

# BV Series Refrigeration Ball Valves

**R-410A**

*Shut Off Valves*

The BVE/BVS series welded refrigeration ball valves isolate suction, discharge, and liquid line pipework during maintenance shutdown periods.

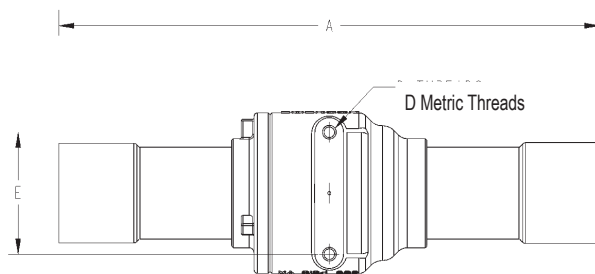
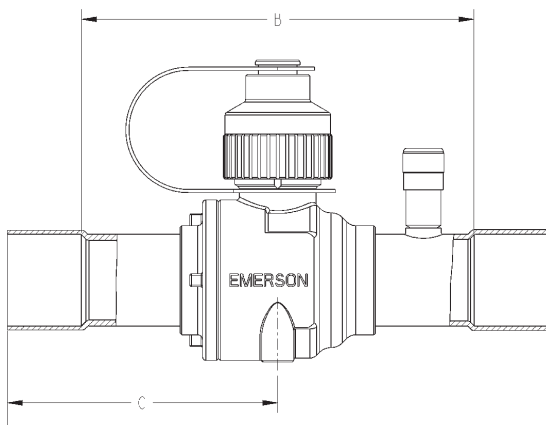
## Features

- Forged brass body
- Compact, lightweight, hermetic welded design
- Compatible with HCFC and HFC refrigerants/lubricants including R-410A and CO<sub>2</sub>
- Full flow design\*
- Bi-directional flow characteristics
- Valve stem cap retained by strap attached to main body
- Integrated access port available on all sizes
- Low operating friction design

## Nomenclature example: BVE 1 1/8

| BV         | E                                       | 1/8                          |
|------------|-----------------------------------------|------------------------------|
| Ball Valve | Access Valve<br>E = without<br>S = with | Connection Size<br>(in 1/8") |

## Dimensional Data



## Specifications

- Body: Forged Brass
- Extended tubes: 100% Copper Connections
- Maximum working pressure: 650 psig
- Fluid temperature range: -40°F to 250°F (302°F short term)
- UL/CUL file number: SA 5312

## Replacement Parts: Locking Seal Caps

| BVE/BVS Valve Size (in.) | PCN    | Quantity (per pack) |
|--------------------------|--------|---------------------|
| 1/4 - 7/8                | 806770 | 10 pcs.             |
| 1 1/8 - 1 3/8            | 806771 | 10 pcs.             |
| 1 5/8 - 2 5/8            | 806772 | 10 pcs.             |

## Selection & Ordering Information

| Models Without Access Valve |        | Models With Access Valve |        | Connection Size (in.) | Dimensions |      |      |    |      | Port Size | Weight (lbs.) |
|-----------------------------|--------|--------------------------|--------|-----------------------|------------|------|------|----|------|-----------|---------------|
| Model                       | PCN    | Model                    | PCN    |                       | A          | B    | C    | D  | E    |           |               |
| BVE 014                     | 806730 | BVS 014                  | 806750 | 1/4 ODF               | 4.72       | 4.02 | 2.36 | M3 | 0.59 | Full Port | 0.79          |
| BVE 038                     | 806732 | BVS 038                  | 806752 | 3/8 ODF               | 4.72       | 4.02 | 2.36 |    | 0.59 | Full Port | 0.79          |
| BVE 012                     | 806734 | BVS 012                  | 806754 | 1/2 ODF               | 5.00       | 4.21 | 2.50 | M4 | 0.87 | Full Port | 0.79          |
| BVE 058                     | 806736 | BVS 058                  | 806756 | 5/8 ODF               | 5.00       | 3.98 | 2.50 |    | 0.87 | Full Port | 0.84          |
| BVE 034                     | 806737 | BVS 034                  | 806757 | 3/4 ODF               | 6.18       | 4.92 | 3.09 |    | 1.22 | Full Port | 1.45          |
| BVE 078                     | 806738 | BVS 078                  | 806758 | 7/8 ODF               | 6.18       | 4.65 | 3.09 |    | 1.22 | Full Port | 1.45          |
| BVE 118                     | 806739 | BVS 118                  | 806759 | 1 1/8 ODF             | 6.65       | 4.84 | 3.33 | M6 | 1.50 | Full Port | 2.29          |
| BVE 138                     | 806741 | BVS 138                  | 806761 | 1 3/8 ODF             | 9.09       | 7.17 | 4.55 |    | 1.89 | Full Port | 3.61          |
| BVE 158                     | 806742 | BVS 158                  | 806762 | 1 5/8 ODF             | 10.91      | 8.66 | 5.45 |    | 2.17 | Full Port | 5.35          |
| BVE 218*                    | 806744 | BVS 218*                 | 806764 | 2 1/8 ODF             | 11.69      | 8.98 | 5.85 |    | 2.91 | 2" Port   | 10.48         |
| BVE 258*                    | 806745 | BVS 258*                 | 806765 | 2 5/8 ODF             | 11.69      | 8.74 | 5.85 |    | 2.91 | 2" Port   | 12.20         |
| BVE 318*                    | 806746 | BVS 318*                 | 806766 | 3 1/8 ODF             | 11.69      | 8.39 | 5.85 |    | 2.91 | 2" Port   | 12.60         |

\* 2" port