FlowCal[™] low-lead Y-body dynamic flow balancing valve

128AF series

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Application

The FlowCal[™] 128 series Y-body dynamic flow balancing valve is pressure independent and maintains a fixed flow rate as differential pressures vary. It incorporates an exclusive flow cartridge, made of an anti-scale, low noise polymer. Constructed of DZR low-lead brass, the FlowCal 128 series is ideally suited for use in plumbing applications such as hot water recirculation systems. It also includes factory-installed PT ports to verify and certify flow rates where required. In addition, available separately, field-install Caleffi code 290030 full-port ball valve for isolation. The FlowCal can also be used in hydronic systems.

Typical Specification

Furnish and install on the plans and described herein, a Caleffi FlowCal low-lead Y-body dynamic automatic flow balancing valve as manufactured by Caleffi. Each balancing valve must be designed with a y-body style including 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 drain plug, with 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. Provided with two pressure/temperature test ports, Caleffi code 100001A. Provide with optional inlet and outlet isolation ball valves, code 290030, separately sourced, field installed. Each valve must be designed for fixed flow rates ranging from 0.35 to 10 gpm with $\pm 10\%$ accuracy, 400 psi (28 bar) maximum working pressure and working temperature range of 32 to 212°F (O to 100°C). Each balancing valve shall be a Caleffi model 128AF or approved equal.

(See product instructions for specific installation information.)

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Technical Data

Materials

Valve Body and drain plug: Flow cartridge: Spring: Seals:

DZR low-lead brass anti-scale polymer stainless steel peroxide-cured EPDM

NSF/ANSI/CAN 372, Drinking Water System Components-Lead Content Reduction of Lead in Drinking Water Act, California Health and Safety Code 116875 S.3874, Reduction in Drinking Water Act, certified by ICC-ES, file PMG-1360. PEX crimp fittings certified to ASTM F 1807. PEX expansion fittings certified to ASTM F 1960. US Patent: 7,246,635 B2.

Performance

Suitable Fluids:	water, glycol solutions
Max. percentage of glycol:	50%
Max. working pressure:	400 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
Connections:	
1/2", 3/4", 1" union sweat.	NPT male, press, PEX crimp

1/2", 3/4", 1" union sweat, NPT male, press, PEX crimp or PEX expansion



Flow rate (GPM)	Last 3 digits (AFC)	∆P control ranges (psid)	Flow rate (GPM)	Last 3 digits (AFC)	∆P control ranges (psid)
0.35	G35		2.60	2G6	
0.50	G50	2 - 14	3.00	3G0	
0.75	G75		3.50	3G5	0 00
1.00	1G0		4.00	4G0	2 - 32
1.30	1G3		4.50	4G	
1.50	1G5		5.00	5G0	
1.75	1G7	2 - 32	6.00	6G0	
2.00	2G0		7.00	7G0	4 - 34
2.20	2G2		8.00	8G0	
2.50	2G5		9.00	9G0	5 25
			10.00	10G	0-30

Dimensions



Code	A (union connections)	в	с	D	Wt (lb/kg)
128541AF	1/2" NPT male	6-11/16"			2.0/0.9
128542AF	1/2" PEX expansion	8-13/16"			2.0/0.9
128544AF	1/2" PEX crimp	7-13/16"	1		2.0/0.9
128546AF	1/2" press*	6-9/16"	1		2.0/0.9
128549AF	1/2" sweat	5-15/16"]		1.8/0.8
128551AF	3/4" NPT male	6-1/2"]		2.1/0.95
128552AF	3/4" PEX expansion	8-13/16"	2"	2-13/16"	2.1/0.95
128554AF	3/4" PEX crimp	7-13/16"			2.1/0.95
128556AF	3/4" press*	7-5/16"	1		2.1/0.95
128559AF	3/4" sweat	6-7/16"]		2.0/0.9
128561AF	1" NPT male	7-3/16"]		2.2/1.0
128562AF	1" PEX expansion	8-13/16"			2.2/1.0
128564AF	1" PEX crimp	8"			2.2/1.0
128566AF	1" press*	7-1/4"]		2.2/1.0
128569AF	1" sweat	7-3/16"			2.2/1.0

*Lay length for press models

Size	128xxxAF
1/2 inch	5"
3/4 inch	5-7/16"
1 inch	5-7/16"

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	Size	
Job location	Quantity	
Engineer	Approval	
Mechanical contractor	Service	
Contractor's P.O. No.	Tag No	
Representative	Notes	

Caleffi North America, Inc. 3883 West Milaukee Road / Milwaukee, WI 53208 Tel: 414.238.2360 / Fax: 414.238.2366 / www.caleffi.com ©Copyright 2022 Caleffi