identification.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	220DK-04	220DK-06	220DK-07	220DK-08	220DK-09	220DK-10

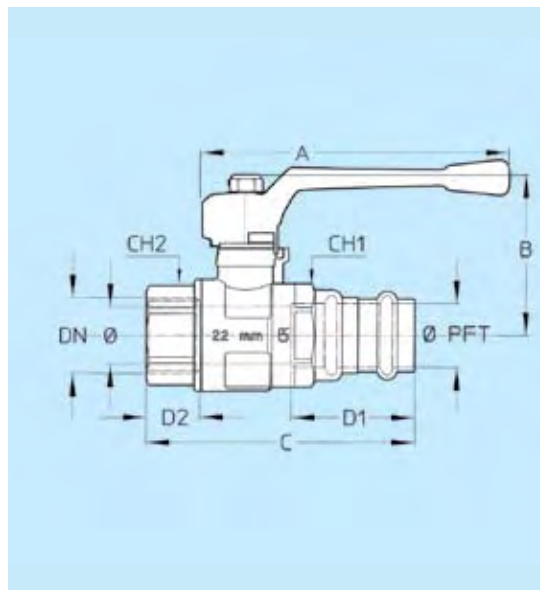
cim221.1 cimPRESS™ Full Port Ball Valve

CimPRESS x FIPT



Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	221-04	221-06	221-07	221-08	221-09	221-10

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"	5-1/2"	5-1/2"	6-5/8"	7-7/8"	7-7/8"
	100mm	140mm	140mm	170mm	200mm	200mm
B	2-1/16"	2-3/16"	2-3/8"	2-7/8"	3-1/2"	3-3/4"
	52mm	56mm	60mm	72.5mm	88.5mm	95.5mm
C	3-5/16"	3-11/16"	4-1/8"	4-7/16"	5-1/8"	6"
	83.5mm	94mm	105mm	112.5mm	131mm	152.5mm
D1	1-9/16"	1-3/4"	1-3/4"	1-11/16"	1-15/16"	2-1/8"
	40mm	44mm	44mm	43mm	48.5mm	54.5mm
D2	11/16"	3/4"	13/16"	7/8"	15/16"	1-1/16"
	17mm	18.5mm	21mm	22.5mm	23mm	26.5mm
CH1	15/16"	1-1/4"	1-1/2"	1-7/8"	2-3/16"	2-11/16"
	24mm	32mm	38mm	48mm	55mm	68mm
CH2	1"	1-1/4"	1-9/16"	1-15/16"	2-3/16"	2-3/4"
	25mm	31mm	40mm	49mm	55mm	69mm
Pounds	0.53	0.88	1.31	2.06	3.01	4.52
Grams	240	400	595	935	1365	2050



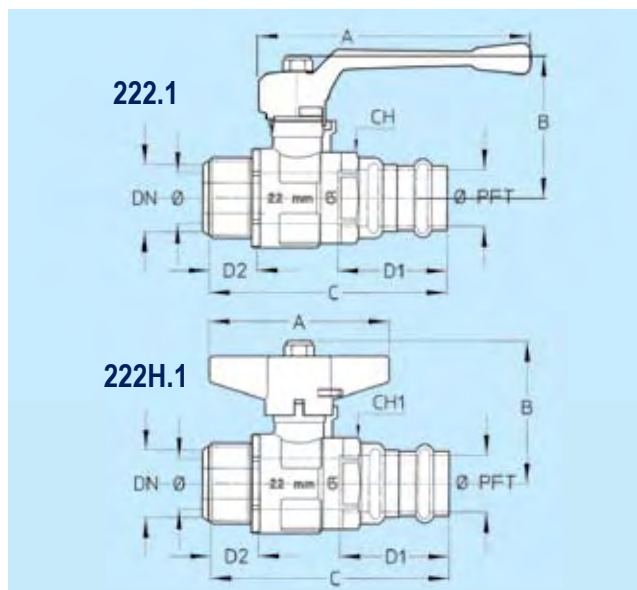
cim222.1 & cim222H.1 cimPRESS™ Full Port Ball Valves

CIM 222.1: CimPRESS x MIPT • CIM 222H.1 CimPRESS x Male Garden Hose Thread



Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	222-04	222-06	222-07	222-08	222-09	222-10
Cim No.	222H-04	222H-06	222H-07	N/A	N/A	N/A

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"	5-1/2"	5-1/2"	6-5/8"	7-7/8"	7-7/8"
	100mm	140mm	140mm	170mm	200mm	200mm
A	2"	2-3/4"	2-3/4"	N/A		
	50mm	70mm	70mm			
B	2-1/16"	2-3/16"	2-3/8"	2-7/8"	3-1/2"	3-3/4"
	52mm	56mm	60mm	72.5mm	88.5mm	95.5mm
C	3-5/16"	3-11/16"	4-1/8"	4-7/16"	5-1/8"	6"
	83.5mm	94mm	105mm	112.5mm	131mm	152.5mm
D1	1-9/16"	1-3/4"	1-3/4"	1-11/16"	1-15/16"	2-1/8"
	40mm	44mm	44mm	43mm	48.5mm	54.5mm
D2	11/16"	3/4"	13/16"	7/8"	15/16"	1-1/16"
	17mm	18.5mm	21mm	22.5	23mm	26.5mm
CH	15/16"	1-1/4"	1-1/2"	1-7/8"	2-3/16"	2-11/16"
	24mm	32mm	38mm	48mm	55mm	68mm
Pounds	0.53	0.88	1.31	2.06	3.01	4.52
Grams	240	400	595	935	1365	2050



cim215.1 cimPRESS™ 90° Angle Body Full Port Ball Valve

CimPRESS x FIPT

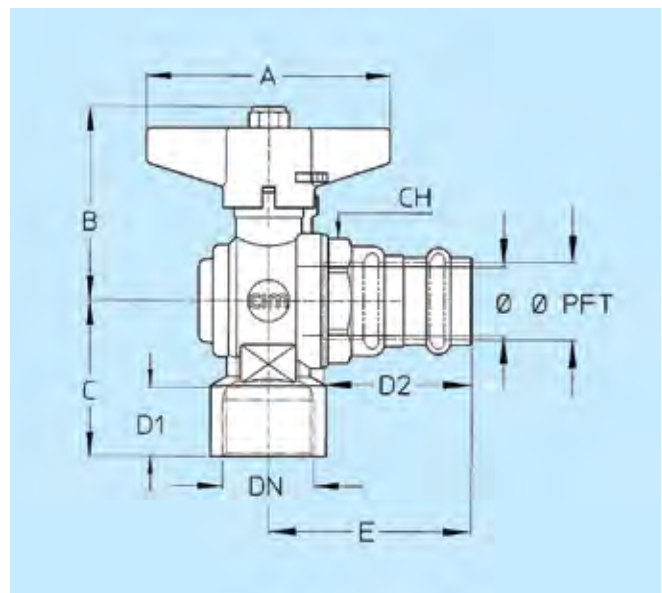


Features:

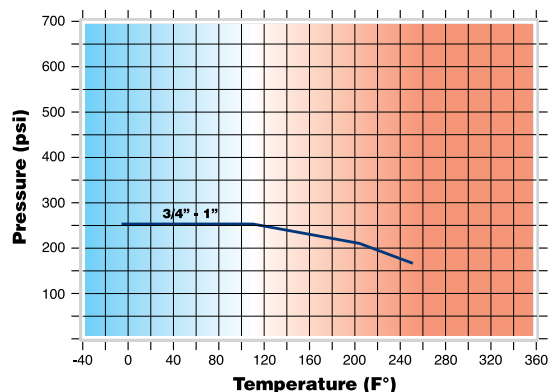
The CimPRESS™ CIM 215.1 ball valve features an integrated design that combines the functions of an elbow, nipple, ball valve, and press-to-thread adaptor in one unit; making it ideal for tight spaces or as an individual shut-off.

Size	3/4"	1"
Cim No.	215-06	215-07

Size Port inch Port mm	3/4" 0.79" 20mm	1" 0.98" 25mm
A	2-3/4" 70mm	2-3/4" 70mm
B	2-3/16" 56mm	2-3/8" 60mm
C	1-3/4" 45mm	2" 50.5mm
D1	13/16" 20mm	13/16" 21mm
D2	1-3/4" 44mm	1-3/4" 44mm
E	2-3/8" 60mm	2-9/16" 65mm
CH	1-1/4" 32mm	1-1/2" 38mm
Pounds Grams	0.94 425	1.16 525



PRESSURE/TEMPERATURE RATINGS

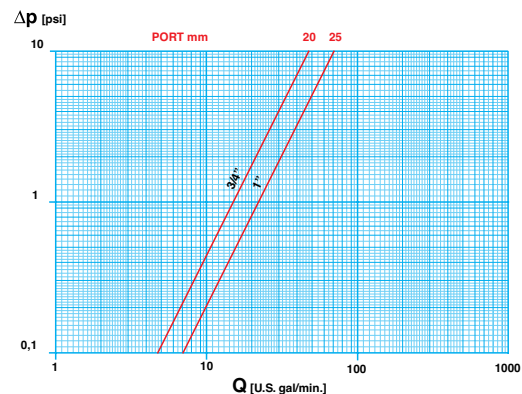


Working Pressure: 250 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

215.1	SIZE	3/4"	1"
CV	gal/min	15	22

cim218.1 cimPRESS™ Full Port Water Meter Ball Valve

CimPRESS x FIPT Swivel Nut

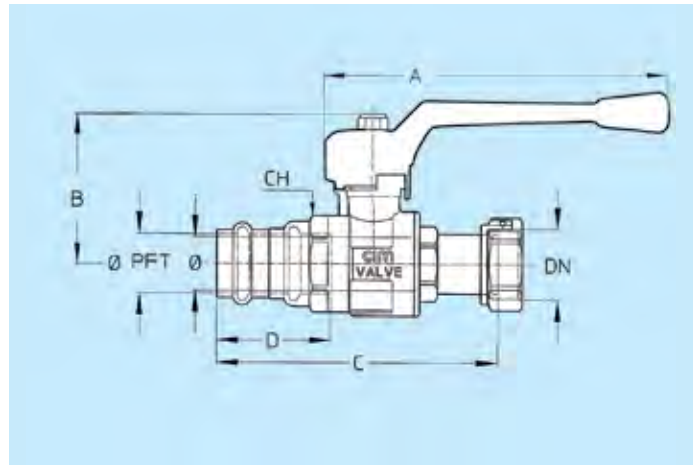


Features:

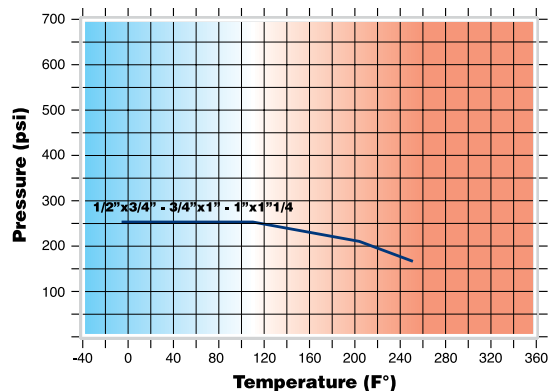
The CimPRESS™ CIM 218.1 ball valve features a lockable swivel nut to allow for easy and quick installation of a water meter or other appliance with minimum difficulty.

Size	1/2" x 3/4"	3/4" x 3/4"	3/4" x 1"	1" x 1"
Cim No.	218-0406	218-0606	218-0607	218-0707

Size Port inch Port mm	1/2" x 3/4" 0.59" 15mm	3/4" x 3/4" 0.79" 20mm	3/4" x 1" 0.79" 20mm	1" x 1-1/4" 0.98" 25mm
A	3-5/16" 100mm	5-1/2" 140mm	5-1/2" 140mm	5-1/2" 140mm
B	2-1/16" 52mm	2-1/16" 52mm	2-3/16" 56mm	2-3/8" 60mm
C	3-7/8" 97.5mm	4" 101mm	4-3/16" 107mm	4-7/16" 112.5mm
D	1-9/16" 40mm	1-3/4" 44mm	1-3/4" 44mm	1-3/4" 44mm
CH	15/16" 24mm	1-1/4" 32mm	1-1/4" 32mm	1-1/2" 38mm
Pounds	0.72	1.09	1.09	1.47
Grams	325	495	495	670



PRESSURE/TEMPERATURE RATINGS

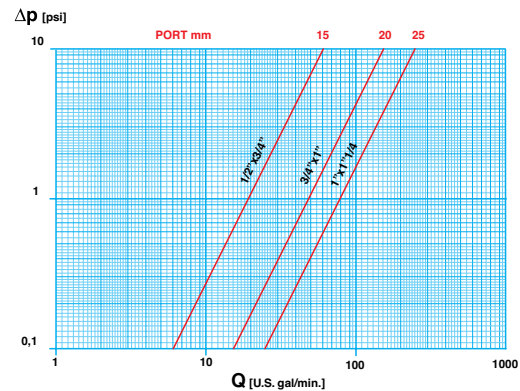


Working Pressure: 250 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

218.1	SIZE	1/2" x 3/4"	3/4" x 3/4"	3/4" x 1"	1" x 1-1/4"
CV	gal/min	19.7	47.4	47.4	78.6

cim226.1 cimPRESS™ Full Port Ball Valve with Integral Strainer

CimPRESS x FIPT

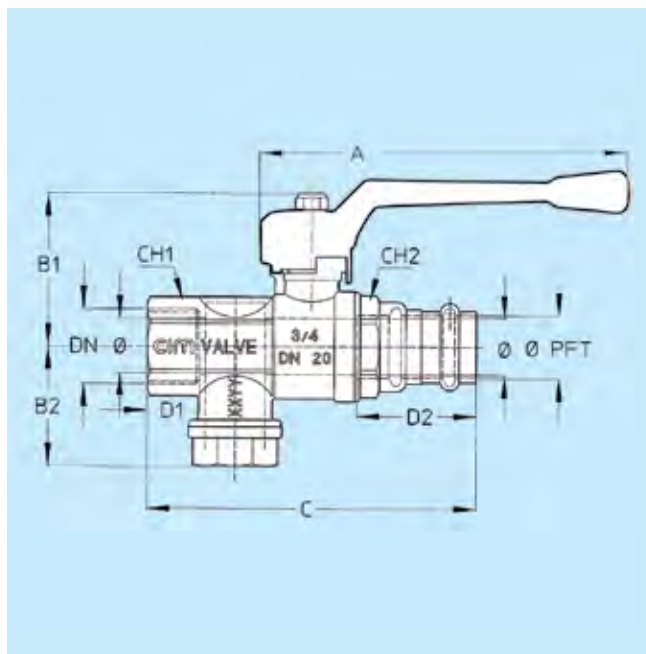


Features:

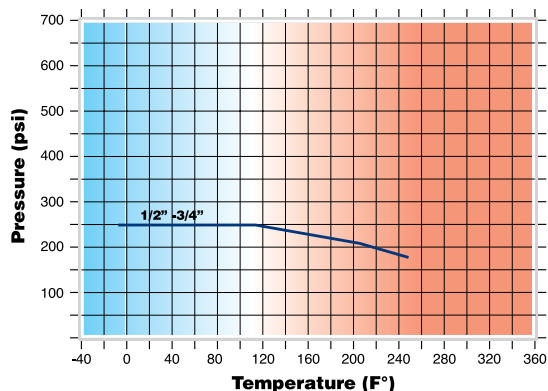
The CimPRESS™ CIM 226.1 ball valve features an integral strainer designed to collect impurities such as sand, rust, and metal shavings to safeguard pipes and valves from mechanical damage and deposits. The CIM 226.1's compact design incorporates two distinct functions in one unit; saving space, time and money and making this valve particularly well suited for OEM applications.

Size	1/2"	3/4"
Cim No.	226-04	226-06

Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.79" 20mm
A	3-15/16" 100mm	5-1/2" 140mm
B1	2-1/16" 52mm	2-3/16" 56mm
B2	1-1/2" 52mm	1-11/16" 42.5mm
C	4-1/8" 104mm	4-11/16" 118mm
D1	11/16" 15.5mm	3/4" 18.5mm
D2	1-9/16" 40mm	1-3/4" 44mm
CH1	1" 25mm	1-1/4" 31mm
CH2	15/16" 24mm	1-1/4" 32mm
Pounds	0.77	1.22
Grams	350	555



PRESSURE/TEMPERATURE RATINGS

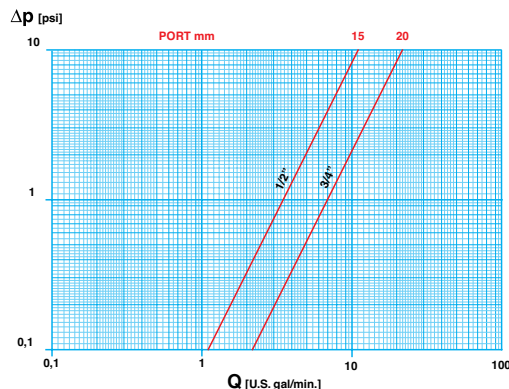


Working Pressure: 250 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

226.1	SIZE	1/2"	3/4"
CV	gal/min	3.5	6.9

cim225.1 cimPRESS™ Full Port Ball Valve w/Integral Stem Extension

CimPRESS x CimPRESS

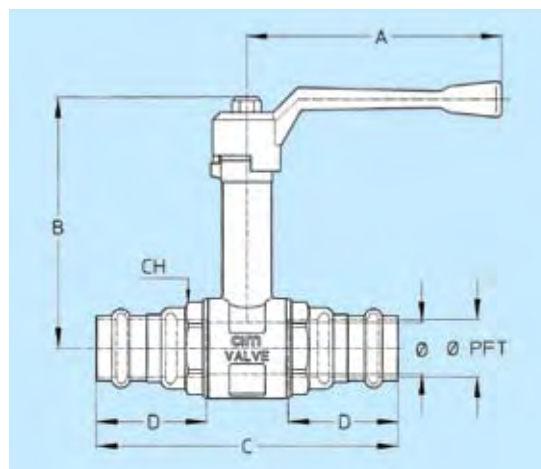


Features:

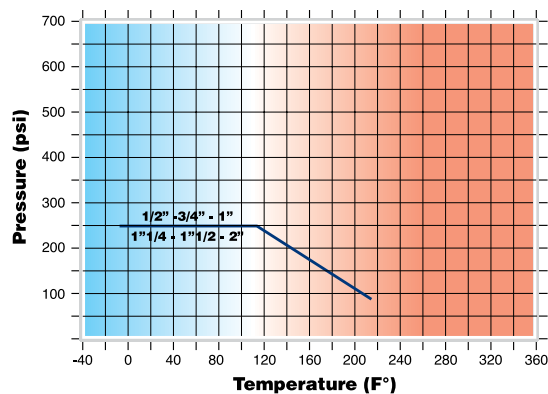
The CimPRESS™ CIM 225.1 ball valve features an integral stem extension that is part of the body forging. This superior design locates the stem seal, cap stem, and stem nut at the end of the stem extension to accommodate pipe insulation and eliminates potential leak points typically found with standard stem extension kits.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	225-04	225-06	225-07	225-08	225-09	225-10

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"	5-1/2"	5-1/2"	6-5/8"	7-7/8"	7-7/8"
	100mm	140mm	140mm	170mm	200mm	200mm
B	3-11/16"	3-7/8"	4-5/16"	4-7/8"	5-13/16"	6-1/8"
	94mm	97.5mm	112.5mm	124mm	148mm	155mm
C	4-3/16"	4-3/4"	5"	5-1/4"	6-1/8"	7-1/8"
	106.5mm	120mm	127.5mm	133.5mm	155.5mm	180.5mm
D	1-9/16"	1-3/4"	1-3/4"	1-11/16"	1-15/16"	2-1/8"
	40mm	44mm	44mm	43mm	48.5mm	54.5mm
CH	15/16"	1-1/4"	1-1/2"	1-7/8"	2-3/16"	2-11/16"
	24mm	32mm	38mm	48mm	55mm	68mm
Pounds	0.85	1.2	1.74	2.45	3.88	5.58
Grams	385	545	790	1110	1760	2530



PRESSURE/TEMPERATURE RATINGS

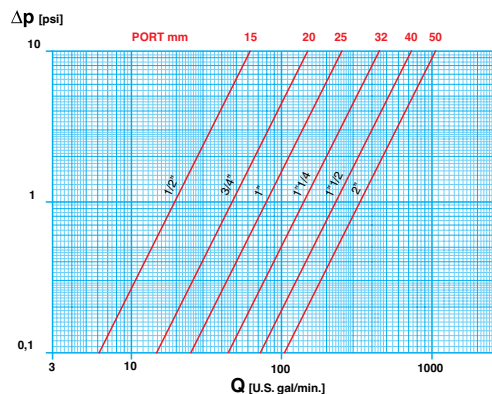


Working Pressure: 250 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

225.1	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	gal/min	19.7	47.5	78.7	142.3	229.1	335.4

