

templine® Heated Hose

Electrically Heated Hose System for applications up to +200 °C media temperature



Material

medium hose made from PTFE with high chemical resistance. Outer casing made from mechanically stable polyamide or abrasion-resistant aramide fibres.

Thermal insulation: optional silicone foam or silicon-free textile cord

Applications

- Anti-freeze, maintaining and increasing of temperatures for gases, granules and liquids of varying viscosity in temperature range -190 °C to +200 °C.

Properties

- good flexibility
- step-proof and antistatic design
- high power density (up to 250 W/m)
- nominal voltage (in operation): 0 ... 500 V
- different superstructures for hose pressures up to 475 bar and vacuum
- optional integrated temperature controller / safety temperature limiter
- connections (fittings) in steel / stainless steel / brass

Temperature Range

- PA medium hose (type I) to +80 °C permanent
- PTFE smooth hose as well as all pressure-reinforced versions up to +220 °C
- corrugated metal hose +300 °C

templine® Heated Hose

	Heated Hose / inner Hose	Type I PA	Type II PTFE	Type III PTFE, single reinforcement	Type IV PTFE, double reinforcement
	Operating temp.	max. +80 °C	max. +200 °C	max. +200 °C	max. +200°C
	Storage temp.	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C	-20 °C to +60 °C
	Inner hose	Polyamide (PA)	PTFE	PTFE + braiding	PTFE + 2x braiding
	Heating cable	Resistance alloys	Resistance alloys	Resistance alloys	Resistance alloys
	Yarn Braiding	Polyester yarn	Glass yarn	Glass yarn	Glass yarn
	Plastic Insulation	Polyurethane (PU)	Silicone (Si)	Silicone (Si)	Silicone (Si)
	Thermal insulation	Elastomers foam	Silicone foam	Silicone foam	Silicone foam
	Protective Braiding	Polyamide braid	Polyamide yarn	Polyamide yarn	Polyamide yarn
	Bending Radius	10 x hose outer D.	8 x hose outer D.	6 x hose outer D.	6 x hose outer D.
	Pressure Resistance	bar	bar	bar	bar
	DN 4	44	22	264	a.A.
	DN 6	19	18	247	500
	DN 8	27	14	230	475
	DN 10	22	10	207	475
	DN 12	19	8	183	450
	DN 14	16	6	183	450
	DN 16	15	5	138	400
	DN 20	13	4	126	300
	DN 25	11	3	103	275
	DN 50	8	2	on request	on request

All data refers to a media and ambient temperature of +20 °C
 Order-specific production from DN 4 to DN 50, hose length according to requirement for operating voltages up to 500 Volt and operating pressures up to 500 bar.
 Available on request with greater heating capacities, with food-grade certification, power controller.
 Subject to technical changes and colour deviations.



Product structure of temperature controller



templine®-B temperature limiter



templine® end termination



templine®-R temperature controller