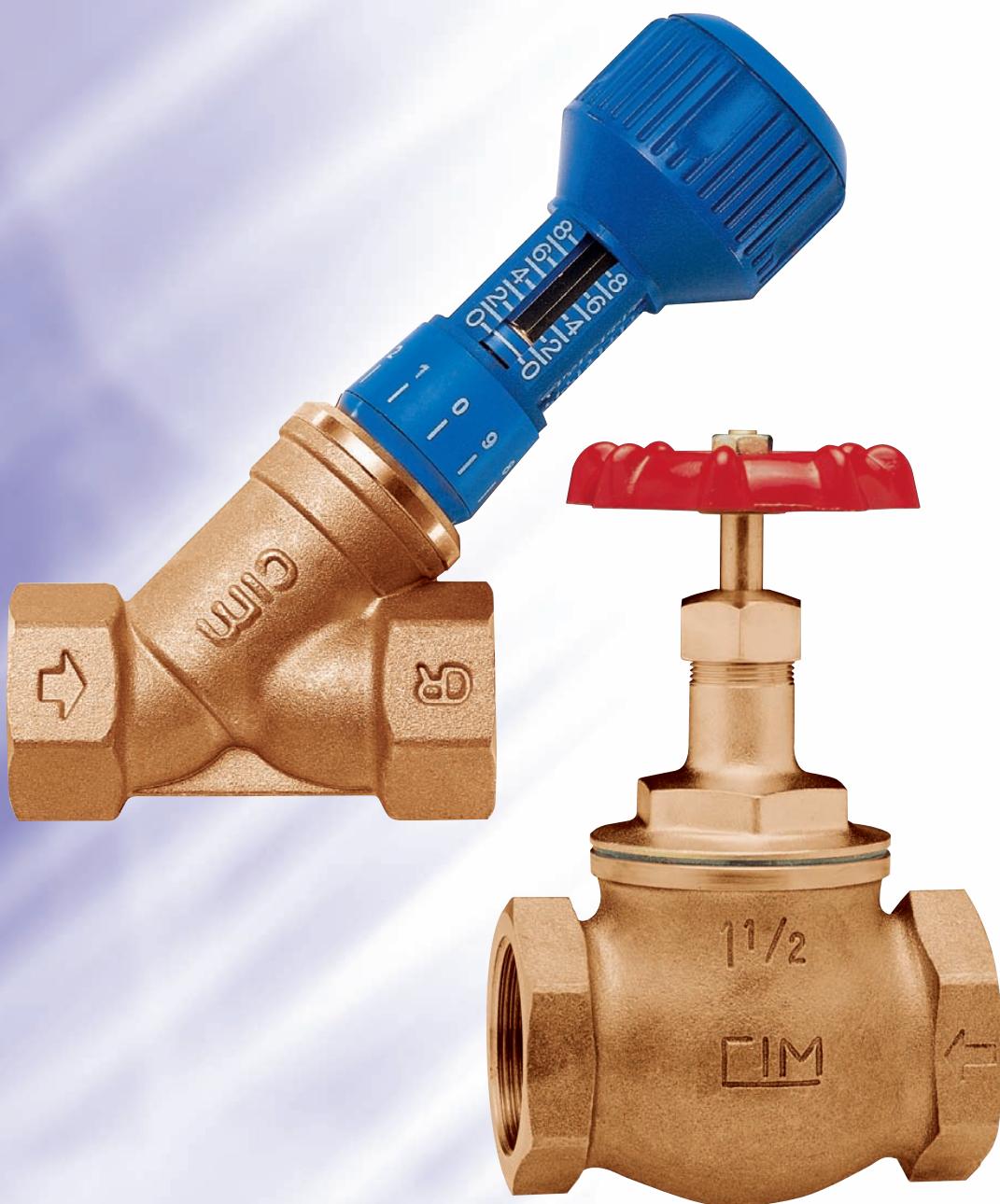


BALANCING VALVES INDUSTRIAL VALVES

2



valve
cimberio[®]
technological solutions

HIGH ACCURACY BALANCING AND FLOW MEASUREMENT VALVE

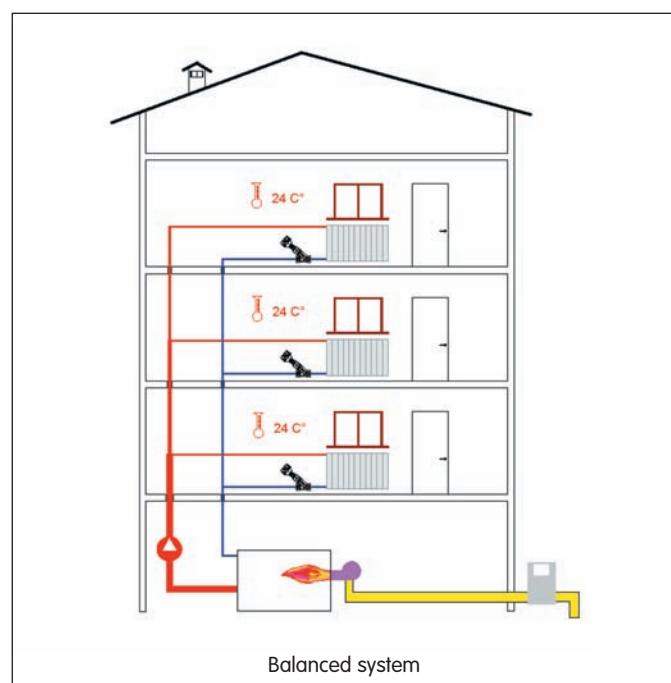
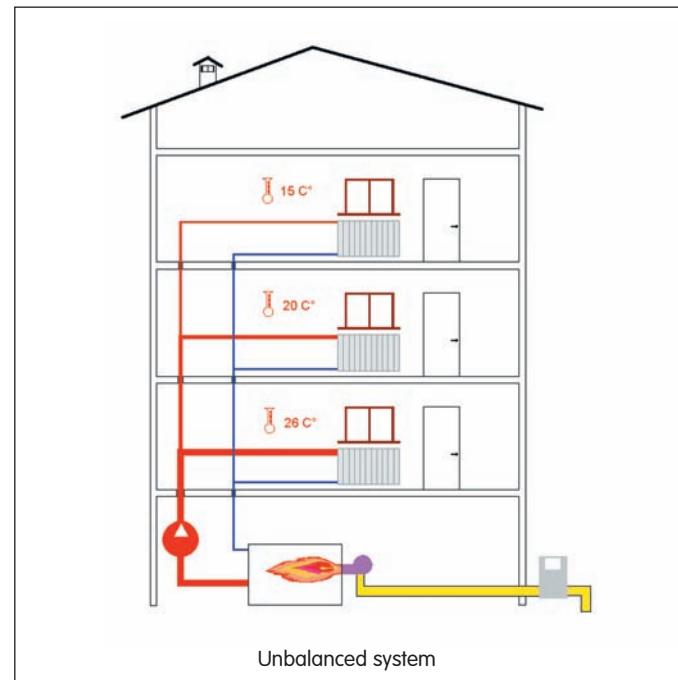
The modern cooling systems should be projected to ensure a high thermal performance with reduced energy consumption, satisfying not only the thermal comfort of the end-users, but meeting also with the technical normative and legislation.

In order to guarantee the above, the terminals should receive the intended amounts of heating or cooling to reach the best thermal performance. In other words, the hydraulic circuits must always be balanced perfectly.

To achieve this result, usually the design engineers project installations able to reach a kind of "auto-balancing" system, with suitable position and dimension of the circuits, using, for instance, reverse return circuits or terminals with the same resistance.

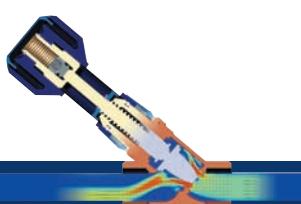
This kind of installations, in addition to high project and maintenance costs, does not guarantee a perfect circuit balancing, causing terminals hydraulic unbalances which are the main reason of fluctuating temperatures in the different areas of the building, with ensuing troubles to the end-users and increases in the energy consumption.

On the contrary, the installation of balancing valves CIMBERIO ensures a perfect balancing of the installation.



The high accuracy measurement, achieved by the special measuring system with "calibrated flow", and the easy installation of the CIMBERIO balancing set ensure each terminal to receive the intended amounts of heating or cooling for its best performance. This will also assure a constant temperature to all areas of the building, with reduced energy consumption.

Moreover, should the installation show any inconvenient, the CIMBERIO balancing set would enable the technicians to find out the position and the reason of the problem aroused.



valve
cim

ADVANTAGES OF FIXED ORIFICE OVER VARIABLE ORIFICE FLOW MEASUREMENT

The idea to couple a double regulating valve to a fixed orifice device evolved in the UK in the 1980s. This combination was designed specifically to overcome the accuracy problems associated with flow measurements utilising the pressure drops across variable orifice valves. Variable orifice valves seldom achieve the accuracy and reliability of fixed orifice valves. For a variable orifice valve, the pressure signal across the plug is used for flow measurement. A graph of the relationship between pressure drop and flow rate is required for each valve setting.

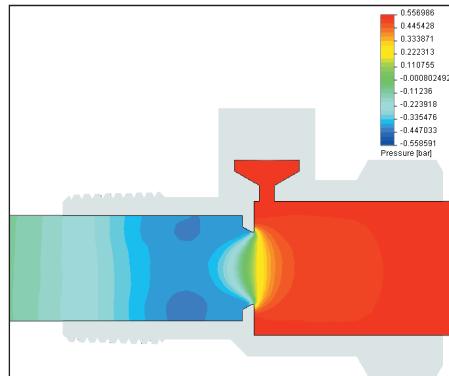
The fundamental weakness of this design is that manufacturing tolerances can cause significant flow measurement distortions beyond a certain closure point, typically 50% closed. Beyond this point the flow measurement accuracy can deteriorate dramatically, to $\pm 30\%$ or more! Since most of the valve's resistance is added in the last part of its closure, the valve's balancing range is severely limited. The result is a valve, which has either limited balancing capability, poor flow measurement accuracy, or both. The limited operating range of variable orifice valves inevitably makes valve selection more difficult, often resulting in valve sizes, which are lower than adjoining pipe sizes.

Fixed orifice valves have none of these problems. Because the flow measurement function is separated from the balancing function they can be regulated to nearly closed positions, achieving much higher balancing pressures whilst maintaining flow measurement accuracy within $\pm 5\%$ at any setting.

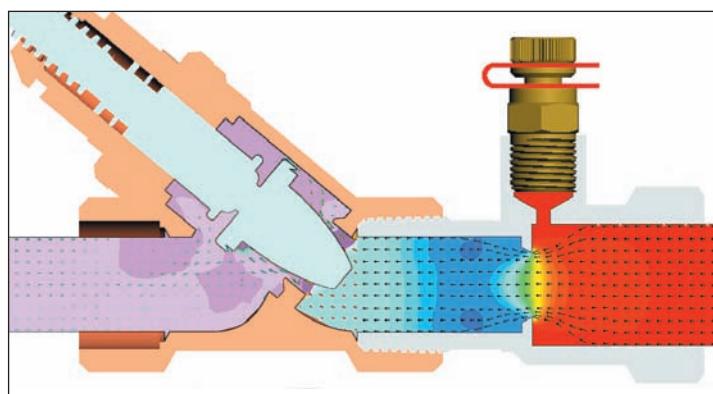
Since their introduction, fixed orifice commissioning sets have become by far the most preferred choice for UK design engineers and installation contractors.



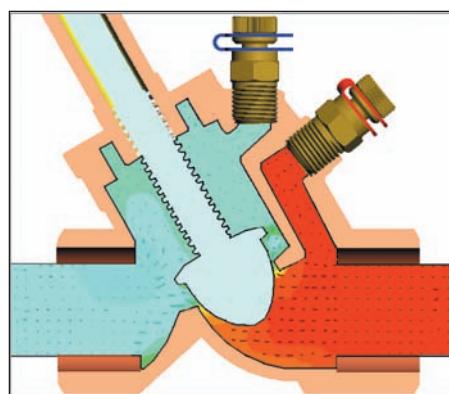
**CIM 721
FIXED ORIFICE**



**CIM 721
PRESSURE SIMULATION**



FIXED ORIFICE



VARIABLE ORIFICE



cim 727

BALANCING AND FLOW MEASUREMENT VALVE
PN 20 - B.S. 7350 TYPE - KM LIC.NO. 75180



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"
Box						
Cart.	12	12	12	6	6	6

cim 727 OT



cim 737

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
PN 20 - B.S. 7350 TYPE - KM LIC.NO. 75180



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"
Box						
Cart.	12	12	12	6	6	6

cim 737 OT



cim 747

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
AND PRESSURE PLUG - PN 16 - WATERMARK LIC. NO. WMKA 00217



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"
Box						
Cart.	12	12	12	6	6	6

cim 747 OT



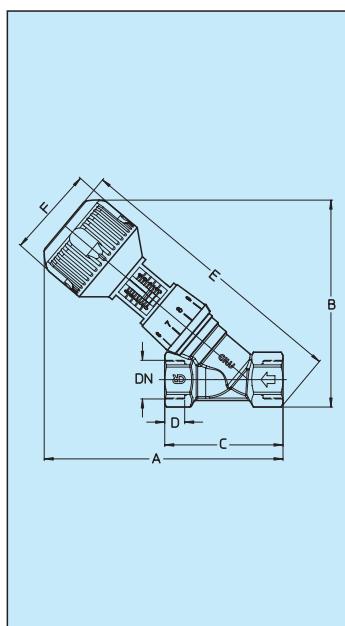
cim 745

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
PN 16 - WATERMARK LIC. NO. WMKA 00217



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"
Box						
Cart.	12	12	12	6	6	6

cim 748



	Cim 727 Cim 727 OT						Cim 737 Cim 737 OT						Cim 747 Cim 747 OT						Cim 745						Cim 748					
DN	Grms.	A	B	C	D	E	F	Grms.	A	B	C	D	E	F	Grms.	A	B	C	D	E	F	Grms.	A	B	C	D	E	F		
1/2"	CR 475	137,5	120	68	15	162,5	52	710	195	120	120	15	211	52	680	161	125	85	15	184,5	52	663	161	125	85	15	184,5	52		
	OT 450	134,5	120	59	10	158,5	52	685	191	120	115,5	10	202	52	680	161	125	85	15	184,5	52	-	-	-	-	-	-	-		
3/4"	CR 645	157	140	77	16,3	190	52	910	208	140	128	16,3	227	52	930	185	145,5	97	16,3	215,5	52	935	185	145,5	97	16,3	215,5	52		
	OT 622	152,4	140	68	11,5	184,4	52	887	207,5	140	123	11,5	227	52	930	185	145,5	97	16,3	215,5	52	-	-	-	-	-	-	-		
1"	CR 860	160	155	91	19,1	201,5	52	1180	210	155	140	19,1	236	52	1180	186	158,5	113	19,1	224	52	1090	186	158,5	113	19,1	224	52		
	OT 804	154	155	76	11,5	196	52	1124	206	155	128	11,5	233	52	1130	186	158,5	113	19,1	224	52	-	-	-	-	-	-	-		
1 1/4"	CR 1275	171	170,5	108	21,4	220	52	1755	230	170,5	165	21,4	267	52	1655	207	168,5	144	21,4	245,5	52	1589	207	168,5	144	21,4	245,5	52		
	OT 1142	165	170,5	92	13	214	52	1622	223	170,5	150	13	255	52	1655	207	168,5	144	21,4	245,5	52	-	-	-	-	-	-	-		
1 1/2"	CR 1890	212	212	116	21,4	276	58	2365	265	212	175	21,4	315	58	2465	259,5	212	163	21,4	309	58	2434	259,5	212	163	21,4	309	58		
	OT 1783	205	212	100	13	270	58	2258	266	212	161	13	313	58	2465	259,5	212	163	21,4	309	58	-	-	-	-	-	-	-		
2"	CR 2800	231	230	143	25,7	301,6	58	3530	290	230	200	25,7	346	58	3725	281	230	193	25,7	337,5	58	3686	281	230	193	25,7	337,5	58		
	OT 2577	227	230	125	17	294	58	3307	296	230	182	17	341	58	3725	281	230	193	25,7	337,5	58	3875	281	230	193	25,7	337,5	58		

cim 727 PRS

BALANCING AND FLOW MEASUREMENT VALVE
PRESS FITTINGS - PN 20



DN	15x15	18x18	22x22	28x28	35x35	42x42	54x54
Box	1	1	1	1	1	1	1
Cart.	12	12	12	12	6	6	6

cim 727 OTPRS



cim 737 PRS

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
PRESS FITTINGS - PN 20



DN	15x15	18x18	22x22	28x28	35x35	42x42	54x54
Box	1	1	1	1	1	1	1
Cart.	12	12	12	12	6	6	6

cim 737 OTPRS



cim 747 PRS

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
AND PRESSURE PLUG - PRESS FITTINGS - PN 16



