

valve
cimberio[®]
technological solutions



Balancing valves range



Cim 747 Fixed orifice balancing valve

Cim 747 balancing valves perfectly combine a regulating valve and a flow measuring device in a one-piece body. This solution, ensures high accuracy flow balancing across all valve settings.

Cim 747 balancing valves are suitable for both heating (LPHW) and cooling applications at working pressures up to 16 bar.

The main features of **Cim 747** balancing valves are as follows:

- An orifice type flow measurement system permitting high accuracy flow measurement to within $\pm 5\%$ regardless of valve setting.
- A metal to metal thread locking mechanism so that valve settings can be accurately locked enabling the valve to be closed and re-opened to its exact pre-set position.
- Allen key locking of valve positions.
- A valve position indicator scale which can be read from any angle.
- An EPDM lined valve plug providing tight shut-off for isolation purposes.
- Pressure Class: PN16. Temperature: $-10^{\circ}\text{C} \div 120^{\circ}\text{C}$

cim747



Cim 787 Variable orifice balancing valve

Cim 787 balancing valves are suitable for both heating (LPHW) and cooling applications at working pressures up to 20 bar.

Are available in DZR brass (**Cim 787**) or in standard brass (**Cim 7870T**).

The main features of **Cim 787** balancing valves are as follows:

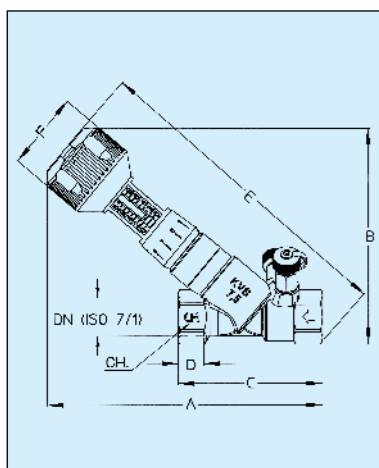
- A thread locking mechanism so that valve settings can be accurately locked enabling the valve to be closed and re-opened to its exact pre-set position.
- Allen key locking of valve positions.
- A valve position indicator scale which can be read from any angle.
- An EPDM lined valve plug providing tight shut-off for isolation purposes.
- Pressure Class: PN20. Temperature: $-10^{\circ}\text{C} \div 120^{\circ}\text{C}$

cim787



cim 747

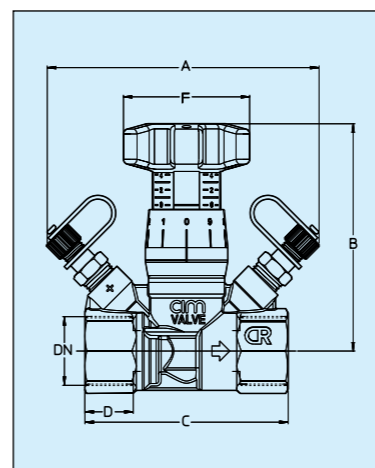
FIXED ORIFICE BALANCING VALVE



		Cim 747							
DN	Grms.	A	B	C	D	E	F	CH	Kvs
1/2	680	161	125	85	15	184,5	52	28	1,8
3/4	930	185	145,5	97	16,3	215,5	52	33	4,1
1"	1130	186	158,5	113	19,1	224	52	40	7,5
1 1/4"	1655	207	168,5	144	21,4	245,5	52	51	16,6
1 1/2"	2465	259,5	212	163	21,4	309	58	56	23,0
2"	3725	281	230	193	25,7	337,5	58	71	47,4

cim 787

VARIABLE ORIFICE BALANCING VALVE



		Cim 787							
DN	Grms.	A	B	C	D	F	Kvs		
1/2	380	106	87,5	75	16	50	1,7		
3/4	440	107	89,5	80	19	50	2,9		
1"	535	107	91,5	87	21	50	4,1		
1 1/4"	960	123	99	108	22,5	50	6,7		
1 1/2"	1120	128	99	115	23	50	10,4		
2"	1350	132	100	124	26,5	50	15,1		

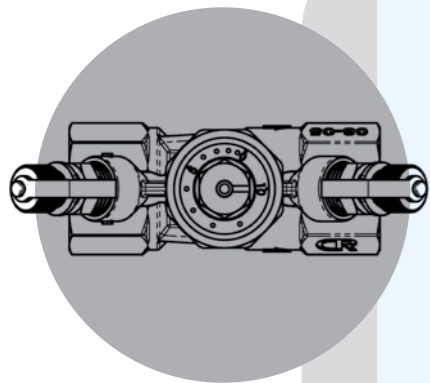


Cim 788 Pre-setting regulating valve

Cim 788 balancing valves are suitable for both heating and cooling applications. Are available in DZR brass (**Cim 788**) or in standard brass (**Cim 788OT**).

