

# CIRCUIT BALANCING VALVE S1709

## APPLICATIONS

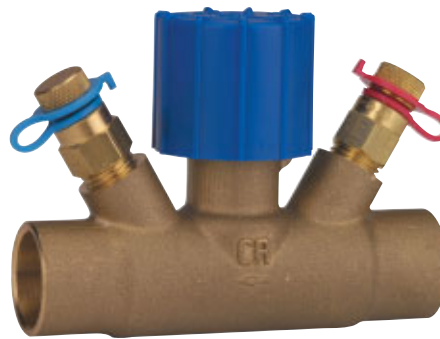
- Globe style balancing •  
Globe style balancing valve for use in HVAC and plumbing systems
- Balanced system ensures a comfortable indoor climate
- Balancing valves provide desired flow distribution throughout the system
- Optimum system performance provides energy and cost efficiencies.

## MATERIALS & CONSTRUCTION

- Dezincification resistant brass body, bonnet and trim
- Two integral test ports
- Memory stop feature

## DESIGN CRITERIA

- ANSI B16.18 (Solder ends)



**S1709**

Unique features of the NIBCO S1709 straight pattern globe gives improved flow measurement accuracy and lower head loss characteristics compared to "Y" pattern globes, ball and plug style balancing valves.

# DZR Brass Circuit Balancing Valves

Straight Pattern Globe • Fitted with 2 Test Points for Differential Pressure Measurement • Integral Memory Stop

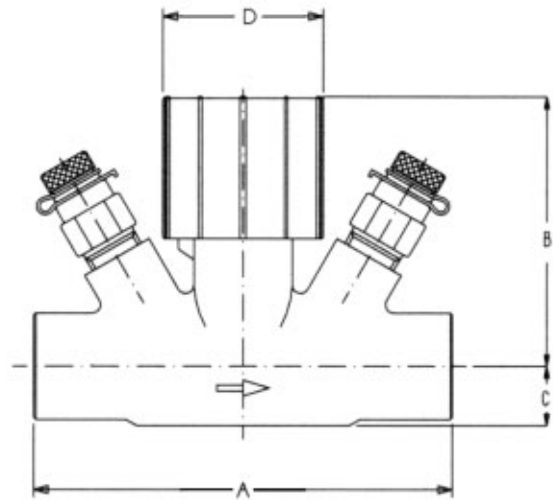
Rated 125 psi to 175°F (max. 250°F at 85 psi)

## Material List

| PART                   | SPECIFICATION |
|------------------------|---------------|
| 1. Body                | DZR Metal     |
| 2. Handwheel           | Polymer       |
| 3. Stem including Disk | DZR Metal     |
| 4. Stem Seals          | EPDM          |
| 5. Stem Retainer       | Brass         |
| 6. Test Point          | Fig. 631      |

## DIMENSIONS — WEIGHTS — QUANTITIES

| Size |    | A    |       | B    |      | C    |      | D    |      | T1709 |     |
|------|----|------|-------|------|------|------|------|------|------|-------|-----|
| in   | mm | in   | mm    | in   | mm   | in   | mm   | in   | mm   | lbs   | kg  |
| 1/2  | 15 | 3.63 | 92.0  | 2.56 | 65.0 | 0.56 | 14.3 | 1.53 | 38.9 | 0.83  | .38 |
| 3/4  | 20 | 4.00 | 101.6 | 2.56 | 65.0 | 0.56 | 14.3 | 1.53 | 38.9 | 0.88  | .40 |

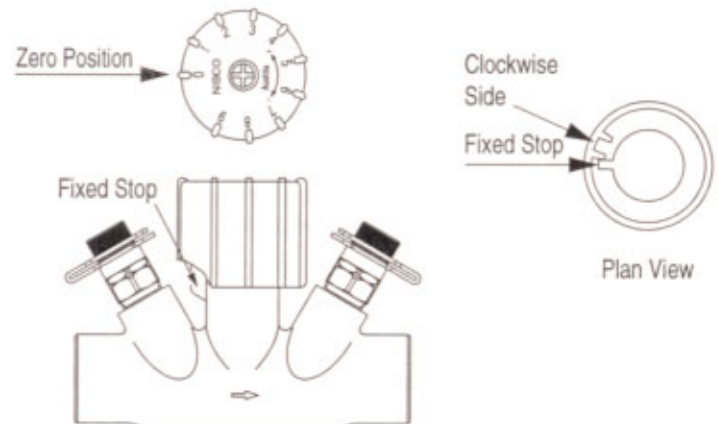


S1709

## Presetting

Using the flow coefficient information the valve can be pre-set to a given Cv value:

- Operate counter-clockwise until the required set position is aligned with the fixed stop.
- Without changing the stem position remove the handwheel and refit the memory stop aligned adjacent to the fixed stop on the clockwise side when viewed from above.
- Refit the handwheel retaining screw.
- The valve can be closed and re-opened to the pre-set position.



De-alloying corrosion, known as “Dezincification,” was effectively eradicated from valve products in the 1950’s. Today, however, this problem has returned with the increased use of high-zinc alloys (commonly referred to as ‘Yellow Brass’) in forged and cast valves typically produced outside the United States.

Dezincification selectively removes zinc from the alloy, leaving behind a porous, copper-rich structure that has little mechanical strength. The physical attributes of an in-service valve with Dezincification includes a white powdery substance or mineral stains on its exterior surface. As a standard NIBCO bronze/brass balancing valves are made to be “Dezincification Resistant,” which is a seal of quality and longevity.