DN	15x15	18x18	22x22	28x28	35x35	42x42	54x54
Box	1	1	1	1	1	1	1
Cart.	12	12	12	12	6	6	6

cim 747 OTPRS



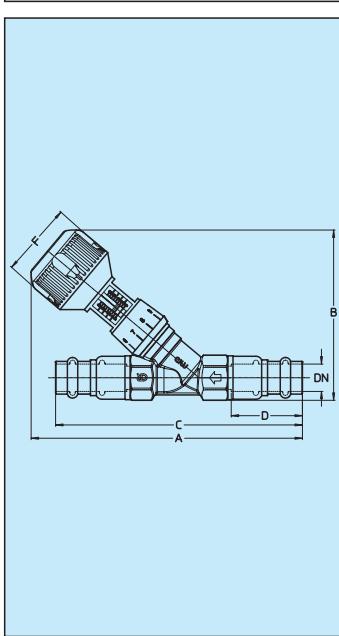
cim 745 PRS

BALANCING VALVE WITH FLOW MEASUREMENT DEVICE
WITH PRESSURE PLUG AND DRAIN COCK - PRESS FITTINGS PN 16



DN	15x15	18x18	22x22	28x28	35x35	42x42	54x54
Box	1	1	1	1	1	1	1
Cart.	12	12	12	12	6	6	6

cim 748 PRS



DN	Cim 727 PRS Cim 727 OT PRS						Cim 747 PRS Cim 747 OT PRS						Cim 737 PRS Cim 737 OT PRS						Cim 745 PRS Cim 748 PRS						
	Grms.	A	B	C	D	F	Grms.	A	B	C	D	F	Grms.	A	B	C	D	F	Grms.	A	B	C	D	F	
15x15	CR	625	181	120	151,5	39,8	52	835	205	126,5	168,5	39,8	52	865	238	120	209	39,8	52	1005	205	126,5	168,5	39,8	52
	OT	600	176	120	142,5	39,8	52	835	205	126,5	168,5	39,8	52	840	233	120	199	39,8	52	1005	205	126,5	168,5	39,8	52
18x18	CR	820	199	140	161,5	41,3	52	1107	229	147	181,5	41,3	52	1090	250	140	212,5	41,3	52	1300	229	147	181,5	41,3	52
	OT	797	194,5	140	152,5	41,3	52	1107	229	147	181,5	41,3	52	1067	250	140	208	41,3	52	1300	229	147	181,5	41,3	52
22x22	CR	850	203,5	140	170	44	52	1135	233	147	190	44	52	1115	254	140	221	44	52	1330	233	147	190	44	52
	OT	827	199	140	161	44	52	1135	233	147	190	44	52	1092	254	140	216,5	44	52	1330	233	147	190	44	52
28x28	CR	1175	209	155	185,5	44	52	1445	235,5	160,5	207	44	52	1495	260	155	236	44	52	1595	235,5	160,5	207	44	52
	OT	1119	201	155	170	44	52	1445	235,5	160,5	207	44	52	1439	251	155	220,5	44	52	1595	235,5	160,5	207	44	52
35x35	CR	1715	220	170,5	202	43	52	2095	256	170	238	43	52	2195	277	170,5	260	43	52	2220	256	170	238	43	52
	OT	1582	212	170,5	186	43	52	2095	256	170	238	43	52	2062	270	170,5	244	43	52	2220	256	170	238	43	52
42x42	CR	2480	264,5	212	219	48	58	3055	311	212	266	48	58	2955	323,5	212	278	48	58	3215	311	212	266	48	58
	OT	2373	256,5	212	203	48	58	3055	311	212	266	48	58	2848	313,5	212	260	48	58	3215	311	212	266	48	58
54x54	CR	3702	292	230	263	54	58	4630	341,5	230	313	54	58	4435	350	230	322	54	58	4780	341,5	230	313	54	58
	OT	3479	283	230	245	54	58	4630	341,5	230	315	54	58	4212	345	230	307	54	58	4780	341,5	230	313	54	58



cim 787

STRAIGHT BALANCING VALVE WITH BINDER POINTS - PN 20

cim 787 OT

"CR" BRASS



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"
Box	1	1	1	1	1	1
Cart.	12	12	12	12	6	6

OT58 BRASS



cim 787 PRS

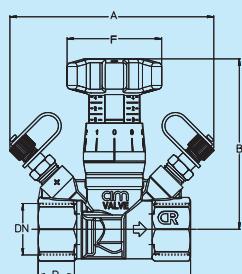
STRAIGHT BALANCING VALVE PRESS FITTINGS - PN 20

"CR" BRASS



DN	15x15	22x22	28x28	35x35	42x42	54x54
Box	1	1	1	1	1	1
Cart.	12	12	12	12	6	6

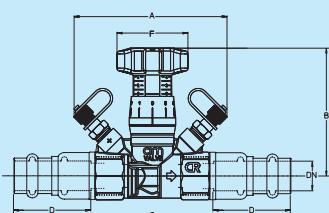
OT58 BRASS



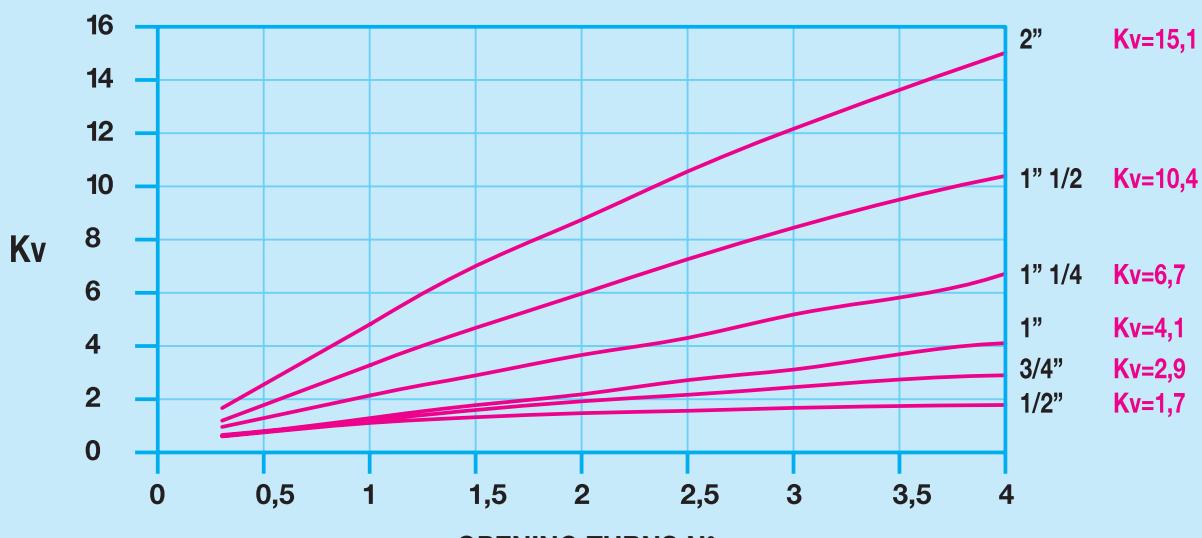
Cim 787 - Cim 787 OT

Cim 787 PRS - Cim 787 OTPRS

DN	Grms.	A	B	C	D	F	DN	Grms.	A	B	C	D	F
1/2	380	106	87,5	75	16	50	15x15	535	106	87,5	159	39,8	50
3/4	440	107	89,5	80	19	50	22x22	650	107	89,5	173,5	44	50
1"	535	107	91,5	87	21	50	28x28	850	107	91,5	181,5	44	50
1 1/4"	960	123	99	108	22,5	50	35x35	1400	123	99	202	43	50
1 1/2"	1120	128	99	115	23	50	42x42	1700	128	99	218	48	50
2"	1350	132	100	124	26,5	50	54x54	2250	132	100	244	54	50



FLOW RATE Cim 787 SERIES



Kv: flow rate in m³/h with 1 bar of pressure drop - MEDIUM: water - TEMPERATURE: 15,5°C

cim 3739

FLANGED GLOBE BALANCING VALVE - PN 16



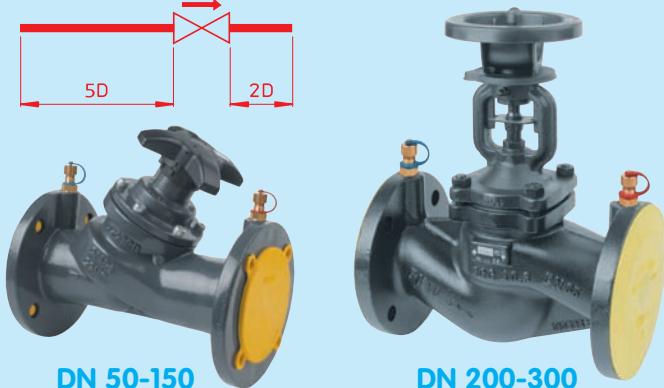
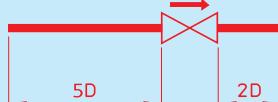
DN	50	65	80	100	125
DN	150	200	250	300	

DN	50	65	80	100	125	150	200	250	300
Kg.	10	16	20	29	42	54	196	358	464
Ø A	70	140	140	140	140	140	360	400	400
B	125	187	205	222	251	247	721	808	855
C	230	290	310	350	400	480	600	730	850
Ø D	165	185	200	220	250	285	340	405	460
Ø E	125	145	160	180	210	240	295	355	410
n x Ø d	4x19	4x19	8x19	8x19	8x19	8x23	12x23	12x28	12x28

Flanged balancing valves

Cim 3739 flanged balancing valves are used where an accurate flow measurement in big heating or cooling systems is needed. The cast iron valves have flanges PN 16 and a valve position storage device, enabling the opening and closing of the valve at the pre-set position.

They are supplied with binder points **Cim 723**. A correct installation of the balancing valves and of flow measurement joint **Cim 3723** shall be made in accordance with the distances stated in the drawing, in order to regularize the flow and allow an accurate flow measurement.

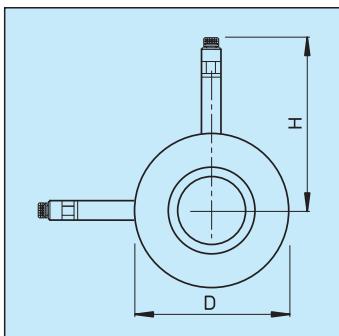


cim 3723

FLANGED FLOW MEASUREMENT DEVICE



DN	50	65	80	100	125	150
DN	200	250	300	350	400	



DN	50	65	80	100	125	150	200	250	300	350	400
D	108	127	142	162	192	218	273	329	384	444	496
H	149	159	166	176	191	204	232	260	287	317	343
Flange Thickness	18	18	18	18	18	18	18	18	18	20	23
Kvs (m³/h)	70,5	104,5	120,0	226,3	330,3	527,6	746,0	1.118,3	1.765,2	1.966,8	2.482,6

cim 721

FLOW MEASUREMENT DEVICE



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"

cim 722



cim 723

BINDER POINTS



DN	1/4	DN	1/4

cim 721 - 747
cim 3739 - 3723

cim 787

cim 723L



cim 728

INSULATING CASE FOR BALANCING VALVES



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"

Box

1	1	1	1	1	1
---	---	---	---	---	---

cim 728C



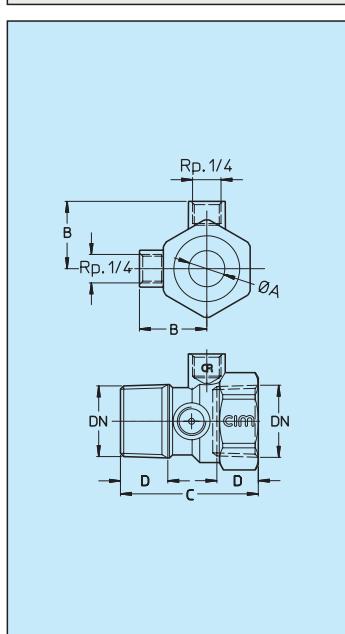
cim 729

MEASURING NEEDLE

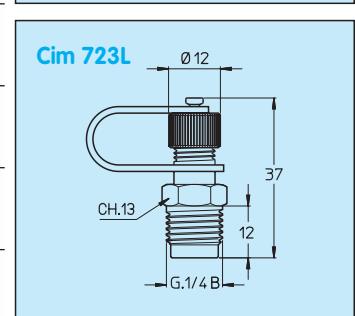
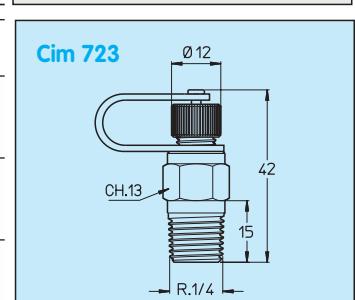


DN	1/4	DN	3/4

cim 730



	Cim 722				
DN	Grms.	A	B	C	D
1/2"	161	8,4	25	66,5	15
3/4"	207	12,8	28	66,5	16,3
1"	252	16,6	31	63,5	19,1
1 1/4"	400	23,5	36	71	21,4
1 1/2"	460	28,4	39	71	21,4
2"	710	39,6	45	79,5	25,7



MONOLINK

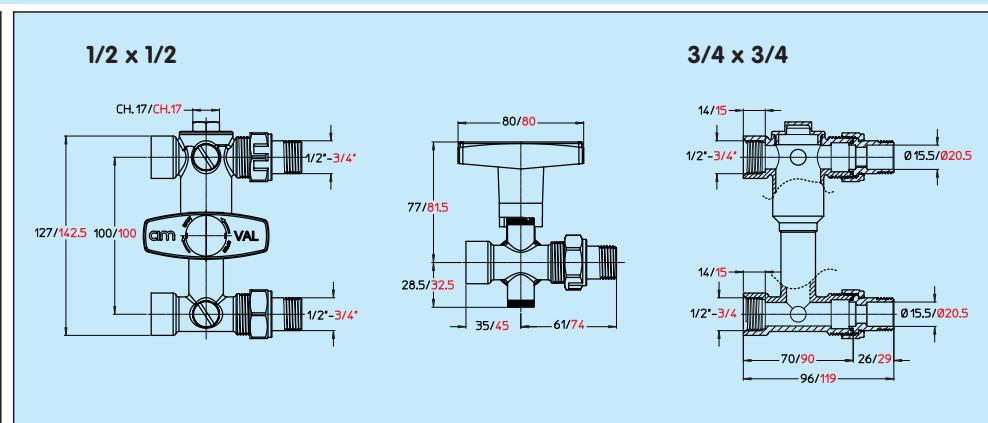


Cimberio **Monolink** is an innovative compact fan coil connection system, enabling to reduce installation and maintenance times of the plant. **Monolink** is a preassembled and pre-tested module gathering in one item all components needed for the fan coil working and that are usually assembled on the yard, i.e. valve with built-in strainer, by pass valve, drain cock, balancing valve.

PATENT PENDING

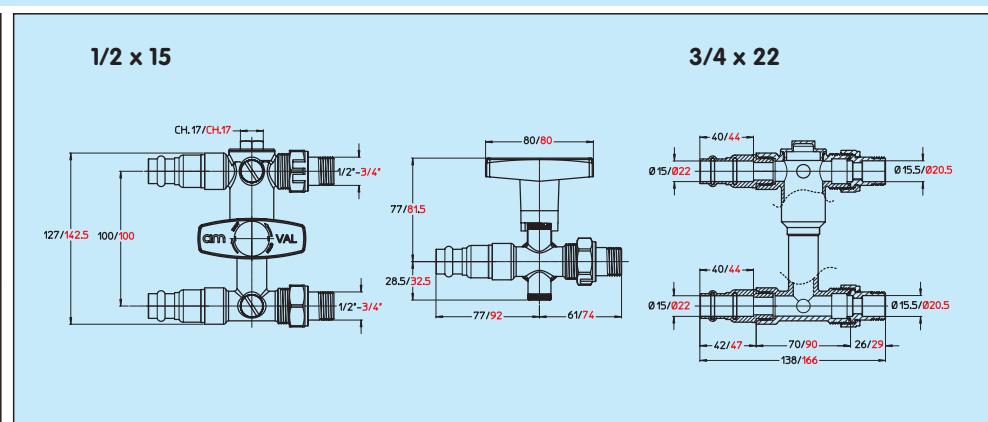
cim 731

CONNECTION SYSTEM FOR FAN-COIL F/M



cim 732

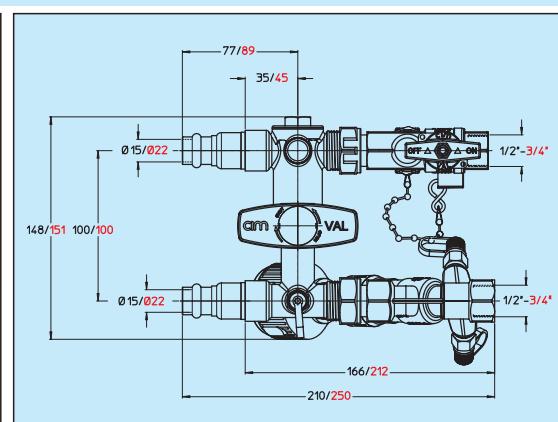
CONNECTION SYSTEM FOR FAN-COIL M/PRS



cim 733

MONOLINK

cim 733 PRS



cimdronic® AC6 cim 726

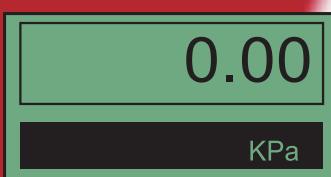
Commissioning Unit



PATENT PENDING



Multi parameter display
for complete system information.



Simple large
digit displays
for less complex
operations.



Easy to navigate
menu system.

ELECTRONIC COMMISSIONING TO A NEW LEVEL

Now with unique "DSP technology™" for sensor protection

cimdronic® AC6 is a state of the art electronic commissioning meter for measurement of differential pressures and flow-rates of water in HVAC systems. A wide range of features coupled with a database of over 1300 valves, from 34 world manufacturers, make the **cimdronic® AC6** the first choice meter for commissioning engineers.

Simplicity

Nine buttons designed for simple navigation allow quick and efficient use of the menu system. The **cimdronic® AC6** is arranged with a choice of screen displays-whether it be the full parameter, showing all the data available or simply a screen showing in large text just the differential pressure, the user has the option to select the most appropriate screen for the work being carried out.

