# 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 threaded version 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 intergral 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: | ½" - 1¼": 9 mm<br>1½" - 2": 12 mm |
| Flow rate correction factor: | 20% - 30% glycol solutions: 0.9<br>40% - 50% glycol solutions: 0.8 |

**Connections:**

½" - 2": NPT female
½" - 2": integral press

**Flow rate ranges**

| Code | Connection | Flow rate (GPM) | Full open Cv |
|---|---|---|---|
| **132**432A | ½" NPT | ½ – 1¾ | 1.0 |
| **132**552A | ¾" NPT | 2.0 – 7.0 | 6.3 |
| **132**662A | 1" NPT | 3.0 – 10.0 | 8.3 |
| **132**772A | 1¼" NPT | 5.0 – 19.0 | 15.2 |
| **132**882A | 1½" NPT | 8.0 – 32.0 | 32.3 |
| **132**992A | 2" NPT | 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)<br>- 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**

**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) |

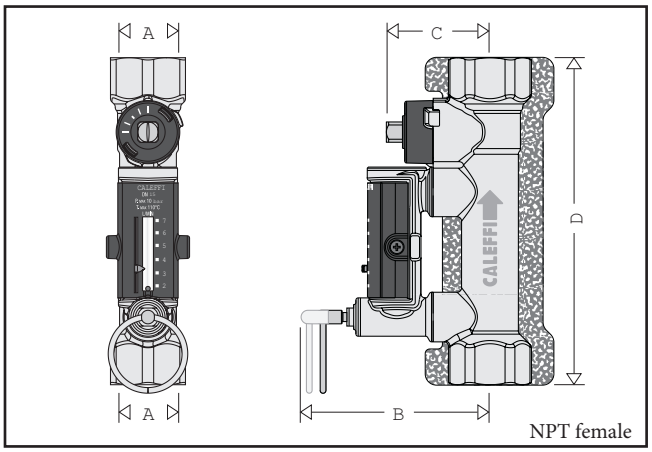
**Performance**

| | |
|---|---|
| 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:**

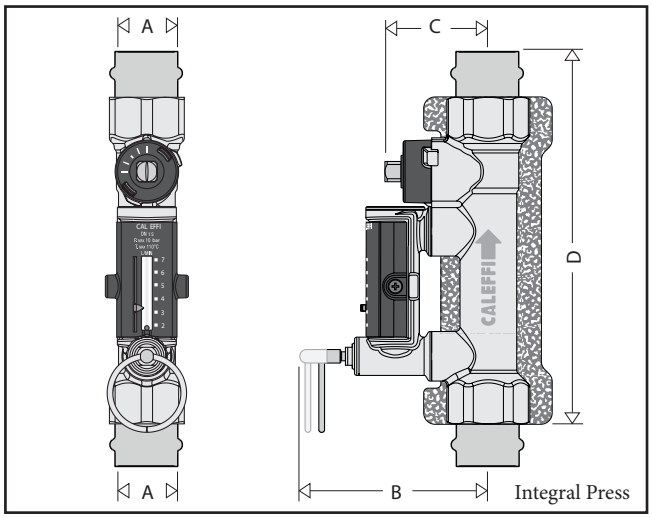
Main connections: 1/2", 3/4", 1", 1-1/4", 1-1/2" & 2" NPT female inlet and outlet

**Dimensions**



NPT female

| Code | A | B | C | D | Wt (lb/kg) |
|---|---|---|---|---|---|
| **132**432A | ½" | 3 5/16" | 1 13/16" | 5 ¾" | 2.0/0.9 |
| **132**552A | ¾" | 3 5/16" | 1 13/16" | 5 ¾" | 1.8/0.8 |
| **132**662A | 1" | 3 3/8" | 1 7/8" | 6 ¼" | 2.4/1.1 |
| **132**772A | 1¼" | 3 ½" | 2" | 6 ½" | 2.8/1.3 |
| **132**882A | 1½" | 3 5/8" | 2 ¼" | 6 ¾" | 3.4/1.5 |
| **132**992A | 2" | 3 ¾" | 2 ½" | 7" | 4.4/2.0 |



Integral Press

| Code | A | B | C | D | Lay Length | Wt (lb/kg) |
|---|---|---|---|---|---|---|
| **132**436A | ½" | 3 | 1 13/16" | 8" | 6 ¼" | 2.2/1.0 |
| **132**556A | ¾" | 3 | 1 13/16" | 8" | 6" | 2.0/0.9 |
| **132**666A | 1" | 3 3/8" | 1 7/8" | 8 ¼" | 6 ¼" | 2.4/1.1 |
| **132**776A | 1¼" | 3 ½" | 2" | 9" | 7" | 2.8/1.3 |
| **132**886A | 1½" | 3 5/8" | 2 ¼" | 10" | 7" | 3.4/1.5 |
| **132**996A | 2" | 3 ¾" | 2 ½" | 10 5/8" | 7 3/8" | 4.4/2.0 |



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

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