



PRESSURE INDEPENDENT BALANCING VALVE FLOWCAL™

127 SERIES



FUNCTIONS AND FEATURES

- Suitable for hydronic and domestic hot water applications, constructed of low-lead brass (<0.25% max. weighted average lead content) to meet 2014 Federal Reduction of Lead in Drinking Water Act. Made of dezincification resistant brass (DZR).
- Compact design featuring 16 fixed flow rates for use with 1/2", 3/4" and 1" union end connections and choice of NPT, Sweat and Press fittings for ease of installation and maintenance. Working temperature ranges from 32 to 212°F.
- Automatically controls the design flow rate to each emitter regardless of differential pressure changes.
- Eliminates the need for onsite measurements and trial and error flow rate setting as required with manual calibration valves.
- Incorporates an exclusive flow cartridge, made of an anti-scale, low noise polymer.
- Ideal for applications including open fan coil systems and hot water recirculation balancing.

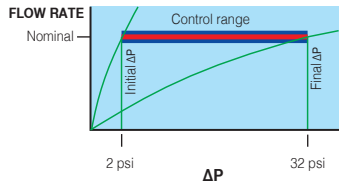
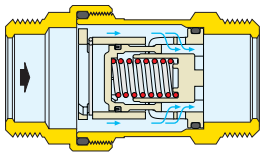
130 SERIES



The FLOWCAL flow cartridge is composed of a cylinder, a spring-loaded piston, and a combination of fixed and variable geometric orifices through which the fluid flows. These variable orifice sizes increase or decrease by the piston movement, contingent on the system's fluid thrust. A specially calibrated spring counteracts this movement to regulate the amount of fluid which may pass through the valve orifices, maintaining a balanced system. FLOWCAL valves are high performance automatic flow balancing valves which control selected flow rates within a tight tolerance (approximately 10%) and offer a wide range of operation.

OPERATION WITHIN THE ΔP CONTROL RANGE

If the differential pressure is within the control range, the spring-loaded piston is positioned to give the fluid a free flow area permitting constant flow at the **nominal rate** for which the FLOWCAL is set up.



TECHNICAL SPECIFICATIONS

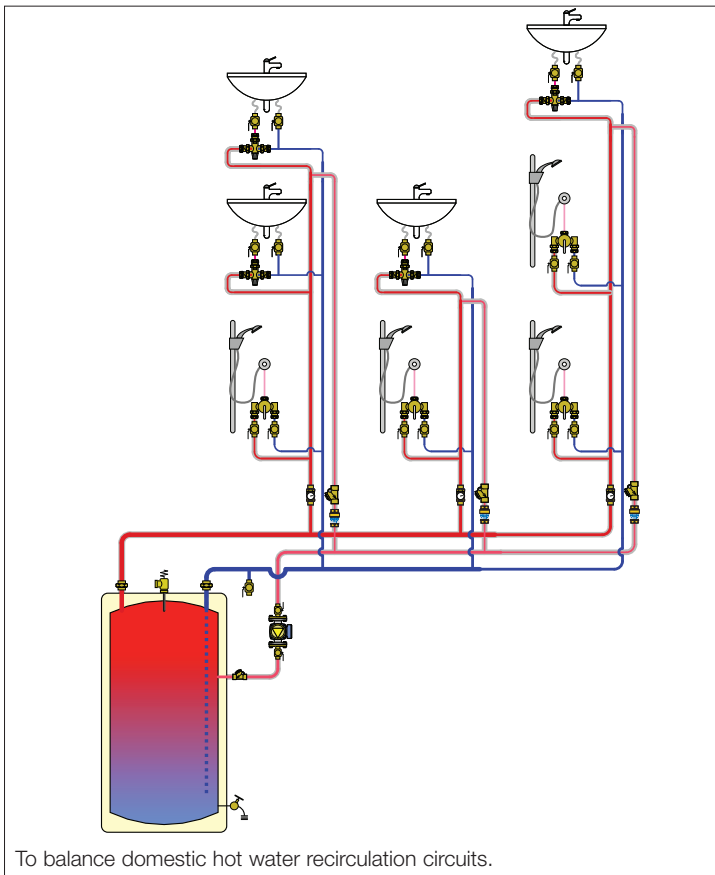
CODE	CONNECTIONS
127341AF...	1/2" NPT Male
127349AFA...	1/2" Sweat
127351AF...	3/4" NPT Male
127359AF...	3/4" Sweat
127356AF...	3/4" Press
127361AF...	1" NPT Male
127369AF...	1" Sweat

Max. working pressure: 232 psi.
 Working temperature range: 32 to 212°F.
 DZR Low-Lead Brass (less than 0.25% lead content certified by IAPMO R&T).

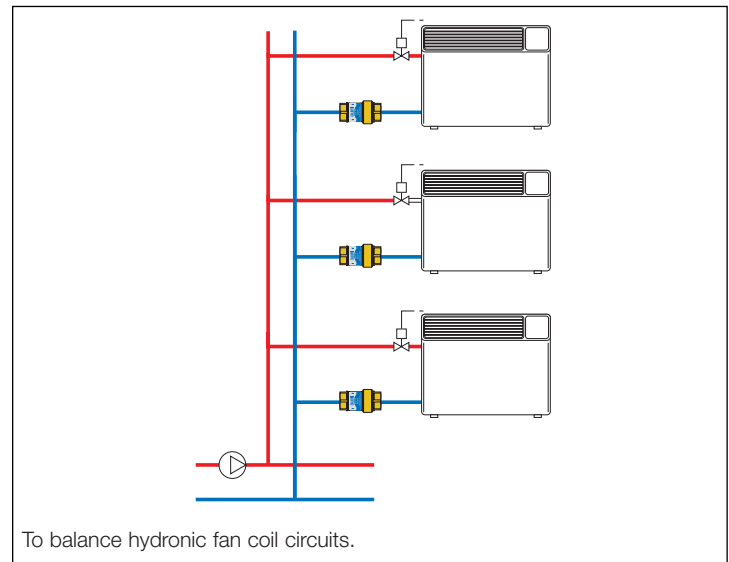
GPM	LAST 3 DIGITS*	ΔP CONTROL RANGE (PSID)	GPM	LAST 3 DIGITS*	ΔP CONTROL RANGE (PSID)
1/2	G50	2 - 14	4	4G0	2 - 32
3/4	G75		4.5	4G5	
1	1G0	2 - 32	5	5G0	4 - 34
1.5	1G5		6	6G0	
2	2G0		7	7G0	
2.5	2G5		8	8G0	
3	3G0		9	9G0	
3.5	3G5		10	10G	5 - 35

*Last three digits of code number.

APPLICATION DIAGRAMS



To balance domestic hot water recirculation circuits.



To balance hydronic fan coil circuits.

REFERENCE DOCUMENTATION: TECHNICAL BROCHURE 01166



03580-14NA