

IHH-ST1A/ST1D Previously IHH-100

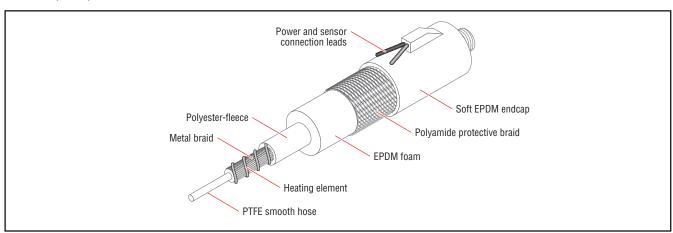


Heated hose, standard range for liquid and gaseous media

Isopad IHH-ST1A/ST1D is a flexible heated hose for liquid and gaseous media with a maximum operating temperature of 100°C. The standard versions have smooth PTFE inner hose constructions with stainless steel braiding for pressurized operation. The thermal insulation consists of polyester fleece and ethylene propylene diene monomer (EPDM) foam.

Mechanical protection is provided by a polyamide braid and soft 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)	100°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	carbon steel cr VI free coated		
Thermal fabric fiber insulation	Polyester-fleece of 4 to 5 mm thickness		

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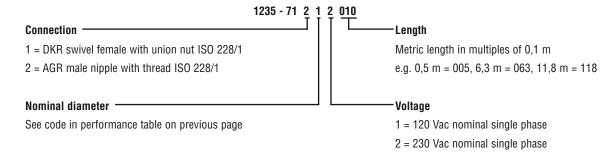
EPDM of 9 to 11 mm thickness		
Polyamide braid		
1,5 m		
Depending on design		
180°C		
Silicone		
Pt100 two-wire DIN Class B		
1,5 m		
Depending on design		
180°C		
Silicone		
50-60 Hz		
120 or 230 Vac		
Depending on design		
Maximum 110 W/m (see performance table)		
100 ΜΩ		
100°C		
See performance table		
See performance table		

Performance Table

Nominal diameter		Power (W/m)	Maximum static pressure (bars)		Minimum bend radius (mm)	
Code	mm	at 100°C	at 20°C	at 100°C	Static	Dynamic ⁽¹⁾
1	4	70	250	238	100	200
2	6	80	240	228	150	300
3	8	90	200	190	200	400
4	10	100	175	166	140	480
5	13	110	150	143	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: 1235-71212010

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
- Standard lenth 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 475 bar at 100°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