

IHH-ST2A/ST2D Previously IHH-200

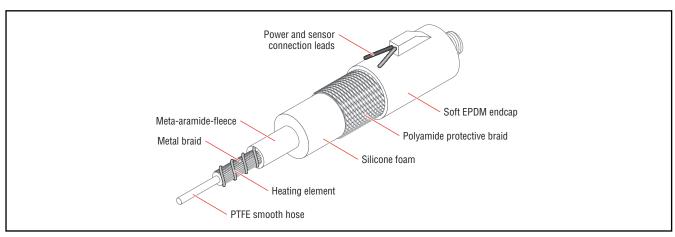


Heated hose, standard range for liquid and gaseous media

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				
	Hn 4a 40 m/(1)			
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			

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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			

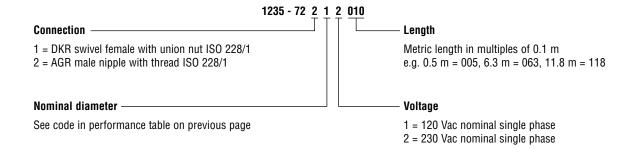
Performance Table

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

⁽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.

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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 120 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

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