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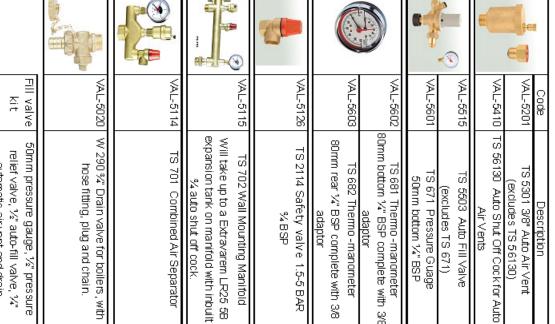
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EXPANSION TANK OVER 25L	NORTHVALE PIPING SCHEMATIC	automatic air vent and drain	relief valve, ½" auto-fill valve, ¼"	Till Kalke   commit bicapare Baage, vz bicapare
	HEMATIC	drain	alve, 1/4"	Price and control

	<u>Ki</u> t	Fill valve
automatic air vent and drain	relief valve, ½" auto-fill valve, ¼"	50mm pressure gauge, ½" pressure

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P O Box 12021, Penrose, Auckland, 31 Station Rd, Penrose, Auckland, PH (6 9) 579 2185 Fax (64 - 9)	NORTHVALE PIPING SCHEMA EXPANSION TANK OVER 25L	





# NORTHVALE VAREM EXPANSION TANKS

# **Installation and Operation Instructions**

#### General:

The Northvale Varem expansion tanks are manufactured according to the European Directive 97/23/EC and these instructions are made in conformity with this directive.

## Application:

The water volume in heating and chilled water systems will vary subject to temperature changes, which increase or reduce the volume and the expansion tanks are used to take up this expansion and to prevent system over and under pressure.

The expansion tanks consist of a metal tank containing a flexible balloon membrane. The tank is pressurized and the system water is contained within the membrane.

#### **Technical characteristics:**

The technical characteristics of the Northvale Varem expansion tanks are displayed on the label affixed to each tank. This data includes - Code, Serial No, Production date, Volume, Maximum working temperature, Pre-charge and Maximum working pressure. The label must not be removed and the use of the expansion tank must conform within these limits.

#### Installation:

The Northvale Varem expansion tanks must be correctly sized and installed by specialised personnel. The tanks should be installed in the return line, securely fixed to the building structure and have a pressure relief valve fitted to ensure that the maximum working pressure does not exceed the pressure on the label.

Filling of the system should preferably be by use of a special filling valve. The valve should incorporate a pressure gauge as a guide for filling, a check valve for protection against risk of back flow, which could cause pollution of the water main and a preset pressure reduction feature to stop water filling upon reaching a preset pressure.

The filling valve should only be used for filling the system and have the isolating valve closed off during normal system usage. Continuous automatic operation can result in fresh water entering the system causing internal corrosion.

### Maintenance:

Specialised personnel must carry out the maintenance.

The expansion tanks must be generally checked yearly, in particular to ensure that the precharge pressure corresponds with the label. IMPORTANT: To check the pre-charge the tank must be completely empty of water.

# Safety precautions:

The Northvale Varem expansion tanks must be operated within the operating conditions noted on the label. The manufacturer takes no responsibility for damage to persons, places or objects, which result from the improper use, installation and/or functioning of the product or connected system.

## Supplied by:

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