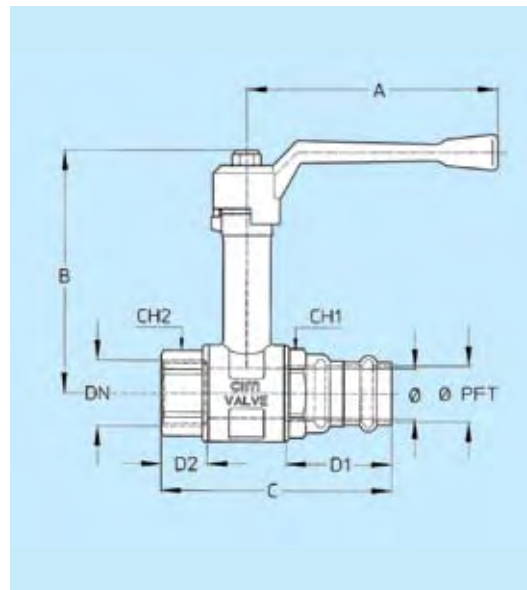
cim241.1 cimPRESS™ Full Port Ball Valve w/Integral Stem Extension

CimPRESS x FIPT



Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	241-04	241-06	241-07	241-08	241-09	241-10

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"	5-1/2"	5-1/2"	6-5/8"	7-7/8"	7-7/8"
	100mm	140mm	140mm	170mm	200mm	200mm
B	3-11/16"	3-7/8"	4-5/16"	4-7/8"	5-13/16"	6-1/8"
	94mm	97.5mm	112.5mm	124mm	148mm	155mm
C	3-5/16"	3-3/4"	4-1/8"	4-7/16"	5-3/16"	6"
	83.5mm	94.5mm	104.5mm	112.5mm	131mm	54.5mm
D1	1-9/16"	1-3/4"	1-3/4"	1-11/16"	1-15/16"	2-1/8"
	40mm	44mm	44mm	43mm	48.5mm	54.5mm
D2	11/16"	3/4"	15/16"	7/8"	15/16"	1-1/16"
	17mm	18.5mm	21mm	22.5mm	23mm	26.5mm
CH1	15/16"	1-1/4"	1-1/2"	1-7/8"	2-3/16"	2-11/16"
	24mm	32mm	38mm	48mm	55mm	68mm
CH2	1"	1-1/4"	1-9/16"	1-7/8"	2-3/4"	2-3/4"
	25mm	31mm	40mm	47mm	55mm	69mm
Pounds	0.8	1.12	1.76	2.43	3.78	5.52
Grams	365	510	800	1100	1715	2505



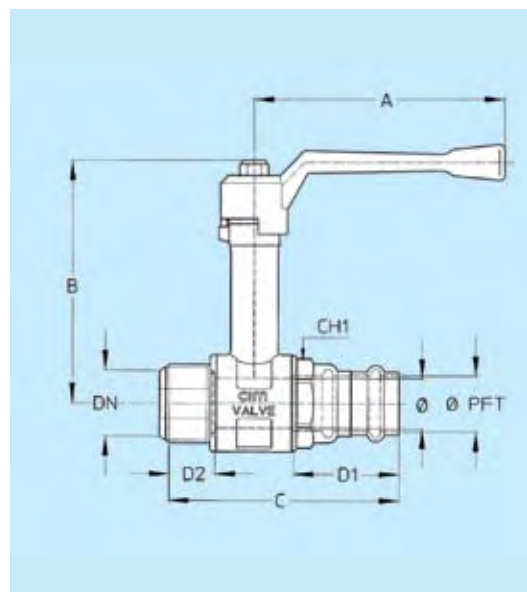
cim242.1 cimPRESS™ Full Port Ball Valve w/Integral Stem Extension

CimPRESS x MIPT



Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	242-04	242-06	242-07	242-08	242-09	242-10

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"	5-1/2"	5-1/2"	6-5/8"	7-7/8"	7-7/8"
	100mm	140mm	140mm	170mm	200mm	200mm
B	3-11/16"	3-7/8"	4-5/16"	4-7/8"	5-13/16"	6-1/8"
	94mm	97.5mm	112.5mm	124mm	148mm	155mm
C	3-5/16"	3-3/4"	4-1/8"	4-7/16"	5-3/16"	6"
	83.5mm	94.5mm	104.5mm	112.5mm	131mm	54.5mm
D1	1-9/16"	1-3/4"	1-3/4"	1-11/16"	1-15/16"	2-1/8"
	40mm	44mm	44mm	43mm	48.5mm	54.5mm
D2	11/16"	3/4"	15/16"	7/8"	15/16"	1-1/16"
	17mm	18.5mm	21mm	22.5mm	23mm	26.5mm
CH1	15/16"	1-1/4"	1-1/2"	1-7/8"	2-3/16"	2-11/16"
	24mm	32mm	38mm	48mm	55mm	68mm
CH2	1"	1-1/4"	1-9/16"	1-7/8"	2-3/4"	2-3/4"
	25mm	31mm	40mm	47mm	55mm	69mm
Pounds	0.8	1.12	1.76	2.43	3.78	5.52
Grams	365	510	800	1100	1715	2505

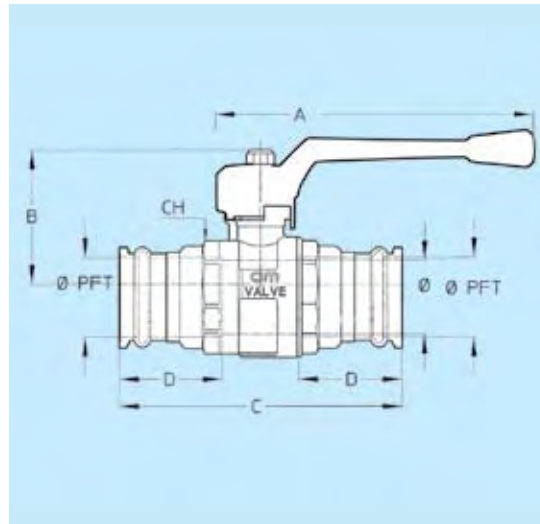


cim220XLB.1 cimPRESS™ XLB Full Port Ball Valve

CimPRESS x CimPRESS • For Use with XL Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	220XLB-11	220XLB-12	220XLB-14

Size Port inch Port mm	2-1/2" 2.36" 60mm	3" 2.83" 72mm	4" 3.7" 94mm
A	9-7/16" 240mm	9-7/16" 240mm	9-7/16" 240mm
B	5-7/16" 137.5mm	5-3/4" 146.5mm	6-3/8" 161.5mm
C	10-1/4" 259mm	10-7/8" 276mm	12-3/16" 309mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH	3-1/4" 82mm	3-3/4" 96mm	4-7/8" 123mm
Pounds Grams	9.83 4465	12.95 5880	21.37 9700
Required Pipe Insertion Depth	2.1720" 55.16mm	2.1675" 55.06mm	2.3670" 60.12mm

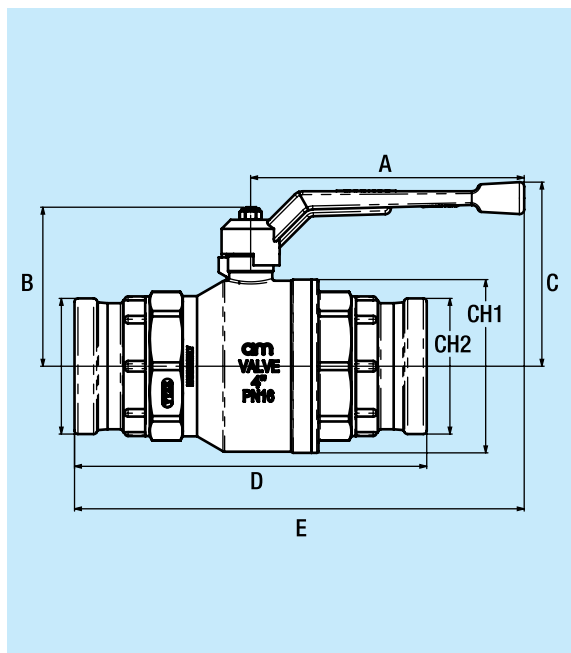


cim220XLC.1 cimPRESS™ XLC Full Port Ball Valve

CimPRESS x CimPRESS • For Use with XL-C Press Jaws and Rings Only

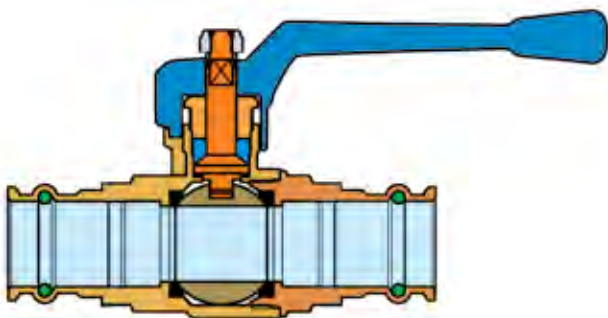
Size	2-1/2"	3"	4"
Cim No.	220XLC-11	220XLC-12	220XLC-14

Size Port inch Port mm	2-1/2" 2.52" 64mm	3" 2.99" 76mm	4" 3.94" 100mm
A	9-7/16" 240mm	9-7/16" 240mm	9-7/16" 240mm
B	4-9/16" 115.5mm	4-7/8" 124.5mm	5-1/2" 139.5mm
C	5-7/16" 137.5mm	5-3/4" 146.5mm	6-3/8" 161.5mm
D	10-3/16" 259mm	10-7/8" 276mm	12-3/16" 309mm
E	14-9/16" 369.5mm	14-7/8" 378mm	15-1/2" 394.5mm
CH1	4-1/16" 103mm	4-3/4" 121mm	6" 152mm
CH2	3-3/16" 80.5mm	3-11/16" 93.5mm	4-11/16" 119mm
Pounds Grams	10.12 4590	13.36 6058	21.86 9914
Required Pipe Insertion Depth	2.1685" 55.08mm	2.1525" 54.67mm	2.3565" 59.85mm



cim220XLB.1 & 220XLC.1 cimPRESS™ Full Port Ball Valves

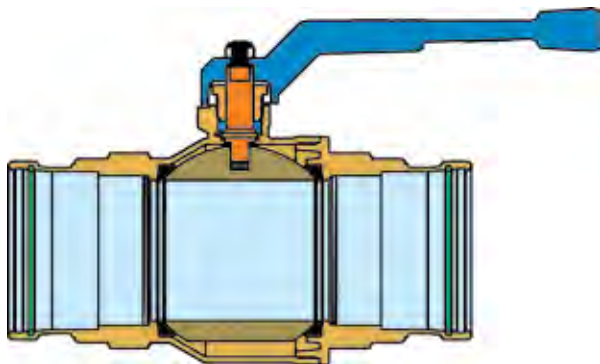
220XLB.1



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.

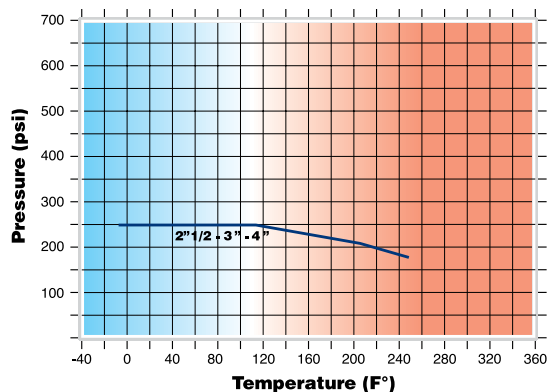
220XLC.1



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.

PRESSURE/TEMPERATURE RATINGS

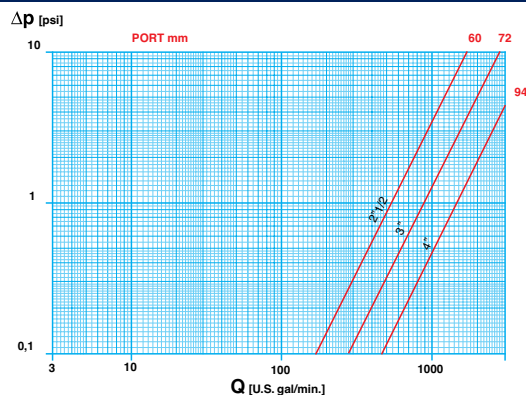


Working Pressure: 250 PSI

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

Test Pressures: According to ISO 5208

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	2-1/2"	3"	4"
220XLB.1	Ø mm	60	72	94
220XLC.1	Ø inch	2.36	2.83	3.7
CV	gal/min	532.4	865.4	1417.1
CM	N x m lb x in	15 133	19 168	29 257
CS	N x m lb x in	30 266	38 337	58 514
MT	N x m lb x in	280 2480	280 2480	550 4872

cimJOINT™ Ball Valves with Telescopic Expansion Unions



Applications:

The CimJOINT™ ball valves with telescopic expansion unions are manufactured in accordance with EN ISO 9001 and are designed to solve expansion and contraction problems normally found in hydraulic, heating, sanitary, pneumatic and similar pipe systems. 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.



1. Cut Out the Old Valve



2. Insert CimJOINT™

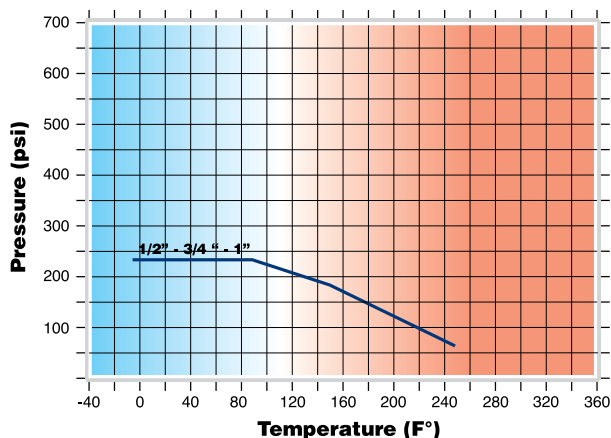


3. Tighten One End



4. Pull Telescopic Union & Tighten

PRESSURE/TEMPERATURE RATINGS

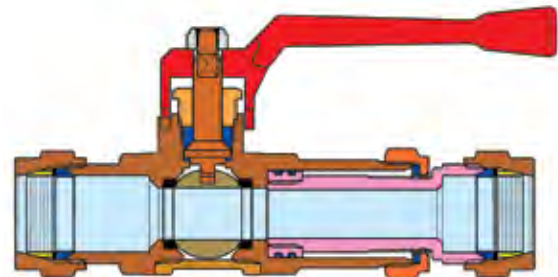


Working Pressure: 1/2" – 1" : 232 PSI

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

Test Pressures: According to ISO 5208

Vacuum: the CIM 63.1 Ball Valves can be used for Vacuum: 2×10^{-5} PSI



Materials:

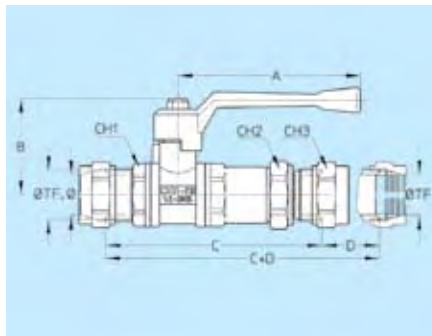
- **Body:** Hot Forged Brass ASTM C37700
- **Ball:** Brass, Machined to a Micro-Smooth Finish, Hard Chromium Plated
- **Ball Seats:** Conical Rings in P.T.F.E.
- **Stem Seal:** Rings in P.T.F.E.
- **Cap Stem:** 36600 Bar Stock
- **Piston Fitting:** 36600 Bar Stock
- **Sealing Gaskets:** EPDM - ASTM D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

cim463.1 cimJOINT™ Ball Valve with Telescopic Expansion Union

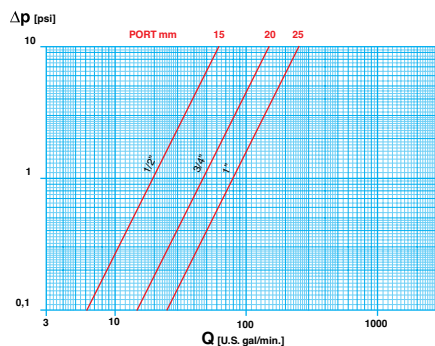
Iron Compression x Iron Compression



Size	1/2"	3/4"	1"
Cim No.	463-04	463-06	463-07



FLOW AND PRESSURE DROP



Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.79" 20mm	1" 0.98" 25mm
A	3-15/16" 100mm	4-3/4" 120mm	4-3/4" 120mm
B	2-1/16" 53mm	2-9/16" 65mm	2-3/4" 69mm
C	4-11/16" 119mm	5-1/16" 129mm	5-7/16" 138mm
D	1-1/4" 32mm	1-3/4" 44.5mm	1-3/8" 35mm
C + D	5-15/16" 151mm	6-13/16" 173.5mm	6-13/16" 173mm
CH1	1-1/4" 31mm	1-7/16" 36mm	1-3/4" 44mm
CH2	1-3/8" 34mm	1-9/16" 39mm	1-7/8" 47mm
CH3	1-1/4" 32mm	1-9/16" 39mm	1-7/8" 47mm
Pounds Grams	1.48 670	2.09 950	3.02 1370

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

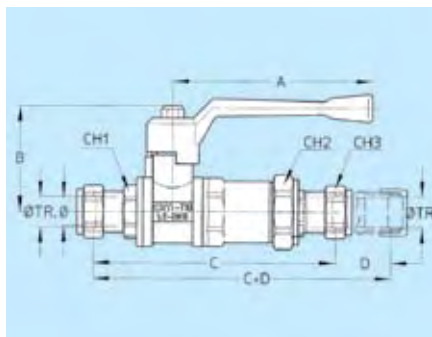
463.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	47.4	47.4
CM	N x m lb x in	3 27	5 44	6 53
CS	N x m lb x in	6 53	10 89	12 106
MT	N x m lb x in	10 89	24 213	24 213

cim563.1 cimJOINT™ Ball Valve with Telescopic Expansion Union

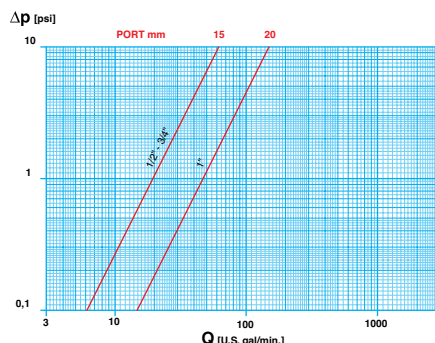
Copper Compression x Copper Compression



Size	1/2"	3/4"	1"
Cim No.	563-04	563-06	563-07



FLOW AND PRESSURE DROP



Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.59" 15mm	1" 0.79" 20mm
A	3-15/16" 100mm	3-15/16" 100mm	4-3/4" 120mm
B	2-1/16" 53mm	2-1/16" 53mm	2-9/16" 65mm
C	4-3/4" 121mm	4-11/16" 119mm	5-1/8" 130mm
D	1-1/4" 32mm	1-9/16" 40mm	1-5/16" 33mm
C + D	6" 153mm	6-1/4" 159mm	6-7/16" 163mm
CH1	1-1/16" 27mm	1-1/4" 31mm	1-7/16" 36mm
CH2	1-3/8" 34mm	1-3/8" 34mm	1-9/16" 39mm
CH3	15/16" 24mm	1-1/4" 32mm	1-9/16" 39mm
Pounds Grams	1.27 575	1.42 645	2.14 970

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

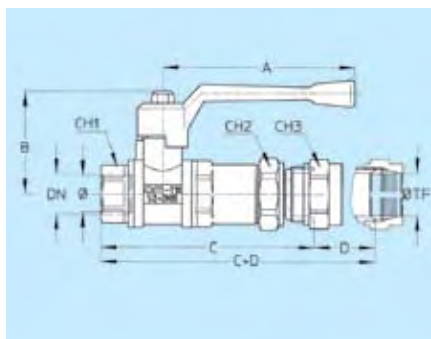
563.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	47.4	47.4
CM	N x m lb x in	3 27	3 27	5 44
CS	N x m lb x in	6 53	6 53	10 89
MT	N x m lb x in	10 89	10 89	24 213

cim63.1 cimJOINT™ Ball Valve with Telescopic Expansion Union

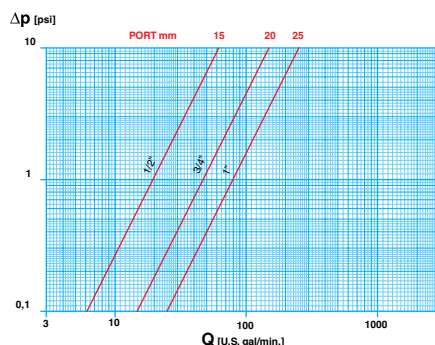
FIPT x Iron Compression



Size	1/2"	3/4"	1"
Cim No.	63-04	63-06	63-07



FLOW AND PRESSURE DROP



Size Port inch Port mm	1/2" 0.59" 15mm	3/4" 0.79" 20mm	1" 0.98" 25mm
A	3-15/16" 100mm	4-3/4" 120mm	4-3/4" 120mm
B	2-1/16" 53mm	2-9/16" 65mm	2-3/4" 69mm
C	4-3/8" 111mm	4-3/4" 121mm	5-5/16" 135mm
D	1-1/4" 32mm	1-3/4" 44.5mm	1-3/8" 35mm
C + D	5-5/8" 143mm	6-1/2" 165.5mm	6-11/16" 170mm
CH1	1-1/16" 27mm	1-1/4" 32mm	1-5/8" 41mm
CH2	1-3/8" 34mm	1-9/16" 39mm	1-7/8" 47mm
CH3	1-1/4" 32mm	1-9/16" 39mm	1-7/8" 47mm
Pounds Grams	1.31 595	2.01 910	2.72 1235