Convenience

Compactness and light weight enable the user to operate effectively without the inconvenience of bulky equipment. Backlit display, anti kink pipes, snap connectors and approximately 20 hours use from readily available PPS type batteries. The **cimdronic® AC6** is supplied in a convenient carry case.

Accuracy

The **cimdronic® AC6** uses a sensor calibrated to 20 points and protected by "DSP technology™" allowing the use of sensors most appropriate for the measurement ranges experienced in HVAC and not compromised by the need for sensors selected for high over-pressure with their poor accuracy and resolution at low dp readings.

Accuracy is better than 1% or 100 Pascals with system damping to further improve reading confidence on unstable systems.

Specification

Technical Description

The **cimdronic AC6** is an electronic manometer programmed to carry out differential pressure measurements primarily on balancing valves in the building services industry. The state-of-the-art software and extensive database of the world's balancing valves allows direct reading of flow, differential pressure, percentage of design flow and target flow.

The nine button design allows simple navigation of the easy-to-follow menu system with all parameters visible on screen.

System accuracy is guaranteed by the use of carefully selected sensors protected by "DSP technology™" with resolution and accuracy most appropriate for the range of differential pressures being measured.

Measurement Accuracy

Differential pressure: better than 100 Pascals or 1% whichever is the greatest.

Measurement Range

0.1 kPa to 250 kPa
0 to 95 deg c

Effective Operating Time

20 hours with standard Alkaline PP3 battery.

User Interface

Software for the **cimdronic AC6** has been designed around simple text files which are supplied on CD rom. Users wishing to edit the files can simply remove the MMC card from the **cimdronic AC6** and using a suitable read/write device and text editor can make the desired changes. Typically, users might wish to add valves or devices not held on the database or, modify the list of valves displayed on the **cimdronic AC6** to allow quicker access to preferred valves.

Database

1300 valves and measuring devices from 34 manufacturers.

Spares

Tool belt for hands free portability.
Replacement hoses up to 3 metres in length.
Mechseal style and insertion testpoints.



Functions

Displays

Main display: shows valve type, Kvs value, handwheel setting (Variable orifice), Design flow, target Flow, Differential pressure, Flow, valve maker, valve type, valve size.

Pressure display: large text Differential pressure.

Flow Display: Large text flow.

Predictive handwheel position: For adjusting variable orifice valves.

Chart recorder: Sample system characteristic.

Fast valve: Up to eight valves with model, size and design flow attributes can be saved to a quick access location for fast recall when balancing systems with multiple valve types/sizes.

Help: Context sensitive help is available for all functions.
Dedicated button available for this function

Units

Differential pressure: Pa, kPa, psi, bar, feet H₂O, Inches H₂O, mtrs H₂O, mm H₂O, cm H₂O.

Flow: l/s, l/m, l/h, gallons/m (imperial), gpm (US).

Temperature: Celsius, Fahrenheit.

Edit Functions

Design flow, target flow, specific gravity, Kvs, valve maker, valve group, valve model, valve size, handwheel position.
Zero cutoff.

cim 725 ANALOGUE DIFFERENTIAL MANOMETER

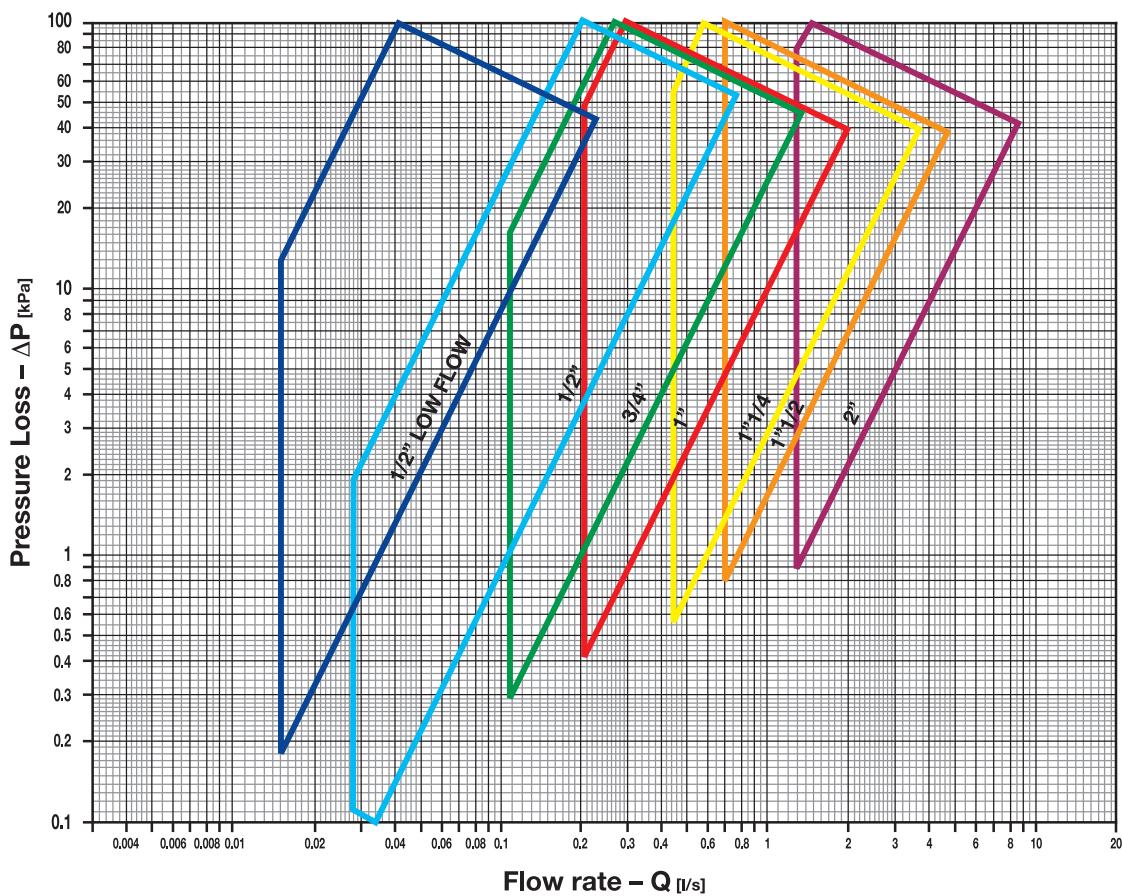
Box	1
	

cim 726 ELECTRONIC DIFFERENTIAL MANOMETER

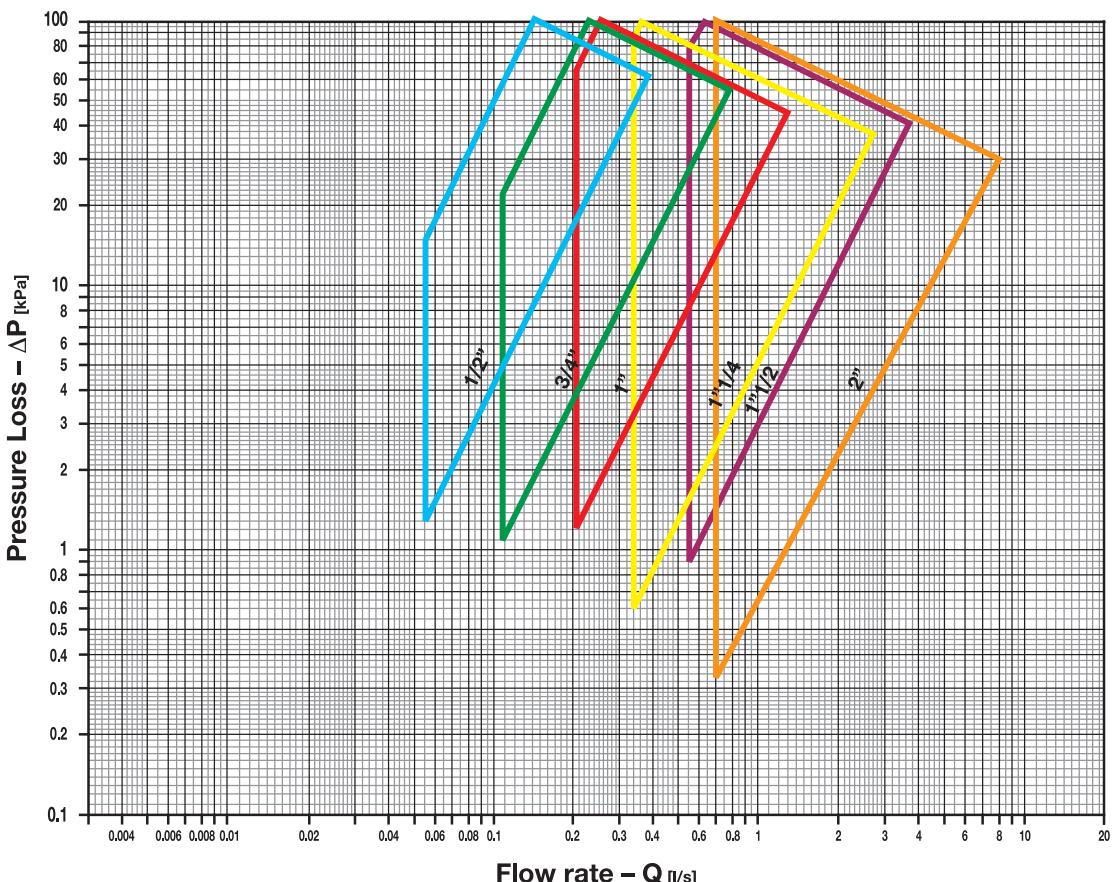
Box	1
	

Operating range

cim 727

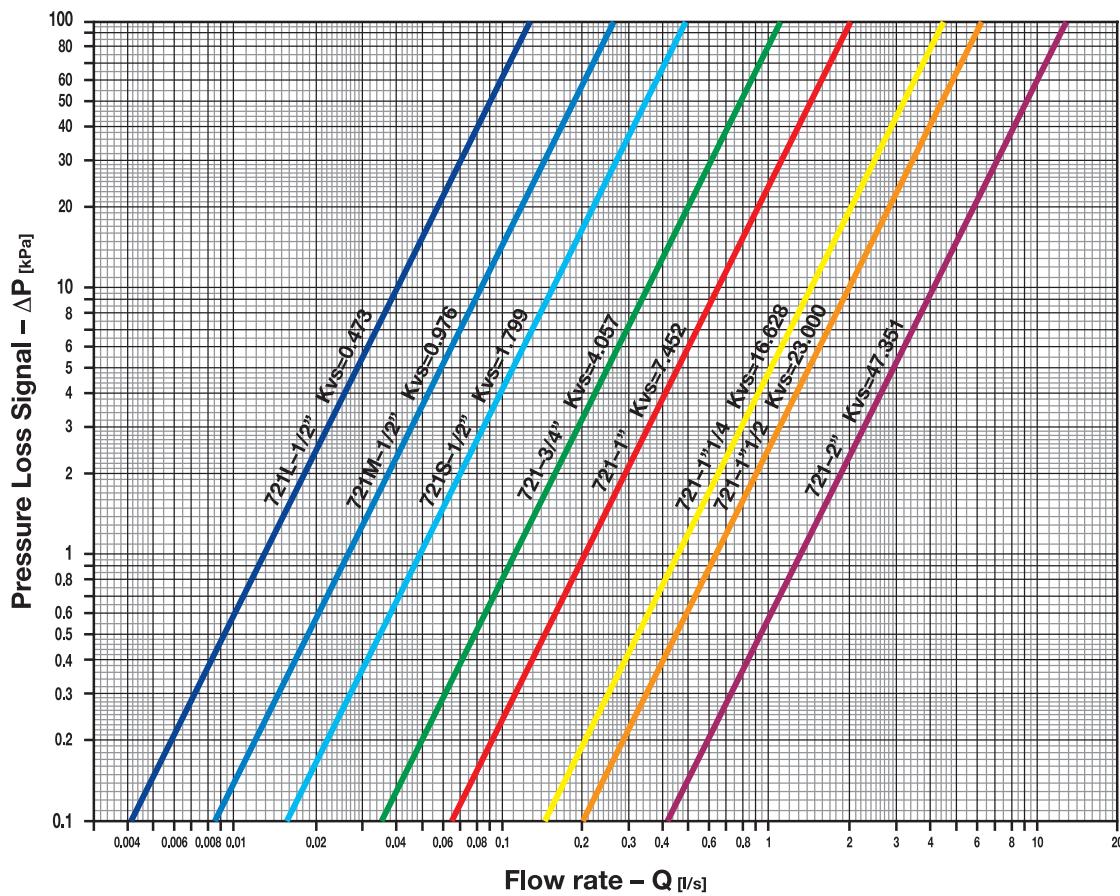


cim 747

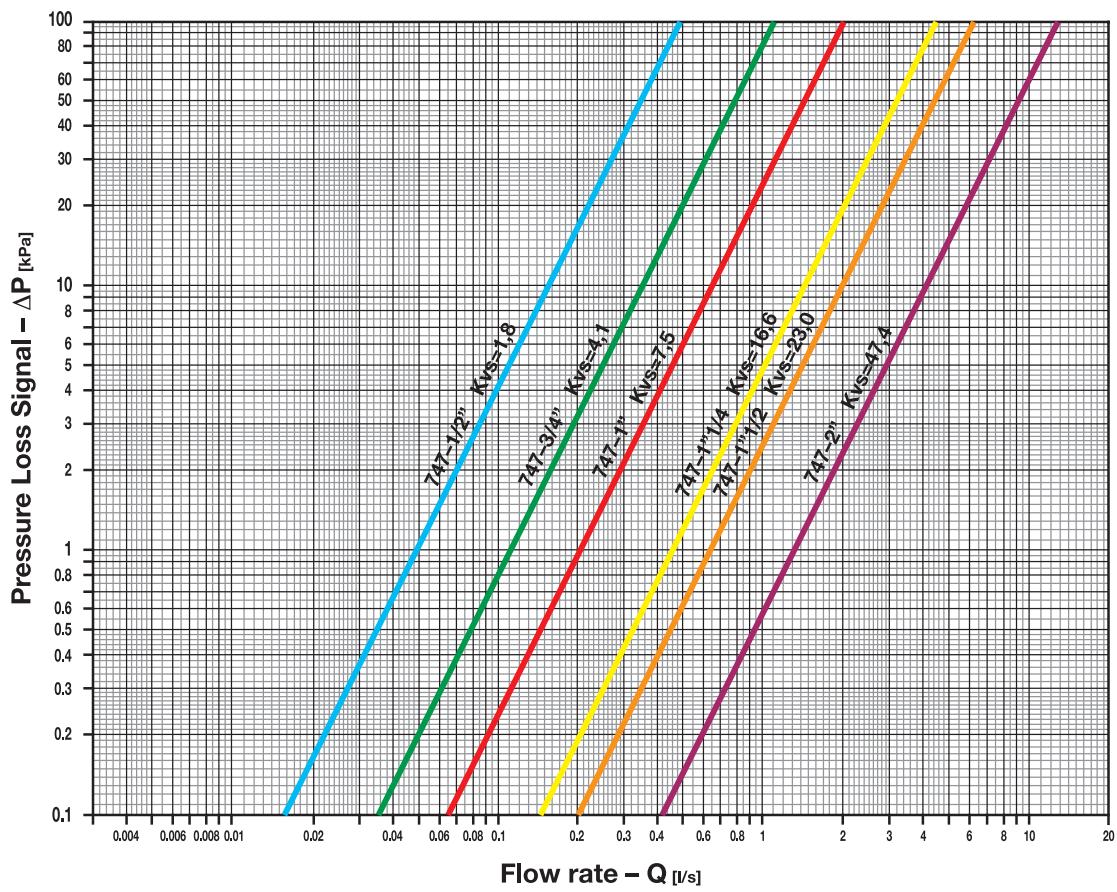


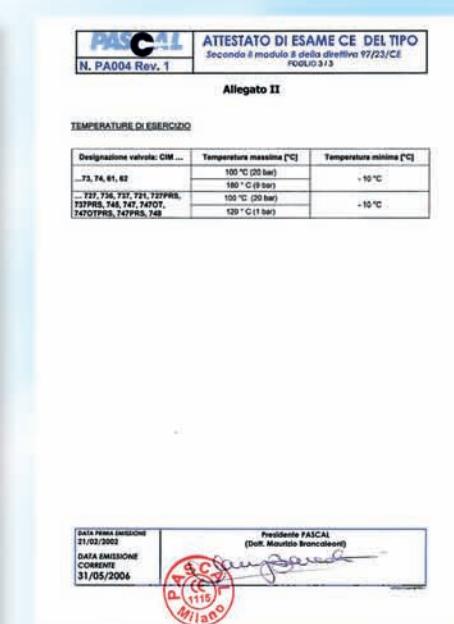
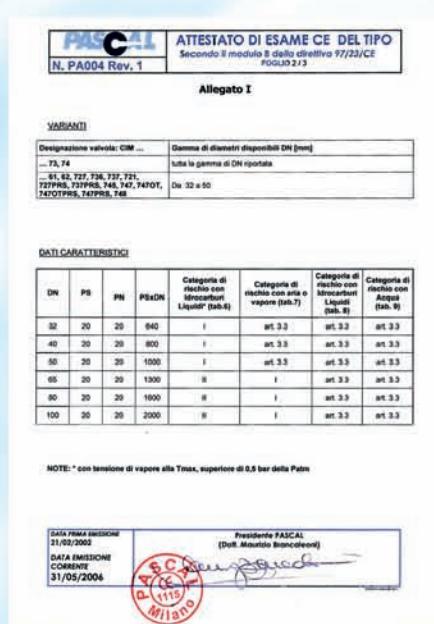
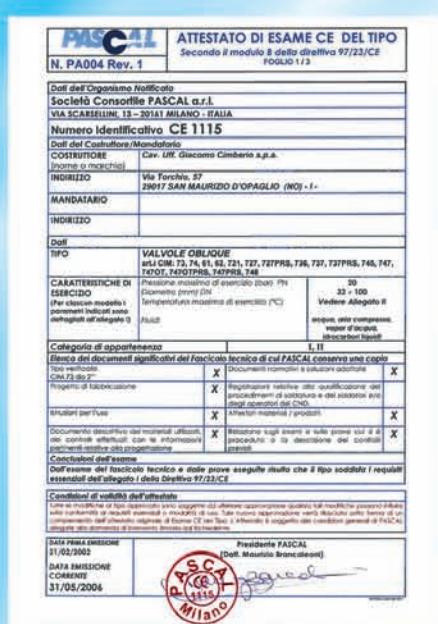
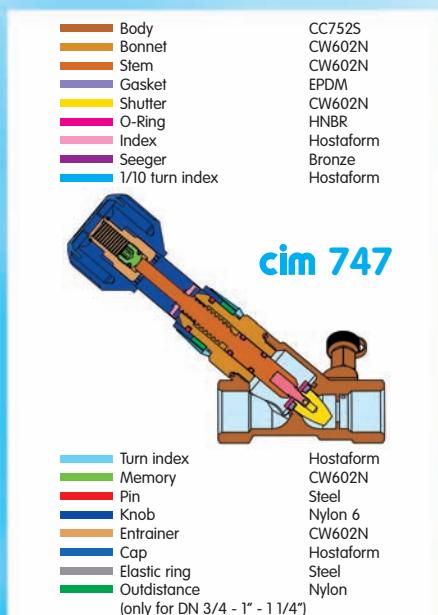
Pressure signal graph

