



FlowCal™ compact dynamic automatic flow balancing valve

127 series

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Application

The FlowCal™ pressure independent balancing valve maintains a fixed flow rate within varying system differential pressure ranges. The design incorporates an exclusive flow cartridge, made of an anti-scale, low noise polymer and a compact DZR low-lead brass valve body for use in hydronic and domestic water systems. The FlowCal™ eliminates the need for on-site measurements and trial and error flow rate setting as required with manual calibration valves. It is ideal for applications including open fan coil systems and hot water recirculation balancing.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi FlowCal™ compact automatic flow balancing valve as manufactured by Caleffi. Each balancing valve must be designed with an inline body style with 1/2", 3/4", or 1" union sweat, NPT male threaded, press, PEX crimp and PEX expansion end connections. The design must include a DZR low-lead brass body and connections (<0.25% Lead content) certified by ICC-ES, high abrasion resistant, anti-scale, low noise, interchangeable polymer flow cartridge, stainless steel spring, and peroxide-cured EPDM seals. Each valve must be designed for fixed flow rates ranging from 0.35 to 10 gpm with ±10% accuracy, 232 psi (16 bar) maximum working pressure and working temperature range of 32 to 212°F (0 to 100°C). Each balancing valve shall be a Caleffi model 127 or approved equal.

Technical Data

Materials Valve

Body: DZR low-lead brass
Flow cartridge: anti-scale polymer
Spring: stainless steel
Seals: peroxide-cured EPDM



Complies with NSF/ANSI 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction of Lead in Drinking Water Act, as certified by ICC-ES, file PMG-1360.

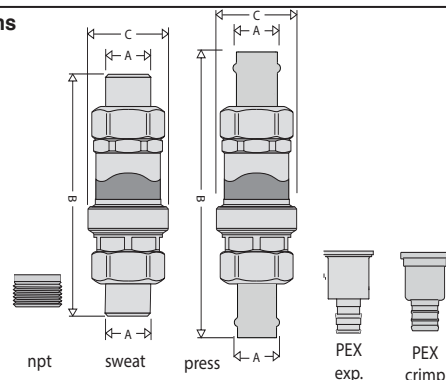
Performance

Suitable Fluids: water, glycol solutions
Max. percentage of glycol: 50%
Max. working pressure: 232 psi (16 bar)
Working temperature range: 32 - 212°F (0-100°C)
Flow rate: 21 fixed flow settings ranging from 0.35 - 10 gpm
Flow accuracy: ±10%
Differential pressure control ranges: 2-14, 2-32, 4-34, 5-35 psid
Control stem adjustment wrench: 9 mm
Connections: 1/2", 3/4", 1" union sweat, NPT male, press, PEX crimp or PEX expansion

Lay length (press connection): size 1/2 and 3/4 inch: 3 5/8" size 1 inch: 4 1/16"

PEX crimp fittings certified to ASTM F 1807.5.
PEX expansion fittings certified to ASTM F 1960.

Dimensions



Code*	A	B	C	Weight (lb)
127341AF..	1/2" npt male	5 13/16"	1 9/16"	1.0
127349AF..	1/2" sweat	4 1/4"		0.8
127346AF..	1/2" press	5 1/8"		1.0
127342AF..	1/2" PEX expansion	6 3/8"		1.0
127344AF..	1/2" PEX crimp	6 1/4"		1.0
127351AF..	3/4" npt male	5"		1.0
127359AF..	3/4" sweat	4 13/16"		0.8
127356AF..	3/4" press	5 5/8"		1.0
127352AF..	3/4" PEX expansion	7 1/16"		1.0
127354AF..	3/4" PEX crimp	6 5/16"		1.0
127361AF..	1" npt male	5 5/8"		1.2
127369AF..	1" sweat	6"		1.0
127366AF..	1" press	5 13/16"	1 3/8"	1.3
127362AF..	1" PEX expansion	7 3/8"		1.3
127364AF..	1" PEX crimp	6 3/8"		1.3

Flow rate (GPM)	Last 3 digits *(AF__)	ΔP control ranges (psid)	Flow rate (GPM)	Last 3 digits *(AF__)	ΔP control ranges (psid)
0.35	G35	2 - 14	2.60	2G6	2 - 32
0.50	G50		3.00	3G0	
0.75	G75		3.50	3G5	
1.00	1G0	2 - 32	4.00	4G0	
1.30	1G3		4.50	4G	
1.50	1G5		5.00	5G0	
1.75	1G7		6.00	6G0	4 - 34
2.00	2G0		7.00	7G0	
2.20	2G2		8.00	8G0	
2.50	2G5		9.00	9G0	5 - 35
			10.00	10G	

All fittings are union style.

We reserve the right to change our products and their relevant technical data, contained in this publication, at any time and without prior notice. Contractors should request production drawings if prefabricating the system

Job name _____
Job location _____
Engineer _____
Mechanical contractor _____
Contractor's P.O. No. _____
Representative _____

Size _____
Quantity _____
Approval _____
Service _____
Tag No. _____
Notes _____