

File SA13413

Vol 1

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Revised:

FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

VALVES, REFRIGERANT
(SFJQ, SFJQ7)

Manufacturer: ESSEN TECH CO LTD
(414348-001) 620-4 NAMCHON-DONG
NAMDONG-GU
INCHON KOREA

Applicant: SAME AS MANUFACTURER
(414348-001)

Listee: SAME AS MANUFACTURER
(414348-001)

This Procedure authorizes the above Manufacturer to use the marking specified by Underwriters Laboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The prescribed Mark or Marking shall be used only at the above manufacturing location on such products which comply with this Procedure and any other applicable requirements.

The Procedure contains information for the use of the above named Manufacturer and representatives of Underwriters Laboratories Inc. and is not to be used for any other purpose. It is lent to the Manufacturer with the understanding that it is not to be copied, either wholly or in part, and that it will be returned to Underwriters Laboratories Inc. upon request.

This PROCEDURE, and any subsequent revisions, is the property of UNDERWRITERS LABORATORIES INC. and is not transferable.

UNDERWRITERS LABORATORIES INC.



Sajeev Jesudas
Chief Operating Officer



(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

LISTING MARK

The Listing Mark consists of four elements placed in close proximity and shall appear on Listed products only. Minimum size is not specified, as long as the Listing Mark is legible. The following is suggested. (If only Canadian coverage is authorized, use only the C-UL Symbol).

UL Symbol to the left and the C-UL Symbol to the right.



Alternatively, the UL Symbol with "C" to the left and "US" to the right. Canadian/US Mark may be used.



XXXX = The control number

assigned by UL, 32DC.

The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

The product identity is: "REFRIGERANT VALVE".

The product identity may be omitted if the Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate which includes the rating or the catalog or model designation.

Separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) will always include the four elements.

All elements of the Listing Mark will appear on the smallest unit container in which the product is packaged when the product is of such a size that only the Symbol(s) can be applied to the product or when the product size, shape, material or surface texture makes it impossible to apply any legible marking to the product.

The manufacturer may reproduce the Mark or obtain it from a UL authorized supplier.

THIS PAGE IS TO BE REVISED BY FUS DEPARTMENT ONLY

SPECIAL INSTRUCTIONS

FIELD REPRESENTATIVE:

GENERAL

At each quarterly inspection, check the following features and conduct the tests as described.

The manufacturer shall conduct leakage tests on each of the Listed devices at not less than the tabulated minimum test pressures or the marked nameplate leakage test pressures, whichever are greater. There shall be no leakage.

Model	Minimum Leakage Test Pressure, psig
RBV6, HRBV6, HRBV6C	700
RBV10, HRBV10, HRBV10C	700
RBV12, HRBV12, HRBV12C	700
RBV16, HRBV16, HRBV16C	700
RBV18, HRBV18, HRBV18C	700
RBV22, HRBV22, HRBV22C	700
RBV28, HRBV28, HRBV28C	700
RBV35, HRBV35, HRBV35C	700
RBV42, HRBV42, HRBV42C	700
RBV54, HRBV54, HRBV54C	700
RBV64, HRBV64, HRBV64C	700
*HRBV76, HRBV76C	700
RBV76	580

HYDROSTATIC STRENGTH TEST

Samples

One sample of each of the following parts shall be selected for test.

Method

The samples are to be filled with water to exclude all air and connected to a suitable hydrostatic pressure system. The pressure within the system shall be gradually increased to the value indicated below and maintained for a period of 1 min.

Model	Hydrostatic Strength Test Pressure, psig
RBV6, HRBV6, HRBV6C	3500
RBV10, HRBV10, HRBV10C	3500
RBV12, HRBV12, HRBV12C	3500
RBV16, HRBV16, HRBV16C	3500
RBV18, HRBV18, HRBV18C	3500
RBV22, HRBV22, HRBV22C	3500
RBV28, HRBV28, HRBV28C	3500
RBV35, HRBV35, HRBV35C	3500
RBV42, HRBV42, HRBV42C	3500
RBV54, HRBV54, HRBV54C	3500
RBV64, HRBV64, HRBV64C	3500
*HRBV76, HRBV76C	3500
RBV76	2900

Description

PRODUCT COVERED:

USL, CNL: Refrigerant ball valves - Models RBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, -64, and -76. **RBV6C, -10C, -12C, -16C, -18C, -22C, -28C, -35C, -42C, -54C, -64C, and -76C.** HRBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, -64, and -76. HRBV6C, -10C, -12C, -16C, -18C, -22C, -28C, -35C, -42C, -54C, -64C, and -76C.

GENERAL:

* Models RBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, -64, and -76. HRBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, -64, and -76. HRBV6C, -10C, -12C, -16C, -18C, -22C, -28C, -35C, -42C, -54C, -64C, **-76C, and RBV-76C** are refrigerant ball valves for use with Refrigerants 22, 134a, 410A, 404A, 407C, 507 and have a design pressure of 580 psig.

Models RBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, and -64. **RBV6C, -10C, -12C, -16C, -18C, -22C, -28C, -35C, -42C, -54C, and -64C.** HRBV6, -10, -12, -16, -18, -22, -28, -35, -42, -54, -64, and -76. HRBV6C, -10C, -12C, -16C, -18C, -22C, -28C, -35C, -42C, -54C, -64C, and -76C are refrigerant ball valves for use with Refrigerants 22, 134a, 410A, 404A, 407C, 507 and have a design pressure of 700 psig.

CNL indicates investigation to Canadian Standard C22.2 No. 140.3-1987.

CONDITIONS OF ACCEPTABILITY:

These devices should be used within the limits described in this Report with regard to refrigerant type and design pressure.

REFRIGERANT VALVE MODEL SERIES RBV & RBVXXC- ILL. 1,2 & 4

General - Illustrates the general shape, design and arrangement for all models except as noted.

1. Body - Formed from brass. For values of the minimum wall thickness and the OD for each model, see the following table.

Model Number	Minimum Wall Thickness (in.)	OD (in.)
RBV6, - 6C	0.100	0.831
RBV10, -10C	0.100	0.831
RBV12, -12C	0.100	0.831
RBV16, -16C	0.100	0.831
RBV18, -18C	0.102	1.080
RBV22, -22C	0.102	1.080
RBV28, -28C	0.110	1.350
RBV35, -35C	0.125	1.630
RBV42, -42C	0.140	1.910
RBV54, -54C	0.150	2.430
RBV64, -64C	0.150	2.430
RBV76, -76C	0.203	3.031

For additional dimensions and connection sizes, see ILL 2 and 4.

2. Cover- Formed from brass.
3. Stem Cap - Formed from brass. One provided.
4. Ball - Formed from brass.
5. Seat Ring - Formed from Polytetrafluoroethylene. Two provided.
6. Stem - Formed from brass.
7. Tube - Formed from copper. Two provided. Used to form connections.
8. O-Ring - Formed from Chloroprene Rubber. Located between stem and valve body. Two provided.
9. Cap Gasket - Formed from Chloroprene Rubber. One provided.
10. Stop Pin - Formed from stainless steel. Inserted through stem. One provided.
11. **Charge Port Cap Assembly - Formed from brass of ASTM B16. Mounted into the body of the Ball Valve and secured by silver brazing. (Note: Employed only on the RBVXXC series.)**