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"

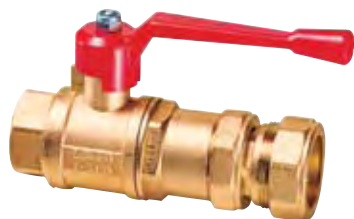
MT: Torque Breaking Point on the Stem in "lb x in"

Element: Water - Temperature: 59.9° F

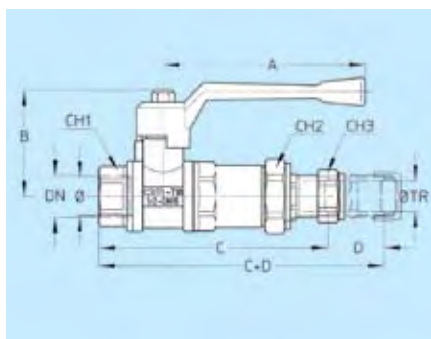
63.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	47.4	78.7
CM	N x m lb x in	3 27	5 44	6 53
CS	N x m lb x in	6 53	10 89	12 106
MT	N x m lb x in	10 89	24 213	24 213

cim66.1 cimJOINT™ Ball Valve with Telescopic Expansion Union

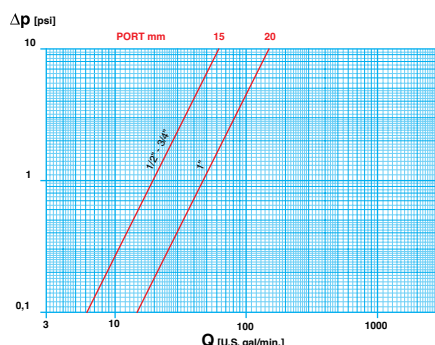
FIPT x Copper Compression



Size	1/2"	3/4"	1"
Cim No.	66-04	66-06	66-07



FLOW AND PRESSURE DROP



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

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

66.1	SIZE	1/2"	3/4"	1"
CV	gal/min	19.7	19.7	47.4
CM	N x m lb x in	3 27	3 27	5 44
CS	N x m lb x in	6 53	6 53	10 89
MT	N x m lb x in	10 89	10 89	24 213

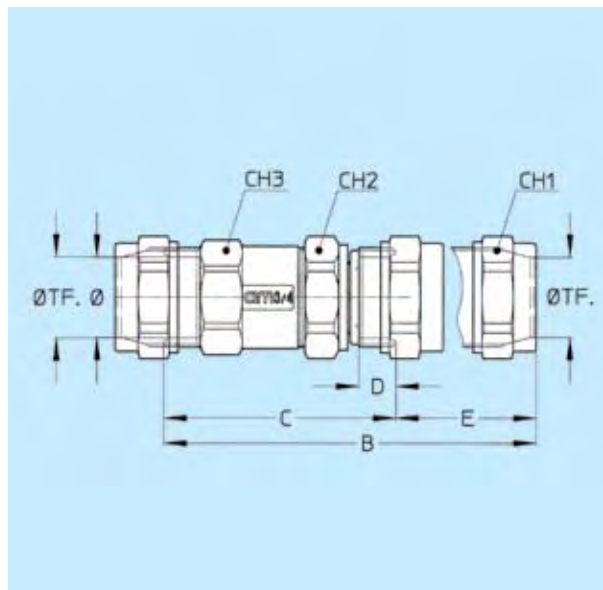
cim240.1 cimJOINT™ Telescopic Expansion Union

Iron Compression x Iron Compression

Size	1/2"	3/4"	1"
Cim No.	240-04	240-06	240-07



Size Port inch Port mm	1/2" 0.55" 14mm	3/4" 0.75" 19mm	1" 0.98" 25mm
B	4-5-16" 109.5mm	4-1/2" 114.5mm	4-15/16" 125.5mm
C	3-1/16" 78mm	3-1/4" 82mm	3-3/8" 86mm
E	1-1/4" 31.5mm	1-1/4" 32.5mm	1-3/8" 34.5mm
D	1/2" 13mm	1/2" 13mm	9/16" 14mm
CH1	1-1/4" 32mm	1-9/16" 39mm	1-7/8" 47mm
CH2	1-1/4" 31mm	1-7/16" 36mm	1-11/16" 43mm
CH3	1-3/8" 34mm	1-9/16" 39mm	1-7/8" 47mm
Pounds Grams	0.87 395	1.15 520	1.58 715



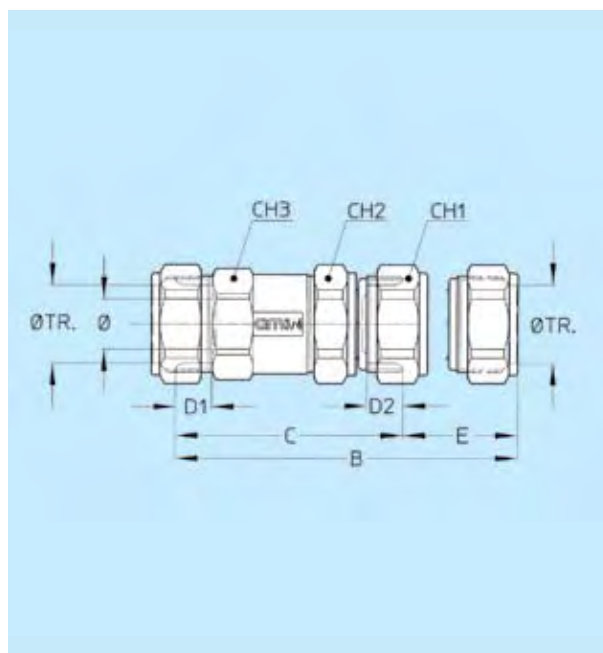
cim440.1 cimJOINT™ Telescopic Expansion Union

Copper Compression x Copper Compression

Size	1/2"	3/4"	1"	1-1/4"
Cim No.	440-04	440-06	440-07	440-08



Size Port inch Port mm	1/2" 0.55" 14mm	3/4" 0.55" 14mm	1" 0.75" 19mm	1-1/4" 1" 25mm
B	4-5-16" 110mm	4-7/16" 112mm	4-1/2" 114.5mm	4-3/4" 120.5mm
C	3-1/16" 78mm	3-1/8" 80mm	3-1/4" 82mm	3-3/8" 86mm
E	1-1/4" 32mm	1-1/4" 32mm	1-1/4" 32.5mm	1-3/8" 34.5mm
D1	1/2" 12mm	1/2" 13mm	1/2" 13mm	9/16" 14mm
D2	1/2" 12mm	9/16" 15mm	1/2" 13mm	9/16" 14 mm
CH1	15/16" 24mm	1-1/4" 32mm	1-9/16" 39mm	1-7/8" 47mm
CH2	1-3/8" 34mm	1-3/8" 34mm	1-9/16" 39mm	1-7/8" 47mm
CH3	1-1/4" 31mm	1-1/4" 31mm	1-7/16" 36mm	1-11/16" 43mm
Pounds Grams	0.64 290	0.82 370	1.04 485	1.5 665



cim102.1 Ball Valve for Gas Service

FIPT x FIPT • UL/CSA/AGA Listed



Size	3/8"	1/2"	3/4"
Cim No.	102-03	102-04	102-06

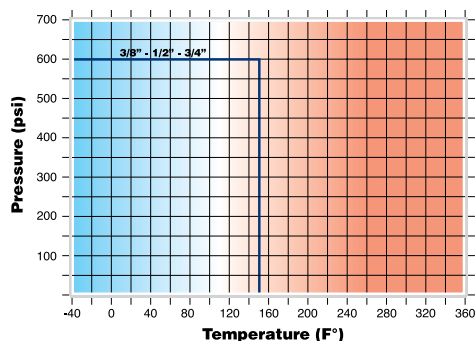
Applications:

The CIM 102.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

The CIM 102.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

PRESSURE/TEMPERATURE RATINGS

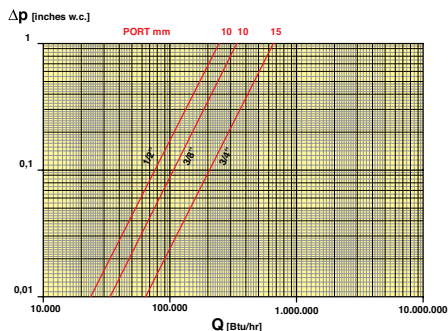


Working Pressure: 600 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



FC CM CS MT

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

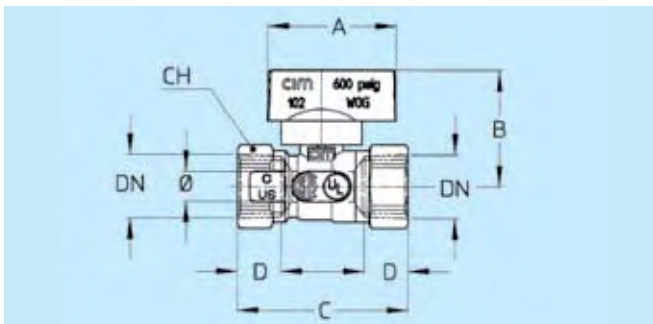
CM: Working Torque in "lb x in"

CS: Starting Torque in "lb x in"

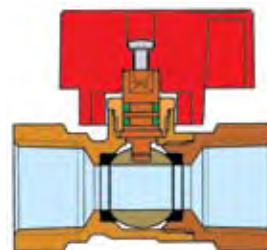
MT: Torque Breaking Point on the Stem in "lb x in"

Element: Gas - Specific Gravity: 0.64

102.1	SIZE	3/8"	1/2"	3/4"
FC	BTU/h	188,600	139,000	352,000
CM	N x m lb x in	0.3 3	0.3 3	0.4 4
CS	N x m lb x in	1 9	1 9	1 9
MT	N x m lb x in	6 53	6 53	6 53



Size	3/8"	1/2"	3/4"
Port inch	0.39"	0.39"	0.59"
Port mm	10mm	10mm	15mm
A	1-11/16" 43mm	1-11/16" 43mm	1-11/16" 43mm
B	1-9/16" 39mm	1-9/16" 39mm	1-5/8" 41.5mm
C	1-7/8" 47mm	2-1/4" 57mm	2-1/2" 63mm
D	1/2" 12.5mm	5/8" 15.5mm	5/8" 16mm
CH	13/16" 20mm	1" 25mm	1-1/4" 31.5mm
Pounds	0.28	0.35	0.54
Grams	125	160	245



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 Seat: Conical Rings in NBR

Stem Seal: Two O-Rings in NBR

Handle: Hard Duraluminum Alloy Painted Red RAL 3000

cim107.1 Ball Valve for Gas Service with Side Tap

FIPT x FIPT • UL/CSA/AGA Listed



Applications:

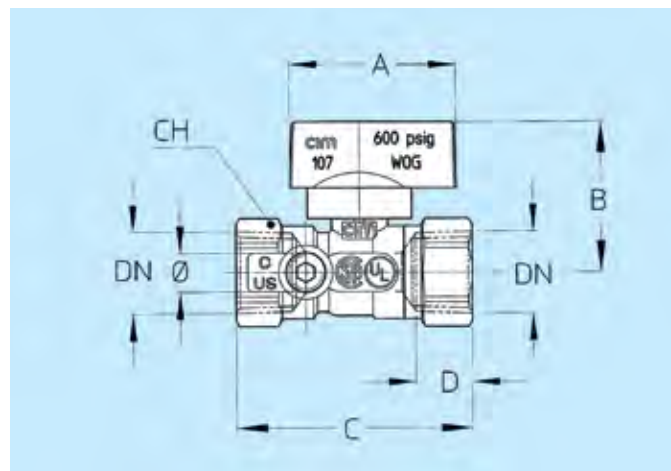
The CIM 107.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

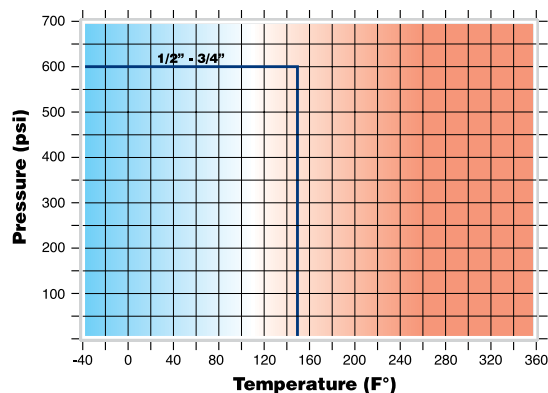
The CIM 107.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	1/2"	3/4"
Cim No.	107-04	107-06

Size Port inch Port mm	1/2" 0.39" 10mm	3/4" 0.59" 15mm
A	1-11/16" 43mm	1-11/16" 43mm
B	1-9/16" 39mm	1-5/8" 41.5mm
C	2-7/16" 61mm	2-5/8" 66mm
D	5/8" 15.5mm	5/8" 16mm
CH	1" 25mm	1-1/4" 31.5mm
Pounds	0.4	0.58
Grams	180	265



PRESSURE/TEMPERATURE RATINGS

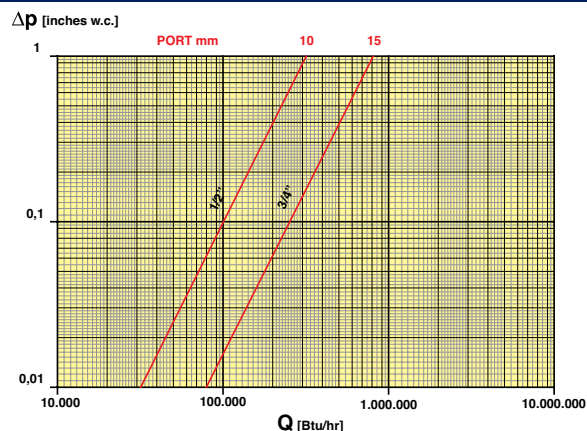


Working Pressure: 600 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 150° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

107.1	SIZE	1/2"	3/4"
FC	BTU/h	176,000	429,600

cim109.1 Ball Valve for Gas Service

Flare x Flare • UL/CSA/AGA Listed



Applications:

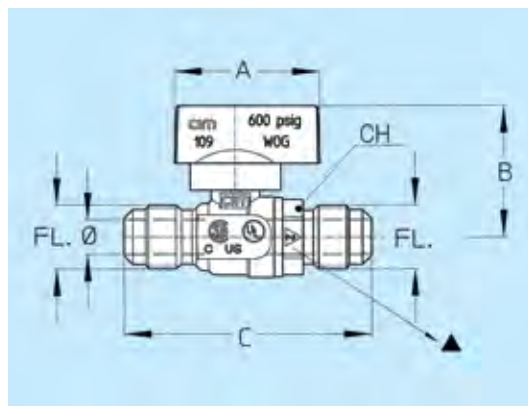
The CIM 109.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

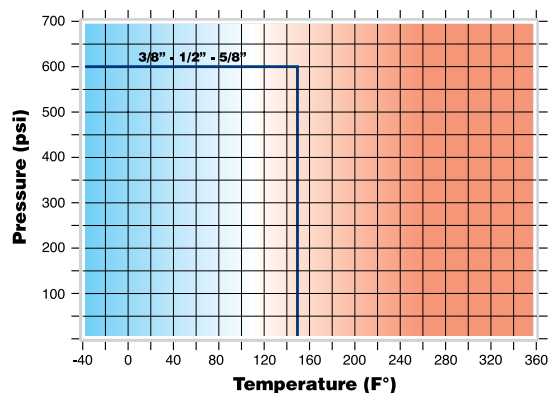
The CIM 109.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	3/8"	1/2"	5/8"
Cim No.	109-03	109-04	109-05

Size Port inch Port mm	3/8" 0.39" 10mm	1/2" 0.39" 10mm	5/8" 0.59" 15mm
A	1-11/16" 43mm	1-11/16" 43mm	1-11/16" 43mm
B	1-9/16" 39mm	1-9/16" 39mm	1-5/8" 41.5mm
C	2-9/16" 65mm	2-7/8" 73mm	3-5/16" 84mm
CH	11/16" 18mm	13/16" 20mm	1" 25mm
Pounds Grams	0.3 135	0.36 165	0.52 235



PRESSURE/TEMPERATURE RATINGS

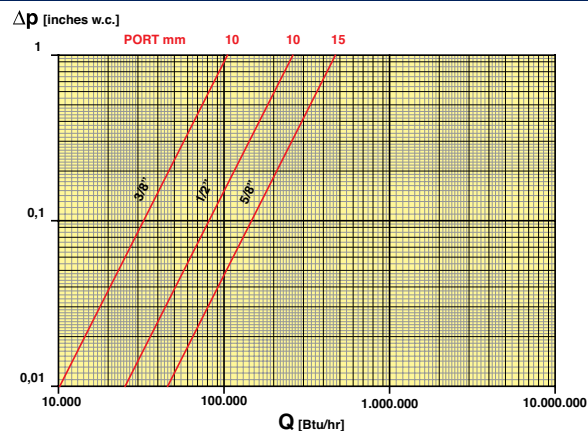


Working Pressure: 600 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 150° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



FC CM CS MT

109.1	SIZE Ø mm Ø inch	3/8" 10 0.39	1/2" 10 0.39	5/8" 15 0.59
FC	BTU/h	56,000	142,000	237,000
CM	N x m lb x in	0.3 3	0.3 3	0.4 4
CS	N x m lb x in	1 9	1 9	1 9
MT	N x m lb x in	6 53	6 53	6 53

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

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: Gas - Specific Gravity: 0.64

cim108.1 Ball Valve for Gas Service with Side Tap

Flare x Flare • UL/CSA/AGA Listed



Applications:

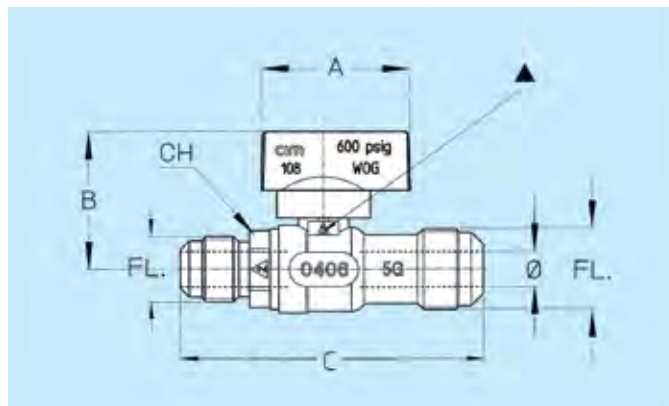
The CIM 108.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

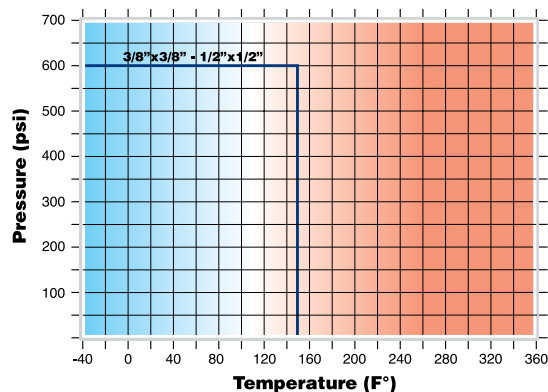
The CIM 108.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	3/8"	1/2"
Cim No.	108-03	108-04

Size	3/8"	1/2"
Port inch	0.39"	0.39"
Port mm	10mm	10mm
A	1-11/16"	1-11/16"
	43mm	43mm
B	1-9/16"	1-9/16"
	39mm	39mm
C	2-13/16"	3-3/16"
	72mm	81mm
CH	11/16"	13/16"
	18mm	20mm
Pounds	0.35	0.42
Grams	160	190



PRESSURE/TEMPERATURE RATINGS

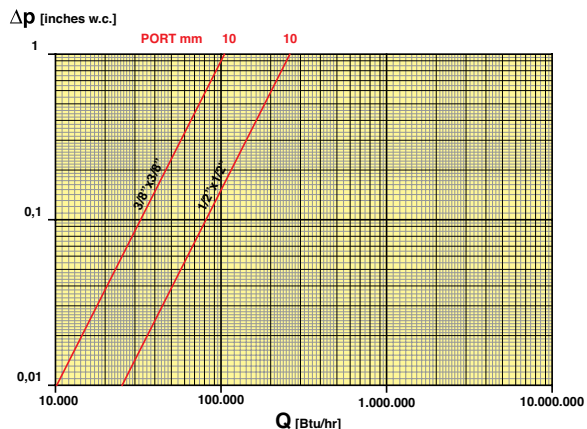


Working Pressure: 600 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 150° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

108.1	SIZE	3/8"	1/2"
FC	BTU/h	56,000	142,000

cim103.1 Ball Valve for Gas Service

FIPT x Flare • UL/CSA/AGA Listed



Applications:

