

IHH-ST2A/ST2D (Standard IHH-200)

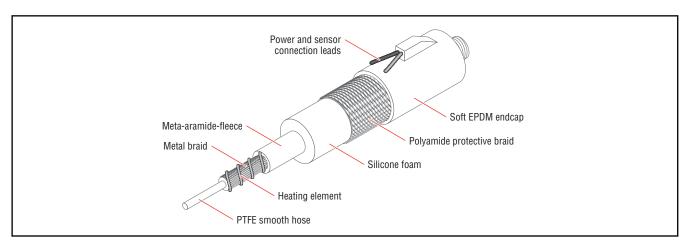


Heated hose, standard range for liquid and gaseous media

Isopad IHH-ST2A/ST2D is a flexible heated hose for liquid and gaseous media with a maximum operating temperature of 200°C. The standard versions have smooth PTFE inner hose constructions with stainless steel braiding for pressurized operation. The thermal insulation consists of meta-aramide fleece and silicone foam.

Mechanical protection is provided by a polyamide braid and soft ethylene propylene diene monomer (EPDM) endcaps. Built-in Pt100 sensors provide optimum temperature control for the medium. The evenly wrapped resistance heating cable allows an homogeneous heat distribution throughout the hose.

The standard versions can be used for a wide range of applications. Special designs are available on request with focus on the performance level and/or environmental influences. See our list of options for your desired design on page 3.



Area Specifications					
Area classification	Nonhazardous, ordinary area				
Ingress protection	IP54				
Electrical protection class	Class I				
Maximum withstand temperature (power off)	200°C				
Ambient temperature range	-20 to +40°C				
Standard Manufacturing Sizes					
Length	Up to 19 m ⁽¹⁾				
Tolerances	According to DIN 20066				
Nominal width	4, 6, 8, 10, 13 mm				
⁽¹⁾ Available in steps of 0.1 m					
Heater Construction					
Туре	Resistance heating cable				
Material	Various alloys				
Material of insulation	PTFE				
Material of outer sheath	Copper-nickel braid				
Carrier	Stainless steel braid				
Inner hose	Smooth PTFE hose				
Fittings	AGR or DKR according to ISO 228/1				
Fitting material	Galvanized steel				
Thermal fabric fibre insulation	Meta-aramide-fleece of 4 to 5 mm thickness				

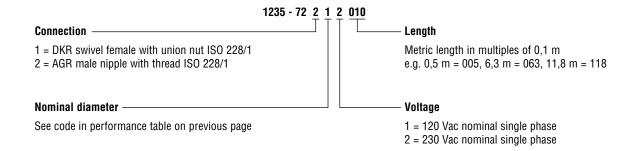
Heater Construction					
Thermal foam insulation	Silicone of 9 to 11 mm thickness				
Outer protection	Polyamide braid				
Lead Connection					
Connection length	1,5 m				
Cross section	Depending on design				
Maximum operating temperature	180°C				
Insulation material	Silicone				
Temperature Control					
Sensor type	Pt100 two-wire DIN Class B				
Sensor lead length	1,5 m				
Lead cross section	Depending on design				
Maximum operating temperature	180°C				
Sensor lead material	Silicone				
Technical Data					
Frequency	50-60 Hz				
Nominal operating voltage	120 or 230 Vac				
Nominal power	Depending on design				
Power per meter	Maximum 140 W/m (see performance table)				
Minimum insulation resistance	100 ΜΩ				
Maximum operating temperature	200°C				
Maximum operating pressure	See performance table				
Minimum bend radius	See performance table				

Performance Table

Nominal diameter		Power (W/m)	Maximum static pressure (bars)		Minimum bend radius (mm)	
Code	mm	at 200°C	at 20°C	at 200°C	Static	Dynamic ⁽¹⁾
1	4	90	250	208	100	200
2	6	100	240	199	150	300
3	8	110	200	166	200	400
4	10	120	175	145	140	480
5	13	140	150	125	270	540

⁽¹⁾Dynamic performance represents two dimensional single piston stroke per second (1 Hz) with compressed air (medium) 6 bars at 100°C operating and 20°C ambient temperature. Dynamic performance of heated hoses is recommended to be tested for each individual application.

Ordering Information - Part Number Configurator (for standard versions only, not applicable for special versions)



Example: 1 m heated hose, 4 mm nominal diameter, 230 V supply voltage, AGR connection

Part Number: 1235-72212010

Options for Special Versions

If your requirements are not met by the above specifications, we can tailor-make a heated hose to suit you. Variations depend on design and can include:

- Other nominal sizes and inner hoses, e.g. supplied components for individual heating
- · Sizes up to 19 m
- Sensor types, e.g. thermocouples Type K, Type J, etc.
- Supply voltage up to 400 V, single-phase or three-phase
- · Higher power outputs
- Increased ingress protection, e.g. IP65 for outdoor applications
- Increased pressure resistance, up to 415 bar at 200°C (depending on nominal diameter)
- Other materials, e.g. for applications recommending silicone free production
- · Approved components for the use in hazardous areas according to IECEx and ATEX
- Replaceable inner hoses for nonpressurized gas analysis
- · Premounted plugs and special supply and messenger leads
- · Controlling devices and high temperature lock-out thermostats