The main features of **Cim 788** pre-setting regulating valve are as follow:

- Screw driver adjustable pre-setting.
- 11 positions flow pre-setting.
- Plastic cap enabling the valve to be closed and opened to pre-setted Kv value.
- Designed to be upgraded with thermoelectric actuator (**Cim 788NC, NO, PRO**).
- An EPDM lined valve plug providing tight shut-off for isolation purposes.
- Pressure Class: PN20. Temperature: -10°C ÷ 120°C.

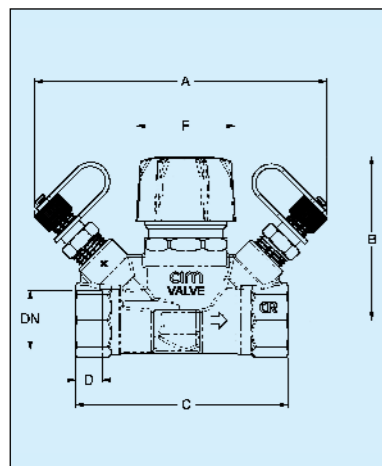


cim788

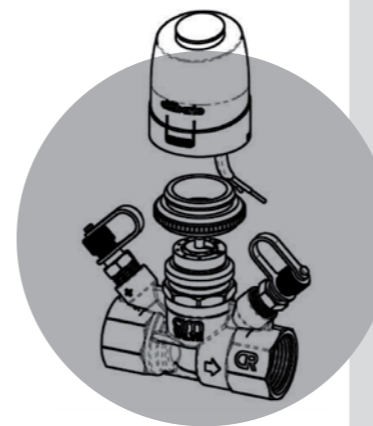


cim 788

PRE-SETTING REGULATING VALVE



Cim 788							
DN	Grms.	A	B	C	D	D	Kvs
1/2	350	106	58	75	16	16	0,35 ÷ 1,70
3/4	408	107	60	80	19	19	0,35 ÷ 3,00
1"	504	107	62	87	21	21	0,35 ÷ 3,50
1 1/4"	-	-	-	-	-	-	-
1 1/2"	-	-	-	-	-	-	-
2"	-	-	-	-	-	-	-



cim788NC
cim788NO
cim788NC24
cim788NO24
cim788PRO



Cim 788NC - 788NO - 788NC24 - 788NO24

Thermoelectric actuator for opening and closing valves on heating circuit distributors on floor heating systems.

Cim 788NC	normally closed	220V-50/60Hz
Cim 788NO	normally open	220V-50/60Hz
Cim 788NC24	normally closed	24V-50/60Hz
Cim 788NO24	normally open	24V-50/60Hz

Cim 788NC Cim 788NO	Cim 788NC24 Cim 788NO24	valve adaptor VA80 valve adaptor VA50
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- Compact size, small dimensions
- All around functional indicator
- Snap-on installation
- Low power consumption
- Adaptation check on valve
- 100% protection against leaky valves
- High functional safety and long expected service life
- 360° installation position
- Guaranteed over voltage protection

Operating power:	1,8W
Degree/class of protection:	IP54/II (in all installation position)
Actuator travel:	4,5 mm
Actuating force:	100N±5%
Connecting cable:	2x0,75 mm ² PVC, grey
Cable length:	1000 mm
Housing colour:	grey
Dimension (mm) H/W/L:	54 + 4/44/47

Cim 788PRO - Alpha-Actuator 0-10V Proportional

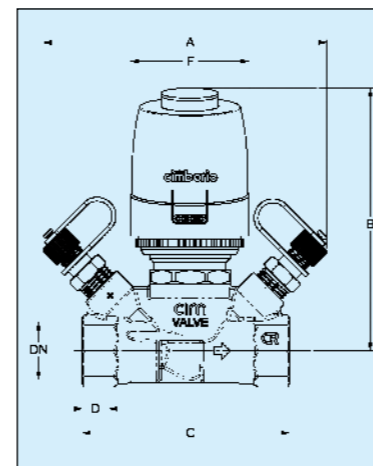
Thermoelectric actuator-normally closed (NC) with internal electronic unit for proportional control of valves used in building management systems.

- Adjustment control
- Function indicator
- 100% protection against leaky valves
- Self-calibrating
- First-Open function
- Snap-on installation
- Proportional actuating travel
- Closing point detection

Operating voltage:	24V, 10% until +20% 50/60 Hz
Control voltage:	0-10 V DC
Input resistance:	100 kOhm
Operating power:	1,8 W
Degree of protection:	IP 54
Stroke:	4,5 mm
Actuating force:	100N ± 5%
Activation current:	<250 mA for max. 2 min.
Average actuating speed:	30 s/mm
Cable (plug-in connector):	3x0,22 mm ²
Cable length:	1000 mm
Housing colour:	White RAL 9003
Dimensions (mm) H/W/L:	60,5 + 4/44/64
Adaptation:	Valve Adaptor VA50

cim 788NC, NO, PRO

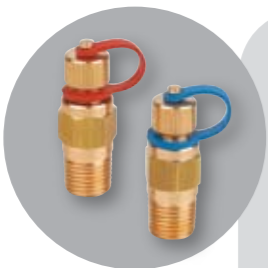
THERMOELECTRIC ACTUATED REGULATING VALVE



