

Expansion Vessel

Model EVUP – Heating & Domestic - 10 bar - Datasheet

Description

Range of expansion vessels with replaceable EPDM bag for heating and boosted domestic cold or hot water services. Model EVUP is rated at 10 bar and approved for wholesome water applications.

Connection

BSP Male connection in base (end for horizontal types)
See code in table for size e.g. 25MP = 1" male parallel.

Specification

Pressure Supply 10 bar max.
Temperature -10° to 99° C max.
Pre-charge 1.5 bar approx, unless specified.
Water Regulations
Approval 1407071

Materials

Body Mild Steel – Blue epoxy powder
Membrane (bag) EPDM rubber
Flange & Inlet Stainless steel

Applications

- Unvented heating systems
- Boosted cold water service
- Boosted hot water service

Fitting Kit

The vessel must be pre-charged with air before use and periodically (e.g. annually) thereafter. The vessel must be drained of water before charging. To achieve this a proper isolator and drain tap should be used. Valves up to DN25 (up to and including 100 litres) have a wire lock and union connection. For DN40 connection (200 litre +), the valve has an aluminium handle, which can be locked open by removing nut and replacing handle with slot engaged.



Ball Valve – Wired, Drain Tap & Union Model BVEV



Ball Valve – locked open c/w Drain Tap Model BV40FP300DT

Pre-charge Pressure

The air pressure – with zero water pressure – is normally set at 0.2 bar less than the switch-on pressure of a booster pump. A Schrader valve is fitted. 200 litres vessels and larger have a ½" male tube at the top intended for a pressure gauge - otherwise this should be capped.



100 Litre Vertical
EVUP100V

Water Regulations

When used for boosted cold water, the vessel may be described as an "air vessel" or "hydro pneumatic pressurised vessel". In this application a safety relief valve is not required. When used to accommodate thermal expansion, clause R17.3 suggests the expansion capacity should be 4% of volume of the hot water storage system. G17.1 requires safety devices.

Dimensions

Lt	Diameter mm	Height mm	Connection
24	270	290	¾"
50	380	770	1"
50	380	410	1"
60	380	860	1"
60	380	410	1"
80	450	830	1"
80	450	480	1"
100	450	910	1"
100	450	480	1"
200	550	1235	1 ½"
200	550	580	1 ½"
300	630	1365	1 ½"
300	630	660	1 ½"
500	750	1560	1 ½"
750	750	2075	1 ½"
1000	850	2100	1 ½"

Codes and Descriptions

Size	Code	Description
24 Lt	EVUP24H	Exp. Vessel 10 bar Ø270X290 Long Horiz Blu
50 Lt	EVUP50V	Exp. Vessel 10 bar Ø380X770 High Vert
50 Lt	EVUP50H	Exp. Vessel 10 bar Ø380X410 Long Horiz
60 Lt	EVUP60V	Exp. Vessel 10 bar Ø380X860 High Vert
60 Lt	EVUP60H	Exp. Vessel 10 bar Ø380X410 Long Horiz
80 Lt	EVUP80V	Exp. Vessel 10 bar Ø450X830 High Vert
80 Lt	EVUP80H	Exp. Vessel 10 bar Ø450X480 Long Horiz
100 Lt	EVUP100V	Exp. Vessel 10 bar Ø450X910 High Vert
100 Lt	EVUP100H	Exp. Vessel 10 bar Ø450X480 Long Horiz
200 Lt	EVUP200V	Exp. Vessel 10 bar Ø550X1235 High Vert
200 Lt	EVUP200H	Exp. Vessel 10 bar Ø550X580 Long Horiz
300 Lt	EVUP300V	Exp. Vessel 10 bar Ø630X1365 High Vert
300 Lt	EVUP300H	Exp. Vessel 10 bar Ø630X660 Long Horiz
500 Lt	EVUP500V	Exp. Vessel 10 bar Ø750X1560 High Vert
750 Lt	EVUP750V	Exp. Vessel 10 bar Ø750X2075 High Vert
1000 Lt	EVUP1000V	Exp. Vessel 10 bar Ø850X2100 High Vert
Expansion Vessel Isolators		
DN20	BVEV20SNDT	Ball Valve Exp.Vess. Wired Drain Tap Econ.
DN20	BVEV20FUDT	Ball Valve Exp.Vess. Wired Drain Tap Union
DN20	BVEV20FUDTL	Ball Valve Exp.Vess. Large Drain Tap Union
DN25	BVEV25FUDT	Ball Valve Exp.Vess. Wired Drain Tap Union
DN25	BVEV25FUDTL	Ball Valve Exp.Vess. Large Drain Tap Union
DN32	BVEV32FUDT	Ball Valve Exp.Vess. Wired Drain Tap Union
DN40	BVEV40	Ball Valve Blu Tee c/w Drain Tap FBSP

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Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.
All unit-less dimensions in mm.
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