cim 721 - cim 737



cim 747 - cim 747 PRS





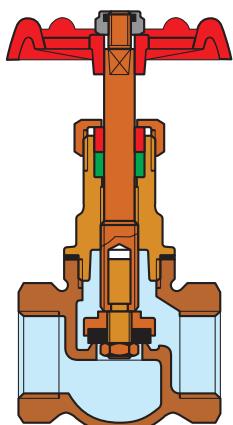


valve
cimberio[®]
technological solutions



High accuracy balancing and flow measurement valves

Cimberio industrial valves



EN ISO
9001:2000

Body	Bronze EN 1982 CC491K
Bonnet	Brass EN 12165 CW617 N
Stem	Brass EN 12164 CW617 N
Gland nut	Brass EN 12164 CW617 N
Gland	Brass EN 12164 CW617 N
Gland Packing	AF 15/MA
Packing	NA 1100
Disc Holder	Brass EN 12164 CW617 N
Disc	P.T.F.E.
Disc nut	Brass EN 12164 CW617 N
Self locking nut	Steel
Handwheel	Aluminium EN AB 46100

SERVICE RECOMMENDATIONS:

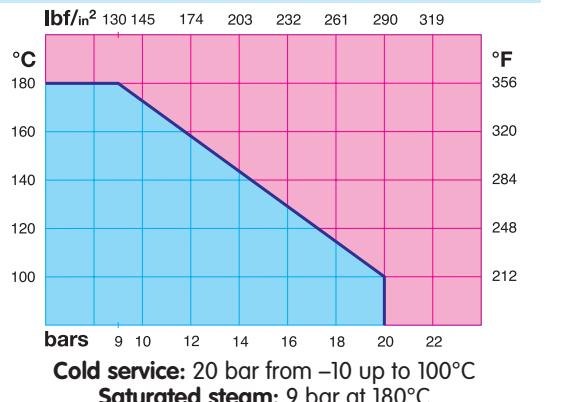
The **industrial valves** can be used in many installations among industrial and agricultural applications: heating plants, sanitary systems, plumbing services, compressed air, steam networks, gasoline and other hydrocarbons networks.

The globe valves are specially recommended in all installations where a fine and efficient regulation of the media is required.

The check valves Cimberio can be installed in pipelines to permit flow in one direction only, and close automatically if the flow reverses. The flow velocity of the media keeps the valve open whilst back pressure or gravity cause automatic shut-off thereby preventing flow reversal.

WORKING PRESSURE AND TEMPERATURE

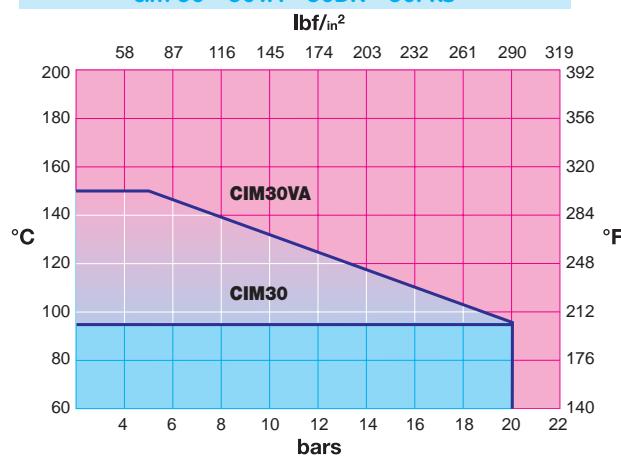
cim 61 - 62 - 73 - 74 - 74A - 74 ACR - 81 - 60 - 79A



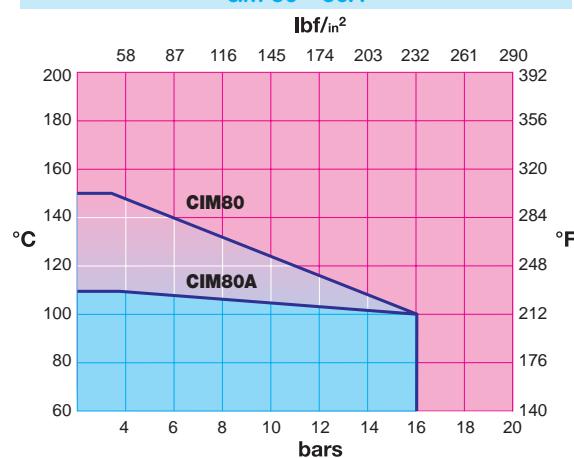
cim 75 - 76 - 81L - 82 - 78 - 77 - 79



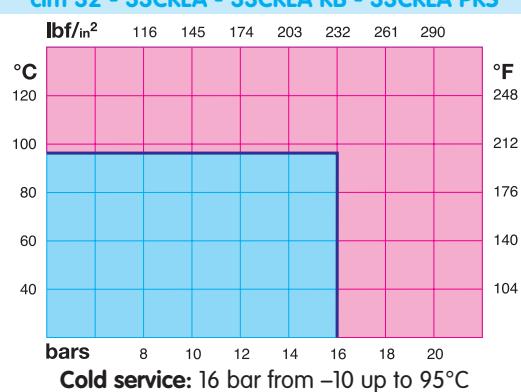
cim 30 - 30VA - 30DK - 30PRS



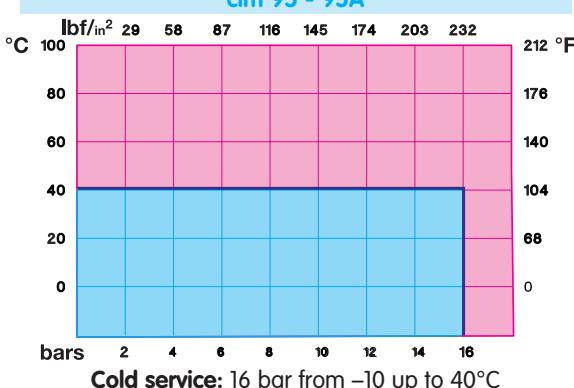
cim 80 - 80A



cim 32 - 33CREA - 33CREA RB - 33CREA PRS



cim 95 - 95A



cim 61



**BRONZE OBLIQUE VALVE
WITH SPRING-LOADED NON RETURN VALVE - PN 20**

DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	25	25	15	10	6	4	2			
Cart.	100	100	60	40	24	16	8			

cim 62



**BRONZE OBLIQUE VALVE WITH SPRING LOADED N. R. VALVE
AND DRAIN COCK AND PLUG - PN 20**

DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	25	25	15	10	6	4	2			
Cart.	100	100	60	40	24	16	8			

cim 73



BRONZE OBLIQUE VALVE WITHOUT DRAIN - PN 20

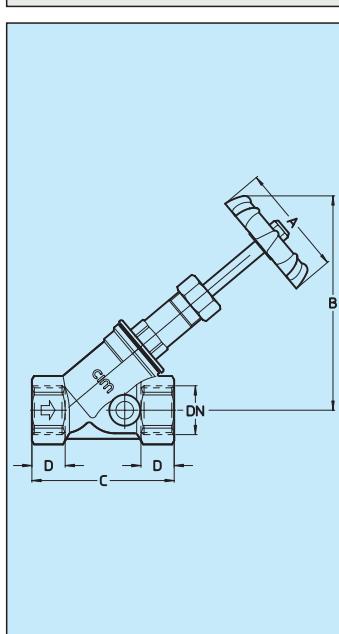
DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	25	25	15	10	6	4	2	2	1	1
Cart.	100	100	60	40	24	16	8	4	2	2

cim 74



BRONZE OBLIQUE VALVE WITH DRAIN AND PLUG - PN 20

DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	25	25	15	10	6	4	2	2	1	1
Cart.	100	100	60	40	24	16	8	4	2	2



Cim 61 - Cim 62

DN	Grms.	A	B	C	D	Grms.	A	B	C	D
3/8	315	50	85	56	11	290	50	85	56	11
1/2	355	55	90	59	11	330	55	90	59	11
3/4	520	60	115	68	12	470	60	115	68	12
1"	810	65	135	76	14	690	65	135	76	14
1 1/4"	1160	75	160	92	15	1090	75	160	92	15
1 1/2"	1350	80	174	100	15	1390	80	174	100	15
2"	2250	90	210	125	18	2300	90	210	125	18
2 1/2"	-	-	-	-	-	3970	120	255	147	21
3"	-	-	-	-	-	5860	140	310	175	24
4"	-	-	-	-	-	10940	175	360	217	28



cim 74 A

BRONZE OBLIQUE STRAINER - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	30	20	12	10	4	4	1	1
Cart.	200	200	120	80	48	40	16	8	6	2

cim 74 AO

BRASS OBLIQUE STRAINER - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	F=0,65 mm Mesh	F=650µm N. holes cm²
Box		50	30	20	12	10	4		
Cart.		200	120	80	48	40	16	30	52

cim 74 ACR

OBLIQUE STRAINER - IN DZR BRASS "CR" ALLOY - PN 20



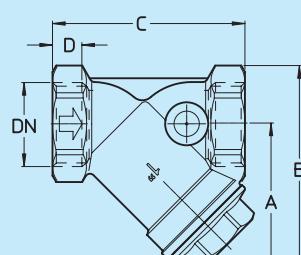
DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	F=0,25 mm Mesh	F=250µm N. holes cm²
Box		50	30	20	10	8	4		
Cart.		200	120	80	40	32	16	60	280

cim 74 ACRP

OBLIQUE STRAINER - IN DZR BRASS "CR" ALLOY - PRESSFITTING - PN 20



DN	15x15					18x18					22x22					28x28					35x35					42x42					54x54				
DN	Grms.	A	B	C	D	Grms.	A	B	C	D	Grms.	A	B	C	D	DN	Grms.	A	B	C	D														
3/8	190	38	51	55	11	-	-	-	-	-	-	-	-	-	15x15	365	39	54	155	39,8															
1/2	230	40	56	59	11	185	40	56	59	11	210	39	54	68	15	18x18	495	49,5	68	165	41,3														
3/4	315	46	65	68	12	285	50	70	68	13,5	315	49,5	68	77	16,3	22x22	520	49,5	68	170	44														
1"	485	58	81	76	14	405	60	83	76	13,5	455	59	82	91	19,1	28x28	770	59	82	280	44														
1 1/4"	765	70	99	92	15	650	71	100	92	15	760	70	99	108	21,4	35x35	1200	70	99	202	43														
1 1/2"	935	80	111	100	15	870	81,5	112,5	100	15	975	81	112	116	21,4	42x42	1565	81	112	220	48														
2"	1710	100	140	125	18	1675	100	140	125	19	1825	99	138,5	143	25,7	54x54	2730	99	138,5	265	54														
2 1/2"	2510	115	163	147	21																														
3"	4230	136	195	175	24																														
4"	7040	167	240	217	28																														



STRAINER: stainless steel 18/8
mm 0,65 suitable for water - mm 0,25 suitable for gas
Double tightening gasket between body and cap:
NA 1100 Fibre - O'ring HNBR

cim 74 A/1



BRONZE OBLIQUE STRAINER - PN 20
WITH DRAIN PLUG

WITH DRAIN VALVE

cim 74 A/2



cim 74 AO/1



BRASS OBLIQUE STRAINER - PN 20
WITH DRAIN PLUG

WITH DRAIN VALVE

cim 74 AO/2



cim 74 ACR/1



OBLIQUE STRAINER - IN DZR BRASS "CR" ALLOY - PN 20
WITH DRAIN PLUG

WITH DRAIN VALVE

cim 74 ACR/2



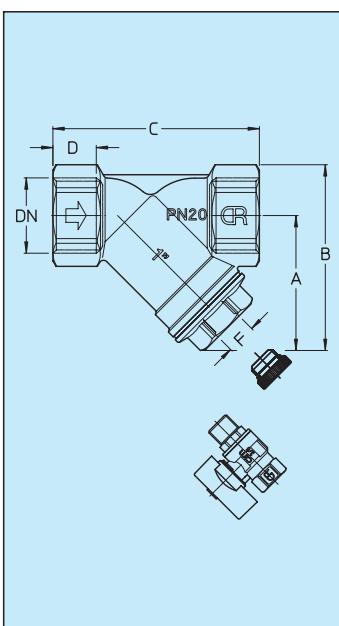
cim 74 ACRP/1



OBLIQUE STRAINER - IN DZR BRASS "CR" ALLOY PRESSFITTING - PN 20
WITH DRAIN PLUG

WITH DRAIN VALVE

cim 74 ACRP/2



DN	Cim 74 A/1 - Cim 74A/2						Cim 74 AO/1 - Cim 74AO/2						Cim 74 ACR/1 - Cim 74ACR/2						Cim 74 ACRP/1 - Cim 74ACRP/2						
	Grms.	A	B	C	D	F	Grms.	A	B	C	D	F	Grms.	A	B	C	D	F	DN	Grms.	A	B	C	D	F
3/8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15x15	365	39	54	151,6	39,8	GI/4	
1/2	230	40	56	59	11	G1/4	185	40	56	59	11	G1/4	215	39	54	68	15	G1/4	18x18	490	49,5	68	161,4	41,3	GI/4
3/4	315	50	65	68	12	G1/4	285	50	70	68	13,5	G1/4	325	49,5	68	77	16,3	G1/4	22x22	515	49,5	68	170	44	GI/4
1"	485	60	81	76	14	G3/8	405	60	83	76	13,5	G3/8	500	59	82	91	19,1	G3/8	28x28	815	59	82	185,3	44	G3/8
1 1/4"	765	70	99	92	15	G3/8	650	71	100	92	15	G3/8	850	70	99	108	21,4	G3/8	35x35	1285	70	99	202	43	G3/8
1 1/2"	935	80	111	100	15	G3/8	870	81,5	112,5	100	15	G3/8	1030	81	112	116	21,4	G3/8	42x42	1620	81	112	219	48	G3/8
2"	1710	100	140	125	18	G3/8	1675	100	140	125	19	G3/8	1885	99	138,5	143	25,7	G3/8	54x54	2805	99	138,5	263	54	G3/8

STRAINER: stainless steel 18/8 - mm 0,65 suggested for water

Double tightening gasket between body and cap: NA 1100 Fibre - O'ring HNBR

cim 75

BRONZE GLOBE VALVE - PN 16 METAL TO METAL SEATING P.T.F.E. DISC

cim 81L



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	35	25	16	8	6	4	2	1	1
Cart.	200	140	100	64	32	24	16	6	4	2



cim 81

BRONZE GLOBE VALVE - P.T.F.E. DISC - STANDARD TYPE - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	30	25	18	10	8	4	2			
Cart.	120	100	72	40	32	16	8			

cim 78

BRONZE CHECK VALVE METAL TO METAL SEATING - PN 16



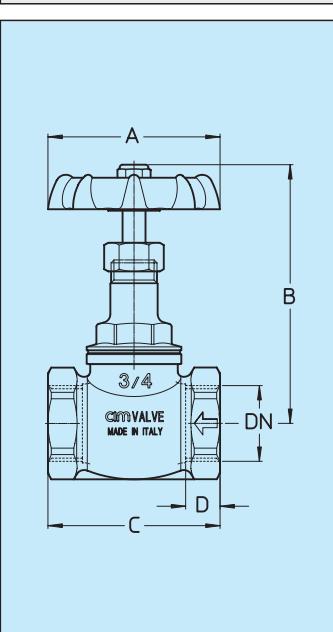
DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	50	30	15	12	6	4	2	1
Cart.	200	200	200	120	60	48	24	12	8	4

cim 79 A

BRONZE LIFT CHECK VALVE - P.T.F.E. DISC - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	25	15	12	6	4	4	2	1
Cart.	200	200	100	60	48	24	16	12	8	4