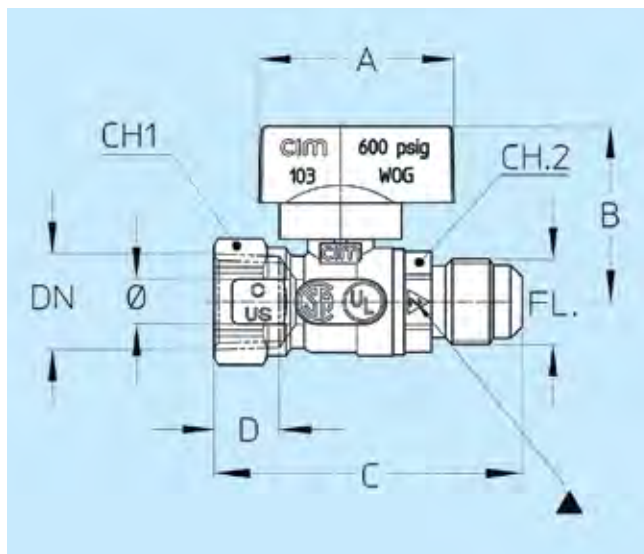
The CIM 103.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

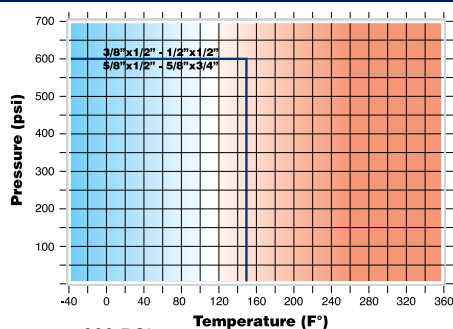
The CIM 103.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	1/2" x 1/2"	1/2" x 5/8"
Cim No.	103-0404	103-0405

Size	1/2"	1/2"
FL	5/8"	1/2"
Port inch	0.39"	0.39"
Port mm	10mm	10mm
A	1-11/16"	1-11/16"
	43mm	43mm
B	1-9/16"	1-9/16"
	39mm	39mm
C	2-3/4"	2-11/16"
	69.5mm	68mm
D	5/8"	5/8"
	15.5mm	15.5mm
CH1	1"	1"
	25mm	25mm
CH2	1"	13/16"
	25mm	20mm
Pounds	0.45	0.37
Grams	205	170



PRESSURE/TEMPERATURE RATINGS

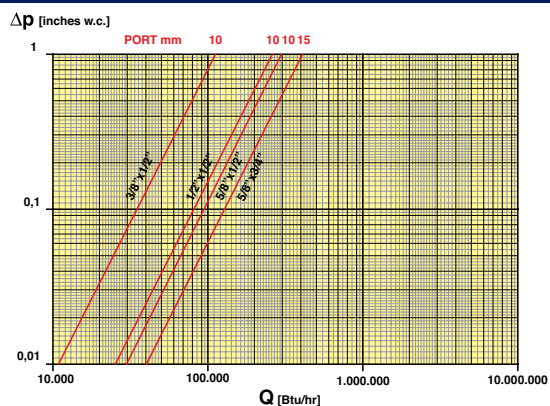


Working Pressure: 600 PSI

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

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



FC CM CS MT

103.1	FL x SIZE	5/8" x 1/2"	1/2" x 1/2"
FC	BTU/h	60,000	140,000
CM	N x m lb x in	0.3 3	0.3 3
CS	N x m lb x in	1 9	1 9
MT	N x m lb x in	6 53	6 53

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

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: Gas - Specific Gravity: 0.64

cim106.1 Ball Valve for Gas Service with Side Tap

FIPT x Flare • UL/CSA/AGA Listed



Applications:

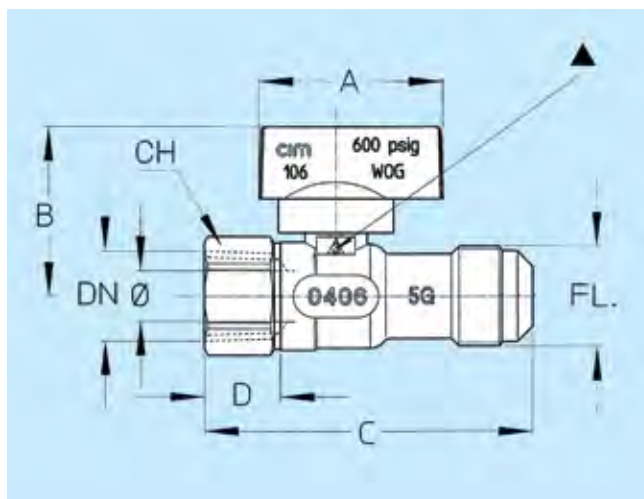
The CIM 106.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

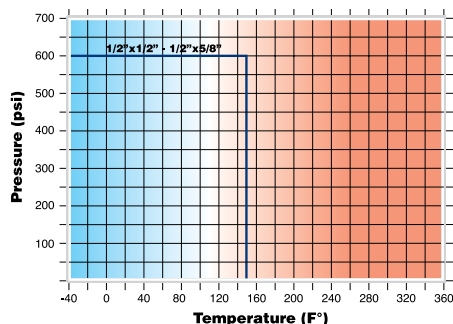
The CIM 106.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	1/2" x 1/2"	1/2" x 5/8"
Cim No.	106-0404	106-0405

Size	1/2"	1/2"
FL	5/8"	1/2"
Port inch	0.47"	0.39"
Port mm	12mm	10mm
A	1-11/16"	1-11/16"
	43mm	43mm
B	1-9/16"	1-9/16"
	40mm	39mm
C	3"	2-3/4"
	76mm	70mm
D	11/16"	5/8"
	18mm	15.5mm
CH1	1"	1"
	25mm	25mm
Pounds	0.49	0.4
Grams	220	180



PRESSURE/TEMPERATURE RATINGS

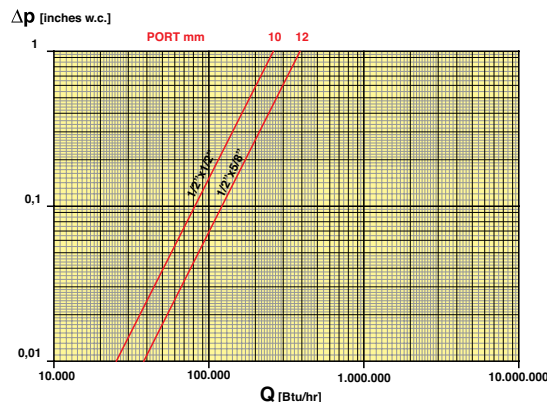


Working Pressure: 600 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 150° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



FC CM CS MT

106.1	FL x SIZE	5/8" x 1/2"	1/2" x 1/2"
FC	BTU/h	210,000	142,000
CM	N x m lb x in	1 9	0.3 3
CS	N x m lb x in	2 18	1 9
MT	N x m lb x in	6 53	6 53

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

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: Gas - Specific Gravity: 0.64

cim105.1 90° Angle Body Ball Valve for Gas Service

FIPT x Flare • UL/CSA/AGA Listed



Applications:

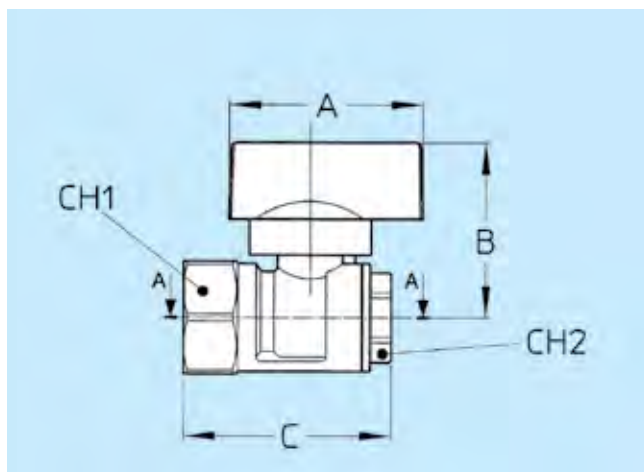
The CIM 105.1 ball valve is manufactured in accordance with EN ISO 9001 and is designed for use with gases. Applications include residential and commercial use for the distribution of natural gas and propane.

Features:

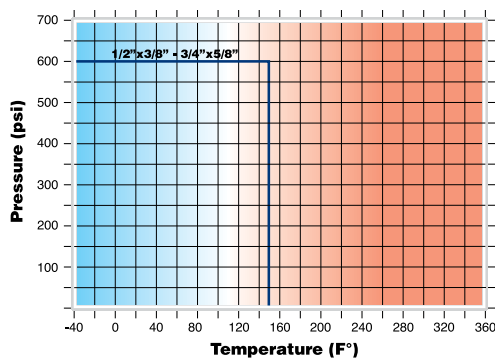
The CIM 105.1 gas valve features a two piece design and includes a unique blast proof/impact proof 3 part stem design that allows handle option flexibility.

Size	1/2" x 3/8"	3/4" x 5/8"
Cim No.	105-0304	105-0506

Size	1/2"	3/4"
FL	3/8"	5/8"
Port inch	0.39"	0.59"
Port mm	10mm	15mm
A	1-11/16"	1-11/16"
	43mm	43mm
B	1-9/16"	1-5/8"
	39mm	41.5mm
C	1-13/16"	2-1/16"
	46mm	51.5mm
CH1	1"	1-1/4"
	25mm	31.5mm
CH2	3/4"	13/16"
	18mm	21mm
Pounds	0.35	0.57
Grams	158	258



PRESSURE/TEMPERATURE RATINGS

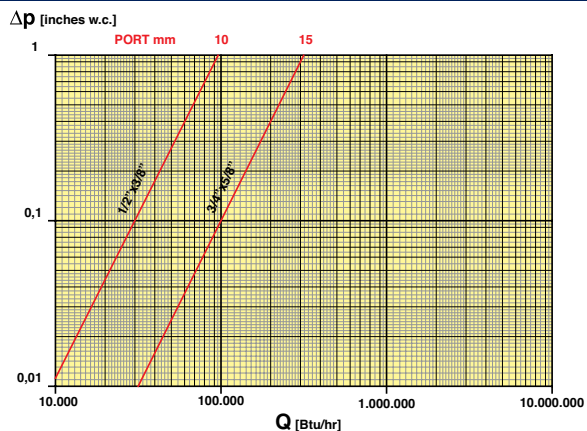


Working Pressure: 5 PSI

Max. Operating Temperature: Working Limit for Fluids -40° F – 150° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



FC CM CS MT

105.1	SIZE x FL	1/2" x 3/8"	3/4" x 5/8"
FC	BTU/h	51,352	171,710
CM	N x m lb x in	0.3 3	0.4 4
CS	N x m lb x in	1 9	1 9
MT	N x m lb x in	6 53	6 53

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

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"

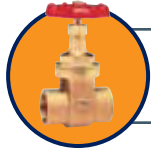
Element: Gas - Specific Gravity: 0.64

GLOBE, GATE, CHECK, & BALANCING VALVES



Globe Valves

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Gate Valves

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Check Valves

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“Y” Strainers

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Balancing Valves

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cim73.1 45° Angle Body Globe Valve

FIPT x FIPT • Rising Stem • P.T.F.E. Seat

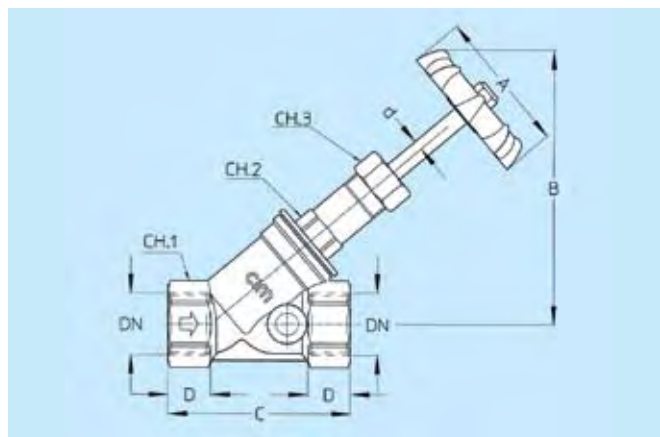
Applications:

The CIM 73.1 globe valve is manufactured in accordance with BS 5154/B and EN ISO 9001 and is designed for use in a wide range of applications where fine flow regulation is required including residential and commercial plumbing, industrial applications, agricultural applications, heating plants, waterworks, steam, and sanitary systems as well as oil, gasoline and other hydrocarbon services.

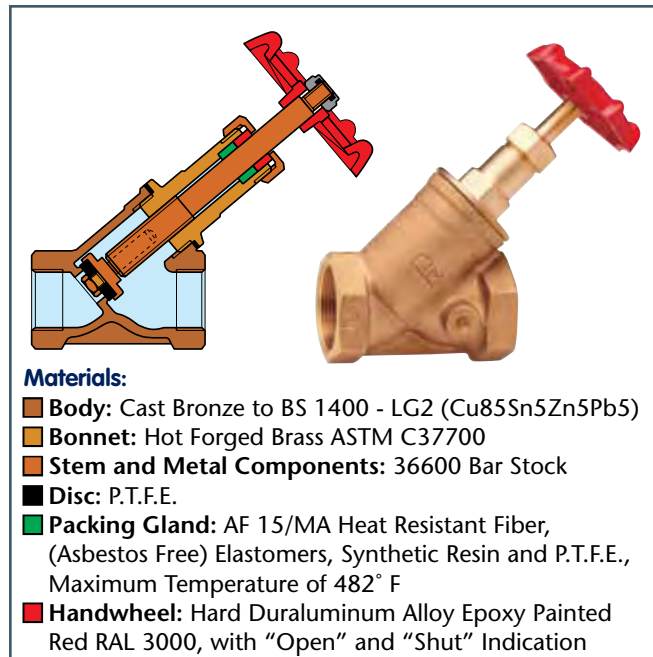
Features:

The CIM 73.1 angle body globe valve features a screwed-in bonnet, rising stem, and a P.T.F.E. disc design with an adjustable opening capable of fine flow regulation or complete retraction out of the flow path.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	73-04	73-06	73-07	73-08	73-09	73-10



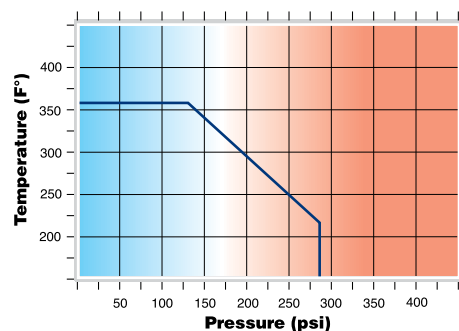
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Port inch	0.55"	0.75"	0.98"	1.26"	1.46"	1.85"
Port mm	14mm	20mm	25mm	32mm	37mm	47mm
A	2-3/16"	2-3/8"	2-9/16"	2-15/16"	3-1/8"	3-9/16"
	55mm	60mm	65mm	75mm	80mm	90mm
B	3-9/16"	4-9/16"	5-5/16"	6-5/16"	6-7/8"	8-1/4"
	90mm	115mm	135mm	160mm	174mm	210mm
C	2-5/16"	2-11/16"	3"	3-5/8"	3-15/16"	4-15/16"
	59mm	68mm	76mm	92mm	100mm	125mm
D	7/16"	1/2"	9/16"	5/8"	5/8"	11/16"
	11mm	12mm	14mm	15mm	15mm	18mm
CH1	1-1/8"	1-5/16"	1-5/8"	2-1/16"	2-3/16"	2-3/4"
	28mm	34mm	42mm	52mm	56mm	70mm
CH2	11/16"	13/16"	15/16"	1"	1-3/16"	1-1/4"
	17mm	21mm	24mm	26mm	30mm	32mm
CH3	3/4"	13/16"	15/16"	1-1/16"	1-1/16"	1-3/16"
	19mm	21mm	24mm	27mm	27mm	30mm
d	5/16"	5/16"	3/8"	7/16"	1/2"	9/16"
	8mm	8mm	9mm	11mm	12mm	14mm
Pounds	0.73	1.08	1.52	2.4	3.02	5.16
Grams	330	490	690	1090	1370	2430



Materials:

- Body:** Cast Bronze to BS 1400 - LG2 (Cu85Sn5Zn5Pb5)
- Bonnet:** Hot Forged Brass ASTM C37700
- Stem and Metal Components:** 36600 Bar Stock
- Disc:** P.T.F.E.
- Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E., Maximum Temperature of 482° F
- Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000, with "Open" and "Shut" Indication

PRESSURE/TEMPERATURE RATINGS



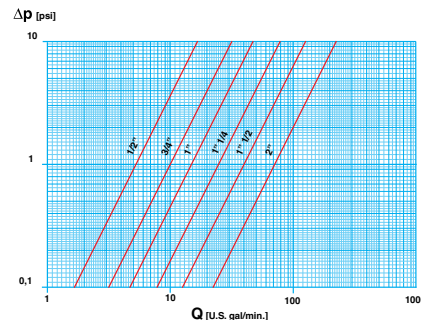
Working Pressure: 290 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 130 PSI at 356° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	5.2	10.2	15	25.4	39.3	71.7

cim75.1 Globe Valve


FIPT x FIPT • Rising Stem • Metal Seat

Applications:

The CIM 75.1 globe valve is manufactured in accordance with BS 5154/B and EN ISO 9001 and is designed for use in a wide range of applications where fine flow regulation is required, including residential and commercial plumbing, industrial applications, agricultural applications, heating plants, waterworks, steam, and sanitary systems as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 75.1 globe valve features a screwed-in bonnet, rising stem, and a machined brass disc design that lifts with the stem and is free to rotate to create an adjustable opening capable of fine flow regulation.

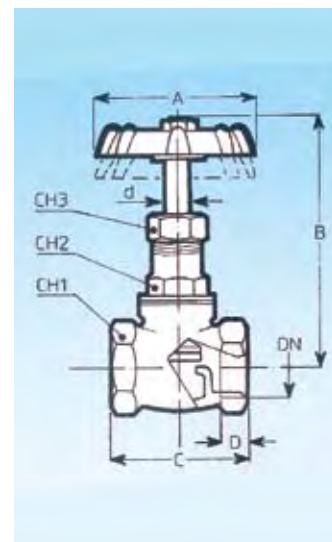


Materials:

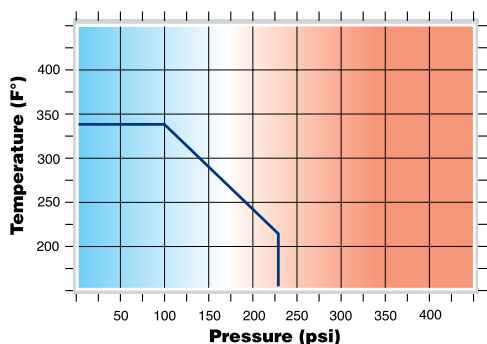
- **Body:** Cast Bronze to BS 1400 - LG2 (Cu85Sn5Zn5Pb5)
- **Bonnet:** Hot Forged Brass ASTM C37700
- **Stem and Metal Components:** 36600 Bar Stock
- **Body Gasket:** NA 1100 (Asbestos Free) Max. Temp. of 842° F
- **Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E., Max. Temp. of 482° F
- **Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000 with "Open" and "Shut" Indication

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	75-03	75-04	75-06	75-07	75-08	75-09	75-10	75-11	75-12	75-14

Size Port inch Port mm	3/8" 0.55" 14mm	1/2" 0.55" 14mm	3/4" 0.75" 20mm	1" 0.98" 25mm	1-1/4" 1.26" 32mm	1-1/2" 1.46" 37mm	2" 1.85" 47mm	2-1/2" 2.32" 59mm	3" 2.76" 70mm	4" 3.7" 94mm
A	2" 50mm	2-3/16" 55mm	2-3/8" 60mm	2-9/16" 65mm	2-9/16" 65mm	3-1/8" 80mm	3-1/8" 80mm	4-3/4" 120mm	4-3/4" 120mm	6-7/8" 175mm
B	3-1/8" 80mm	3-3/8" 86mm	3-15/16" 100mm	4-5/16" 110mm	4-15/16" 125mm	5-3/4" 146mm	6-1/2" 165mm	9" 228mm	10-1/8" 258mm	12-13/16" 325mm
C	1-3/4" 45mm	2" 50mm	2-3/8" 60mm	2-3/4" 70mm	3-3/8" 85mm	3-9/16" 90mm	4-5/16" 110mm	5-5/16" 135mm	5-3/4" 146mm	7-1/2" 190mm
D	3/8" 9mm	7/16" 11mm	1/2" 13mm	9/16" 14mm	5/8" 16mm	5/8" 16mm	11/16" 18mm	13/16" 21mm	13/16" 21mm	15/16" 23mm
CH1	1" 25mm	1-1/8" 29mm	1-3/8" 35mm	1-5/8" 42mm	2" 51mm	2-5/16" 58mm	2-3/4" 70mm	3-7/16" 88mm	3-15/16" 100mm	5" 129mm
CH2	13/16" 21mm	15/16" 23mm	15/16" 23mm	1-1/8" 28mm	1-5/16" 33mm	1-1/2" 38mm	1-3/4" 45mm	2-3/16" 55mm	2-1/2" 63mm	3-1/8" 80mm
CH3	11/16" 17mm	3/4" 18mm	3/4" 18mm	13/16" 21mm	15/16" 23mm	1" 25mm	1-1/16" 27mm	1-7/16" 37mm	1-9/16" 39mm	1-15/16" 50mm
d	5/16" 8mm	5/16" 8mm	5/16" 8mm	3/8" 9mm	3/8" 9mm	3/8" 10mm	3/8" 10mm	5/8" 16mm	3/4" 19mm	7/8" 22mm
Pounds Grams	0.5 225	0.65 295	0.93 420	1.41 640	2.09 950	2.72 1230	4.17 1890	9.08 4120	11.62 5270	22.18 10060



PRESSURE/TEMPERATURE RATINGS



Working Pressure: 232 PSI

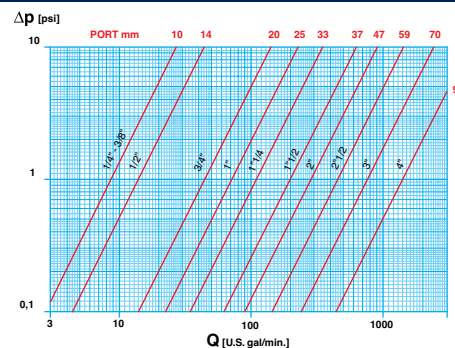
Integral Seat: In Accordance with Nominal Dimension

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 102 PSI at 338° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
CV	13.9	13.9	45.5	71.6	110.5	199.5	283.3	431.7	766	1400.2

cim81L.1 Globe Valve

FIPT x FIPT • Rising Stem • P.T.F.E. Seat

Applications:

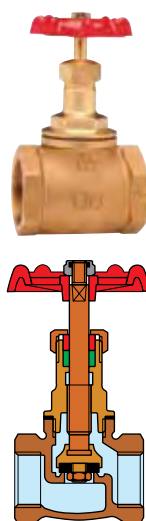
The CIM 81L.1 globe valve is manufactured in accordance with BS 5154/B and EN ISO 9001 and is designed for use in a wide range of applications where fine flow regulation is required, including residential and commercial plumbing, industrial applications, agricultural applications, heating plants, waterworks, steam, and sanitary systems as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 81L.1 Globe Valve features a screwed-in bonnet, rising stem, and a P.T.F.E. disc design with an adjustable opening capable of fine flow regulation.

