

# PP SPIROPIPE pipes

## Technical Datasheet

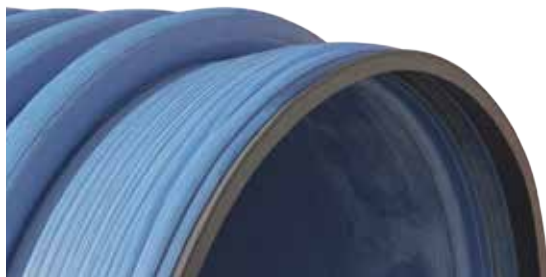
### Application

Peštan SPIROPIPE Spiral Tube System is designed for gravity drainage:

- Household water
- Industrial waters
- Rainwater
- Mixed wastewater

### Product description

Peštan spiral SPIROPIPE PP are two-layer corrugated pipes made of polypropylene. They consist of an inner smooth wall and an outer corrugated spiral wall. The pipe is produced by winding a profiled outer layer (reinforcement) with a corrugated profile on a smooth inner layer that is extruded and welded continuously. The outer layer consists of a high-strength ribbed hose coated with polyethylene or polypropylene, and the inner layer consists of polypropylene. The presence of a profiled hose in the outer layer significantly improves the strength of the pipe itself. The production technology enables different steps (profiles) when winding the profiled outer layer, which provides different pipe strengths. For this reason, PEŠTAN spiral pipes can be produced in different strength classes.



### Product program

SPIROPIPE PP SPIRAL pipes are produced in several variants of strength (resistance) to external loads (depending on the steps of the profiled outer layer for reinforcement, as well as depending on the diameter of the pipe).

They are produced from SN2 to SN32 in a standard length of 6 m.

The pipes are defined by the inner diameter (clear opening), and the outer diameter varies depending on the load class to which they belong (SN).

The connection method is a muff with an rubber.

Production program of SPIROPIPE pipes and strength class.

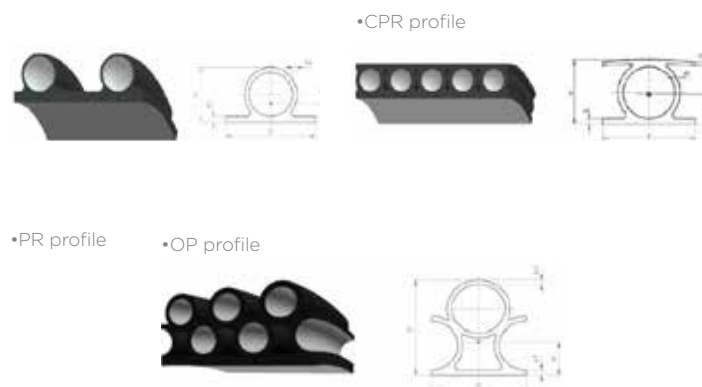
DN (mm)	Material	Connection method	Class of stiffness
300	PP	Muff and rubber	SN2 -SN32
400	PP	Muff and rubber	SN2 -SN32
500	PP	Muff and rubber	SN2 -SN32
600	PP	Muff and rubber	SN2 -SN32
700	PP	Muff and rubber	SN2 -SN32
800	PP	Muff and rubber	SN2 -SN32
900	PP	Muff and rubber	SN2 -SN32
1000	PP	Muff and rubber	SN2 -SN32
1100	PP	Muff and rubber	SN2 -SN32
1200	PP	Muff and rubber	SN2 -SN32

### Types of profile pipes

PEŠTAN currently offers its customers three basic pipe profiles:

- PEŠTAN SPIRO PR
- PEŠTAN SPIRO CPR
- PEŠTAN SPIRO OP

Depending on the design need and the desired circumferential stiffness, these three profiles can be further modified by adding more levels of reinforcement and modifying the diameter of the reinforcement pipe. The goal is a complete modification of the pipe for the needs of the project with a full guarantee of quality. The load-bearing capacity of the pipes depends on the pitch of the spiral and on the type of profile. Regardless of the pipe load class (SN2-SN32) or the type of profile, the internal (bright) opening of the pipe remains unchanged.



## Mechanical and physical characteristics

### PHYSICAL PROPERTIES OF MATERIALS

#### • Impact resistance

High impact resistance even at low temperatures, which is a feature of these materials, guarantees the compactness and strength of products that are made entirely of the highest quality materials. The reference procedure for determining the impact resistance is EN 744.

#### • Hydraulic characteristics

The internal diameters and hydraulic characteristics of PEŠTAN spiral pipes SPIROPIPE PP remain the same over time, regardless of the type of profile, thanks to the greatly reduced roughness and low adhesiveness of the inner walls of the pipe. The nominal diameter corresponds to the inner diameter of the pipe, with tolerances according to the reference norms

#### • UV resistance

Blue polypropylene pipes are partially resistant to UV radiation, they can be stored outside, but for a limited period of time (up to 6 months).

#### • Temperature resistance

Polypropylene pipes are resistant to temperatures up to 95 °C for a short time, and up to 60 °C for a long time.

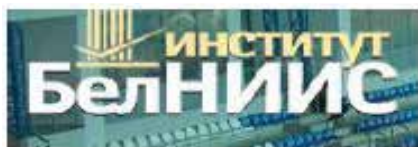
## Chemical resistance

PEŠTAN SPIRAL pipes SPIROPIPE PP are resistant to salt water, alcohol, acids, alkalis, sulfates, aggressive gases and all types of detergents.

On the other hand, they cannot be used for shipping water that has a high percentage of benzene, gasoline, oil or acetone.

## Technical Assistance

Our technical and engineering team is supported and advised by European institutes. For more information about products please contact PEŠTAN technical support or regional salesman.



BELNIIS - Belarus



KIWA - Netherland



VUPS - Czech Republic



BELNIIS - Belarus



IMS - Serbia



GOST R - Russia



MPA - Germany



IGH - Croatia