DN	Cim 75				Cim 81 L				Cim 81				Cim 78				Cim 79 A			
	Grms.	A	B	C	D	Grms.	A	B	C	D	Grms.	A	B	C	D	Grms.	A	B	C	D
3/8	225	50	75	45	9	225	50	80	45	9	305	55	95	57	11	160	-	30	45	9
1/2	295	55	77,5	50	11	295	55	83	50	11	370	55	97	60	11	205	-	30	50	11
3/4	420	60	90,5	60	12	415	60	95	61	12	545	60	109	70	10	315	-	35	60	12
1"	640	65	100,5	70	14	640	65	105	70	14	905	65	127	84	15	520	-	41	70	14
1 1/4"	950	65	117	85	16	950	65	125	85	16	1170	75	149	92	16	860	-	49	85	16
1 1/2"	1230	75	131	90	16	1225	75	150	90	16	1660	80	158	107	18	1060	-	56	90	16
2"	1890	80	145	110	18	1860	80	165	110	18	3010	90	174	126	19	1710	-	63	110	18
2 1/2"	4120	120	201	135	23	3950	120	225	135	23	-	-	-	-	3320	-	73,5	135	23	
3"	5270	120	224	148	22	5265	120	255	146	22	-	-	-	-	4250	-	88	148	22	
4"	10060	175	279,5	190	23	10690	175	320	190	23	-	-	-	-	8560	-	110	190	23	
															8480	-	110	190	23	

cim 76

FLANGED BRONZE GLOBE VALVE METAL TO METAL SEATING - PN 16
DRILLING TO PN 6 - PN 10 - PN16



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
mm.	15	20	25	32	40	50	70	80	100

cim 82

FLANGED BRONZE GLOBE VALVE - P.T.F.E. DISC - PN 16
DRILLING TO PN 6 - PN 10 - PN 16



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
mm.	15	20	25	32	40	50	70	80	100

cim 77

FLANGED BRONZE CHECK VALVE METAL TO METAL SEATING
DRILLING TO PN 6 - PN10 - PN16



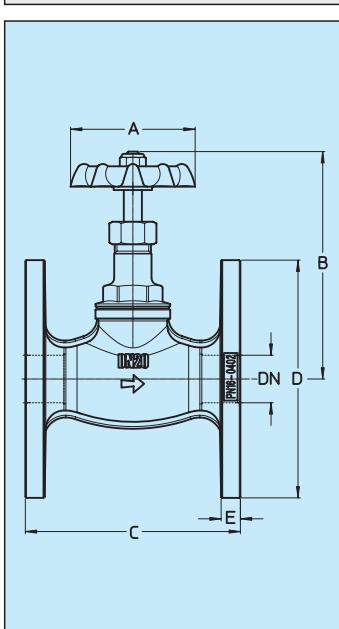
DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
mm.	15	20	25	32	40	50	70	80	100

cim 79

FLANGED BRONZE LIFT CHECK VALVE - P.T.F.E. DISC - PN 16
DRILLING TO PN 6 - PN 10 - PN 16



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
mm.	15	20	25	32	40	50	70	80	100



		Cim 76					Cim 82					Cim 77 - Cim 79					
DN	mm.	Grms.	A	B	C	D	E	Grms.	A	B	C	D	E	Grms.	C	D	E
1/2	15	1240	55	98	84	95	8	1230	55	98	84	95	8	1220	84	95	8
3/4	20	1720	55	108	95	105	8	1710	55	108	95	105	8	1650	95	105	8
1"	25	2290	65	120	105	120	9,5	2295	65	120	105	120	9,5	2330	105	120	9,5
1 1/4"	32	3330	65	130	115	140	9,5	3315	65	130	115	140	9,5	3450	115	140	9,5
1 1/2"	40	4610	80	155	134	150	11	4625	80	155	134	150	11	4430	134	150	11
2"	50	6100	80	165	156	165	11	6000	80	165	156	165	11	5750	156	165	11
2 1/2"	70	8890	120	210	170	185	13	8840	120	210	170	185	13	8050	170	185	13
3"	80	11650	120	265	180	200	13	11500	120	265	180	200	13	10270	180	200	13
4"	100	18110	175	305	200	230	17	17860	175	305	200	230	17	16140	200	230	17

cim 60

HOT PRESSED STOP COCK HEAVY TYPE - PN 20



DN	3/8	1/2	3/4	1"	DN	3/8	1/2	3/4	1"
	230	290	420	650	A	50	55	55	65
Box	50	35	25	16	B	80	91	98	110
Cart.	200	140	100	64	C	52	57	63	73
					D	10	12	14	14

cim 80

BRASS SWING CHECK VALVE - METAL TO METAL SEATING - PN 16



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	230	290	420	650	950	1350	1850	2550	3550	4850
Box	50	25	20	12	10	5	4	2	2	2
Cart.	200	100	80	48	40	20	16	8	4	4

cim 80 A

BRASS SWING CHECK VALVE - RENEWABLE EPDM DISC - PN 16



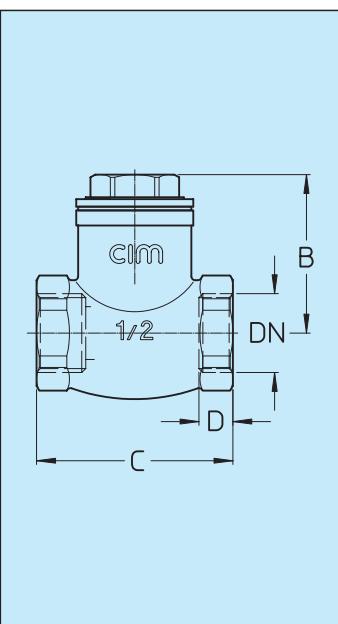
DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	230	290	420	650	950	1350	1850	2550	3550	4850
Box	50	25	20	12	10	5	4	2	2	2
Cart.	200	100	80	48	40	20	16	8	4	4

cim 32

SPRING-LOADED CHECK VALVE - PN 16



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"					
	230	290	420	650	950	1350	1850					
Box	50	50	25	15	10	8						
Cart.	200	200	100	60	40	32						
Cim 80 - Cim 80A					Opening pressure inner valve O = horiz. inst. - V = vert. inst.			Cim 32				
DN	Grms.	B	C	D	Cim 80	Cim 80/A	Grms.	B	D	D1		
3/8	-	-	-	-	O	V	O	V	-	-		
1/2	230	42	52	13	0,7	11	0,7	11	50	33	13,5	14,5
3/4	335	45	62	13	0,7	9	0,7	9	95	38	13,5	14,5
1"	480	53	70	14	0,7	9	0,7	9	160	44	15	15,5
1 1/4"	720	61	84	16	0,7	8	0,7	8	260	49	17	17
1 1/2"	880	62,5	87	16	0,7	8	0,7	8	360	57	19	19
2"	1455	70	106	17	0,7	9	0,7	9	715	75	22	20
2 1/2"	2080	86	118,5	23	0,4	9	0,4	9				
3"	3010	94	136,5	28	0,4	9	0,4	9				
4"	5550	115	170	25	0,5	9	0,5	9				



Cim 80 - Cim 80A					Opening pressure inner valve O = horiz. inst. - V = vert. inst.			Cim 32				
DN	Grms.	B	C	D	Cim 80	Cim 80/A	Grms.	B	D	D1		
3/8	-	-	-	-	O	V	O	V	-	-		
1/2	230	42	52	13	0,7	11	0,7	11	50	33	13,5	14,5
3/4	335	45	62	13	0,7	9	0,7	9	95	38	13,5	14,5
1"	480	53	70	14	0,7	9	0,7	9	160	44	15	15,5
1 1/4"	720	61	84	16	0,7	8	0,7	8	260	49	17	17
1 1/2"	880	62,5	87	16	0,7	8	0,7	8	360	57	19	19
2"	1455	70	106	17	0,7	9	0,7	9	715	75	22	20
2 1/2"	2080	86	118,5	23	0,4	9	0,4	9				
3"	3010	94	136,5	28	0,4	9	0,4	9				
4"	5550	115	170	25	0,5	9	0,5	9				

The spring loaded inner valve opens and lifts with a pressure of 10 mbar (0,14 psi)

cim 30

"SPRINT" SPRING-LOADED CHECK VALVE - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	25	20	12	8	5	4	3	2
Cart.	200	200	100	80	48	32	20	12	6	4

cim 30 DK

"SPRINT" SPRING-LOADED CHECK VALVE FOR HYDROCARBONS - PN 20



DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	25	20	12	8	5	4	3	2
Cart.	200	200	100	80	48	32	20	12	6	4

cim 30 VA

"SPRINT" SPRING-LOADED CHECK VALVE FOR STEAM - 4 BAR - 150°C



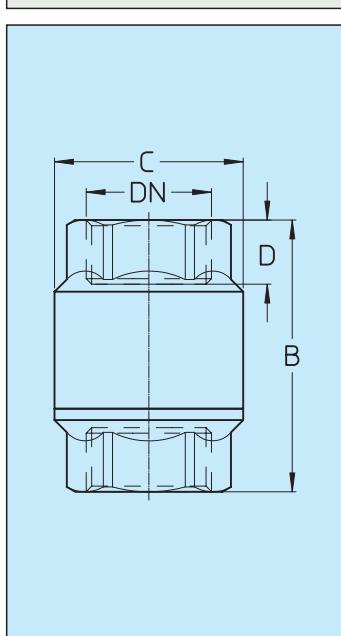
DN	3/8	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	50	50	25	20	12	8	5	4	3	2
Cart.	200	200	100	80	48	32	20	12	6	4

cim 30 PRS

"SPRINT" SPRING-LOADED CHECK VALVE - PRESSFITTING - PN 20



DN	15x15	18x18	22x22	28x28	35x35	42x42	54x54			
Box	30	30	30	15	10	5	2			
Cart.	120	120	120	60	40	20	8			

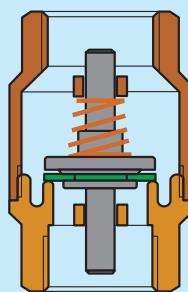


DN	Cim 30 - Cim 30 DK - Cim 30 VA				Cim 30 PRS			
	Grms.	B	C	D	DN	Grms.	B	D
3/8	175	55	35	10	15x15	310	140	39,8
1/2	155	55	35	12	18x18	420	150	41,3
3/4	240	62	42	13	22x22	445	155	44
1"	370	72	50	14	28x28	685	170	44
1 1/4"	480	82	60	16	35x35	920	175	43
1 1/2"	915	96	70	18	42x42	1505	200	48
2"	1320	109	83	20	54x54	2225	230	54
2 1/2"	2505	129	103	25				
3"	3490	141	123	25				
4"	5140	146	160	26				

The inner valve opens and lifts with a pressure of 25 mbar (0,36 psi)

Inner valve: Cim 30: hostaform
Cim 30/DK: hostaform
Cim 30/VA: PPS

Inn. val. gasket: Cim 30: EPDM
Cim 30/DK: FKM
Cim 30/VA: EPDM PEROX



Body: Brass EN 12165 CW617N
Screwed end: Brass EN 12165 CW617N
Inner valve: Hostaform
Inner valve gasket: EPDM
Spring: stainless steel 18/8

CONTROLLABLE ANTI-POLLUTION CHECK VALVE

The **CIM33CREA** CONTROLLABLE ANTI-POLLUTION check valve is manufactured in accordance with the EN 1717 Class EA European Standard. This standard deals with methods for preventing the contamination of potable water as a result of backflow. The hygienic protection of the water supply system is achieved by using components fabricated from materials compatible with potable water, guarding against cross connections, preventing backflow and ensuring that the components are controllable.

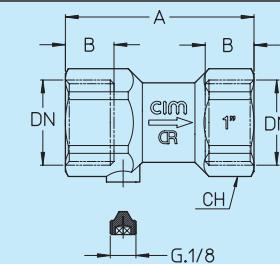
Manufactured in "**CR**" (dezincification resistant) brass, this valve can be installed in any position, and will allow only uni-directional flow. The valve opens automatically when the upstream pressure is greater than downstream pressure. If the downstream pressure is greater, or a "no flow" situation exists, the valve is closed by the action of a spring. The spring valve is KIWA, WRC, NF, DVGW approved. Opening pressure 10 mbar. Working temperature from -10° until 95°C.

cim 33 CREA

CONTROLLABLE ANTI POLLUTION CHECK VALVE IN DZR BRASS "**CR**" ALLOY - PN 16



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	
Box	40	24	20	20	15	10	
Cart.	160	96	80	80	60	40	

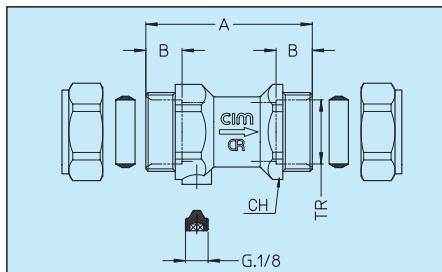


cim 33 CREARB

CONTROLLABLE ANTI-POLLUTION CHECK VALVE IN DZR BRASS "**CR**" ALLOY
COMPRESSION ENDS - PN 16



mm.	15x15	22x22	28x28				
Box	25	20	12				
Cart.	100	80	48				

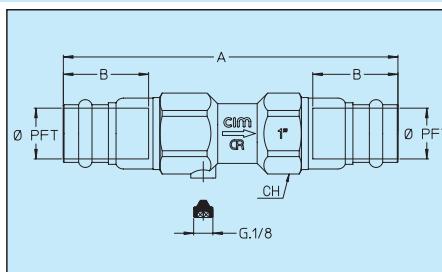


cim 33 CREAPRS

CONTROLLABLE ANTI-POLLUTION CHECK VALVE IN DZR BRASS "**CR**" ALLOY
PRESS ENDS - PN 16



mm.	15x15	18x18	22x22	28x28	35x35	42x42	54x54	
Box	20	15	15	10	8	4	2	
Cart.	80	60	60	40	32	16	8	



Opening pressure inner valve: 10mbar

Body	CW602N
Housing	POM
Valve	POM
Torpedo	POM
Seal	NBR
Spring	Stainless steel 18/8
O-Ring	NBR
Plug	CW602N

cim 95

FILTERING FOOT VALVE - PN 16



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Box	50	40	24	15	12	7	3	2	2	1	
Cart.	200	160	96	60	48	28	12	8	4	2	1

cim 95 A

FILTERING FOOT CHECK VALVE - PN 16 Filtering Foot in Inox from 1/2 to 1 1/2" in Brass from 2" to 4"



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Box	50	50	30	15	10	7	2	2	2		
Cart.	200	200	120	60	40	28	12	12	4		

cim 30 A

"SPRINT" SPRING-LOADED FILTERING FOOT VALVE - PN 20 Filtering Foot in Inox



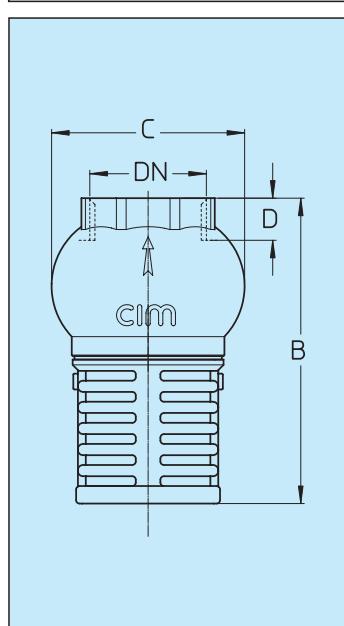
DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Box	20	14	12	5	5	2	2	2	1		
Cart.	80	56	48	20	20	8	8	4	2		

cim 33 ACREA

FILTERING FOOT VALVE "TYPE 33 CREA" - "CR" - PN 16 - Filtering Foot in Inox



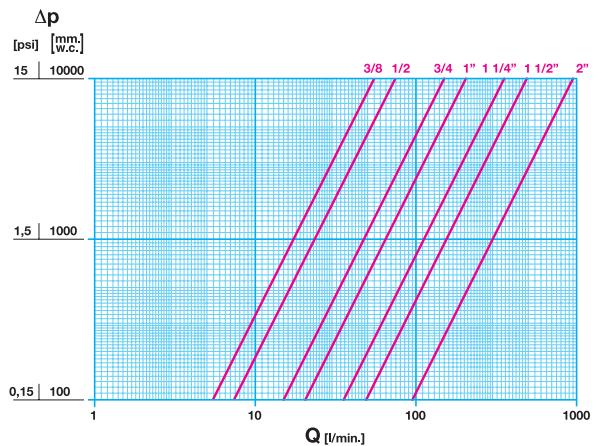
DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	5"	6"
Box	20	14	12	5	5	2					
Cart.	80	56	48	20	20	8					