Cim 788NC, NC24, NO, NO24, PRO							
DN	Grms.	A	B	C	D	F	Kvs
1/2	446	106	98	75	16	45	0,35 ÷ 1,70
3/4	507	107	100	80	19	45	0,35 ÷ 3,00
1"	592	107	102	87	21	45	0,35 ÷ 3,50
1 1/4"	-	-	-	-	-	-	-
1 1/2"	-	-	-	-	-	-	-
2"	-	-	-	-	-	-	-

cim 723

binder points



cim 728

insulating case for balancing valves



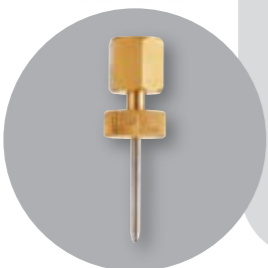
cim 728C

insulating case for balancing valves



cim 729

measuring niddle



cim 721

Cim 721, Cim 3723
Flow measurement device



Cim 721, Cim 3723 an orifice type flow measurement device permitting high accuracy flow measurement to within $\pm 5\%$ regardless of valve setting. A perfect installation of the balancing valves and of flow measurement joint **Cim 721, Cim 3723** must be made in accordance with the distances stated in the drawing, in order to regularize the flow and permit an accurate flow measurement.

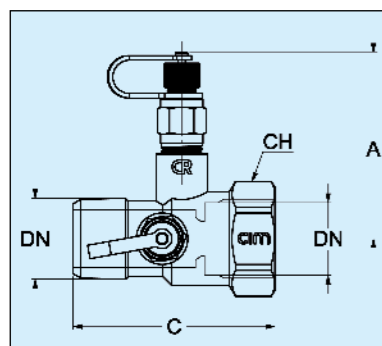
■ Pressure Class: PN16. Temperature: $-10^{\circ}\text{C} \div 120^{\circ}\text{C}$.



cim 3723

cim 721

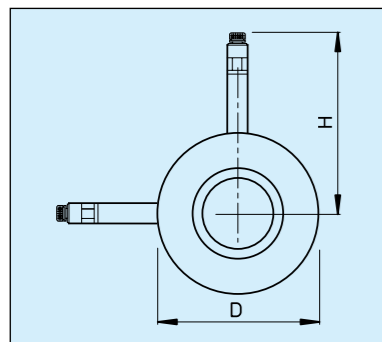
FLOW MEASUREMENT DEVICE



DN	1/2L	1/2M	1/2S	3/4	1"	1 1/4"	1 1/2"	2"
A	58,5	58,5	58,5	61,5	64,5	69,5	72,5	78,5
C	66,5	66,5	66,5	66,5	63,5	71	71	79,5
CH	28	28	28	34	40	51	56	71
Kvs	0,47	0,98	1,8	4,1	7,5	16,6	23,0	47,4

cim 3723

FLOW MEASUREMENT DEVICE



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
Flanges thickness	18	18	18	18	18	18	18	18	18	20	23
Kvs	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 3739



DN 50-150



DN 200-300

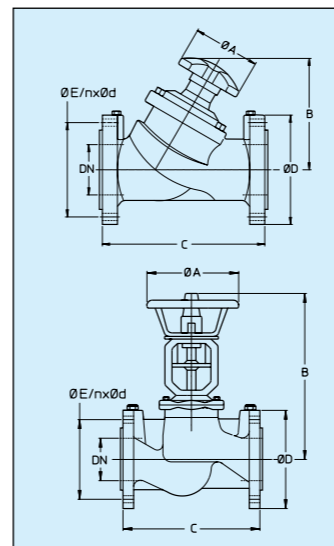
Cim 3739
Variable orifice flanged balancing valve
PN 16 - CAST IRON 4425

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**.

■ Pressure Class: PN16. Temperature: $-10^{\circ}\text{C} \div 120^{\circ}\text{C}$.



cim 3739



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
Kvs	53,8	92,3	121,5	200,0	302,4	398,7	685,6	952,3	1.380,2

PATENT PENDING



cimdronic[®] AC6 cim726

Commissioning Unit

Electronic commissioning to a new level

Now with unique "DSP technology" for sensor protection

Cimdronic 726 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 2500 valves, from 49 world manufacturers, make the **Cimdronic 726** 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 726** 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 standard alkaline PP3 batteries. The **Cimdronic 726** is supplied in a convenient carry case.

Accuracy

The **Cimdronic 726** uses a sensor calibrated to 20 points and protected by "DSP tecnologia" 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.



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