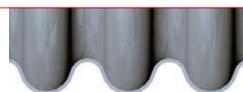


## Overview of types of corrugated hoses/tubes

### Cats Tube

A parallel-corrugated tube is easy to be bent and after forming it holds its shape. It can be used for connection of gas and fluid media. As a montage system it is possible to make endings at the place of assembly.  
Dimension: DN8 – DN50

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### Hose type WS – line 100

A universal highly flexible hose compensates the repeated movement. It serves as the internal hose by gas hoses. It has very wide range of use.  
Dimension: DN6 – DN50



### Hose type WS – line 200

It is a hose with bigger pitch between the wells suitable for solar system pipework.



### Hose type WS – line 300

Hose with thicker wall that can compensate repeated movements. It is convenient especially for the production of heat exchangers.



## Optional accessories for the tubes and hoses

### Coating

A strongly adhered plastic overlay on a tube or a hose (for dimensions from DN6 to DN23).

- it increases the chemical resistance, it protects from contamination of surface
- it protects from a contact with other metals
- the connection is distinguished with the color
- ⊖ it decreases the max. working temperature to +100°C



### Protective sleeve (G-sleeve)

Loosely pulled a protective plastic element on the hose or the tube.

- mechanical protection (especially from abrasion)
- the connection is distinguished with the color
- ⊖ it decreases the max. working temperature to +100°C



### Braiding

A wire braiding is firmly connected with the endings of the hose by pressing, brazing or welding (considered only for hoses type WS)

- it increases the working pressure of a hose
- it protects from lengthening of a hose owing to inside pressure
- basic protection from abrasion
- it increases the max. static bending radius of a hose



### Protective hose (M-sleeve)

It is produced from spirally winded metal bend (only for hoses type WS).

- it increases the mechanical resistance
- it protects from pressure, twisting, pulling and breaking (strong limitation of min. bending radius of a hose)
- it protects from abrasion
- it protects from any other effect
- ⊖ it increases the max. static bending radius of a hose



### Protective spiral

A protective spiral has to be combined with a braiding (only for hoses type WS). The spiral is connected to the hose by welding.

- it increases the mechanical resistance of a hose by the ending, where the highest dynamical straining of the hose is supposed
- it protects from abrasion



### Insulation

It is possible to put the thermal insulation for the purposes of connection of temper media. It can be put on a hose or a tube by a producer or by a user himself.

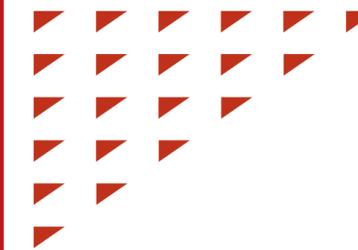


## AZ – Pokorný

In 1993 a firm arose under the name AZ - Pokorný with orientation on the sale of industrial hoses and accessories. After three years of successful cooperation with the German company AZ Industrietechnik GmbH, in 1996, a joint venture AZ - Pokorný, s.r.o. was founded. This new firm started its own production of gas hoses. Common activities were based on experience of the German partners in the development and production, further on deliveries of quality materials and components, on the Czech part then on suitable realization possibilities.

Present time

Today is the company AZ – Pokorný, s.r.o. dynamically developing company with its own developing working place, quality personal and material base. We specialize on the products for connection of gas, water and solar systems. We offer the wide range of products - starting by gas hoses, going through the tubes from system CATS till the safety fittings and fuses.



## Technology and possibilities of production

During a short time the possibilities of production have increased - from a production of gas hoses till the ability to meet the technologically very complicated solutions. A focus is made not only from the series production but also from a delivery of a complex of individual solutions. The technological background of the company is a pillar of our abilities leading to quality production.

**AZ** POKORNY

**AZ** POKORNY

# Product range AZ – Pokorný

## Gas hoses

A gas hose is designed for the transport of heating gases between the house gas appliance and the gas fitting (gas distribution system). All types are designed in accordance with EN 1775.