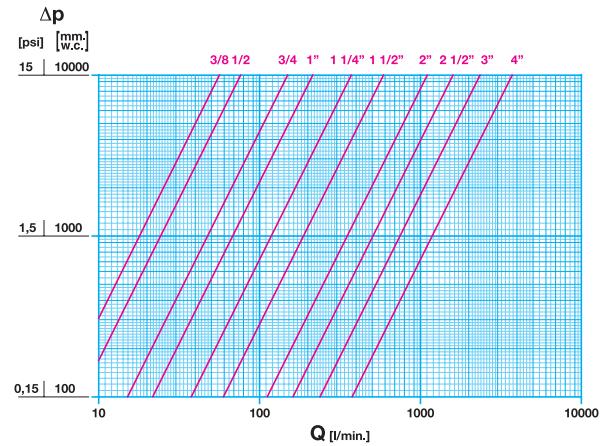
DN	Cim 95			Cim 95 A			Cim 30 A			Cim 33 ACREA		
	Grms.	B	C	D	Grms.	B	C	D	Grms.	B	C	D
1/2	185	62	39	9	130	97	26	10	165	98	35	12
3/4	275	76	46	11	225	114	32	12	270	110	42	13
1"	375	87	55	11	310	130	38	13	415	120	50	14
1 1/4"	495	98	64	13	480	145	47	15	620	134,5	60	16
1 1/2"	640	106	69	13	695	169	54	15	960	163	70	18
2"	1010	120	87	13	1220	171	66	22	1375	192	83	20
2 1/2"	1910	145	108	15	2205	208	83	20	2600	213	103	25
3"	2465	160	126	15	2940	228	96	20	3615	240	123	25
4"	4870	209	166	17	4890	259	123	24	5310	260,5	160	26
5"	11950	290	200	19	-	-	-	-	-	-	-	-
6"	14850	336	235	21	-	-	-	-	-	-	-	-

Flow and pressure drop

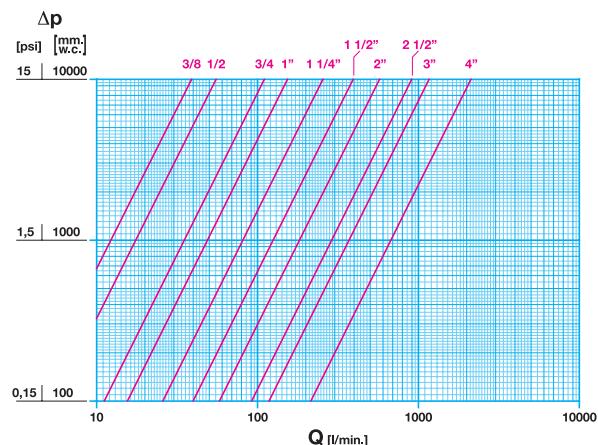
cim 61 - 62



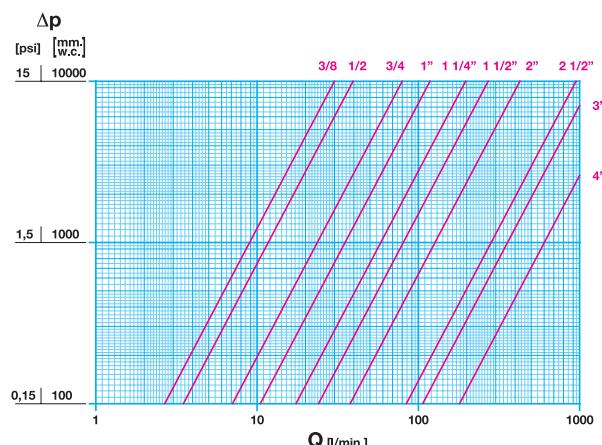
cim 73 - 74



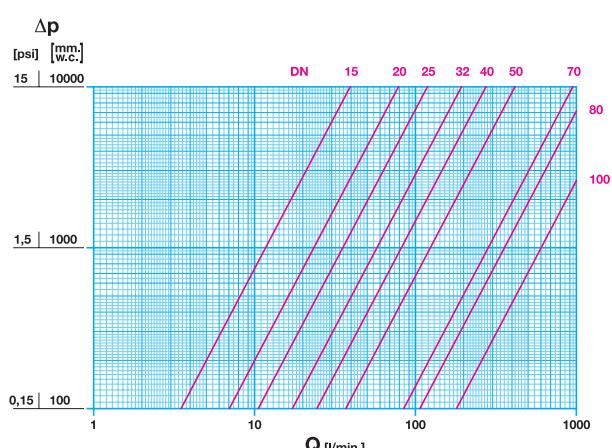
cim 74A - 74ACR - 74AO



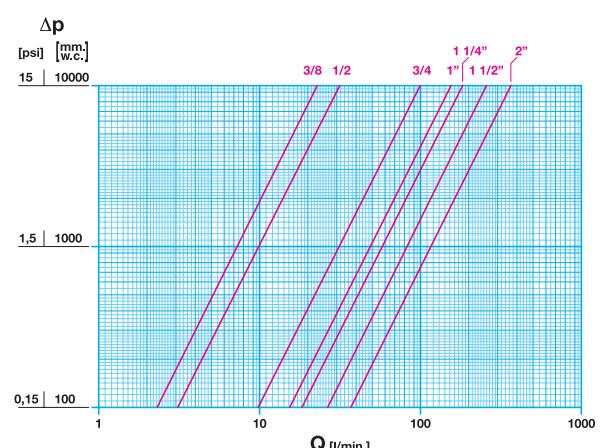
cim 75 - 81L



cim 76 - 82

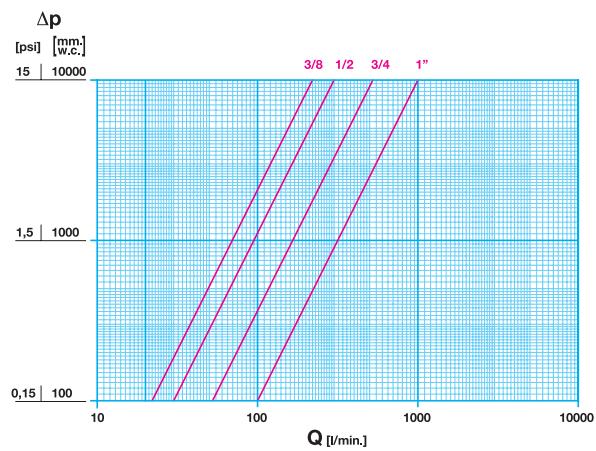


cim 81

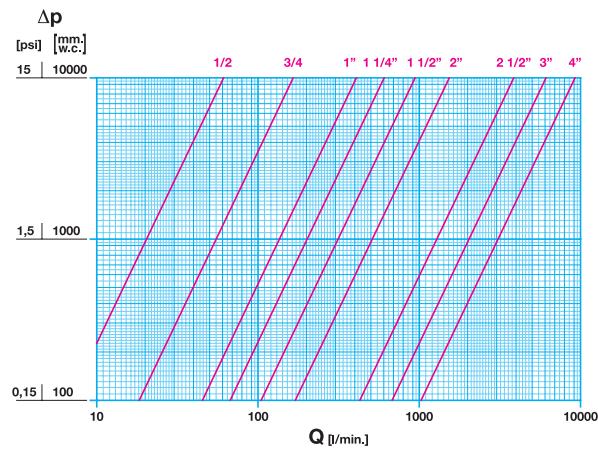


Flow and pressure drop

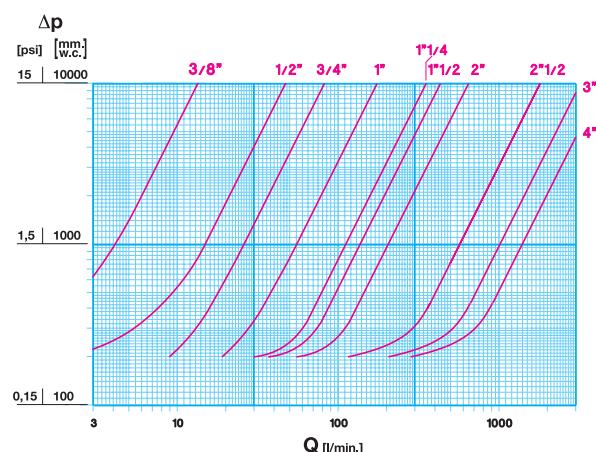
cim 60



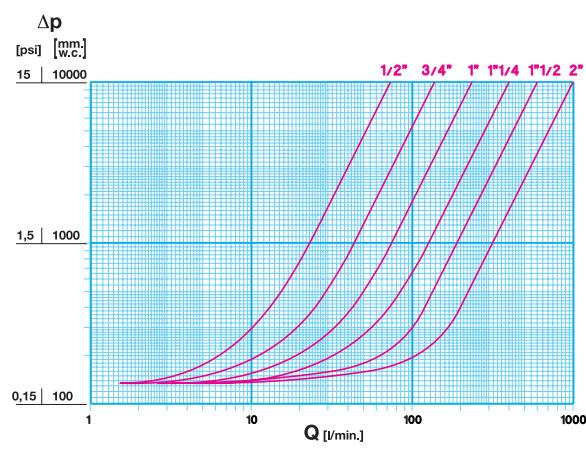
cim 80 - 80A



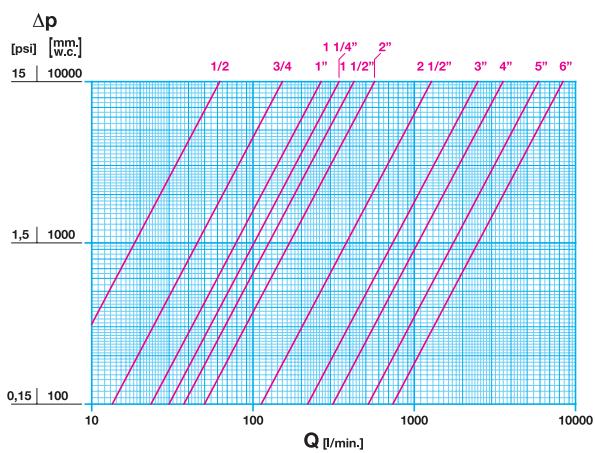
cim 30



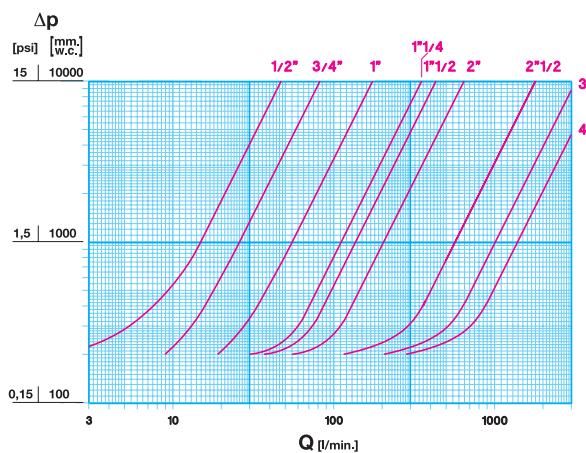
cim 32 - 33 CREA



cim 95



cim 30A



PASCAL	ATTESTATO DI ESAME CE DEL TIPO
N. PA017 Rev. 1	Secondo il modulo B della direttiva 97/23/CE FOGLIO 1/3
Dati dell'Organismo Notificato	
Società Consorzio PASCAL o.r.l. VIA SCARSELINI, 13 - 20141 MILANO - ITALIA	
Numero identificativo CE 1115	
Dati del Costruttore/Mandatario	
COSTRUTTORE (nome o marchio)	Cav. Uff. Giacomo Cimberio s.p.a.
INDIRIZZO	Via Tarchio, 57 28017 SAN MAURIZIO D'OPAGLIO (NO) - I-
MANDATARIO	
INDIRIZZO	
Dati TIPO	FILTRI (a configurazione obliqua) Modi CM: 7AA, 7AACR, 7ACCR
CARATTERISTICHE DI ESECUZIONE (Per ciascun modulo i parametri indicati sono delegati all'allegato I)	
Pressione massima di esercizio [bar] PN	30
Diametro (mm) DN	32 - 100
Temperatura massima di esercizio [°C]	Vedere Allegato II
Ritardi	acqua, aria compressa, vapore d'acqua, idrocarburi liquidi
Categoria di appartenenza	
I, II	
Banco dei documenti specificati dal fascicolo tecnico di cui PASCAL conserva una copia	
Specie verificata	X Documenti normativi e soluzioni odierne
CIM 7AACR da 3"	X
Programma di lubrificazione	X Ingegnatori rivedute alla qualificazione dei procedimenti di lubrificazione e del subdito/a/e o degli operatori del CIM.
Utenze per l'uso	X Attrezzi materiali e prodotti
Documento descrittivo dei materiali utilizzati, dei controlli effettuati con le informazioni pertinenti relative allo progettista	X
Conclusioni dell'esame	
Dall'esame del fascicolo tecnico e dalle prove eseguite risulta che il tipo soddisfa i requisiti essenziali dell'allegato I della direttiva 97/23/CE	
Condizioni di validità dell'attestato	
Tutte le modifiche al tipo risultanti dalle seguenti ad integrazione ordinaria dei modifiche possono ridurre tutte le caratteristiche di qualità essenziali: non hanno luogo se non si tratta di controlli di conformità o di accertamenti di funzionalità. L'attestato è soggetto alle condizioni generali di PASCAL, compresa la clausola di limitazione di responsabilità.	
DATA PRIMA EMISSIONE	26/02/2002
DATA EMISSIONE CORRENTE	31/05/2006
Presidente PASCAL (Dott. Maurizio Brancareo)	

PASCAL	ATTESTATO DI ESAME CE DEL TIPO						
N. PA017 Rev. 1	Secondo il modulo B della direttiva 97/23/CE FOGLIO 2/3						
Allegato I							
VARIANTI							
Designazione valvola: CIM ...	Gamme di diametri disponibili DN [mm]						
... 7AA	tutta la gamma di DN riportata						
... 7AACR, 7ACCR	Fino DN 50 mm						
DATI CARATTERISTICI							
DN	PS	PN	PS+DN	Categoria di chiusura con Gas naturale, Liquidi e di città (tab. 6)	Categoria di chiusura con aria e vapore (tab. 7)	Categoria di chiusura con idrocarburi liquidi (tab. 8)	Categoria di chiusura con Acqua (tab. 9)
32	20	20	840	I	art. 3.3	art. 3.3	art. 3.3
40	20	20	800	I	art. 3.3	art. 3.3	art. 3.3
50	20	20	1000	I	art. 3.3	art. 3.3	art. 3.3
65	20	20	1200	II	I	art. 3.3	art. 3.3
80	20	20	1600	II	I	art. 3.3	art. 3.3
100	20	20	2000	II	I	art. 3.3	art. 3.3
NOTE: * con tensione di vapore alla Tmax, superiore di 0,5 bar della Patm							
DATA PRIMA EMISSIONE	26/02/2002						
DATA EMISSIONE CORRENTE	31/05/2006						
Presidente PASCAL (Dott. Maurizio Brancareo)							

PASCAL	ATTESTATO DI ESAME CE DEL TIPO	
N. PA017 Rev. 1	Secondo il modulo B della direttiva 97/23/CE FOGLIO 3/3	
Allegato II		
TEMPERATURE DI ESERCIZIO		
Designazione valvola: CIM ...	Temperatura massima [°C]	Temperatura minima [°C]
... 7AA, 7AACR, 7ACCR	100° C (20 bar)	-10 °C
... 7AA	150° C (5,8 bar)	
DATA PRIMA EMISSIONE	26/02/2002	
DATA EMISSIONE CORRENTE	31/05/2006	
Presidente PASCAL (Dott. Maurizio Brancareo)		

PASCAL	ATTESTATO DI ESAME CE DEL TIPO
N. PA021 Rev. 1	Secondo il modulo B della direttiva 97/23/CE FOGLIO 1/2
Dati dell'Organismo Notificato	
Società Consorzio PASCAL o.r.l. VIA SCARSELINI, 13 - 20141 MILANO - ITALIA	
Numero identificativo CE 1115	
Dati del Costruttore/Mandatario	
COSTRUTTORE (nome o marchio)	Cav. Uff. Giacomo Cimberio s.p.a.
INDIRIZZO	Via Tarchio, 57 28017 SAN MAURIZIO D'OPAGLIO (NO) - I-
MANDATARIO	
INDIRIZZO	
Dati TIPO	FILTRI PER GAS (a configurazione obliqua) Modi CM: 7AG, 7AGCR, 7ACCR
CARATTERISTICHE DI ESECUZIONE (Per ciascun modulo i parametri indicati sono delegati all'allegato I)	
Pressione massima di esercizio [bar] PN	30
Diametro (mm) DN	32 - 50
Pressione massima di esercizio [bar] PN	30
Temperatura massima di esercizio [°C]	-30
Ritardi	Gas (gruppo 1)
Categoria di appartenenza	
II	
Banco dei documenti specificati dal fascicolo tecnico di cui PASCAL conserva una copia	
Specie verificata	X Documenti normativi e soluzioni odierne
CIM 7AACR da 3"	X
Programma di lubrificazione	X Ingegnatori rivedute alla qualificazione dei procedimenti di lubrificazione e del subdito/a/e o degli operatori del CIM.
Utenze per l'uso	X Attrezzi materiali e prodotti
Documento descrittivo dei materiali utilizzati, dei controlli effettuati con le informazioni pertinenti relative allo progettista/progettista	X
Conclusioni dell'esame	
Dall'esame del fascicolo tecnico e dalle prove eseguite risulta che il tipo soddisfa i requisiti essenziali dell'allegato I della direttiva 97/23/CE	
Condizioni di validità dell'attestato	
Tutte le modifiche al tipo risultanti dalle seguenti ad integrazione ordinaria dei modifiche possono ridurre tutte le caratteristiche di qualità essenziali: non hanno luogo se non si tratta di controlli di conformità o di accertamenti di funzionalità. L'attestato è soggetto alle condizioni generali di PASCAL, compresa la clausola di limitazione di responsabilità.	
DATA PRIMA EMISSIONE	21/02/2002
DATA EMISSIONE CORRENTE	31/05/2006
Presidente PASCAL (Dott. Maurizio Brancareo)	

