QuickSetter™ Balancing Valve With Flow Meter

132 Series

Submittal Data 02934 NA — Issue Date 10/2011

Application

The 132 series balancing valve accurately sets the flow rate of heating and cooling transfer fluid supplied to fan coils and terminal units or where flow balancing is required in solar thermal systems. Proper hydronic system balancing ensures that the system operates according to design specifications, providing satisfactory thermal comfort with low energy consumption. The flow meter is housed in a bypass circuit on the valve body and can be shut off during normal operation. The flow meter permits fast and easy circuit balancing without added differential pressure gauges and reference charts. The balancing valve is furnished with a preformed insulation shell to optimize thermal performance for both hot and cold water systems.

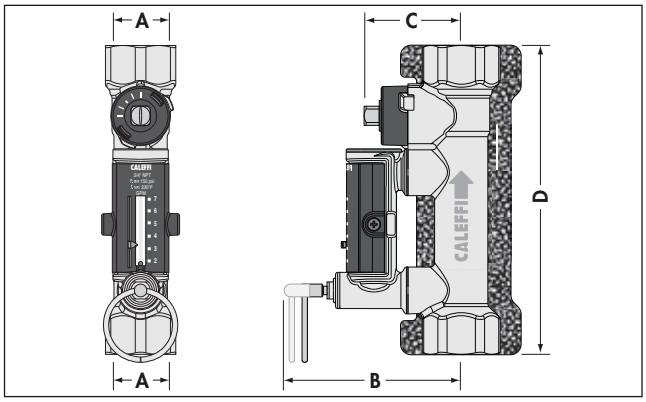
Typical Specification

Furnish and install on the plans and describing herein, a Caleffi balancing valve with flow meter, as manufactured by Caleffi. Each balancing valve must be designed with a brass body, ball control stem, flow meter body, headwork, and shutoff control stem, chrome-plated; EPDM seals and pre-formed shell insulation in expanded closed cell PE-X. The balancing valve must include NPT female threaded connections for 3/4", 1", 1-1/4", 1-1/2", 2" sizes. Each valve has 150 psi (10 bar) maximum working pressure and 14 - 230°F (-10 – 110°C) working temperature range, and ± 10% measurement accuracy. Each valve shall be Caleffi model 132 or approved equal. (See product instructions for specific installation information.)

Technical Data

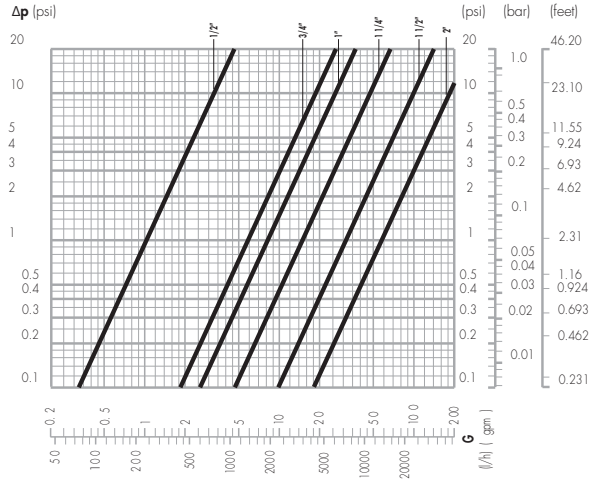
Valve materials:	
- Body and ball:	brass
- Ball control stem:	chrome plated brass
- Ball seal seat:	PTFE
- Control stem guide:	PSU
- Seals:	EPDM
Flow meter materials:	
- Body:	brass
- Headwork:	brass EN 12164 CW614N
- Bypass valve stem:	brass, chrome plated
- Springs:	stainless steel
- Flow meter float and indicator cover:	PSU
Performance:	Suitable fluids: water, gylcol solutions
- Max. percentage of glycol:	50%
- Max. working pressure:	150 psi (10 bar)
- Working temperature range:	14–230°F (10 –110°C)
- Flow rate range unit of measurement:	gpm
- Accuracy:	±10%
- Control stem angle of rotation:	90°
- Required operating wrench:	1/2" - 1-1/4" (9 mm) 1-1/2" - 2" (12 mm)
Threaded connections:	1/2" - 2" FNPT
Insulation material:	closed cell expanded PE-X
- Thickness:	25/64" (10 mm)
- Density, inner part:	1.9 lb/ft^3 (30 kg/m^3)
- Density, outer part:	3.1 lb/ft^3 (50 kg/m^3)
- Thermal conductivity (DIN 52612):	
	-at 32°F (0° C): 0.263 BTU·in/hr·ft^2·0°F (0.038 W/ (m-K)
	-at 104°F (40° C): 0.312 BTU·in/hr·ft^2·0°F (0.045 W/ (m-K)
- Coefficient of resistance to water vapor (DIN 52615):	>1,300
- Working temperature range:	32 - 212°F (0 -100°C)
- Reaction to fire (DIN 4102):	class B2

Dimensions



Code	A	B- in	B- mm	C- in	C- mm	D- in	D- mm	Weight (lb)	Weight (kg)
132432A	1/2"	3-5/16	83.5	1-13/16	45.5	5-3/4"	145	2.0	0.9
132552A	3/4"	3-5/16	83.5	1-13/16	45.5	5-3/4"	145	1.8	0.81
132662A	1"	3-3/8	85	1-7/8"	47	6-1/4"	158	2.4	1.08
132772A	1-1/4"	3-1/2	88	2"	50	6-1/2"	163.5	2.8	1.3
132882A	1-1/2"	3-5/8	91	2-1/4"	56.5	6-3/4"	171	3.4	1.5
132992A	2"	3-3/4	95	2-1/2"	63	7"	178	4.4	2.0

Hydraulic characteristics at 100% open



NOTE: Flow rate correction factor: 20%-30% glycol solutions: 0.9
40%-50% glycol solutions: 0.8

Code	Connection	Flow rate (GPM)	Cv
132432A	1/2" NPT	1/2 – 1 3/4	1.0
132552A	3/4" NPT	2.0 – 7.0	6.3
132662A	1" NPT	3.0 – 10.0	8.3
132772A	1 1/4" NPT	5.0 – 19.0	15.2
132882A	1 1/2" NPT	8.0 – 32,0	32.3
132992A	2" NPT	12.0 – 50,0	53.7

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

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