



BVS 078 806758

BV SERIES BALL VALVES

The BVE/BVS Series refrigeration ball valves isolate suction, discharge, and liquid lines during maintenance shutdown periods.

FEATURES

- Forged brass body with extended copper ODF connections
- Compact, lightweight, hermetic welded design
- Compatible with all A1 class and A2L class refrigerants/lubricants, as well as R-290 and R-744
- Full port design below 2" port size
- Bi-directional flow characteristics
- Valve stem cap retained by strap attached to main body
- Integrated access valve available on all sizes
- Low operating friction design

SPECIFICATIONS

Maximum Working Pressure..... 650 psig (45 bar)
 Fluid Temperature Range..... -40°F/C to 250°F (121°C), 302°F (150°C) short term
 UL/CUL File Number SA5312
 Canadian CRN 0C21506.513467890YTN

MODEL NUMBER NOMENCLATURE - Example: BVE 118 806739

SERIES	ACCESS VALVE	CONNECTION SIZE		UNIQUE IDENTIFIER
BV	E	118		806739
Ball Valve Series	E = No S = Yes	'014 = 1/4" '038 = 3/8" '012 = 1/2" '058 = 5/8" '034 = 3/4" '078 = 7/8"	'118 = 1-1/8" '138 = 1-3/8" '158 = 1-5/8" '218 = 2-1/8" '258 = 2-5/8"	

BV SERIES BALL VALVES

CONNECTION SIZE AND TYPE	PORT SIZE	LAY IN LENGTH (IN)	WITHOUT ACCESS VALVE		WITH ACCESS VALVE	
			MODEL NUMBER	ITEM NUMBER	MODEL NUMBER	ITEM NUMBER
1/4" ODF	Full Port	4.72	BVE 014 806730	806730	BVS 014 806750	806750
3/8" ODF	Full Port	4.72	BVE 038 806732	806732	BVS 038 806752	806752
1/2" ODF	Full Port	5.00	BVE 012 806734	806734	BVS 012 806754	806754
5/8" ODF	Full Port	5.00	BVE 058 806736	806736	BVS 058 806756	806756
3/4" ODF	Full Port	6.18	BVE 034 806737	806737	BVS 034 806757	806757
7/8" ODF	Full Port	6.18	BVE 078 806738	806738	BVS 078 806758	806758
1-1/8" ODF	Full Port	6.65	BVE 118 806739	806739	BVS 118 806759	806759
1-3/8" ODF	Full Port	9.09	BVE 138 806741	806741	BVS 138 806761	806761
1-5/8" ODF	Full Port	10.91	BVE 158 806742	806742	BVS 158 806762	806762
2-1/8" ODF	2" Port	11.69	BVE 218 806744	806744	BVS 218 806764	806764
2-5/8" ODF	2" Port	11.69	BVE 258 806745	806745	BVS 258 806765	806765

BV-SERIES PARTS LIST

DESCRIPTION	QUANTITY (PER PACK)	MODEL NUMBER	ITEM NUMBER
BV Series Small Locking Seal Caps for Valve Sizes 1/4" Thru 7/8"	10 pcs.	BV 806770	806770
BV Series Medium Locking Seal Caps for Valve Sizes 1-1/8" Thru 1-3/8"	10 pcs.	BV 806771	806771
BV Series Large Locking Seal Caps for Valve Sizes 1-5/8" Thru 2-5/8"	10 pcs.	BV 806772	806772



BVSS 012

BVSS SERIES BALL VALVES

The BVSS Series refrigeration ball valves isolate suction, discharge, and liquid lines during maintenance shut down periods.

FEATURES

- Forged brass body with hermetic weld design
- Copper ODF connections with standard lengths for field retrofit installations
- Compatible with all A1 class refrigerants and R32
- Full port design on all sizes
- Bi-directional flow characteristics
- Integrated access valve on all sizes (core is pre-installed)
- Brass locking seal caps

SPECIFICATIONS

Maximum Working Pressure..... 650 psig (45 bar)
 Fluid Temperature Range..... -40°F/°C to 250°F (121°C), 302°F (150°C) short term
 UL/CUL File Number SA32723

MODEL NUMBER NOMENCLATURE - Example: BVSS 012

SERIES	CONNECTION SIZE		
BVSS	012		
Ball Valve	014 = 1/4" 038 = 3/8" 012 = 1/2" 058 = 5/8"	034 = 3/4" 078 = 7/8" 118 = 1-1/8" 138 = 1-3/8"	158 = 1-5/8" 218 = 2-1/8" 258 = 2-5/8" 318 = 3-1/8"

BALL VALVE SERIES COMPARISON

FEATURE	BVSS	BVS	BVE
Access Valve	Yes	Yes	—
Refrigerants	A1, R32	A1 & A2L, R290, R744	
Full Port	All sizes	1/4" through 1-5/8" only	
Locking Seal Cap	Brass	Plastic w/ retaining strap	
Length	Standard	—	
Mounting Holes	—	Yes	

BVSS SERIES BALL VALVES

CONNECTION SIZE AND TYPE	PORT SIZE	OVERALL LENGTH (IN)	MODEL NUMBER	ITEM NUMBER
1/4" ODF	Full Port	4.41	BVSS 014	081013
3/8" ODF	Full Port	4.96	BVSS 038	081014
1/2" ODF	Full Port	5.02	BVSS 012	081015
5/8" ODF	Full Port	5.91	BVSS 058	081016
3/4" ODF	Full Port	6.46	BVSS 034	081017
7/8" ODF	Full Port	7.46	BVSS 078	081018
1-1/8" ODF	Full Port	8.23	BVSS 118	081019
1-3/8" ODF	Full Port	9.69	BVSS 138	081020
1-5/8" ODF	Full Port	10.98	BVSS 158	081021
2-1/8" ODF	Full Port	12.60	BVSS 218	081022
2-5/8" ODF	Full Port	14.84	BVSS 258	081023
3-1/8" ODF	Full Port	16.14	BVSS 318	081024