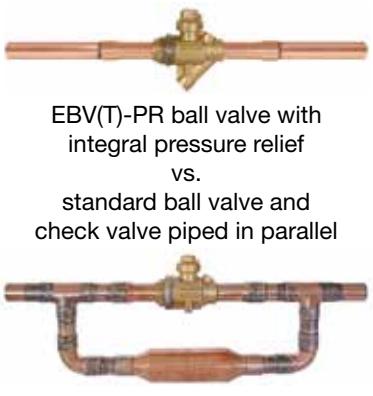
Ball valve with integral pressure relief

Type EBV(T)-PR

Advantages

For greater system design flexibility and increased productivity, specify the EBV(T)-PR ball valve with integrated pressure relief. This compact solution eliminates the check valve and associated brazing involved when piping a ball valve and check valve in parallel to protect a system from over pressurization.

- Compact design **simplifies installation**
- Eliminates the check valve and associated piping, resulting in significant **material cost savings**
- Decreases braze joints resulting in **labor savings and increased productivity**
- Minimizes the potential for leaks and decreases nuisance call-backs



EBV(T)-PR ball valve with integral pressure relief
vs.
standard ball valve and check valve piped in parallel

Features

- Allows for positive shut off in one direction and flow in the other direction whenever pressure differential is present (the integrated pressure relief feature is one direction only)
- Protects system from pressure spikes when servicing equipment
- Welded body joint. Factory tested to ensure positive, leak-free performance. Forged brass body construction with extended K65® fittings and optional access fittings
- Full size ports for unrestricted flow on most sizes 10 mm (3/8”) through 28 mm (1-1/8”)
- Dual Teflon seals surround the polished, brass ball to prevent leakage. Stem seal and stem washer provide the primary stem seal. Bottom load stem for safety
- Stainless steel stop plate ensures fully open to fully closed with a 1/4 turn
- All EBV(T)-PR ball valves use C19400 (K65®) copper fitting material

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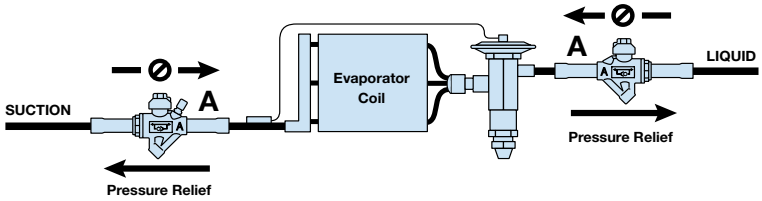
Specifications

- Full refrigeration service temperature range: -40°C to +149°C (-40°F to +325°F)
- Design working pressure: 90 barg (1.305 psig)
- Integral pressure relief:
  - Crack open pressure: <0,345 bar (5 psid)
  - Full open pressure: 3,45 bar (50 psid)
  - Wide open flow: 7,30 l/min H2O @ 3,45 bar (1.93 gpm H2O @ 50 psid)
- For refrigeration and air conditioning systems
- Suitable for use with the following refrigerants: Class A1 refrigerants (HFC, HCFC, HFO and CO_2)
- Patents: US Patent 10,107,406; International Patents Pending
- Certification: PED Art. 4.3 - REACH



The "A" side of the ball valve should always be on the same side as the coil.

The EBV(T)-PR valve will close in one direction and relieve pressure in the other direction. This single valve would replace a current ball valve plus a check valve plumbed around the ball valve. Allows evaporator coil to be isolated without over pressurizing due to warm up. May also have needs in loop piping and at the rack.

IMPORTANT: This valve has a pressure relief feature in one direction only. If installed incorrectly, pressures may drastically increase causing rupture of valve, piping and/or other components exposed to such pressure. This could cause damage to equipment and cause injury or possible death to anyone in the area.

Dimensions

EBV(T)-PR Series - Inches

Valve Type	Part Number	Connection (ODF)
EBV-PR 3/8"	502199	3/8"
EBV-PR 1/2"	502200	1/2"
EBV-PR 5/8"	502201	5/8"'
EBV-PR 3/4"	502202	3/4"
EBV-PR 7/8"	502203	7/8"
EBV-PR 1-1/8"	502204	1-1/8"
EBVT-PR 3/8"	502205	3/8"
EBVT-PR 1/2"	502206	1/2"
EBVT-PR 5/8"	502207	5/8"'
EBVT-PR 3/4"	502208	3/4"
EBVT-PR 7/8"	502209	7/8"
EBVT-PR 1-1/8"	502210	1-1/8"

EBV(T)-PR Series - Millimeters

Valve Type	Part Number	Connection (ODF)
EBV-PR 10MM	502399	10 mm
EBV-PR 12MM	502400	12 mm
EBV-PR 16MM	502401	16 mm
EBV-PR 18MM	502402	18 mm
EBV-PR 22MM	502403	22 mm
EBV-PR 28MM	502405	28 mm
EBVT-PR 10MM	502406	10 mm
EBVT-PR 12MM	502407	12 mm
EBVT-PR 16MM	502408	16 mm
EBVT-PR 18MM	502409	18 mm
EBVT-PR 22MM	502410	22 mm
EBVT-PR 28MM	502411	28 mm

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