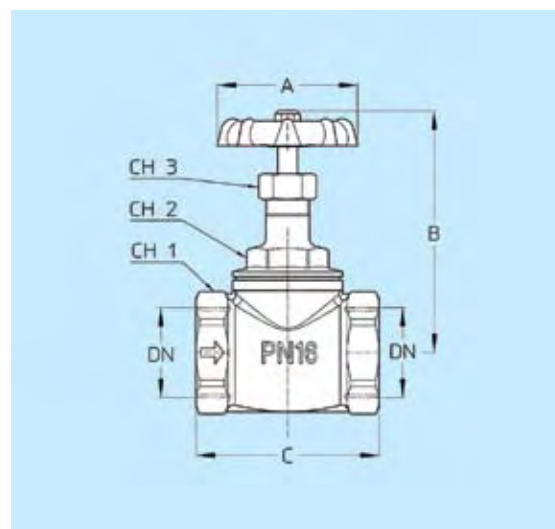
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	81L-04	81L-06	81L-07	81L-08	81L-09	81L-10

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Port inch	0.55"	0.75"	0.98"	1.26"	1.46"	1.85"
Port mm	14mm	20mm	25mm	32mm	37mm	47mm
A	2-3/16"	2-3/8"	2-9/16"	2-9/16"	2-15/16"	3-1/8"
	55mm	60mm	65mm	65mm	75mm	80mm
B	3-1/4"	3-3/4"	4-1/8"	4-15/16"	5-15/16"	6-1/2"
	83mm	95mm	105mm	125mm	150mm	165mm
C	2"	2-7/16"	2-3/4"	3-3/8"	3-9/16"	4-5/16"
	50mm	61mm	70mm	85mm	90mm	110mm
CH1	1-1/8"	1-3/8"	1-5/8"	2"	2-5/16"	2-3/4"
	29mm	35mm	42mm	51mm	58mm	70mm
CH2	15/16"	15/16"	1-1/8"	1-5/16"	1-7/16"	1-3/4"
	23mm	23mm	28mm	33mm	37mm	45mm
CH3	3/4"	3/4"	13/16"	15/16"	1"	1-1/16"
	18mm	18mm	21mm	23mm	25mm	27mm
Pounds	0.65	0.91	1.41	2.09	2.7	4.1
Grams	285	415	640	950	1225	1860

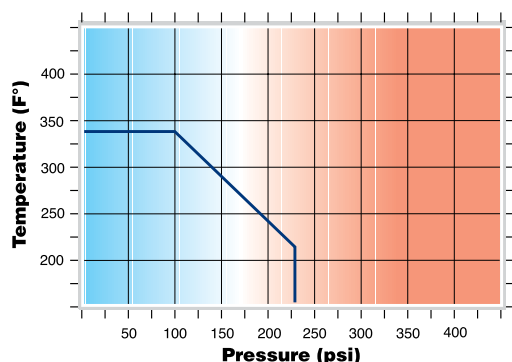


Materials:

- **Body:** Cast Bronze to BS 1400 - LG2 (Cu85Sn5Zn5Pb5)
- **Bonnet:** Hot Forged Brass ASTM C37700
- **Stem and Metal Components:** 36600 Bar Stock
- **Disc:** P.T.F.E.
- **Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E., Maximum Temperature of 482° F
- **Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000, with "Open" and "Shut" Indication



PRESSURE/TEMPERATURE RATINGS



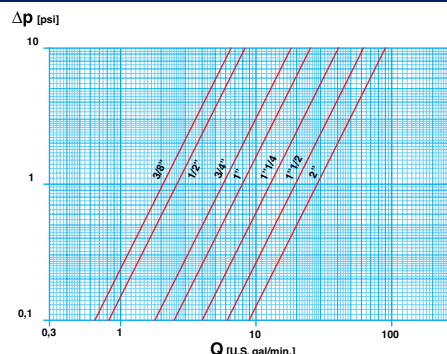
Working Pressure: 232 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 102 PSI at 338° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	2.7	5.6	8.1	12.7	19.7	28.9

cim58.1 Full Port Gate Valve

Copper x Copper

Applications:

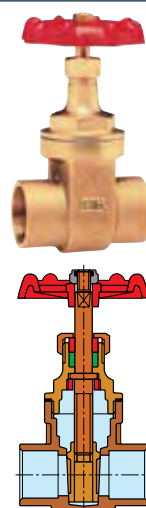
The CIM 58.1 gate valve is manufactured in accordance with BS 5154/B and EN ISO 9001 and is designed for use in a wide range of applications including residential and commercial plumbing, industrial applications, agricultural applications, heating plants, waterworks, steam, and sanitary systems as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 58.1 is a full port 250 WOG gate valve that features a screwed-in bonnet, non-rising stem, and solid wedge disc design.

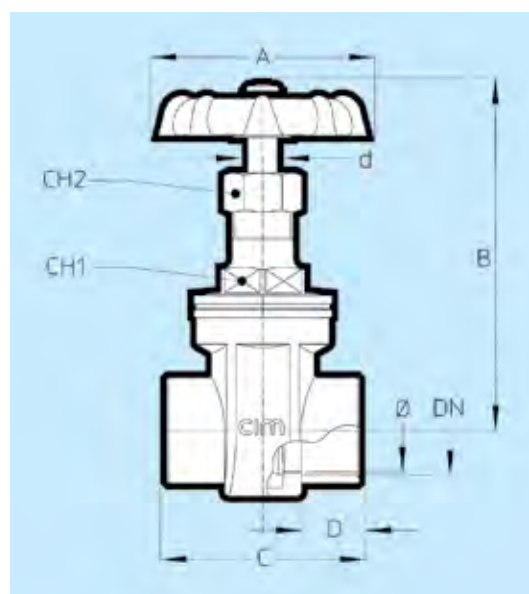
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	58-04	58-06	58-07	58-08	58-09	58-10

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Port inch	0.51"	0.75"	0.94"	1.26"	1.46"	1.85"
Port mm	13mm	19mm	24mm	32mm	37mm	47mm
A	2-3/16"	2-3/8"	2-9/16"	2-15/16"	3-1/8"	3-9/16"
	55mm	60mm	65mm	75mm	80mm	90mm
B	3-1/8"	3-11/16"	4-1/16"	4-3/4"	5-1/4"	5-7/8"
	80mm	93.5mm	103.5mm	120mm	134mm	148.5mm
C	2"	2-1/8"	2-9/16"	2-7/8"	3-1/16"	3-5/8"
	50mm	54mm	65mm	73mm	78mm	92.5mm
D	9/16"	5/8"	3/4"	13/16"	15/16"	1-3/16"
	15mm	16.5mm	19mm	20mm	23mm	29.5mm
CH1	15/16"	1-3/16"	1-1/4"	1-1/4"	1-9/16"	1-7/8"
	24mm	30mm	32mm	32mm	39mm	47mm
CH2	3/4"	3/4"	3/4"	13/16"	15/16"	1"
	18mm	18mm	18mm	21mm	23mm	25mm
d	5/16"	5/16"	5/16"	3/8"	3/8"	7/16"
	8mm	8mm	8mm	10mm	10mm	12mm
Pounds	0.52	0.79	1.05	1.6	2.13	3.09
Grams	235	360	475	725	965	1400

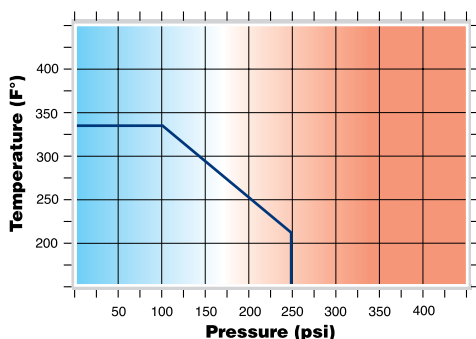


Materials:

- **Body, Bonnet, Wedge:** Hot Forged Brass ASTM C37700
- **Stem and Metal Components:** 36600 Bar Stock
- **Packing:** NA 1030 Gr. (Asbestos Free) is Suitable to a Maximum Temperature of 356° F
- **Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E. It is Suitable to a Maximum Temperature of 482° F
- **Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000 Showing "On-Off"



PRESSURE/TEMPERATURE RATINGS



Working Pressure: 250 PSI

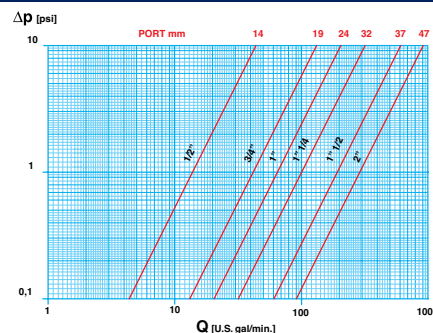
Integral Seat: In Accordance with Nominal Dimension

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 102 PSI at 338° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	12.7	38.1	60.4	95.4	181.2	259.7

cim70.1 Full Port Gate Valve

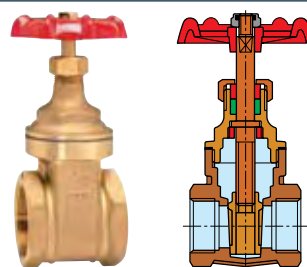
FIPT x FIPT

Applications:

The CIM 70.1 gate valve is manufactured in accordance with BS 5154/B and EN ISO 9001 and is designed for use in a wide range of applications including residential and commercial plumbing, industrial applications, agricultural applications, heating plants, waterworks, steam, and sanitary systems as well as oil, gasoline and other hydrocarbon services.

Features:

The CIM 70.1 is a full port 250 WOG gate valve that features a screwed-in bonnet, non-rising stem, and solid wedge disc design.



Materials:

■ **Body, Bonnet, Wedge:** Hot Forged Brass ASTM C37700

■ **Stem and Metal Components:** 36600 Bar Stock

■ **Packing:** NA 1030 Gr. (Asbestos Free) is Suitable to a Maximum Temperature of 356° F

■ **Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E. It is Suitable to a Maximum Temperature of 482° F

■ **Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000 Showing "On-Off"

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
Cim No.	70-04	70-06	70-07	70-08	70-09	70-10	70-11	70-12	70-14	70-15	70-16

cim70PRS.1 cimPRESS™ Full Port Gate Valve

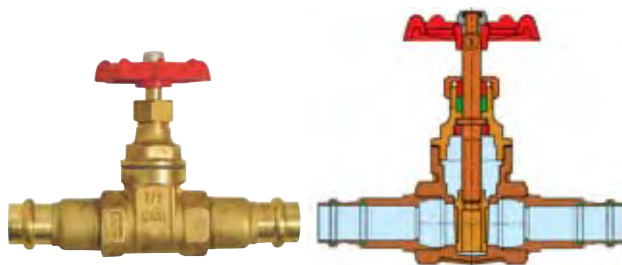
CimPRESS x CimPRESS

Features:

CimPRESS™ valves are manufactured from DZR "CR" corrosion-resistant brass and feature double EPDM-ASTM D 2000 M2 O-rings to insure a leak proof cold crimped seal.

All CimPRESS™ valves are designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. CimPRESS™ valves are suitable for use with nonaggressive fluid applications including residential, industrial, and agricultural systems.

(CimPRESS is not intended for use with soft or rolled copper tubing) 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.



Materials:

■ **Body:** Hot Forged Brass ASTM C37700

■ **Stem and Metal Components:** 36600 Bar Stock

■ **Packing:** NA 1030 Gr. (Asbestos Free) is Suitable to a Maximum Temperature of 356° F

■ **Packing Gland:** AF 15/MA Heat Resistant Fiber, (Asbestos Free) Elastomers, Synthetic Resin and P.T.F.E.

■ **Handwheel:** Hard Duraluminum Alloy Epoxy Painted Red RAL 3000 Showing "On-Off"

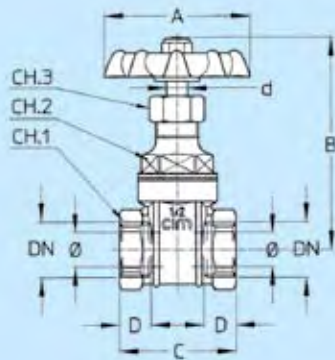
■ **O-Ring:** EPDM - ASTM D 2000 M2

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	70PRS-04	70PRS-06	70PRS-07	70PRS-08	70PRS-09	70PRS-10

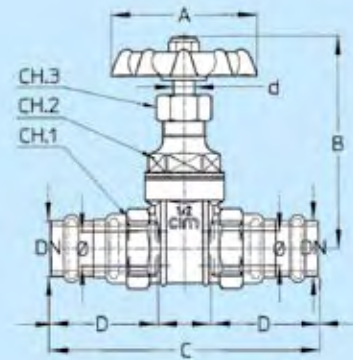
cim70.1 & 70PRS.1 Full Port Gate Valves

Size Port inch Port mm	1/2" 0.55" 14mm	3/4" 0.75" 20mm	1" 0.98" 25mm	1-1/4" 1.26" 32mm	1-1/2" 1.46" 37mm	2" 1.85" 47mm	2-1/2" 2.32" 59mm	3" 2.76" 70mm	4" 3.7" 94mm	5" 4.65" 118mm	6" 5.51" 140mm
A	2-3/16" 55mm	2-3/8" 60mm	2-9/16" 65mm	2-15/16" 75mm	3-1/8" 80mm	3-9/16" 90mm	4-5/16" 110mm	4-3/4" 120mm	5-1/2" 140mm	6-7/8" 175mm	6-7/8" 175mm
B	3-1/8" 80mm	3-3/4" 95mm	4" 101mm	4-3/4" 120mm	5-5/16" 135mm	5-15/16" 150mm	7-1/4" 185mm	8-1/16" 205mm	10-1/4" 260mm	13" 330mm	15-1/4" 386mm
C	1-3/4" 44mm	1-7/8" 48mm	2-1/8" 54mm	2-3/8" 60mm	2-1/2" 64mm	2-13/16" 72mm	3-1/8" 80mm	3-3/8" 85mm	3-13/16" 97mm	4-7/16" 112mm	4-3/4" 120mm
C 70PRS.1	5-3/4" 146mm	5-7/8" 150mm	6-1/8" 156mm	6-3/8" 162mm	6-1/2" 166mm	6-13/16" 174mm	N/A				
D 70.1	1/2" 12mm	9/16" 14mm	9/16" 15mm	11/16" 17mm	11/16" 17mm	13/16" 21mm	13/16" 21mm	7/8" 22mm	15/16" 23mm	1-1/8" 28mm	1-1/8" 29mm
D 70PRS.1	2-1/2" 63mm	2-9/16" 65mm	2-9/16" 66mm	2-11/16" 68mm	2-11/16" 68mm	2-13/16" 72mm	N/A				
CH1	1-1/16" 27mm	1-3/8" 34mm	1-9/16" 40mm	2" 50mm	2-3/16" 56mm	2-3/4" 69mm	3-3/8" 85mm	4" 102mm	5" 127mm	6-1/8" 155mm	7-1/16" 180mm
CH2	15/16" 24mm	1-3/16" 30mm	1-1/4" 32mm	1-1/4" 32mm	1-9/16" 39mm	1-7/8" 47mm	2-3/16" 55mm	2-5/8" 66mm	3-5/16" 84mm	4-1/2" 114mm	5-1/4" 134mm
CH3	3/4" 18mm	3/4" 18mm	3/4" 18mm	13/16" 21mm	15/16" 23mm	1" 25mm	1-3/16" 30mm	1-3/16" 30mm	1-7/16" 37mm	1-3/4" 45mm	1-15/16" 49mm
d	5/16" 8mm	5/16" 8mm	5/16" 8mm	3/8" 10mm	3/8" 10mm	7/16" 12mm	1/2" 13mm	9/16" 14mm	11/16" 17mm	3/4" 19mm	13/16" 21mm
Weight 70.1	0.54 lbs 245 g	0.83 lbs 375 g	1.10 lbs 500 g	1.65 lbs 750 g	2.18 lbs 990 g	3.15 lbs 1430 g	5.38 lbs 2440 g	7.72 lbs 3500 g	13.34 lbs 6050 g	22.27 lbs 10100 g	30.97 lbs 14050 g
Weight 70PRS.1	0.54 lbs 245 g	0.83 lbs 375 g	1.10 lbs 500 g	1.65 lbs 750 g	2.18 lbs 990 g	3.15 lbs 1430 g	N/A				
70PRS.1 Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm	N/A				

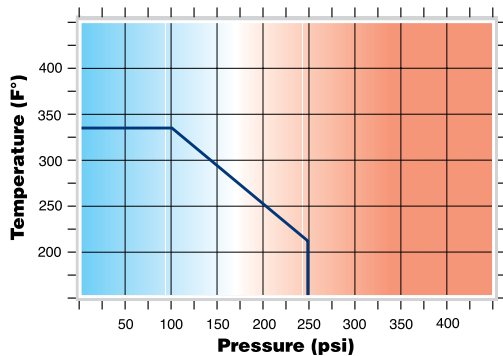
70.1



70PRS.1



PRESSURE/TEMPERATURE RATINGS



Working Pressure: 250 PSI

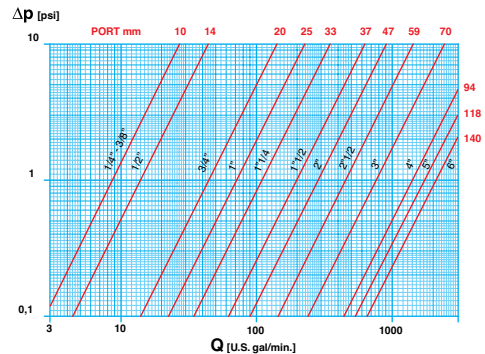
Integral Seat: In Accordance with Nominal Dimension

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 102 PSI at 338° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
13.9	45.5	71.6	110.5	199.5	283.3	431.7	766	1400.2	1734.6	2099.9

cim80.1 Swing Check Valve

FIPT x FIPT

Applications:

The CIM 80.1 swing check valve is manufactured in accordance with BS 5154/B-PN16 and EN ISO 9002 and is designed for either vertical or horizontal installation for use in residential and commercial plumbing; industrial applications; and heating, sanitary, pneumatic, waterworks, autoclaves, and pump systems.

Features:

The CIM 80.1 swing check valve with screwed bonnet and metal to metal seating features a one piece hot forged brass EN 12165 - CW617N swing disc designed for a low pressure drop and reduced water-hammer. The CIM 80.1 is suitable for vertical or horizontal installation in a pipeline to accommodate flow in one direction.



Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	80-04	80-06	80-07	80-08	80-09	80-10	80-11	80-12	80-14

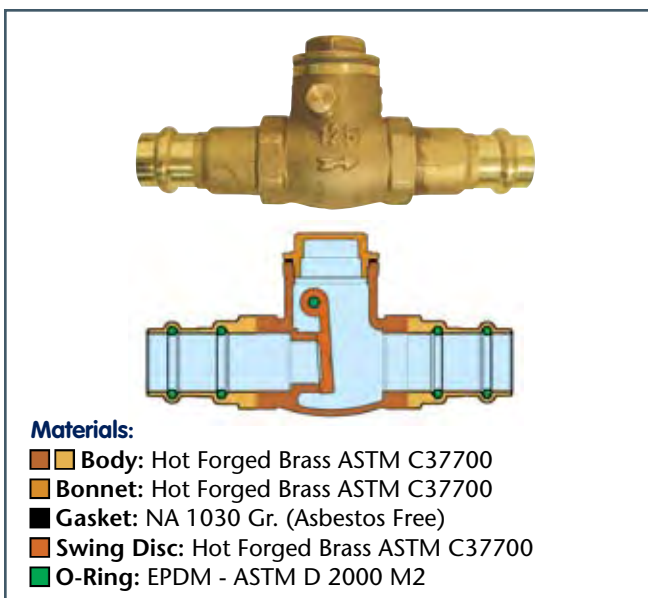
cim80PRS.1 cimPRESS™ Swing Check Valve

CimPRESS x CimPRESS

Features:

CimPRESS™ valves are manufactured from DZR "CR" corrosion-resistant brass and feature double EPDM-ASTM D 2000 M2 O-rings to insure a leak proof cold crimped seal.

All CimPRESS™ valves are designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. CimPRESS™ valves are suitable for use with nonaggressive fluid applications including residential, industrial, and agricultural systems. (CimPRESS is not intended for use with soft or rolled copper tubing) 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.

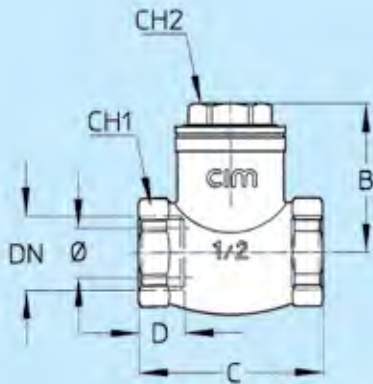


Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	80PRS-04	80PRS-06	80PRS-07	80PRS-08	80PRS-09	80PRS-10

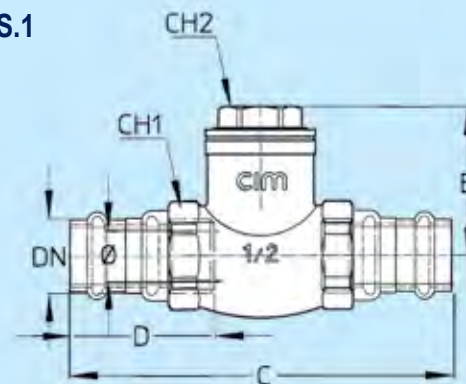
cim80.1 & 80PRS.1 Swing Check Valves

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
B	1-5/8" 42mm	1-3/4" 45mm	2-1/16" 52mm	2-3/8" 60mm	2-7/16" 62mm	2-13/16" 72mm	3-3/8" 86mm	3-3/4" 94mm	4-9/16" 115mm
C	2-1/16" 52mm	2-7/16" 62mm	2-3/4" 70mm	3-5/16" 84mm	3-7/16" 88mm	4-3/16" 106mm	4-3/4" 120mm	5-7/16" 138mm	6-11/16" 170mm
C 80PRS.1	6-1/16" 154mm	6-7/16" 164mm	6-3/4" 172mm	7-5/16" 186mm	9-7/16" 190mm	10-3/16" 208mm	N/A		
D	7/16" 11mm	1/2" 13mm	9/16" 14mm	5/8" 16mm	13/16" 16mm	3/4" 18mm	13/16" 21mm	13/16" 21mm	15/16" 23mm
D 80PRS.1	2-7/16" 62mm	2-1/2" 64mm	2-9/16" 65mm	2-5/8" 67mm	2-13/16" 67mm	2-3/4" 69mm	N/A		
CH1	1-1/8" 28mm	1-3/8" 34mm	1-5/8" 41mm	1-15/16" 50mm	2-1/4" 57mm	2-3/4" 70mm	3-3/8" 85mm	3-15/16" 100mm	4-15/16" 126mm
CH2	13/16" 21mm	1" 26mm	1-1/4" 32mm	1-7/16" 37mm	1-5/8" 42mm	2-1/16" 52mm	2-9/16" 65mm	2-15/16" 75mm	3-1/2" 89mm
Weight 80.1	0.51 lbs 230 g	0.74 lbs 335 g	1.06 lbs 480 g	1.59 lbs 720 g	1.94 lbs 880 g	3.21 lbs 1455 g	4.59 lbs 2080 g	6.64 lbs 3010 g	12.24 lbs 5550 g
Weight 80PRS.1	0.51 lbs 230 g	0.74 lbs 335 g	1.06 lbs 480 g	1.59 lbs 720 g	1.94 lbs 880 g	3.21 lbs 1455 g	N/A		
80PRS.1 Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm	N/A		

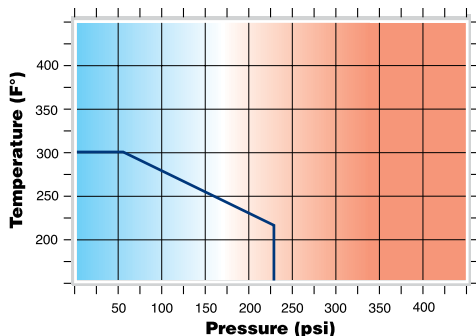
80.1



80PRS.1



PRESSURE/TEMPERATURE RATINGS



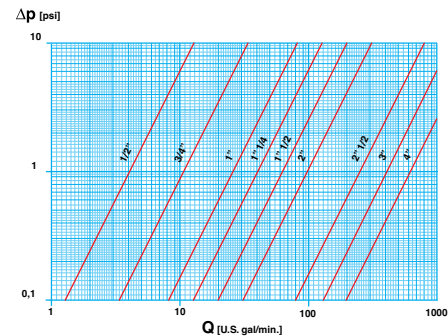
Working Pressure: 232 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 54 PSI at 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
3.8	10.1	24.4	37.1	59.4	91.1	235.3	381.4	572.3

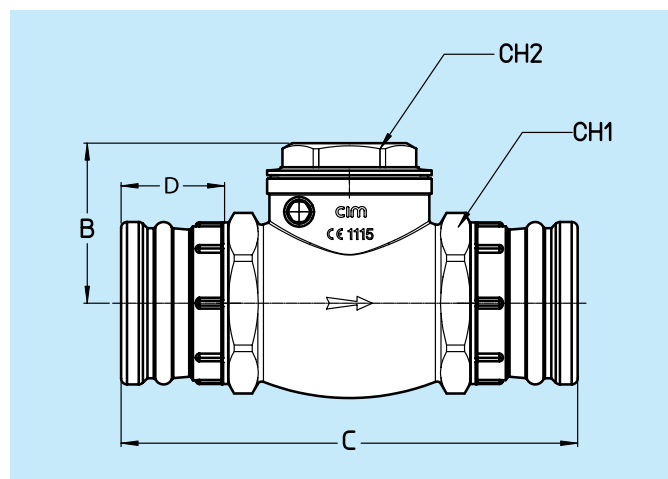
cim80XLB.1 cimPRESS™ XLB Swing Check Valve

CimPRESS x CimPRESS • For Use with XL Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	80XLB-11	80XLB-12	80XLB-14



Size	2-1/2"	3"	4"
B	3-7/8" 86mm	3-3/4" 94mm	4-1/2" 115mm
C	9-13/16" 246mm	10-3/8" 264mm	11-7/8" 302mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH1	3-3/8" 85mm	3-7/16" 100mm	4-15/16" 126mm
CH2	2-9/16" 65mm	2-15/16" 75mm	3-1/2" 89mm
Pounds Grams	7.85 3560	10.75 4875	18.35 8325
Required Pipe Insertion Depth	2.1720" 55.16mm	2.1675" 55.06mm	2.3670" 60.12mm



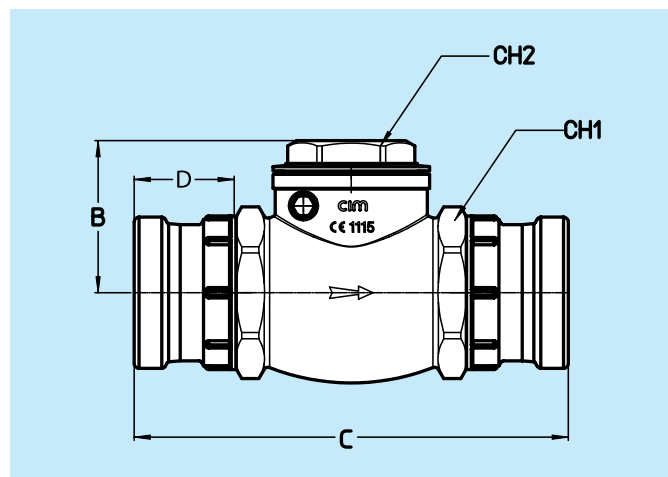
cim80XLC.1 cimPRESS™ XLC Swing Check Valve

CimPRESS x CimPRESS • For Use with XL-C Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	80XLC-11	80XLC-12	80XLC-14

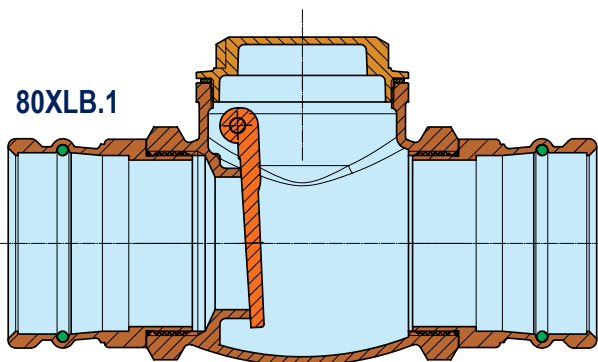


Size	2-1/2"	3"	4"
B	3-7/8" 86mm	3-3/4" 94mm	4-1/2" 115mm
C	9-13/16" 246mm	10-3/8" 264mm	11-7/8" 302mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH1	3-3/8" 85mm	3-7/16" 100mm	4-15/16" 126mm
CH2	2-9/16" 65mm	2-15/16" 75mm	3-1/2" 89mm
Pounds Grams	7.4 3360	10.28 4665	17.81 8080
Required Pipe Insertion Depth	2.1685" 55.08mm	2.1525" 54.67mm	2.3565" 59.85mm

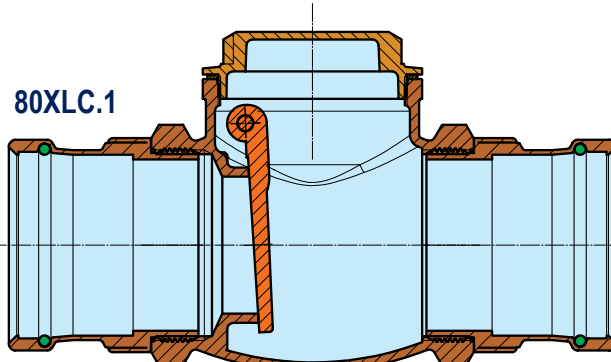


cim80XLB.1 & 80XLC.1 cimPRESS™ Swing Check Valves

80XLB.1



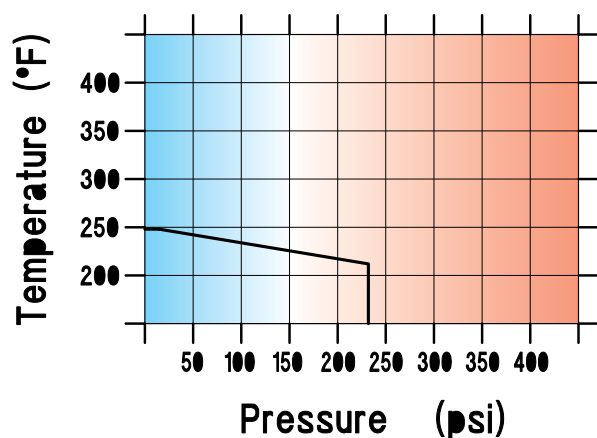
80XLC.1



Materials:

- **Body:** Hot Forged Brass ASTM C37700
- **Bonnet:** Hot Forged Brass ASTM C37700
- **Gasket:** NA 1100
- **Swing Disc:** Hot Forged Brass ASTM C37700
- **O-Ring:** EPDM - ASTM D 2000 M2

PRESSURE/TEMPERATURE RATINGS



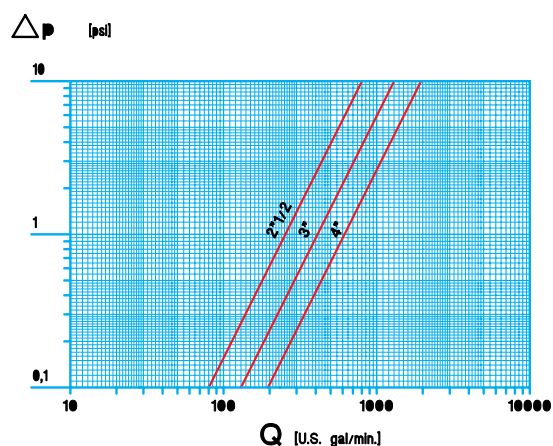
Working Pressure: 232 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 54 PSI at 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	2-1/2"	3"	4"
CV	254	411	617

cim30.1 Inline Check Valve cim30A.1 Inline Check Foot Valve

FIPT x FIPT

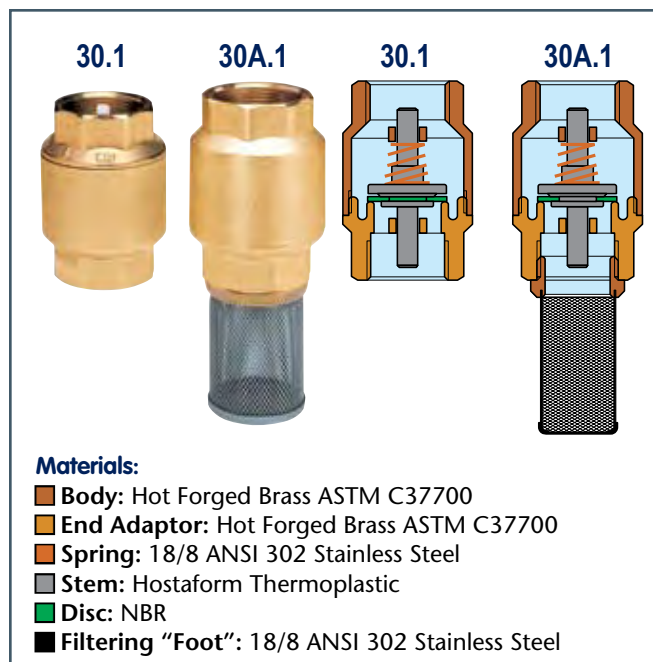
Applications:

The CIM 30.1 inline check valve is manufactured in accordance with EN ISO 9002 and is designed for vertical, horizontal or angled installation for use in domestic and commercial plumbing, and sanitary, autoclaves, pump and compressed air systems.

Features:

The CIM 30.1 inline check valve utilizes a compact noiseless design that provides a low pressure drop and reduced water-hammer. The CIM 30.1 is built with a double stem guide to facilitate trouble-free operation and a stainless steel spring-loaded Hostaform thermoplastic free rotating stem that opens at .36 PSI. The CIM 30.1 will provide a full flow area equal to the nominal size, and can be installed vertically, horizontally or at an angle in a pipeline to accommodate flow in one direction.

The CIM 30A.1 foot valve utilizes our 30.1 inline check valve combined with an 18/8 ANSI 302 stainless steel filtering "foot".



Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
Cim No.	30-03	30-04	30-06	30-07	30-08	30-09	30-10	30-11	30-12	30-14
Cim No.	N/A	30A-04	30A-06	30A-07	30A-08	30A-09	30A-10	30A-11	30A-12	30A-14

cim30PRS.1 cimPRESS™ Inline Check Valve

CimPRESS x CimPRESS

Features:

CimPRESS™ valves are manufactured from DZR "CR" corrosion-resistant brass and feature double EPDM-ASTM D 2000 M2 O-rings to insure a leak proof cold crimped seal.

All CimPRESS™ valves are designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. CimPRESS™ valves are suitable for use with nonaggressive fluid applications including residential, industrial, and agricultural systems.

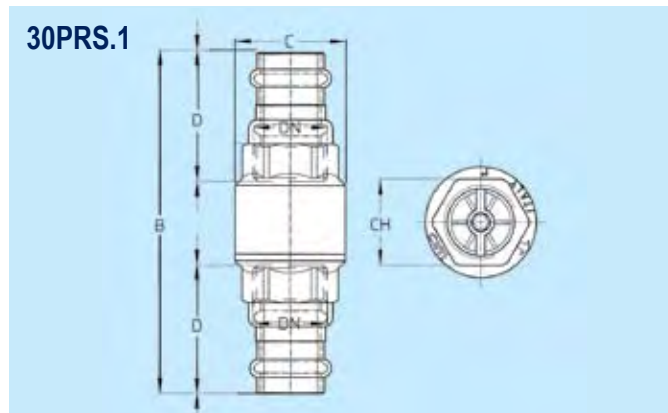
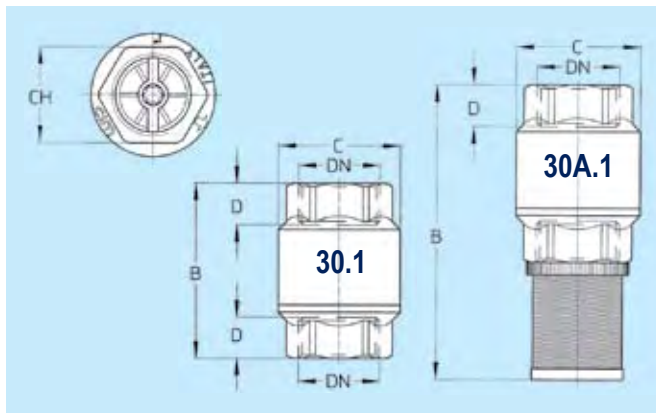
(CimPRESS is not intended for use with soft or rolled copper tubing) CimPRESS™ valves eliminate the torch and the need to clean, flux and solder in order to create a permanent watertight valve connection; significantly reducing average installation time while avoiding potential fire risks and other problems associated with sweat connections, saving time and money.



