DOUBLE REGULATING BALANCING VALVE

15 - 50MM

All Valve INDUSTRIES

ATS 5200.012
Lic. 000217

MANUAL BALANCING OF HOT WATER FLOW AND RETURN SYSTEMS

FUNCTION AND FEATURES

- High accuracy flow measurement to within ±5% regardless of valve setting
- A valve position indicator scale which can be read from any angle.
- Allen key locking mechanism so that valve settings can be accurately locked enabling the valve to be closed and re-opened to its exact preset position.
- An EPDM lined valve plug providing tight shut-off for isolation purposes.

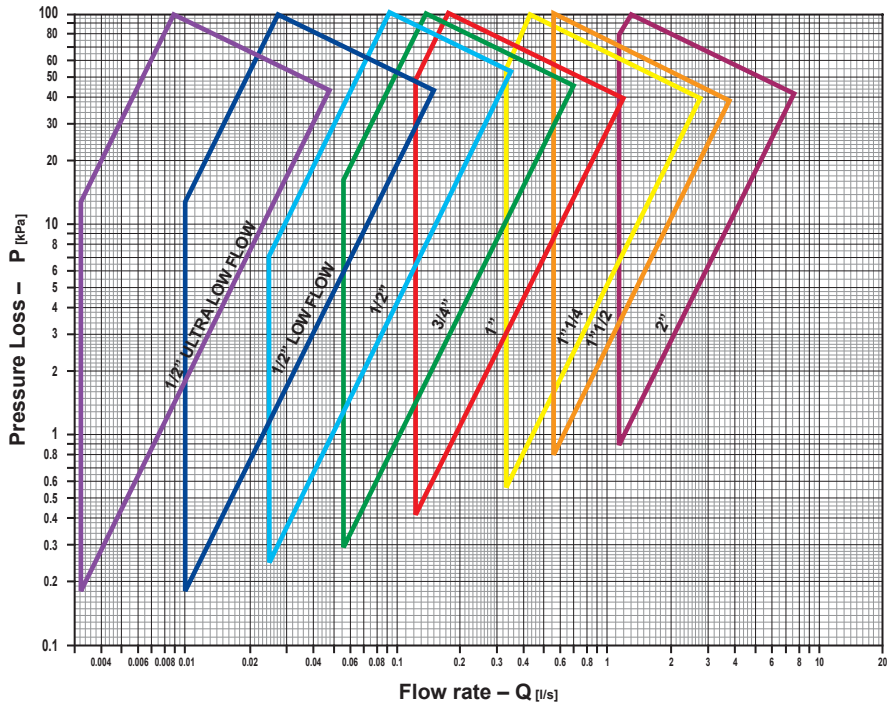
PRODUCT DETAILS

Manual balancing valves are inserted to create a pressure drop so that every branch of the system is circulating at the design flow rates.

Consequences of inaccurate flow regulation in hot water circulation systems will lead to a failure to achieve design temperatures, wasted energy, noise, erosion and blockages, long delays in hot water delivery at fixtures, and increasing the risk of legionella in circuits that do not meet minimum temperatures.

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 domestic hot water flow and return lines, as well as closed loop heating and cooling systems.

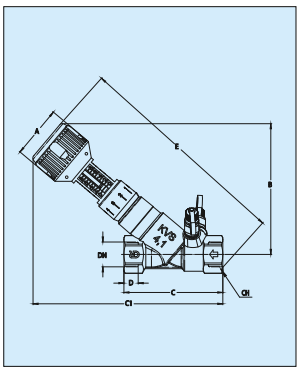
PRESSURE LOSS CHART



SUGGESTED DESIGN FLOW RATES

SIZE	Min l/s @ 1kPa ΔP	Ideal range l/s @ 2-10 kPa ΔP		Max l/s @ 15kPa ΔP
15MM	0.05	**0.07**	**0.15**	0.19
20MM	0.11	**0.15**	**0.34**	0.41
25MM	0.20	**0.28**	**0.62**	0.75
32MM	0.4	**0.6**	**1.4**	1.7
40MM	0.6	**0.8**	**1.8**	2.2
50MM	1.2	**1.8**	**3.8**	4.6

DIAGRAM



	Cim 747									
DN	Grms.	A	B	C	C1	D	E	CH	Kv 747	Kvs 747
1/2"	700	51	111	85	163	16.5	184	28	1.75	1.80
3/4"	980	51	128	97	187	18	215	33	3.77	4.10
1"	1140	51	138	113	188	21	223	44	6,96	7.50
1 1/4"	1660	51	141.5	144	208.5	23	244	51	15.83	16.6
1 1/2"	2500	57	181	163	260	23	308	56	21.05	23
2"	3740	57	190.5	193	281.5	28	337	71	43.9	47.4

VALVE SIZING

Applications are available on the iPhone, Android and for PC for the sizing of manual balancing valves.

Alternatively, contact our technical sales team for assistance in sizing the valves in your system.

PERFORMANCE	
WORKING TEMP RANGE	-10 - 120ºC
MAX WORKING PRESSURE	2,500kPa

*NOTE: SPECIAL LOW & ULTRA LOW FLOW MODELS ARE THE 737 SERIES AND HAVE NOT BEEN WATERMARK APPROVED

COMMISSIONING

Cimdronic manometers are available in two versions; a basic DM10 model designed to read differential pressures on balancing valves, and with a known kV, be able to read the flow rate. The AC6 model 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 726AC6 the first choice meter for commissioning engineers.

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