

# QCX<sup>®</sup> PSP PNEUMATIC CONVEYING SAMPLER

The PSP Sampler is designed for spot and continuous sampling of materials from pressurized pneumatic conveyors otherwise inaccessible for sampling. It is suited for fine powder samples, as well as granular flowable bulk materials with a grain size up to 1 mm and a maximum temperature of 120°C.

This increases its ability to produce highly representative samples when compared to bulkier options. It's enables sampling in the pneumatic conveying system with maximal pressure 0,6 MPa.

It is easy for operators to use and keeps them away from the sampling location, protecting them from exposure to the harsh plant conditions.

## ADVANTAGES

- **Highly representative sampling:** correct installation and optimal positioning is easily achieved thanks to the compact size. This allows you to consistently achieve representative sampling.
- **Automation:** the sampler seamlessly integrates with your automated QCX system to maximise your sampling accuracy and efficiency.
- **Flexibility:** The sampler is connected with the cyclone by flexible hose. This allows possibility of various installations.

# COMPACT AND VERSATILE TO SUIT ANY SETTING

## How it works

The sampling procedure has two steps:

(1) The sampling tube moves through area of the material stream in the conveying pipe. The sampled material flows through the sampling tube to the cyclone.

After sampling procedure the sampling system is cleaned by fresh pressure air.

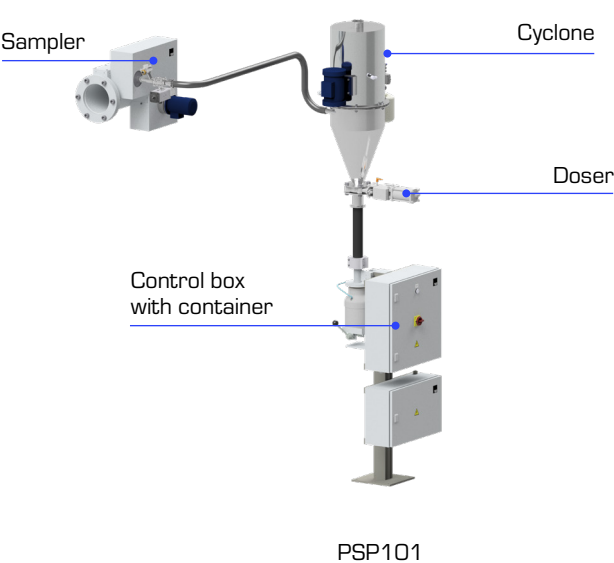
(2) Discharging of the cyclone - the sampling tube is in the basic position and it is closed by the closing head.

The sampler can prepare average or spot samples, manually or automatically. The sampled material falls down the connected sample chute into the sample container, or for a solution with mixer, into the mixer. The material from mixer is subsequently collected in a plastic container or goes through a dosing unit into an automatic sending station.

## Possible configurations

### Automated pneumatic conveying sampler with manual sample collection - SPOT (PSP101)

The Sampler can be used for manual sample collection whereby designated sample containers are provided for ease of use.



### Automated pneumatic conveying sampler with sending station (PSP102 + PTS102)

Automatic sample collection is possible to save time and to streamline process control. This is achieved via integration with a mixer and an automatic sample transport sending station. Excess material returns via a pneumatic return conveyor.

## Specification

Sampler (pipe) diameter	150 - 300 mm
Sample material	Dry, non-sticky, up to 120°C, top size 1 mm
Pressure in conveying pipe	max. 0,6 MPa
Sample type	Spot and incremental sample
Sample frequency	< 60 incremental samples / hour
Compressed air supply	0.6 – 1.0 MPa (Quality 2.4.2 as per ISO 8573-1)
Power supply	3 x 380 – 500 V; 50/60 Hz
Operating conditions	Temperature : -10°C to 40°C (optional -20°C to 50°C) Humidity: 0 – 100 %
Weight	Approx. 180 kg
Dimensions (W x D x H)	730 x max. 700 x max. 600