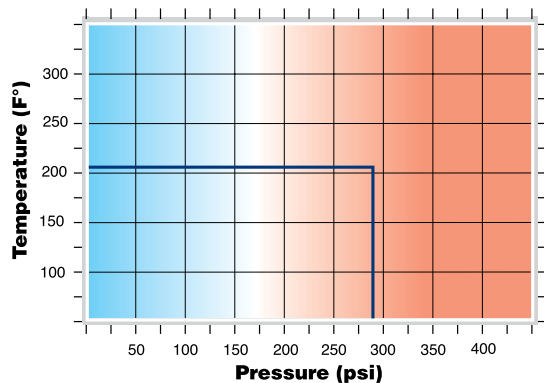
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	30PRS-04	30PRS-06	30PRS-07	30PRS-08	30PRS-09	30PRS-10

cim30.1, 30A.1 & 30PRS.1 Inline Check Valves

Size	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
B 30.1	2-3/16" 55mm	2-3/16" 55mm	2-7/16" 62mm	2-13/16" 72mm	3-1/4" 82mm	3-3/4" 96mm	4-5/16" 109mm	5-1/16" 129mm	5-9/16" 141mm	5-3/4" 146mm
B 30A.1	N/A	3-3/8" 98mm	4-5/16" 110mm	4-3/4" 120mm	5-1/2" 140mm	6-7/16" 163mm	7-9/16" 192mm	8-7/16" 214mm	9-1/2" 242mm	10-3/16" 259mm
B 30PRS.1	N/A	6-3/16" 157mm	6-7/16" 164mm	6-13/16" 174mm	7-1/4" 184mm	7-3/4" 198mm	8-5/16" 211mm	N/A		
C	1-3/8" 35mm	1-3/8" 35mm	1-5/8" 42mm	2" 50mm	2-3/8" 60mm	2-3/4" 70mm	3-1/4" 83mm	4-1/16" 103mm	4-13/16" 123mm	6-5/16" 160mm
D	3/8" 10mm	1/2" 12mm	1/2" 13mm	9/16" 14mm	5/8" 16mm	11/16" 18mm	13/16" 20mm	1" 25mm	1" 25mm	1" 26mm
D 30PRS.1	N/A	2-1/2" 63mm	2-1/2" 63mm	2-9/16" 65mm	2-5/8" 67mm	2-11/16" 69mm	2-13/16" 71mm	N/A		
CH	1" 25mm	1" 25mm	1-1/2" 31mm	1-9/16" 39mm	1-7/8" 48mm	2-3/16" 55mm	2-5/8" 67mm	3-7/16" 88mm	3-15/16" 100mm	4-13/16" 123mm
Weight 30.1	0.39 lbs 175 g	0.34 lbs 155 g	0.53 lbs 240 g	0.82 lbs 370 g	1.06 lbs 480 g	2.02 lbs 915 g	2.91 lbs 1320 g	5.52 lbs 2505 g	7.69 lbs 3490 g	11.33 lbs 5140 g
Weight 30PRS.1	N/A	0.34 lbs 155 g	0.53 lbs 240 g	0.82 lbs 370 g	1.06 lbs 480 g	2.02 lbs 915 g	2.91 lbs 1320 g	N/A		
30PRS.1 Pipe Insertion Depth	N/A	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm	N/A		



PRESSURE/TEMPERATURE RATINGS

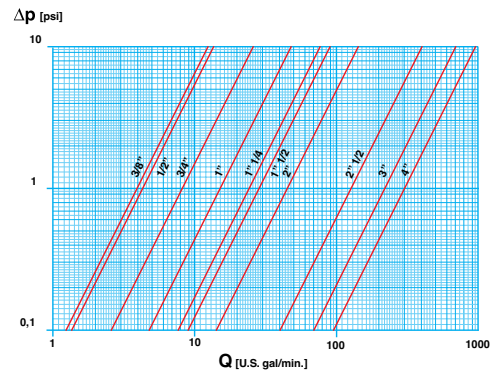


Working Pressure: 290 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
3.93	4.3	8.1	15	24.3	28.9	44	124.9	222.1	305.4

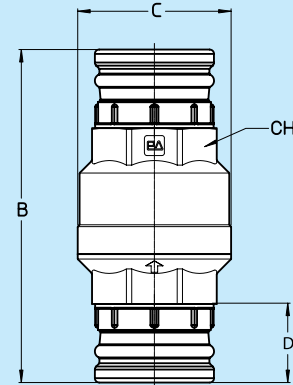
cim30XLB.1 cimPRESS™ XLB Inline Check Valve

CimPRESS x CimPRESS • For Use with XL Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	30XLB-11	30XLB-12	30XLB-14



Size	2-1/2"	3"	4"
B	10-1/16" 255mm	10-1/2" 267mm	10-15/16" 278mm
C	4-1/16" 103mm	4-7/8" 123mm	6-5/16" 160mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH	3-7/16" 88mm	3-15/16" 100mm	4-7/8" 123mm
Pounds Grams	8.78 3981	11.8 5353	17.45 7914
Required Pipe Insertion Depth	2.1720" 55.16mm	2.1675" 55.06mm	2.3670" 60.12mm



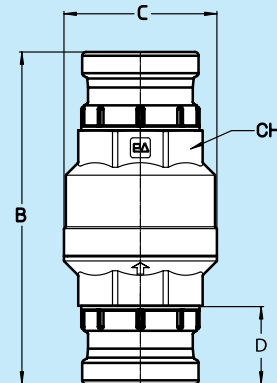
cim30XLC.1 cimPRESS™ XLC Inline Check Valve

CimPRESS x CimPRESS • For Use with XL-C Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	30XLC-11	30XLC-12	30XLC-14

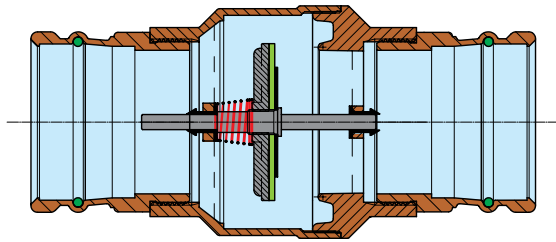


Size	2-1/2"	3"	4"
B	10-1/16" 255mm	10-1/2" 267mm	10-15/16" 278mm
C	4-1/16" 103mm	4-7/8" 123mm	6-5/16" 160mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH	3-7/16" 88mm	3-15/16" 100mm	4-7/8" 123mm
Pounds Grams	8.34 3785	11.34 5142	16.9 7668
Required Pipe Insertion Depth	2.1685" 55.08mm	2.1525" 54.67mm	2.3565" 59.85mm

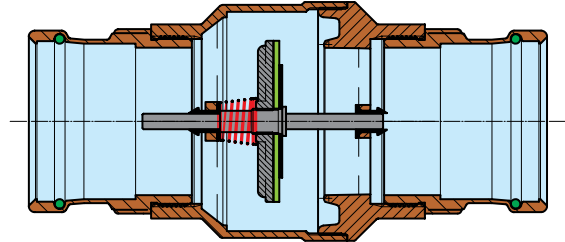


cim30XLB.1 & 30XLC.1 cimPRESS™ Inline Check Valves

30XLB.1



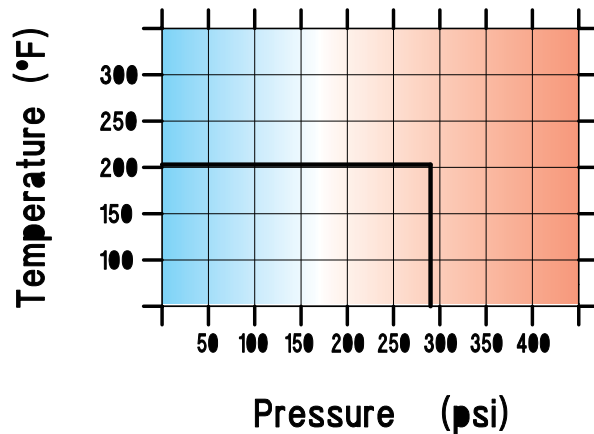
30XLC.1



Materials:

- **Body:** Hot Forged Brass ASTM C37700
- **Stem:** Hot Forged Brass ASTM C37700
- **Spring:** 18/8 ANSI 302 Stainless Steel
- **Disc:** EPDM
- **O-Ring:** EPDM - ASTM D 2000 M2

PRESSURE/TEMPERATURE RATINGS

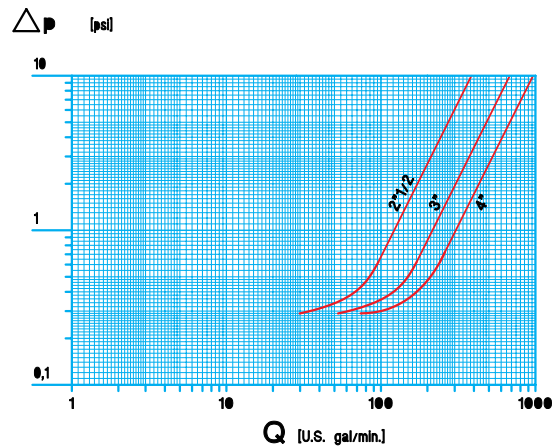


Working Pressure: 290 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	2-1/2"	3"	4"
CV	124.9	222.1	305.4

cim74.1 “Y” Strainer

FIPT x FIPT

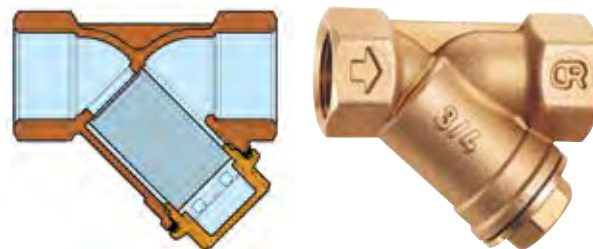
Applications:

The CIM 74.1 Y Strainer is manufactured in accordance with BS 5154/B-PN20 and EN ISO 9002 and is designed for use in residential and commercial plumbing, industrial applications, agricultural systems, waterworks, saturated steam or high temperature hot water service, as well as oil, gasoline and other hydrocarbon services (CIM 74/ACRG).

Features:

The CIM 74.1 Y Strainer is built from a cast corrosion resistant brass “CR” EN 1982-CC7525, with a 18/8 ANSI302 stainless steel strainer screen designed to collect impurities such as sand, rust, and metal shavings to safeguard pipes and valves from mechanical damage and deposits.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	74-04	74-06	74-07	74-08	74-09	74-10



Materials:

- **Body:** Corrosion Resistant Cast Nondezincificable Brass
- **Bonnet:** Hot Forged Brass ASTM C37700
- **Strainer Screen:** 18/8 ANSI302 Stainless Steel
- **Gasket:** NA 1100 (Asbestos Free) Max. Temp. of 842° F
- **O-Ring:** HNBR - ASTM D 2000 M2

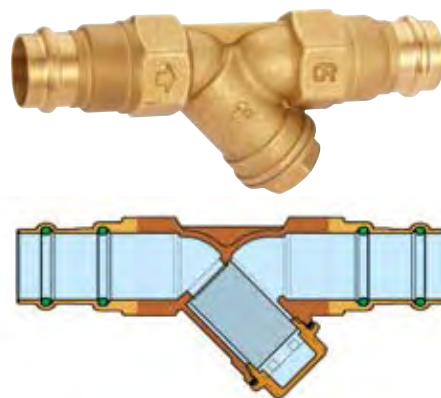
cim74PRS.1 cimPRESS™ “Y” Strainer

CimPRESS x CimPRESS

Features:

CimPRESS™ valves are manufactured from DZR “CR” corrosion-resistant brass and feature double EPDM-ASTM D 2000 M2 O-rings to insure a leak proof cold crimped seal.

All CimPRESS™ valves are designed for direct connection to hard drawn copper and/or stainless steel tube using standard press tools. CimPRESS™ valves are suitable for use with nonaggressive fluid applications including residential, industrial, and agricultural systems. (CimPRESS is not intended for use with soft or rolled copper tubing) 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.



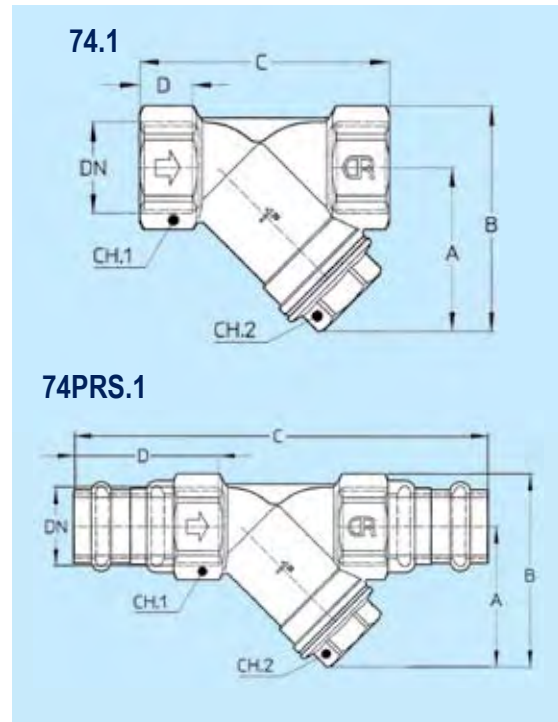
Materials:

- **Body:** Corrosion Resistant Cast Nondezincificable Brass “CR”
- **Bonnet:** Hot Forged Brass C37700
- **Strainer Screen:** 18/8 ANSI302 Stainless Steel
- **Gasket:** NA 1100 (Asbestos Free) Max. Temp. of 842° F
- **O-Ring:** EPDM - ASTM D 2000 M2

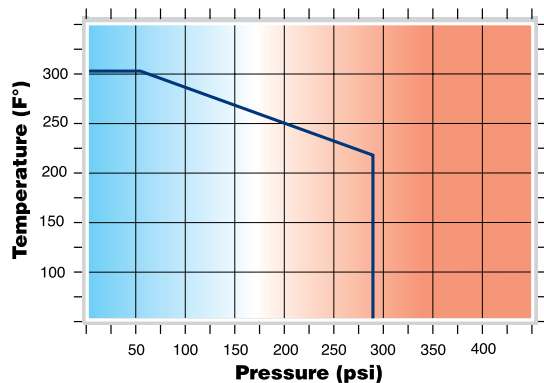
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	74PRS-04	74PRS-06	74PRS-07	74PRS-08	74PRS-09	74PRS-10

cim74.1 & 74PRS.1 “Y” Strainers

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	1-9/16" 39mm	1-15/16" 49.5mm	2-5/16" 59mm	2-3/4" 70mm	3-3/16" 81mm	3-7/8" 99mm
B	2-1/8" 54mm	2-11/16" 68mm	3-1/4" 82mm	3-15/16" 99mm	4-5/16" 112mm	5-7/16" 138.5mm
C	2-11/16" 68mm	3" 77mm	3-9/16" 91mm	4-1/4" 108mm	4-9/16" 116mm	5-9/16" 143mm
C 74PRS.1	6-11/16" 170mm	7" 179mm	7-9/16" 193mm	8-1/4" 210mm	8-9/16" 218mm	9-9/16" 245mm
D	9/16" 15mm	5/8" 16.5mm	3/4" 19mm	13/16" 21.5mm	13/16" 21.5mm	1" 26mm
D 74PRS.1	2-9/16" 66mm	2-5/8" 67mm	2-3/4" 70mm	2-13/16" 72mm	2-13/16" 72mm	3" 77mm
CH1	1-1/8" 28mm	1-5/16" 33mm	1-9/16" 40mm	2" 51mm	2-1/4" 56mm	2-13/16" 71mm
CH2	3/4" 18mm	7/8" 22mm	1-1/8" 29mm	1-5/16" 34mm	1-9/16" 39mm	2-3/16" 25mm
Weight 74.1	0.46 lbs 210 g	0.69 lbs 315 g	1 lbs 455 g	1.68 lbs 460 g	2.15 lbs 975 g	4.02 lbs 1825 g
Weight 74PRS.1	0.46 lbs 210 g	0.69 lbs 315 g	1 lbs 455 g	1.68 lbs 460 g	2.15 lbs 975 g	4.02 lbs 1825 g
74PRS.1 Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm



PRESSURE/TEMPERATURE RATINGS



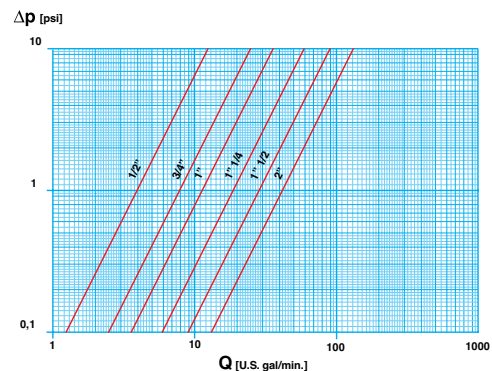
Working Pressure: 290 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 54 PSI at 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

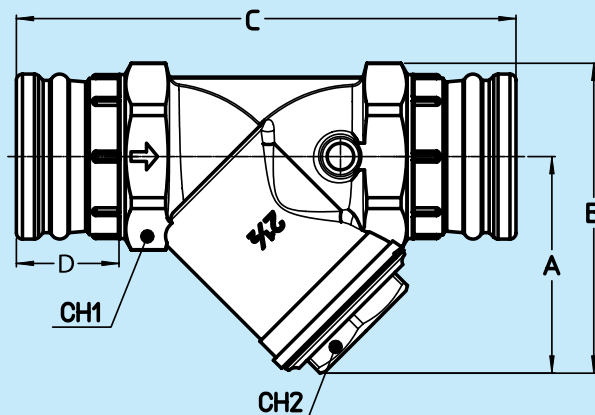
SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	3.9	8.1	11.6	18.5	27.8	40.5

cim74XLB.1 cimPRESS™ XLB “Y” Strainer

CimPRESS x CimPRESS • For Use with XL Press Jaws and Rings Only

Size	2-1/2"	3"	4"
Cim No.	74XLB-11	74XLB-12	74XLB-14

Size	2-1/2"	3"	4"
A	4-1/2" 115mm	5-3/8" 136mm	6-9/16" 167mm
B	6-7/16" 163mm	7-11/16" 195mm	9-7/16" 240mm
C	10-3/4" 273mm	11-7/8" 301mm	13-3/4" 349mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH1	3-7/16" 88mm	4" 102mm	5-1/16" 129mm
CH2	2-9/16" 65mm	2-15/16" 75mm	3-7/8" 85mm
Pounds Grams	8.79 3985	13.45 6095	21.64 9815
Required Pipe Insertion Depth	2.1720" 55.16mm	2.1675" 55.06mm	2.3670" 60.12mm

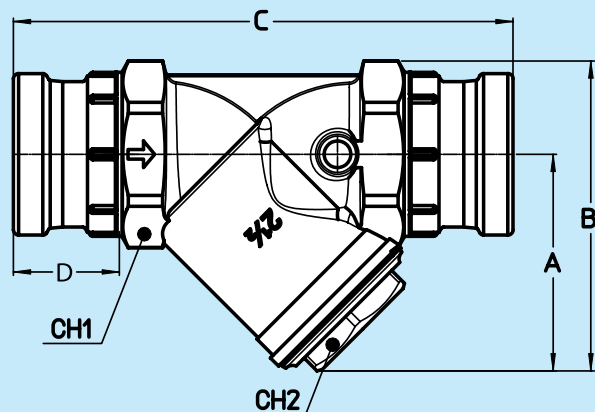


cim74XLC.1 cimPRESS™ XLC “Y” Strainer

CimPRESS x CimPRESS • For Use with XL-C Press Jaws and Rings Only

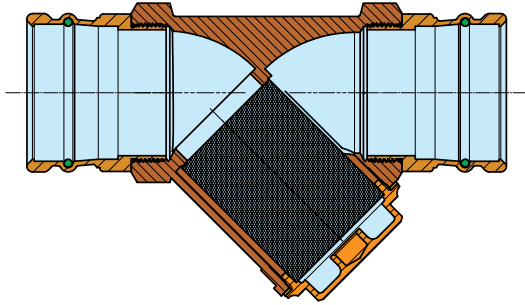
Size	2-1/2"	3"	4"
Cim No.	74XLC-11	74XLC-12	74XLC-14

Size	2-1/2"	3"	4"
A	4-1/2" 115mm	5-3/8" 136mm	6-9/16" 167mm
B	6-7/16" 163mm	7-11/16" 195mm	9-7/16" 240mm
C	10-3/4" 273mm	11-7/8" 301mm	13-3/4" 349mm
D	2-3/16" 55mm	2-3/16" 55mm	2-3/8" 60mm
CH1	3-7/16" 88mm	4" 102mm	5-1/16" 129mm
CH2	2-9/16" 65mm	2-15/16" 75mm	3-7/8" 85mm
Pounds Grams	8.36 3790	12.97 5885	21.1 9570
Required Pipe Insertion Depth	2.1685" 55.08mm	2.1525" 54.67mm	2.3565" 59.85mm

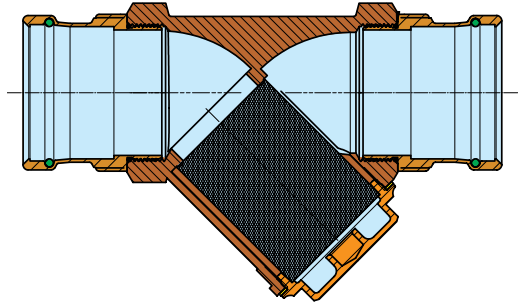


cim74XLB.1 & 74XLC.1 cimPRESS™ “Y” Strainers

74XLB.1



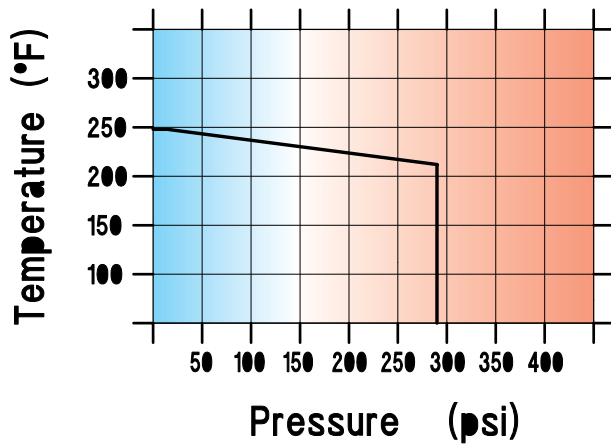
74XLC.1



Materials:

- **Body:** Corrosion Resistant Cast Nondezincificable Brass “CR”
- **Adaptor:** Hot Forged Brass C37700
- **Bonnet:** Hot Forged Brass C37700
- **Strainer Screen:** 18/8 ANSI302 Stainless Steel
- **Gasket:** NA 1100 Asbestos Free) Maximum Temperature of 842° F
- **O-Ring:** EPDM - ASTM D 2000 M2

PRESSURE/TEMPERATURE RATINGS



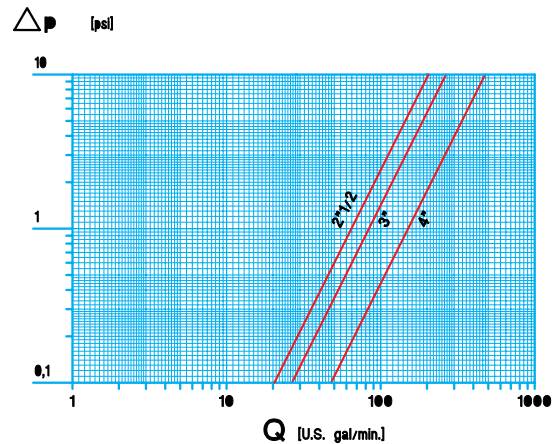
Working Pressure: 290 PSI

Max. Operating Temperature: Working Limit for Fluids 14° F – 212° F

Saturated Steam: 54 PSI at 302° F

Test Pressures: According to ISO 5208

FLOW AND PRESSURE DROP



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

Element: Water - Temperature: 59.9° F

SIZE	2-1/2"	3"	4"
CV	65	84	151

cim747.1 Balancing Valve with Fixed Orifice

FIPT x FIPT

Applications:

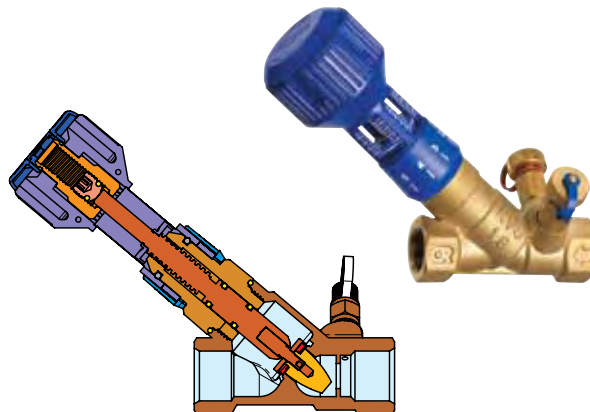
The CIM 747.1 balancing valve is manufactured in accordance with EN ISO 9001 and is designed to provide high accuracy flow balancing and measurement across all valve settings. The CIM 747.1 is manufactured of corrosion resistant DZR brass and is suitable for both heating (LPHW) and cooling applications at working pressures up to 232 PSI.

