TEMKET Universal Line

Universal insulation mattresses

- Applicable up to 180°C (peak temperature 200°C)
- Energy-saving and short payback period
- Easy assembly/ disassembly
- Made of Temtex™ materials
- Fire-safe and robust

The **TEMKET** Universal line has been specially developed for use in boiler rooms in utility buildings. The product line consists of a series of insulation mattresses that allow you to insulate common fittings, pumps, flanges, compensators and pipe sections yourself. For customised solutions (demanding environments and temperatures up to approx. 1050°C), please do not hesitate to contact us.

Fittings

For various fittings, such as valves, butterfly valves, reducing valves, filters, etc., select one of the four universal mattresses for fittings (types A1 to A4) based on the DN size or the circumference of the fitting. Use the selection table on the next page to do this. For fittings other than valves, it is advisable to observe the control dimensions.

Pumps

For pumps, you can order universal mattresses in three sizes. Insulation mattress for pump medium (B1) is suitable for use up to DN32 and Insulation mattress for pump large (B2) is applicable for pumps up to DN65. Insulation mattress for pump XL (B3) is suitable for use up to DN100. Given the wide variation in pumps, it is always advisable to measure whether the pump sizes correspond to the control sizes on the next page.

Pipe sections

For non-insulated pipe sections, you can also choose from two sizes of universal mattresses. For a non-insulated pipe section up to a length of 120 mm, choose Insulation mattress for pipe medium (C1). For non-insulated pipe sections up to 220 mm, choose Insulation mattress for pipe large (C2). Both types are suitable for pipes up to DN100.

Flanges

For flanges and expansion joints, you can order universal mattresses in two sizes. Insulation mattress for flange medium (D1) is suitable for flanges up to DN100. Insulation mattress for flange large (D2) is suitable for flanges up to DN200. With expansion joints, you must take extra account of the maximum insulated length [Figure 4: Flange]. Also always consider the type of expansion joint as vibrations shorten the service life of an insulation mattress.

Product features

Temket's universal insulation mattresses are made up of:

- Temtex™ glass fabrics
- 50 mm rock wool with aluminium foil
- Velcro fasteners
- Kevlar yarn
- Fastening cord

Saving

Calculate immediately your annual energy cost savings, payback period and CO_2 emission reduction >> https://temket.com/energy-saving-calculator


Selection table **TEMKET** Universal line

Mattress for	DN size	Control measures	Mattress type
Fitting (Figure 1)	≤ DN20	A ≤ 160mm B ≤ 70mm	**Type A1** Insulation mattress for fitting small
	DN25 - DN32	A ≤ 280mm B ≤ 130mm	**Type A2** Insulation mattress for fitting medium
	DN40 - DN80	A ≤ 380mm B ≤ 210mm	**Type A3** Insulation mattress for fitting large
	DN100 - DN150	A ≤ 500mm B ≤ 310mm	**Type A4** Insulating mattress for fitting XL
Pump (Figure 2)	≤ DN32 (no flange)	A ≤ 350mm B ≤ 120mm C ≤ 120mm	**Type B1** Insulation mattress for pump medium
	DN32 - DN65	A ≤ 480mm B ≤ 210mm C ≤ 180mm	**Type B2** Insulation mattress for pump large
	DN80 - DN100	A ≤ 600mm B ≤ 260mm C ≤ 240mm	**Type B3** Insulation mattress for pump XL
Pipe section (Figure 3)	≤ DN100	A ≤ 120mm B ≤ 115mm	**Type C1** Insulation mattress for pipe medium
	≤ DN100	A ≤ 220mm B ≤ 115mm	**Type C2** Insulation mattress for pipe large
Flange (Figure 4)	≤ DN100	A ≤ 260mm B ≤ 225mm	**Type D1** Insulation mattress for flange medium
	DN125 - DN200	A ≤ 360mm B ≤ 360mm	**Type D2** Insulation mattress for flange large

Explanation of control measures

A. Length not insulated. Measured from 3 cm over insulation end to 3 cm over insulation end (except type C).
B. Maximum diameter of section to be insulated (exclude parts that will not be insulated)
C. Opening for pump

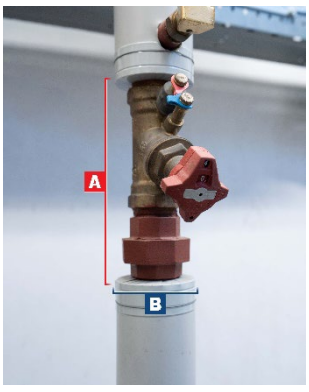

Figure 1: *Fitting*

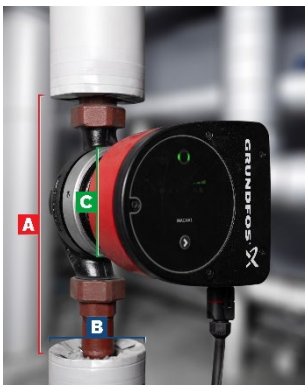

Figure 2: *Pump*

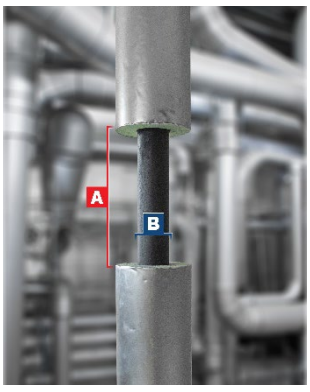

Figure 3: *Pipe section*

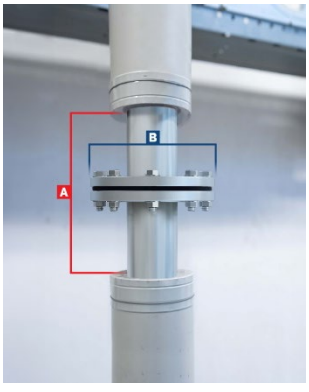

Figure 4: *Flange*