PASCAL	ATTESTATO DI ESAME CE DEL TIPO						
N. PA021 Rev. 1	Secondo il modulo B della direttiva 97/23/CE FOGLIO 2/2						
Allegato I							
VARIANTI							
Designazione valvola: CIM ...	Gamme di diametri disponibili DN [mm]						
... 7AG, 7AGCR, 7ACCR	tutta la gamma di DN riportata						
DATI CARATTERISTICI							
DN	PS	PN	PS+DN	Categoria di chiusura con Gas naturale, Liquidi e di città (tab. 6)			
32	40	20	1280	II			
40	40	20	1600	II			
50	40	20	2000	II			
NOTE: * con tensione di vapore alla Tmax, superiore di 0,5 bar della Patm							
DATA PRIMA EMISSIONE	21/02/2002						
DATA EMISSIONE CORRENTE	31/05/2006						
Presidente PASCAL (Dott. Maurizio Brancareo)							

PASCAL	ATTESTATO DI ESAME CE DEL TIPO							
N. PA006	Secondo il modulo B della direttiva 97/23/CE FOGLIO 1/2							
Allegato I								
VALVOLE A GLOBO								
Variante:								
Designazione valvola: CIM ...	PS	PN	DN	PS+DN	Categoria di chiusura con Gas naturale, Liquidi e di città (tab. 6)	Categoria di chiusura con idrocarburi liquidi (tab. 8)	Categoria di chiusura con vapore (tab. 7)	Categoria di chiusura con acqua (tab. 9)
SI 76, 8L, 8L	16	16	32	512	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	40	840	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	30	800	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	65	1040	II	I	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	80	1280	II	I	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	100	1600	II	I	art. 3.3	art. 3.3
NOTE: * con tensione di vapore alla Tmax, superiore di 0,5 bar della Patm								
Temperature ammissibili								
Temperature massima ammissibile: 100 °C (16 bar) 170 °C (7 bar)								
Temperature minima ammissibile: -10 °C								
DATA	Presidente PASCAL (Dott. Maurizio Brancareo)							
21/02/02								

PASCAL	ATTESTATO DI ESAME CE DEL TIPO							
N. PA006	Secondo il modulo B della direttiva 97/23/CE FOGLIO 2/2							
Allegato I								
VALVOLE A GLOBO								
Variante:								
Designazione valvola: CIM ...	PS	PN	DN	PS+DN	Categoria di chiusura con Gas naturale, Liquidi e di città (tab. 6)	Categoria di chiusura con idrocarburi liquidi (tab. 8)	Categoria di chiusura con vapore (tab. 7)	Categoria di chiusura con acqua (tab. 9)
SI 76, 8L, 8L	16	16	32	512	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	40	840	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	30	800	I	art. 3.3	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	65	1040	II	I	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	80	1280	II	I	art. 3.3	art. 3.3
SI 76, 8L, 8L	16	16	100	1600	II	I	art. 3.3	art. 3.3
NOTE: * con tensione di vapore alla Tmax, superiore di 0,5 bar della Patm								
Temperature ammissibili								
Temperature massima ammissibile: 100 °C (16 bar) 170 °C (7 bar)								
Temperature minima ammissibile: -10 °C								
DATA	Presidente PASCAL (Dott. Maurizio Brancareo)							
21/02/02								

PASCAL	ATTESTATO DI ESAME CE DEL TIPO
N. PA006	Secondo il modulo B della direttiva 97/23/CE FOGLIO 3/2
Allegato II	
kiwa Partner for progress	
Certificate Number: A630212	
Date issued: 16 th May 2003	
CIM Strainer Model: CIM 74A Size: 3/8" to 4"	
This is to certify that the above range of products manufactured by Giacomo Cimberio s.p.a.	
has been tested and found to comply with the requirements of the Water Supply (Water Fittings) Regulations 1999 for England and Wales, the Water Byelaws 2000, Scotland and the Water Regulations Northern Ireland.	
To comply with the Regulations and Byelaws all products require the correct installation. Details of the installation requirements may be obtained from the manufacturer instructions supplied with the products.	
D. S. Hodges	
Director Kiwa Quality Services Ltd	
Manufacturer Giacomo Cimberio s.p.a. Via Tarchio, 57 28017 San Maurizio d'Opaglio (NO) Italy NPI0429 VAT number: 01639122122 Tel: +39 030 822275300 Fax: +39 030 82221714 E-mail: info@giacomocimberio.it Web: www.giacomocimberio.it	

PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 1/2

Dati dell'Organismo Notificato
Società Consorziale PASCAL s.r.l.
VIA G.GIARDINO, 4 - 20122 - MILANO - ITALIA
Numero identificativo CE 1115
Dati del Costruttore/Mandatario
COSTRUTTORE Cav. Uff. Giacomo Cimberio a.p.a.
INDIRIZZO Via Torchio, 57
20017 SAN MAURIZIO D'OPAGLIO (NO) - I-
MANDATARIO
INDIRIZZO
Dati
TIPO VALVOLE A GLOBO (a configurazione diritta)
art. CIM 81
CARATTERISTICHE DI ESERCIZIO Pressione massima di esercizio [bar] PN 20
Diametro (mm) DN 32 + 50
Temperatura massima di esercizio (°C) 100 (20 bar)
Fluidi acque, olio compresso, vapor d'acqua, idrocarburi liquidi
Categoria di appartenenza I, II
Bollo dei documenti significativi del fascicolo tecnico di cui PASCAL conserva una copia
Tipo verificata CIM 81/2
 Documenti normativi e soluzioni adottate
 Progetto di fabbricazione
 Regolazioni relative alla qualificazione dei procedimenti di solidafe e del solidofo allo degli operatori del CIM
Utenzione per l'uso Attenzione: non utilizzare i prodotti
Documento descrittivo del materiale utilizzato Relazione sugli esami e sulle prove cui è il preceduto o la descrizione dei controlli previsti
Concluzioni dell'esame Dall'esame del fascicolo tecnico e delle prove eseguite risulta che il tipo soddisfa i requisiti essenziali dell'attuale 1/2 della Direttiva 97/23/CE
Condizioni di validità dell'attestato Sono le medesime di quelle riportate nel fascicolo tecnico, salvo che le medesime possono essere ulteriormente estese in base alle specifiche esigenze di uso. Tali nuove specifiche vengono indicate sotto forma di un addendum al documento di validità dell'attestato. L'utente è suppedito alle condizioni generali di PASCAL, degno alla domanda di informazioni finché da PASCAL
DATA 21/02/02 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano

PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 2/2

Allegato 1
VALVOLE A GLOBO

Variante:

Designazione e valvola: CIM ...	PN	PS	DN	PS+DN	Categoria di rischio con idrocarburi Liquidi (tab.6)	Categoria di rischio con aria o vapore (tab.7)	Categoria di rischio con idrocarburi Liquidi (tab.8)	Categoria di rischio con Acqua e liquidi (tab.9)
da 61 (fatta la gamma di DN 20 20 40 600 1000)	20	20	52	640	I	art. 3.3	art. 3.3	art. 3.3
	20	20	40	600	I	art. 3.3	art. 3.3	art. 3.3
	20	20	1000		I	art. 3.3	art. 3.3	art. 3.3

NOTE: * con tensione di vapore alla Tmax, superiore di 0,8 bar della Patm

Temperature di esercizio

Temperatura massima	100 °C (20 bar)
Temperatura minima:	-10 °C

DATA 21/02/02 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano



PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 1/2

Dati dell'Organismo Notificato
Società Consorziale PASCAL s.r.l.
VIA G.GIARDINO, 4 - 20122 - MILANO - ITALIA
Numero identificativo CE 1115
Dati del Costruttore/Mandatario
COSTRUTTORE Cav. Uff. Giacomo Cimberio a.p.a.
INDIRIZZO Via Torchio, 57
20017 SAN MAURIZIO D'OPAGLIO (NO) - I-
MANDATARIO
INDIRIZZO
Dati
TIPO VALVOLE DI RITENZIONE (a configurazione diritta)
Modi di CIM: 77, 78, 79, 80, 32, 32DK, 33ACR, 33CH, 33DK
CARATTERISTICHE DI ESERCIZIO Pressione massima di esercizio [bar] PN 32 + 100
Diametro (mm) DN 100
Temperatura massima di esercizio (°C) Vedere Allegato II
Fluidi acque, olio compresso, vapor d'acqua, idrocarburi liquidi
Categoria di appartenenza I, II
Bollo dei documenti significativi del fascicolo tecnico di cui PASCAL conserva una copia
Tipo verificata CIM 32/2
 Documenti normativi e soluzioni adottate
 Regolazioni relative alla qualificazione dei procedimenti di solidafe e del solidofo allo degli operatori del CIM
Utenzione per l'uso Attenzione: non utilizzare i prodotti
Documento descrittivo del materiale utilizzato Relazione sugli esami e sulle prove cui è il preceduto o la descrizione dei controlli previsti
Concluzioni dell'esame Dall'esame del fascicolo tecnico e delle prove eseguite risulta che il tipo soddisfa i requisiti essenziali dell'attuale 1/2 della Direttiva 97/23/CE
Condizioni di validità dell'attestato Sono le medesime di quelle riportate nel fascicolo tecnico, salvo che le medesime possono essere ulteriormente estese in base alle specifiche esigenze di uso. Tali nuove specifiche vengono indicate sotto forma di un addendum al documento di validità dell'attestato. L'utente è suppedito alle condizioni generali di PASCAL, degno alla domanda di informazioni finché da PASCAL
DATA 21/02/02 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano

PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 2/2

Allegato 1
VALVOLE DI RITENZIONE

Variante:

Designazione e valvola: CIM ...	PN	PS	DN	PS+DN	Categoria di rischio con idrocarburi Liquidi (tab.6)	Categoria di rischio con aria o vapore (tab.7)	Categoria di rischio con idrocarburi Liquidi (tab.8)	Categoria di rischio con Acqua e liquidi (tab.9)
da 77, 78, 79, 80, 32, 32DK, 33ACR, 33CH, 33DK (fatta la gamma di DN 10 16 22 512)	10	16	22	512	I	art. 3.3	art. 3.3	art. 3.3
da 78, 80 (fatta la gamma di DN 10 16 22 600)	10	16	22	600	I	art. 3.3	art. 3.3	art. 3.3
da 80 (fatta la gamma di DN 10 16 22 1040)	10	16	22	1040	II	I	art. 3.3	art. 3.3
da 32, 32DK, 33ACR, 33CH, 33DK (fatto la gamma di DN 16 100 1600)	16	16	100	1600	II	I	art. 3.3	art. 3.3

NOTE: * con tensione di vapore alla Tmax, superiore di 0,8 bar della Patm

Temperature di esercizio

Pari/molti: CIM: 77, 78, 79	Temperatura massima: 100 °C (18 bar)
	170 °C (7 bar)
	Temperatura minima: -10 °C

Pari/molti: CIM: 40

Temperatura massima: 95 °C (18 bar)
120 °C (3,8 bar)
Temperatura minima: -10 °C

Pari/molti: CIM: 80, 32, 33CR, 33DK, 33ACR, 33CH, 33DK

Temperatura massima: 85 °C (18 bar)
Temperatura minima: -10 °C

DATA 21/02/02 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano



PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 1/3

Dati dell'Organismo Notificato
Società Consorziale PASCAL s.r.l.
VIA SCARLETTELLI 13 - 20161 MILANO - ITALIA
Numero identificativo CE 1115
Dati del Costruttore/Mandatario
COSTRUTTORE Cav. Uff. Giacomo Cimberio a.p.a.
INDIRIZZO Via Torchio, 57
20017 SAN MAURIZIO D'OPAGLIO (NO) - I-
MANDATARIO
INDIRIZZO
Dati
TIPO VALVOLE DI RITENZIONE (a configurazione diritta)
Modi di CIM: 30, 30A, 30DK, 30ACR, 20VA, 20VR, 30PR
CARATTERISTICHE DI ESERCIZIO Pressione massima di esercizio [bar] PN 20
Diametro (mm) DN 32 + 100
Temperatura massima di esercizio (°C) 22 + 100
Fluidi acque, olio compresso, vapor d'acqua, idrocarburi liquidi
Categoria di appartenenza I, II
Bollo dei documenti significativi del fascicolo tecnico di cui PASCAL conserva una copia
Tipo verificata CIM 30/2
 Documenti normativi e soluzioni adottate
 Regolazioni relative alla qualificazione dei procedimenti di solidafe e del solidofo allo degli operatori del CIM
Utenzione per l'uso Attenzione: non utilizzare i prodotti
Documento descrittivo del materiale utilizzato Relazione sugli esami e sulle prove cui è il preceduto o la descrizione dei controlli previsti
Concluzioni dell'esame Dall'esame del fascicolo tecnico e delle prove eseguite risulta che il tipo soddisfa i requisiti essenziali dell'attuale 1/2 della Direttiva 97/23/CE
Condizioni di validità dell'attestato Sono le medesime di quelle riportate nel fascicolo tecnico, salvo che le medesime possono essere ulteriormente estese in base alle specifiche esigenze di uso. Tali nuove specifiche vengono indicate sotto forma di un addendum al documento di validità dell'attestato. L'utente è suppedito alle condizioni generali di PASCAL, degno alla domanda di informazioni finché da PASCAL
DATA PRIMA EMISSIONE 21/02/2002 DATA EMISSIONE CORRENTE 31/05/2006
DATA EMISSIONE CORRENTE 31/05/2006 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano

PASCAL ATTESTATO DI ESAME CE DEL TIPO
Secondo il modulo B della direttiva 97/23/CE
FOGLIO 2/3

Allegato I

VARIANTI:

Designazione valvola: CIM ...	Gamma di diametri disponibili DN [mm]: tutta la gamma di DN riportata
30PSNE	DN 20 a 90

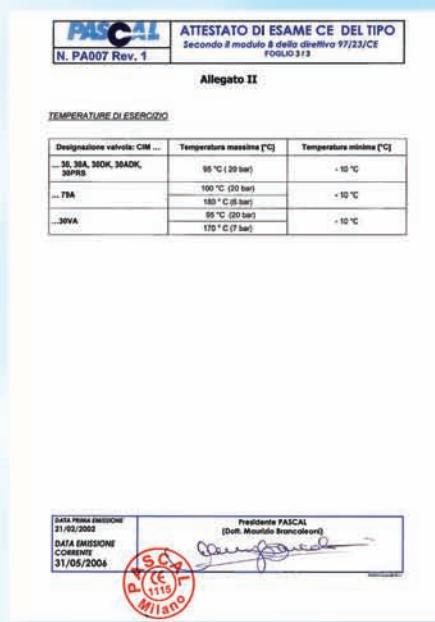
DATI CARATTERISTICI:

DN	PS	PN	PSDN	Categoria di rischio con idrocarburi Liquidi (tab.6)	Categoria di rischio con aria o vapore (tab.7)	Categoria di rischio con idrocarburi Liquidi (tab.8)	Categoria di rischio con Acqua e liquidi (tab.9)
32	20	20	640	I	art. 3.0	art. 3.3	art. 3.3
40	20	20	800	I	art. 3.3	art. 3.3	art. 3.3
50	20	20	1000	I	art. 3.3	art. 3.3	art. 3.3
65	20	20	1300	II	I	art. 3.3	art. 3.3
80	20	20	1600	II	I	art. 3.3	art. 3.3
100	20	30	2000	II	I	art. 3.3	art. 3.3

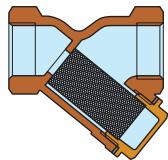
NOTE: * con tensione di vapore alla Tmax, superiore di 0,5 bar della Patm

DATA PRIMA EMISSIONE 21/02/2002 DATA EMISSIONE CORRENTE 31/05/2006 Presidente PASCAL (Dott. Maurizio Brancolini)

Milano

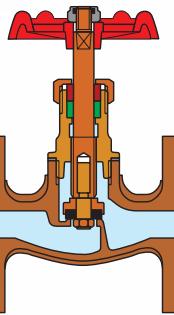


cim 74A



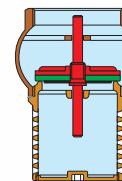
Bonnet	ENI2165 CW617N
O-ring	HNBR
Steel strainer	STAINLESS STEEL
Body Packing	NA1100
Body	Bronze ENI1982 CC491K

cim 82



Flanged body	Bronze ENI1982 CC491K
Bonnet	ENI2165 CW617N
Stem	ENI2164 CW617N
Packing	PTFE
Disc Nut	ENI2164 CW617N
Body Packing	NA 1100
Disc holder	ENI2164 CW617N
Stem packing	PTFE
Gland	ENI2164 CW617N
Gland nut	ENI2164 CW617N
Handwheel	EN AB46100
Self locking nut	Steel

cim 95



Body	ENI2165 CW617N
Strainer	ENI2165 CW617N
Strainer cap	ENI2165 CW617N
Body packing	GREY FIBER
Inner valve	CW617N
Inner valve	CW617N
Valve face	RED RUBBER
Ring	CW617N

WATERMARK LICENCE

Level 1

IAPMO R&T OCEANA hereby grants to:

Cav. Uff. Giacomo Cimberio S.p.A.
Via Torchio, 57, San Maurizio d'Opaglio, (NO) ITALY

The right to use the WaterMark in accordance with the AS3520.000 and the Building Code of Australia only in respect of the certified products as described in the attached WaterMark Schedule. The Licence is granted subject to the rules governing the "Watermark Configuration Scheme and the Terms and Conditions for WaterMark Certification".

Evaluated to:
AS 3688 - Water Supply - Metallic fittings and end connectors

Manufacturer:
Cav. Uff. Giacomo Cimberio S.p.A.