Features:

- A compact body design integrating a fixed orifice and test points permitting high accuracy flow measurement to within +/- 5% regardless of valve setting.
- A metal to metal thread locking mechanism designed to accurately lock valve settings enabling the valve to be closed and re-opened to its exact pre-set position.
- A flip-up cap housing individual Allen key for valve position locking.
- Heat and impact resistant nylon non-rising handle with a 360° re-settable index collar and indicator scale which can be read from any angle.
- An EPDM lined valve plug designed to provide increased control and tight shut-off for isolation purposes.

The CIM 747.1 balancing valve has been tested by BSRIA with water containing high air and dirt levels. Testing results demonstrated an excellent tolerance to such conditions providing confidence that the valve will retain a high level of accuracy and repeatability of flow measurement under even the worst system conditions.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	747-04	747-06	747-07	747-08	747-09	747-10



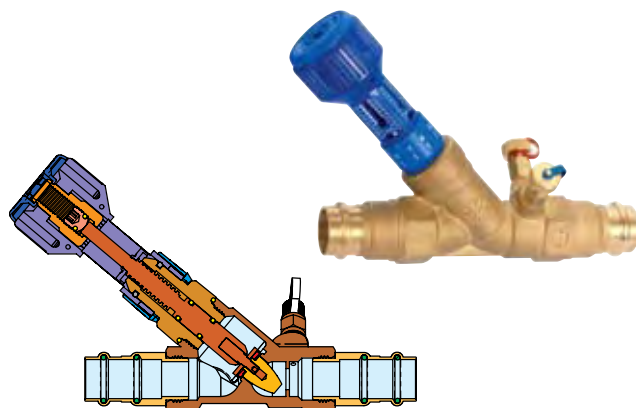
Materials:

- **Body:** Corrosion Resistant Brass "CR"
- **Bonnet:** CW617N Brass
- **Gasket Support:** CW617N Brass
- **Gasket:** EPDM 80 SH
- **Stem and Metal Components:** CW617N Brass
- **Shutter:** CW617N Brass
- **O-Ring:** HNBR
- **Index:** Hostaform
- **Handle:** Nylon
- **Pin:** Steel
- **Entrainer:** CW617N Brass
- **Memory:** CW617N Brass
- **Cap:** Hostaform

cim747PRS.1 cimPRESS™ Balancing Valve with Fixed Orifice

CimPRESS x CimPRESS

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	747PRS-04	747PRS-06	747PRS-07	747PRS-08	747PRS-09	747PRS-10

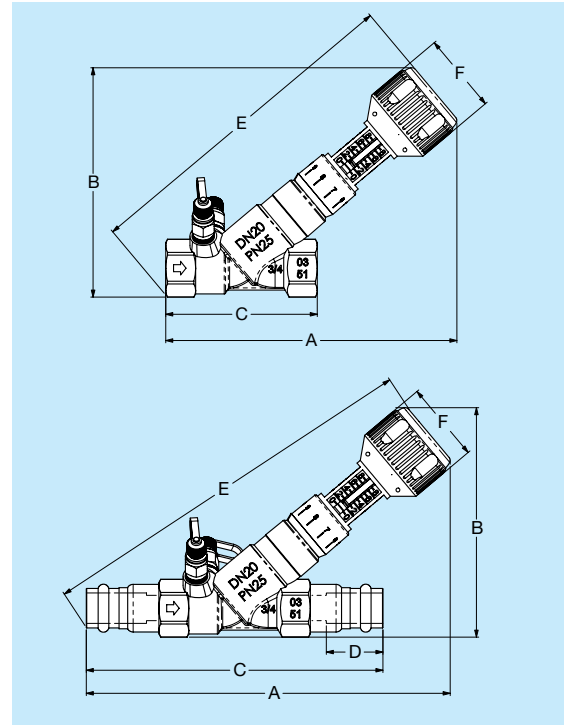


Materials:

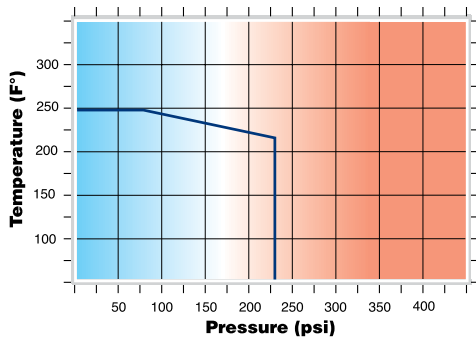
- **Body:** Corrosion Resistant Brass "CR"
- **Bonnet:** CW602N Brass
- **Gasket:** EPDM 80 SH
- **Stem and Metal Components:** CW602N Brass
- **Shutter:** CW602N Brass
- **O-Ring:** HNBR
- **Index:** Hostaform
- **Handle:** Nylon
- **Pin:** Steel
- **Entrainer:** CW617N Brass
- **Memory:** CW617N Brass
- **Cap:** Hostaform
- **Joint:** CW602N Brass
- **O-Ring:** HNBR - ASTM D 2000 M2

cim747.1 & 747PRS.1 Balancing Valves with Fixed Orifice

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A 747.1	6-3/8" 161mm	7-5/16" 185mm	7-5/16" 186mm	8-1/8" 207mm	10-1/4" 259.5mm	11-1/16" 281mm
A 747PRS.1	8-1/16" 205mm	9-3/16" 233mm	9-1/4" 235.5mm	10-1/16" 256mm	12-1/4" 311mm	13-7/16" 341.5mm
B	4-15/16" 125mm	5-3/4" 145.5mm	6-1/4" 158.5mm	6-5/8" 168.5mm	8-3/8" 212mm	9-1/16" 230mm
C 747.1	3-3/8" 85mm	3-13/16" 97mm	4-7/16" 113mm	5-11/16" 144mm	6-7/16" 163mm	7-5/8" 193mm
C 747PRS.1	6-5/8" 168.5mm	7-1/2" 190mm	8-1/8" 207mm	9-3/8" 238mm	10-1/2" 266mm	12-5/16" 313mm
D	1-9/16" 39.8mm	1-3/4" 44mm	1-3/4" 44mm	1-11/16" 43mm	1-7/8" 48mm	2-1/8" 54mm
E 747.1	7-1/4" 184.5mm	8-1/2" 215.5mm	8-13/16" 224mm	9-11/16" 245.5mm	12-3/16" 309mm	13-1/4" 337.5mm
E 747PRS.1	8-3/8" 213mm	9-7/8" 250mm	10-1/8" 257mm	10-3/4" 273mm	13-7/16" 341mm	14-11/16" 373mm
F	2-1/16" 52mm	2-1/16" 52mm	2-1/16" 52mm	2-1/16" 52mm	2-1/4" 58mm	2-1/4" 58mm
Weight 747.1	1.5 lbs 680 g	2.05 lbs 930 g	2.49 lbs 1130 g	3.65 lbs 1655 g	5.43 lbs 2465 g	8.21 lbs 3725 g
Weight 747PRS.1	1.84 lbs 835 g	2.5 lbs 1135 g	3.19 lbs 1445 g	4.62 lbs 2095 g	6.74 lbs 3055 g	10.21 lbs 4630 g
747PRS.1 Pipe Insertion Depth	1.5580" 39.57mm	1.7380" 44.14mm	1.7310" 43.97mm	1.6975" 43.12mm	1.8895" 47.99mm	2.128" 54.04mm



PRESSURE/TEMPERATURE RATINGS

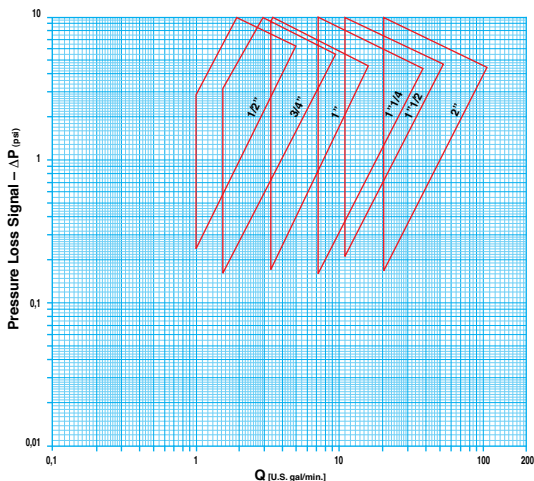


Working Pressure: 232 PSI

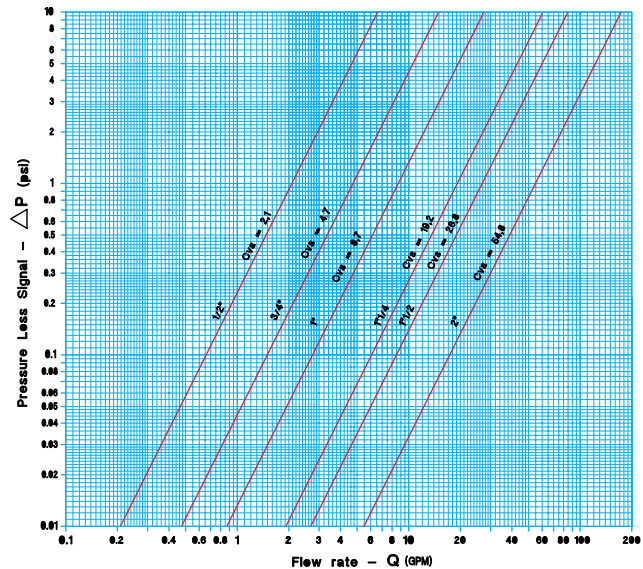
Max. Operating Temperature: Working Limit for Fluids 14° F – 248° F

Test Pressures: According to ISO 5208

OPERATING RANGE



PRESSURE SIGNAL



CV

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

Element: Water - Temperature: 59.9° F

SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
CV	2.1	4.7	8.7	19.2	26.8	54.8

cim787.1 Balancing Valve with Variable Orifice

FIPT x FIPT

Applications:

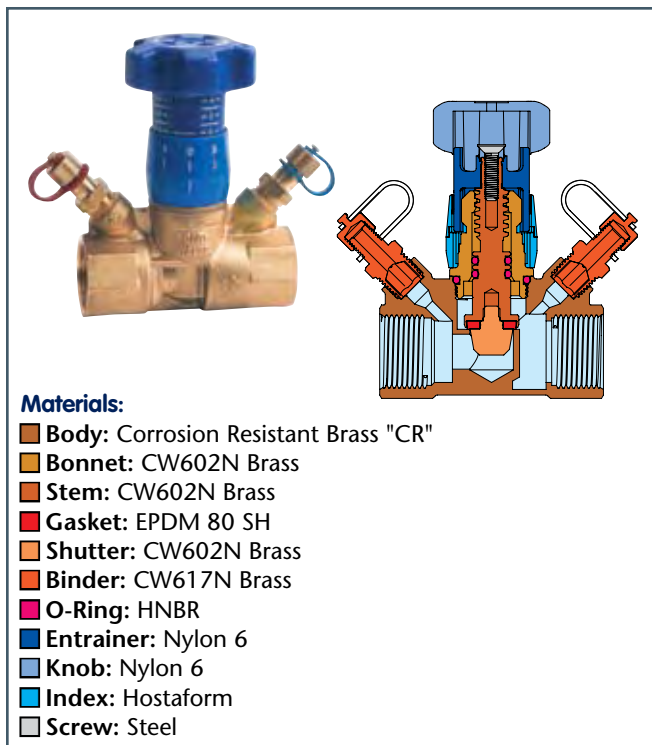
The CIM 787.1 balancing valve is manufactured in accordance with EN ISO 9001 and is designed to provide flow balancing and measurement across all valve settings. The CIM 787.1 balancing valve is suitable for both heating (LPHW) and cooling applications at working pressures up to 290 PSI.

Features:

- A compact body design with integral test points.
- A thread locking mechanism designed to accurately lock valve settings enabling the valve to be closed and re-opened to its exact pre-set position.
- Allen key valve position locking.
- Heat and impact resistant Nylon handle with a 360° re-settable index collar and indicator scale which can be read from any angle.
- An EPDM lined valve plug designed to provide increased control and tight shut-off for isolation purposes.

The CIM 787.1 balancing valve has been tested by BSRIA with water containing high air and dirt levels. Testing results demonstrated an excellent tolerance to such conditions providing confidence that the valve will retain a high level of accuracy and repeatability of flow measurement under even the worst system conditions.

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	787-04	787-06	787-07	787-08	787-09	787-10



cim787CC.1 Balancing Valve with Variable Orifice

Copper x Copper

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	787CC-04	787CC-06	787CC-07	787CC-08	787CC-09	787CC-10



cim787PRS.1 cimPRESS™ Balancing Valve with Variable Orifice

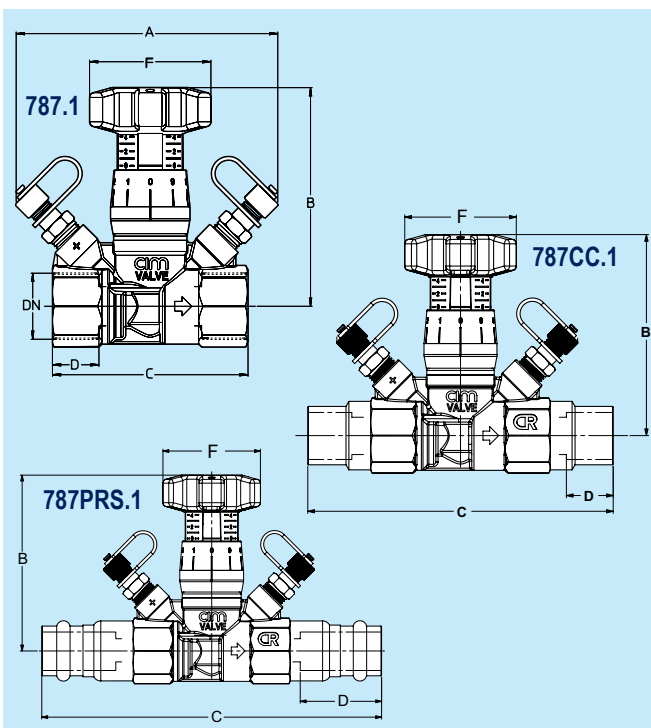
CimPRESS x CimPRESS

Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Cim No.	787PRS-04	787PRS-06	787PRS-07	787PRS-08	787PRS-09	787PRS-10

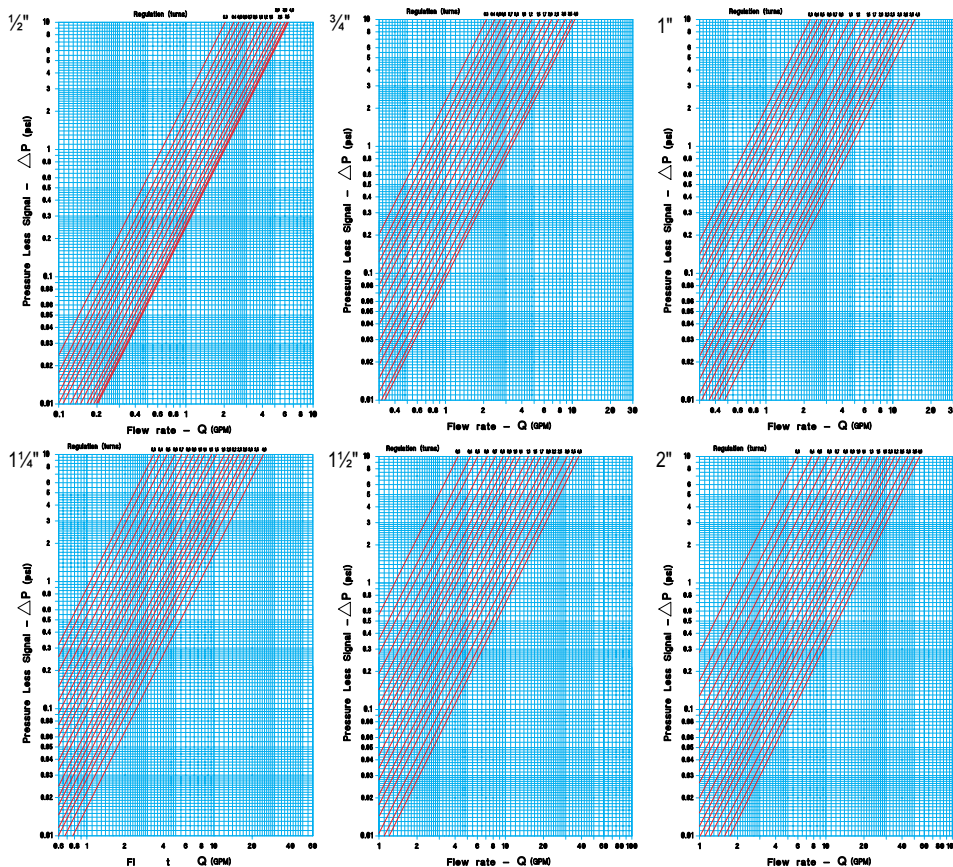


cim787.1, 787CC.1, & 787PRS.1 Balancing Valves w/Variable Orifice

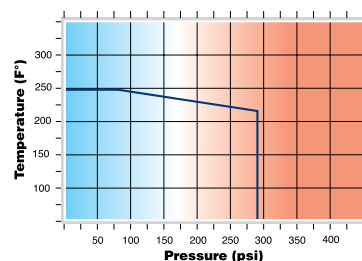
Size	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
A	4-3/16" 106mm	4-3/16" 107mm	4-3/16" 107mm	4-7/8" 123mm	5-1/16" 128mm	5-3/16" 132mm
B	3-7/16" 87.5mm	3-1/2" 89.5mm	3-5/8" 91.5mm	3-7/8" 99mm	3-7/8" 99mm	3-15/16" 100mm
C	2-15/16" 75mm	3-1/8" 80mm	3-7/16" 87mm	4-1/4" 108mm	4-1/2" 115mm	4-7/8" 124mm
C	4-5/8" 117mm	5-3/8" 136mm	6-3/16" 157mm	6-15/16" 177mm	7-9/16" 192mm	5-5/16" 211mm
C	6-1/4" 159mm	6-13/16" 173.5mm	7-1/8" 181.5mm	7-15/16" 202mm	8-9/16" 218mm	9-5/8" 244mm
D	5/8" 16mm	3/4" 19mm	13/16" 21mm	7/8" 22.5mm	15/16" 23mm	1-1/16" 26.5mm
D	1/2" 13mm	3/4" 19.5mm	15/16" 23.8mm	1" 25mm	1-1/8" 28mm	1-5/16" 34mm
D	1-9/16" 39.8mm	1-3/4" 44mm	1-3/4" 44mm	1-11/16" 43mm	1-7/8" 48mm	2-1/8" 54mm
F	1-15/16" 50mm	1-15/16" 50mm	1-15/16" 50mm	1-15/16" 50mm	1-15/16" 50mm	1-15/16" 50mm
Weight	0.84 lbs 380 g	0.97 lbs 440 g	1.18 lbs 535 g	2.12 lbs 960 g	2.47 lbs 1120 g	2.98 lbs 1350 g
Weight	1.08 lbs 490 g	1.32 lbs 600 g	1.76 lbs 800 g	2.89 lbs 1310 g	3.5 lbs 1590 g	4.63 lbs 2100 g
Weight	1.18 lbs 535 g	1.43 lbs 650 g	1.87 lbs 850 g	3.09 lbs 1400 g	3.75 lbs 1700 g	4.96 lbs 2250 g



PRESSURE SIGNAL



PRESSURE/TEMPERATURE RATINGS



Working Pressure: 290 PSI

Maximum Operating Temperature:

Working Limit for Fluids 14° F – 248° F

Test Pressures: According to ISO 5208

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

Element: Water - Temperature: 59.9° F

SIZE	CV
1/2"	2.02
3/4"	3.32
1"	4.72
1-1/4"	7.75
1-1/2"	12.03
2"	17.41

CIMply The Best Guarantee

Cimberio Valve guarantees every valve we manufacture to be of the highest quality workmanship and free from material defect. This guarantee extends for **seven years** from the date of purchase and applies to valves that are properly installed and maintained within our recommendations for application and service. In the event an item is found defective Cimberio Valve will replace the item **FREE** of charge as well as pay \$25.00 directly to the installing contractor for labor performed in the replacement. Complete details are available by calling our office at 877-228-9246 or visiting our website at www.cimberiovalve.com.