- ▶ WS-Uni - a single-lay hose with plastic coating suitable also for a water (even for a drinking water).
- ▶ VA/VA-CE - a gas hose of the highest level of quality and safety with a resistance against a mechanical damage. Designed in accordance with EN 14800.
- ▶ WS-CE - a gas hose of the highest level of quality, safety and flexibility. Designed in accordance with EN 14800.

These hoses can be fitted with fixed or swivel threaded endings, eventually endings with handle for fitting type 657.



## Gas boilers applications

Cats tubes are suitable for mounting of gas boilers thanks to its universality (for water and gas). Easy pliability by hand makes an assembly very simple (there is no need of shaped fittings and number of joints is minimized). Alternatively a WS hose or a gas hose can be used.



## Heat pumps applications

A WS hose excellently compensates repeated movements, vibrations and heat dilatations. These hoses can be fitted with almost any kind of endings upon customer's request. The basic dimension range is from DN6 up to DN50.



## Excess flow fuse type GST

An excess flow fuse GST serves as the safety for gas distribution systems in case of the accidental damage (outflow) of distribution system behind the fuse. The GST fuse is activated and closes the gas flow, if the flow overreaches a limited level (depends on a fuse construction), for example in case of the pipe damage behind the fuse. GST fuses are available in threaded variants as well as integrated in the ball valve.



## Thermal fuses type TGSA

A thermal (fire-policy) fuse TGSA serves as the safety of the gas appliance in case of fire. The fuse reliably closes the gas flow, when temperature reach 96°C (± 3 °C). It has the ability to withstand temperature of 925°C during 60 minutes as minimum. The risk of gas-escape or possible explosion is minimized during this time. Fuses are available in threaded and flanged variants as well as integrated in the ball valve.



## Gas distribution pipework

An outdoor and indoor pipework can be built from Cats tubes. This tube system is certificated for gas pipelines with MOP up to 5bar with welded or soldered endings and up to 0.5bar with pressed endings. Pressed endings can be made at the place of the assembly using a hand presser Cats. These tubes can be fitted with yellow coating (PVC), which increases its chemical resistance. The special subset beside the standard system is made by elements for the gas pipework in accordance with EN 15 266. These tubes are compulsorily coated with the PVC overlay. Elements of systems in accordance with EN 15 266 are marked with Cats-CE.



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## Water distribution pipework

A pliable stainless steel Cats tube system is suitable for construction of a complete house water pipework as well as for the assembly of basin taps, boilers, WC etc. It can be also used for repairs of existing pipelines. The system is certificated for the drinking water pipework. The basic idea of this system is to construct a pipework simply and exactly according to the customer's need at the place of the assembly.



## Fire sprinkler system applications

Cats tubes are ideal for the assembly of fire sprinkler heads thanks to its material, long durability, flexibility and low weight. Accessories like a bearing plate or square pipe raster make mounting and fixing of the tube sprinkler head into a suspended ceiling very simple.



## Flexible joints of solar panels

A WS hose is suitable for joints that should compensate heat dilatations on a short distance. Such joints can be fitted with plain or threaded ends or with special fittings.



## Solar system pipework

Cats tubes provided with a thermal insulation are ideal for the solar system, cooling and heating pipework. The practical assembly accessories offer an easy fixing of the pipework to the building constructions.



## Flexible joints for convectors

A flexible joint from a WS hose enables the convector to be lifted up (in case of cleaning/maintenance) without any disassembly. WS hoses can be provided with a protective PVC coating for higher resistance against chemical and mechanical impacts.



## Gas appliances

A gas heater and a natural gas grill type EFI make your free time more pleasant at a restaurant or house garden. These appliances use natural gas, so there is no need to burden with gas bottles.



## Flexible joints for gas-meters and gas pressure regulators

The main advantage is to bend the Cats tube by hand at the place of the assembly. Cats tube joints for the gas pressure regulators can be fitted with union nuts, elbows or male threads. A polypropylene M-sleeve is used to protect the tube against impacts of mechanical forces.



## Heat exchangers

Thanks to a thin wallthickness is the Cats tube suitable for heat exchangers. Forming into an exchanger is also faster and easier compared with a common plain tube.

