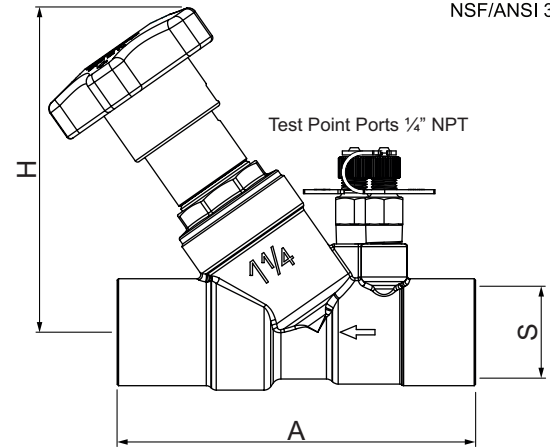


# S-1810-LF Lead-Free\* DZR Brass Fixed Orifice Circuit Balancing Valve - 1/2" to 2"



NSF/ANSI 61  
NSF/ANSI 372

| DIMENSIONS - In. |                |       |      |      |                            |             |
|------------------|----------------|-------|------|------|----------------------------|-------------|
| Size             | Cv - Full Open | Cvs   | H    | A    | S - Internal Bore Diameter | Weight Lbs. |
| 1/2" - U         | 0.607          | 0.64  | 4.06 | 3.74 | 0.627 - 0.631              | 1.158       |
| 1/2" - L         | 0.985          | 1.33  | 4.06 | 3.74 | 0.627 - 0.631              | 1.158       |
| 1/2"             | 2.22           | 3.24  | 4.06 | 3.74 | 0.627 - 0.631              | 1.158       |
| 3/4"             | 4.24           | 6.16  | 4.06 | 4.18 | 0.877 - 0.881              | 1.338       |
| 1"               | 7.21           | 11.24 | 4.06 | 4.57 | 1.128 - 1.131              | 1.546       |
| 1 1/4"           | 14.50          | 23.41 | 4.85 | 5.28 | 1.378 - 1.381              | 2.527       |
| 1 1/2"           | 22.65          | 34.95 | 4.94 | 5.90 | 1.628 - 1.632              | 3.162       |
| 2"               | 34.36          | 63.67 | 5.34 | 6.73 | 2.128 - 2.132              | 4.463       |



| MATERIAL LIST     |                          |
|-------------------|--------------------------|
| PART              | SPECIFICATION            |
| Body              | Brass - UNS C27453 (DZR) |
| Venturi Insert    | Brass - UNS C27453 (DZR) |
| Balancing Cone    | Brass - UNS C27453 (DZR) |
| Gasket Disk       | PTFE                     |
| Disk              | Brass - UNS C27453 (DZR) |
| O-ring            | EPDM                     |
| Disk stem         | Brass - UNS C27453 (DZR) |
| Union             | Brass - UNS C27453 (DZR) |
| Stem              | Brass ASTM B124 C37700   |
| Bonnet            | Brass - UNS C27453 (DZR) |
| Indicator Housing | ABS Black Color          |
| Scale             | Acetal Resin             |
| Handwheel         | ABS Black Color          |
| Test Point (2)    | Brass UNS C35330 (DZR)   |

**300 PSI Non-Shock Cold Working Pressure**  
**Maximum Temperature 260°F @ 150 PSI**

**Flow Measurement Accuracy ±3%**

### Accessories



PT Test Point Extension

| RECOMMENDED FLOW RANGE |                  |     |
|------------------------|------------------|-----|
| Size - inches          | Flow Range - gpm |     |
|                        | Min              | Max |
| 1/2" - U               | 0.24             | 1.0 |
| 1/2" - L               | 0.52             | 2.0 |
| 1/2"                   | 1.2              | 5.0 |
| 3/4"                   | 2.4              | 10  |
| 1"                     | 4.3              | 18  |
| 1 1/4"                 | 9.0              | 33  |
| 1 1/2"                 | 12               | 49  |
| 2"                     | 24               | 78  |

\*Weighted average lead content ≤0.25%

Project: \_\_\_\_\_

Contractor: \_\_\_\_\_

PO/Job No.: \_\_\_\_\_

Engineer: \_\_\_\_\_

Representative: \_\_\_\_\_

Date: \_\_\_\_\_