

QuickSetter™

Balancing valve with flow meter

132 series



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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 132 series QuickSetter is furnished with a hot pre-formed insulation shell to optimize thermal performance for both hot and cold water systems.

Caleffi NA108 series full-port FNPT x FNPT ball valves are available for isolation, separately purchased with close nipples for field installation on NPT female QuickSetter models.

Typical Specification

Furnish and install on the plans and describing herein, a QuickSetter™ 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; peroxide-cured EPDM seals and pre-formed shell insulation in expanded closed cell PE-X. The balancing valve must include NPT female threaded or integral press connections for 1/2", 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. Provide with optional inlet and outlet low-lead brass full-port ball valves, NPT female x NPT female, for isolation, separately-sourced, Code NA108 series, with separately-sourced low-lead close nipples. Each valve shall be Caleffi model 132 or approved equal. (See product instructions for specific installation information.)

Technical Data

Materials: Valve

- body:	brass
- ball:	brass
- ball control stem:	brass, chrome-plated
- ball seal seat:	PTFE
- control stem guide:	PSU
- seals:	peroxide-cured EPDM

Flow meter

- body:	brass
- bypass valve stem:	brass, chrome-plated
- springs:	stainless steel
- seals:	peroxide-cured EPDM
- flow meter float and indicator cover:	PSU

Performance:

Suitable fluids:	water, glycol solution
Max percentage of glycol:	50%
Max working pressure:	150 psi (10 bar)
Temperature range:	14 - 230 °F (-10 - 110 °C)
Particle separation capacity:	to 5 µm (0.2 mil)
Flow rate range unit of measurement:	gpm
Accuracy:	±10%
Control stem angle of rotation:	90°
Control stem adjustment wrench:	1/2" - 1 1/4": 9 mm 1 1/2" - 2": 12 mm
Flow rate correction factor:	20% - 30% glycol solutions: 0.9 40% - 50% glycol solutions: 0.8

Connections:

1/2" - 2": NPT female
1/2" - 2": integral press

Flow rate ranges

Code	Connection FNPT & press	Flow rate (GPM)	Full open Cv
132432A	1/2"	1/2 - 1 3/4	1.0
132552A	3/4"	2.0 - 7.0	6.3
132662A	1"	3.0 - 10.0	8.3
132772A	1 1/4"	5.0 - 19.0	15.2
132882A	1 1/2"	8.0 - 32.0	32.3
132992A	2"	12.0 - 50.0	53.7

Insulation

Material:	closed cell expanded PE-X
Thickness:	25/64 inch (10 mm)
Density:	- inner part: 1.9 lb/ft³ (30 kg/m³) - outer part: 3.1 lb/ft³ (50 kg/m³)

Thermal conductivity (DIN 52612):

- at 32 °F (0 °C):	0.263 BTU·in/hr·ft²·°F (0.038 W/(m·K))
- at 104 °F (40 °C):	0.312 BTU·in/hr·ft²·°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

Technical specifications of ball valve, code NA108 series

Materials

Body and end connection:	high tensile strength forged low-lead brass C28500
Ball and stem:	low-lead brass C28500
Stem nut:	steel (CL04)
Seats (2):	PTFE
90° stop:	hot rolled steel (DD11)
O-ring stem seals (2):	nitrile butadiene rubber (NBR) & fluoro-elastomer (FKM)
Thrust washer and packing ring:	PTFE
Black T-handle:	polyamide thermal plastic (PA6.6)
Handle top cap:	acrylonitrile butadiene styrene (ABS)

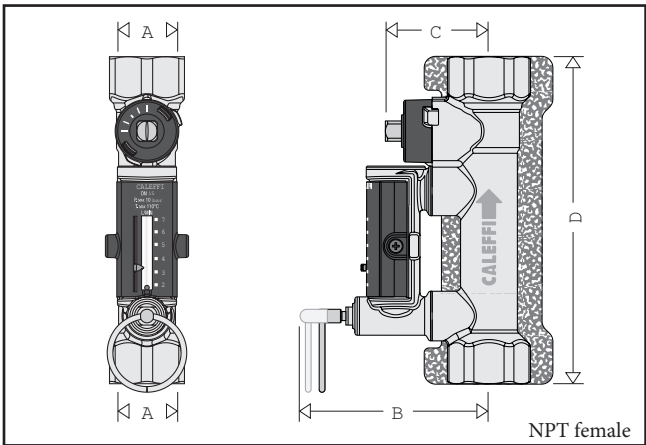
Performance

Suitable Fluids:	water, glycol solutions
Max. percentage of glycol:	50%
Pressure rating:	600 WOG-150WSP
Working temperature range:	-4 - 366 °F (-20 - 186 °C)
Shutoff performance:	bubble tight

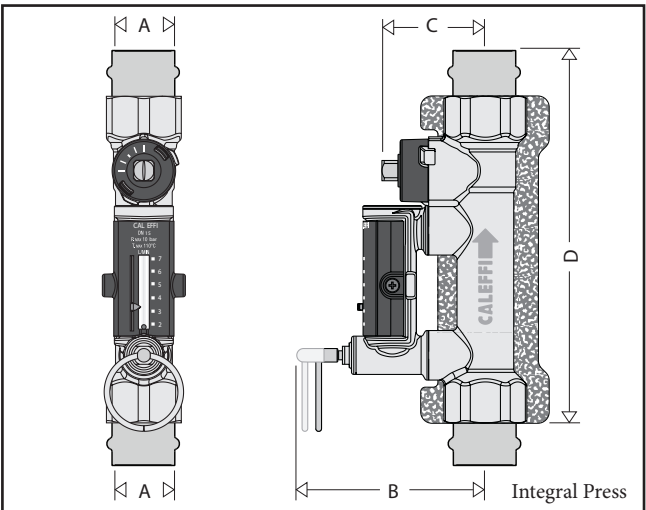
Connections:

Main connections:	1/2", 3/4", 1", 1-1/4", 1-1/2" & 2" NPT female inlet and outlet
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Dimensions



Code	A	B	C	D	Wt (lb/kg)
132432A	½"	3 5/16"	1 13/16"	5 ¾"	2.0/0.9
132552A	¾"	3 5/16"	1 13/16"	5 ¾"	1.8/0.8
132662A	1"	3 3/8"	1 7/8"	6 ¼"	2.4/1.1
132772A	1¼"	3 ½"	2"	6 ½"	2.8/1.3
132882A	1½"	3 5/8"	2 ¼"	6 ¾"	3.4/1.5
132992A	2"	3 ¾"	2 ½"	7"	4.4/2.0



Code	A	B	C	D	Lay Length	Wt (lb/kg)
132436A	½"	3	1 13/16"	8"	6 ¼"	2.2/1.0
132556A	¾"	3	1 13/16"	8"	6"	2.0/0.9
132666A	1"	3 3/8"	1 7/8"	8 ¼"	6 ¼"	2.4/1.1
132776A	1¼"	3 ½"	2"	9"	7"	2.8/1.3
132886A	1½"	3 5/8"	2 ¼"	10"	7"	3.4/1.5
132996A	2"	3 ¾"	2 ½"	10 5/8"	7 3/8"	4.4/2.0

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 _____