



Diamondback™ BV-FF Series Unibody Ball Valves

Instructions & Information

June, 2013

Flare to Flare Connection

- **DO NOT DISASSEMBLE VALVE FOR ANY REASON.** CONTACT FACTORY FOR DISPOSITION
- Rotate flats on swivel type seal cap using adjustable wrench. Turn 90 degrees against the mechanical stops. Align OPEN arrow with refrigerant line for non-directional flow. Turn clockwise to close.
- Seal cap nut uses a 1-1/8" wrench – Stem Cap located under Seal Cap Nut uses 3/8" wrench
 - Note: Seal Cap Nut is factory set for proper torque value for correct operation and should not need adjustment when installed
- This valve contains mechanical stops **DO NOT USE EXCESSIVE FORCE AGAINST STOPS OR PERMANENT DAMAGE MAY OCCUR.**
- Follow the equipment manufacturer's instructions when connecting valves to system and refrigerant piping, and when evacuating system and testing for leaks.
- Remove protective shipping plugs before connecting to equipment.
- Properly tighten the flare connections and be careful not to over tighten. Use a torque wrench and tighten to approved level. Make sure Schrader Cap is tight.

Flare Size	Tightening Torque		Wrench Size
	N-m	Ft. Lbs.	
1/4"	14 – 18	10 – 13	5/8"
3/8"	34 – 42	25 – 30	13/16"
1/2"	49 – 61	35 – 44	15/16"
5/8"	68 - 82	49 – 59	1-1/16"

- Apply a small amount of refrigerant oil to the flare face during installation for a proper and long lasting seal. This will help ensure protection against leaks.
- Install the insulator carefully, seal using adhesive flap provided. Tie bands may be used for additional security.
- Never allow contaminants to be introduced into the valve or piping.
- "One Year Warranty" against defects in materials and workmanship from date of purchase.
- For use with CFC, HCFC, and HFC Refrigerants listed in CAN/CSA B52 and ANSI/ASHRAE 15, Sect. 9.2 where the saturation vapor pressure at 125° F (High Side) and 80° F (Low Side) is less than the maximum design working pressure. After charging, mark unit with *Refrigerant Type* and *Oil Type*.



COOLING & HEATING

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