License No.: WMAKA2004 Certified Date: 26 June 2008
Issue Date: 35 September 2008 Expiry Date: 9 June 2009

R. Cimberio
Executive Director the IAPMO Group

The Watermark application to the above evaluated items is valid for the above scope. Any change in material, manufacturing process, drawing or design without having first obtained the approval of IAPMO R&T Oceana or any revision of incorporated or available drawings, documents or other information may be denied without notice by reference to relevant IAPMO R&T Oceana's Watermark Schedule. The certificate is limited to the products listed in the Watermark Schedule and may not be used for any other purpose.

WATERMARK SCHEDULE - LEVEL 1

Category	Product Type	Material	Size	Code
AS 3688	Water Supply - Metallic fittings and end connectors	Steel	AS 3688	AS 3688
		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
		Stainless Steel	AS 3688	AS 3688
		Alloy 20	AS 3688	AS 3688
		Monel 400	AS 3688	AS 3688
		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
		Stainless Steel	AS 3688	AS 3688
		Alloy 20	AS 3688	AS 3688
		Monel 400	AS 3688	AS 3688
		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
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		Alloy 20	AS 3688	AS 3688
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		Stainless Steel	AS 3688	AS 3688
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		Monel 400	AS 3688	AS 3688
		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
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		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
		Stainless Steel	AS 3688	AS 3688
		Alloy 20	AS 3688	AS 3688
		Monel 400	AS 3688	AS 3688
		Brass	AS 3688	AS 3688
		Monel	AS 3688	AS 3688
		Stainless Steel	AS 3688	AS 3688
		Alloy 20	AS 3688	AS 3688
		Monel 400	AS 3688	AS 3688
		Brass	AS 368	

cim 580

MANIFOLDS WITH INTERCHANGEABLE FITTING FOR FAR ADAPTERS
COPPER - PLASTIC - MULTI-LAYER - PIPE - 2 BRANCHES

cim 581

DN	3/4	1"	1 1/4"
Cart.	25	25	25

cim 582

MANIFOLDS WITH INTERCHANGEABLE FITTING FOR FAR ADAPTERS
COPPER - PLASTIC - MULTI-LAYER - PIPE - 3 BRANCHES

cim 583

DN	3/4	1"	1 1/4"
Cart.	25	25	25

cim 584

MANIFOLDS WITH INTERCHANGEABLE FITTING FOR FAR ADAPTERS
COPPER - PLASTIC - MULTI-LAYER - PIPE - 4 BRANCHES

cim 585

DN	3/4	1"	1 1/4"
Cart.	25	25	25

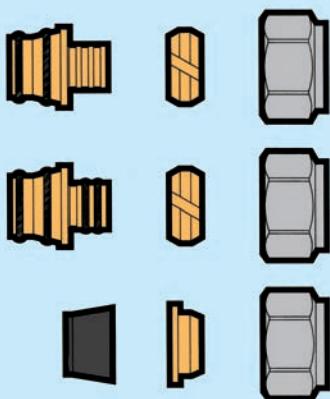
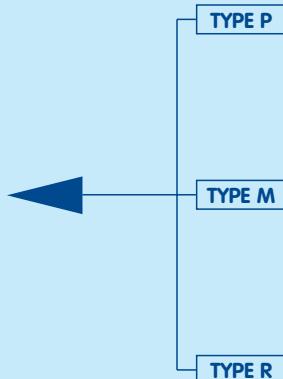
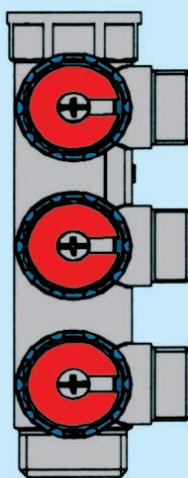
Chromed modular manifolds 2-3-4 branches with manual regulation supplied with handwheel, **BLUE-RED** double faced disc and disc with descriptions for sanitary or heating installations. Interchangeable fitting for copper, plastic and multilayer pipes.
INLET: 3/4 - 1" male-female gas - Distance between branches centres: mm.45.

MANIFOLDS MATCH TO ADAPTORS

ADAPTORS see page No. 95

from P1 to P19
DN 3/4 - 1" from M1 to M7
from R1 to R5

DN 1 1/4" from M8 to M9



WHEN PLACING AN ORDER, PLEASE STATE MANIFOLD CODE + ADAPTOR CODE : CIM 582 + P1

cim 1430

BRASS PRESSURE REDUCER FEMALE/FEMALE ENDS
MAXIMUM UPSTREAM PRESSURE: 25 BAR - DOWNSTREAM REDUCED PRESSURE: FROM 0,5 UP TO 6 BAR



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	1	1	1	1	1	1	1	1	1
Cart.	25	20	10	1	1	1	1	1	1

cim 1420

BRASS PRESSURE REDUCER MALE/MALE UNIONS
MAXIMUM UPSTREAM PRESSURE: 25 BAR - DOWNSTREAM REDUCED PRESSURE: FROM 0,5 UP TO 6 BAR



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	1	1	1	1	1	1	1	1	1
Cart.	25	20	10	1	1	1	1	1	1

cim 1460

BRASS PRESSURE REDUCER FEMALE/FEMALE UNIONS
MAXIMUM UPSTREAM PRESSURE: 25 BAR - DOWNSTREAM REDUCED PRESSURE: FROM 0,5 UP TO 6 BAR



DN	1/2	3/4	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Box	1	1	1	1	1	1	1	1	1
Cart.	20	10	10	1	1	1	1	1	1

cim 1020

BRASS PRESSURE REDUCER "MINI" - MAXIMUM UPSTREAM PRESSURE: 15 BAR
DOWNSTREAM REDUCED PRESSURE: FROM 1 UP TO 4 BAR



DN	3/8	1/2	3/4	Thanks to their small dimension, the pressure reducer CIM 1020 and CIM 1060 are suitable to be installed in sanitary systems for sole end-users, loading boiler installations, hydraulic systems for special machineries with direct loading from the water networks.			
Box / Cart.	1 / 50	1 / 50	1 / 50				

cim 1060

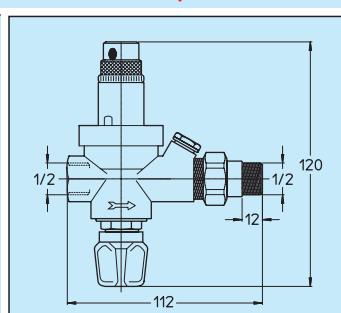


cim 1110

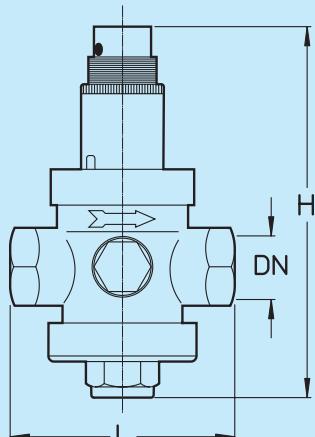
FILLING UNIT
MAXIMUM UPSTREAM PRESSURE: 16 BAR - DOWNSTREAM REDUCED PRESSURE: FROM 0,5 UP TO 4 BAR



DN	1/2	The automatic filling units series CIM 1110 are suitable to water supply in the closed circuit heating plants; it is a pressure reducer with stop cock and non return device which provides to stabilize the whole heating circuit and, when necessary, reloads water in the installation. Once the requested pressure is reached, the filling unit closes automatically.			
Box	1				
Cart.	20				



Pressure reducer



DN	Cim 1430				Cim 1020 - Cim 1060			
	H	L	L/min.	m³/h	H	L	L/min.	m³/h
3/8	-	-	-	-	93	60	8-12	0,5-0,7
1/2	120	75	20-50	1,2-3	93	60	10-14	0,6-0,8
3/4	150	85	50-75	3-4,5	93	60	12-16	0,7-0,8
1"	160	89	75-95	4,5-6	-	-	-	-
1 1/4"	220	125	95-130	6-8	-	-	-	-
1 1/2"	220	130	110-140	7-8,5	-	-	-	-
2"	250	138	120-160	7,5-10	-	-	-	-
2 1/2"	260	145	140-180	8,5-11	-	-	-	-
3"	285	177	160-220	10-13,2	-	-	-	-
4"	310	190	200-260	12-15,6	-	-	-	-

Service recommendations:

Cimberio pressure reducers are suitable to reduce and control pressure in installations having the following features:

FEATURES

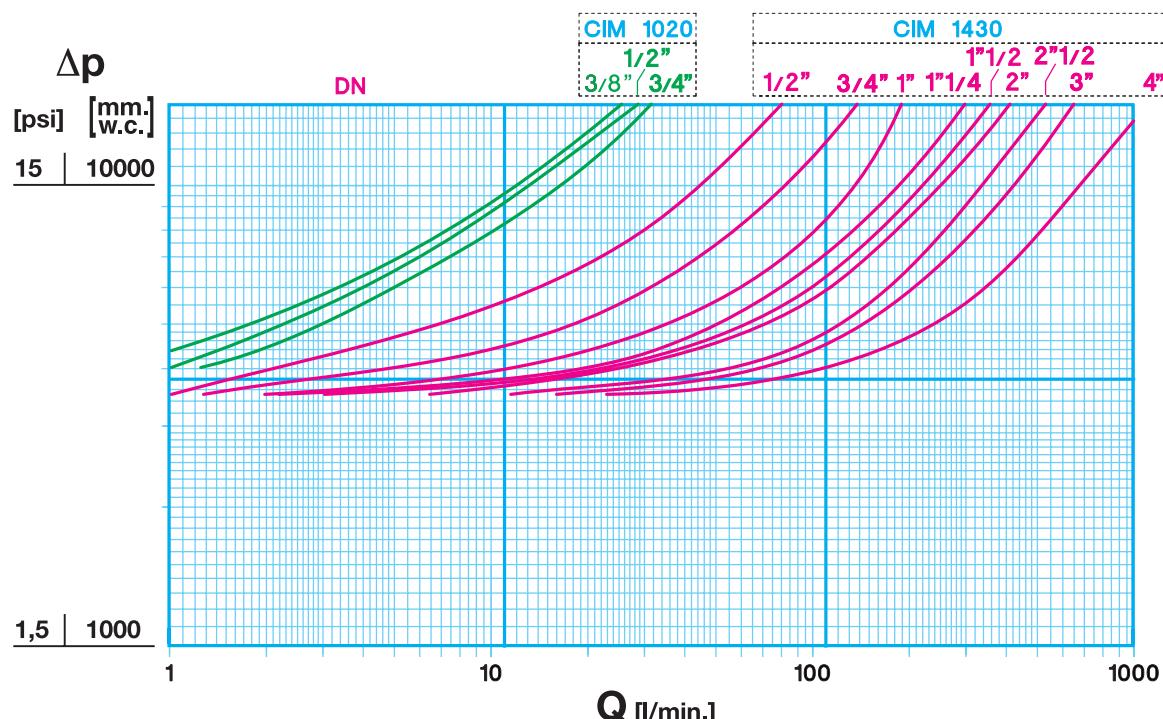
- Upstream maximum pressure:** 25 bar
- Downstream reduced pressure:** from 0,5 until 6 bar
- Max. working temperature:** 80°C
- Threads:** ISO 228/1
- Tested according to:** DIN EN 1567
- Use:** Water - Compressed air

MATERIALS

- Body material:** EN 12165 - CW617N
- Other comp. material:** EN 12164 - CW617N
- Tightening seat** Stainless steel AISI 303
- O-rings:** NBR 70 sh
- Joints:** Fasit Italy
- Plastic parts:** Acetalic resin

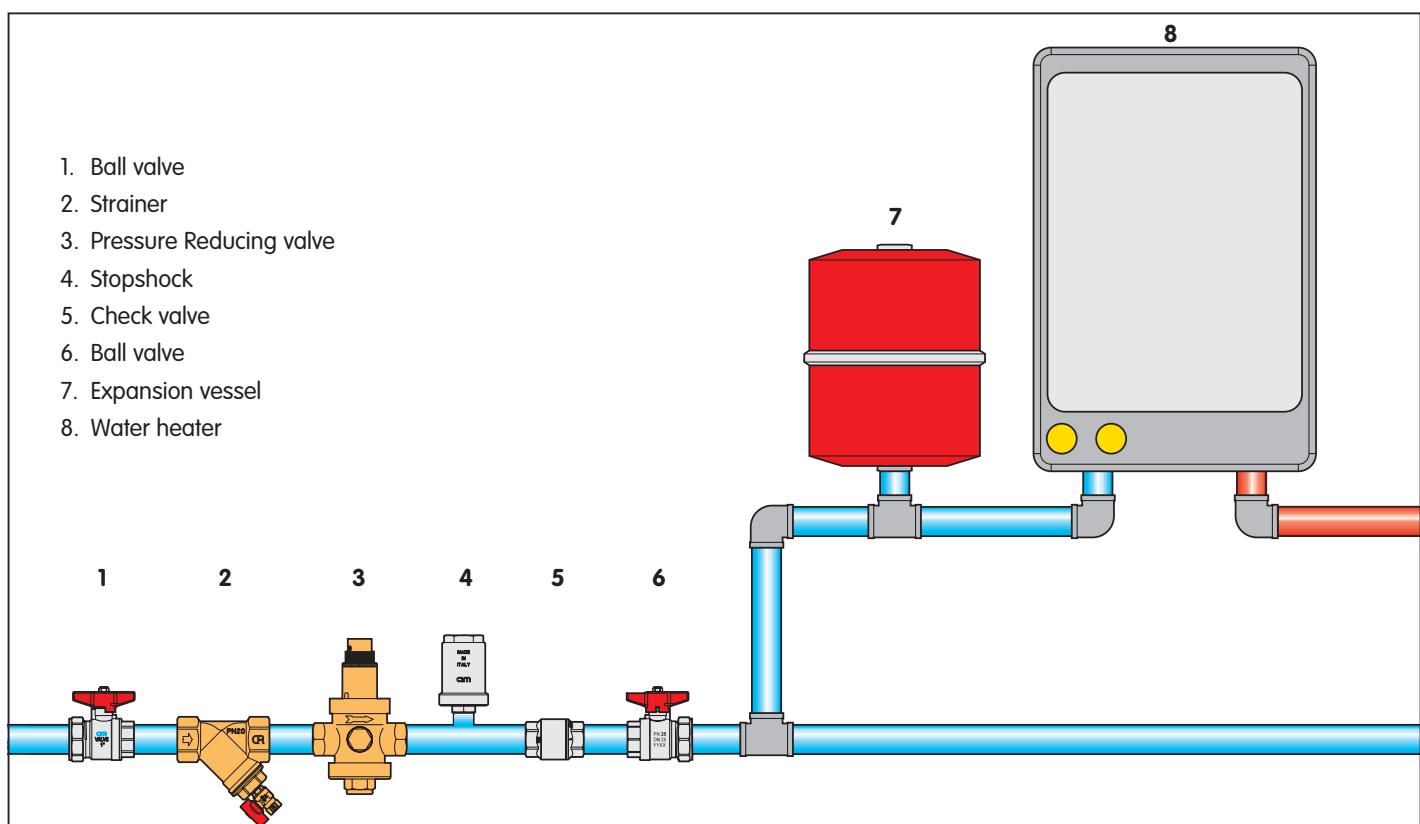
Guaranteed reduction ratio
Series Cim 1430: 10:1 - Series Cim 1020: 5:1

FLOW AND PRESSURE DROP

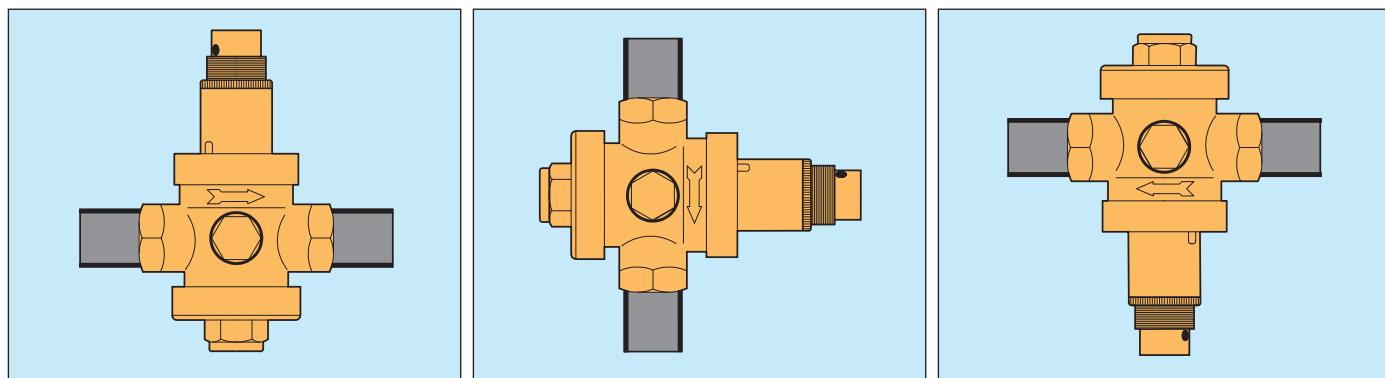


Pressure reducer

1. Ball valve
2. Strainer
3. Pressure Reducing valve
4. Stopshock
5. Check valve
6. Ball valve
7. Expansion vessel
8. Water heater



An installation fixed according the above scheme avoids almost completely all problems which may occur in a modern water system.



Scheme for pressure reducers installation:

How to adjust pressure:

All Cimberio pressure reducers are tested before being packaged; during test they are pre-set at outlet pressure of 3 bar; the outlet pressure can be modified easily when the pressure reducer is connected to the plant. To modify outlet pressure you simply need to loose the fixing ring and turn the spring holder as shown in the pictures here below; clockwise turn increases outlet pressure, anti-clockwise turn reduces outlet pressure. A right setting should be made when the system is closed.

