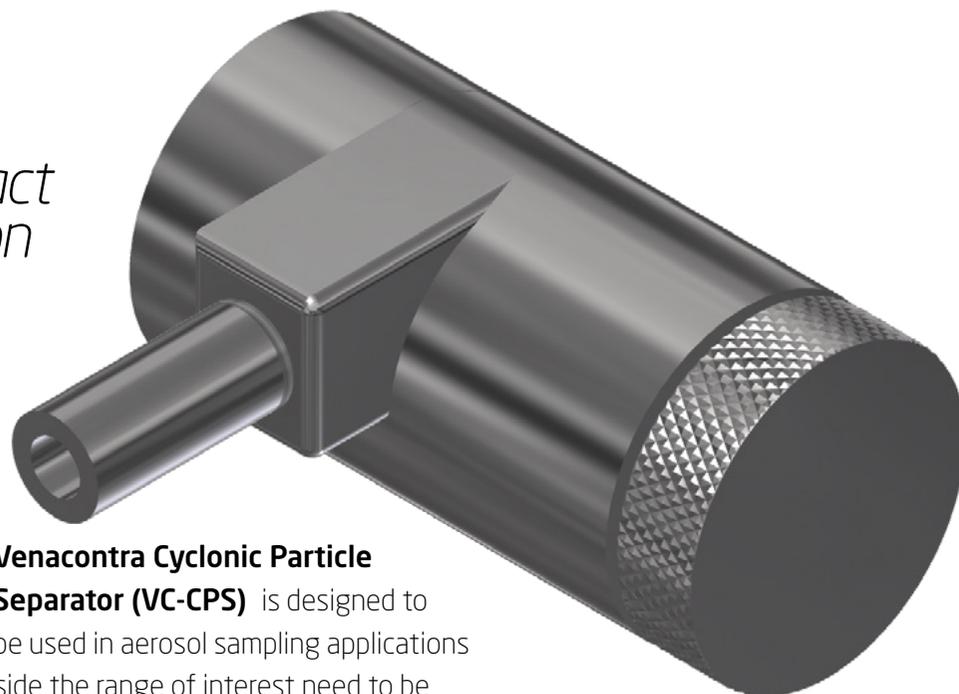


# VENACONTRA CYCLONIC PARTICLE SEPARATOR

”” *Compact solution*



## VC-CPS

**Venacontra Cyclonic Particle Separator (VC-CPS)** is designed to be used in aerosol sampling applications

where coarse particles outside the range of interest need to be excluded from measurements or collection. The cyclone offers a compact solution for the separation of large particles from the aerosol sample. Furthermore, the cut-off size can be selected through adjustment of the sample flow rate. The device causes low pressure drop and enables a steady, long-term operation.

In the cyclonic particle separator, the sample flow is directed into a spiral flow path where heavier particles are forced to the outside, and subsequently collide with the walls of the cyclonic chamber. The sample flow with the remaining smaller particles then continues along the axis of the device to particle analysis or collection.

”” *Remove coarse particles*

**DILUTING** is often one of the most crucial parts of the aerosol sampling and measurement systems. For most aerosol measurement setups, the target of the aerosol dilution system is to dilute and cool the sample suitable for the used analysers and to preserve the sample as unbiased as possible.

THE VENACONTRA DILUTING SAMPLING SYSTEMS are designed to achieve these goals. They provide stable and adjustable flow rates and a well-conditioned dilution and mixing process, which is essential in having desired sampling conditions with minimal sampling artefacts.

## Reliable sampling

**Venacontra is a Finnish company in the field of aerosol technology. We provide diluting aerosol sampling systems for various aerosol environments. We have decades of expertise in combustion processes, nanomaterial synthesis and aerosol sampling systems. We provide customised solutions and expertise for designing your sampling set-ups.**

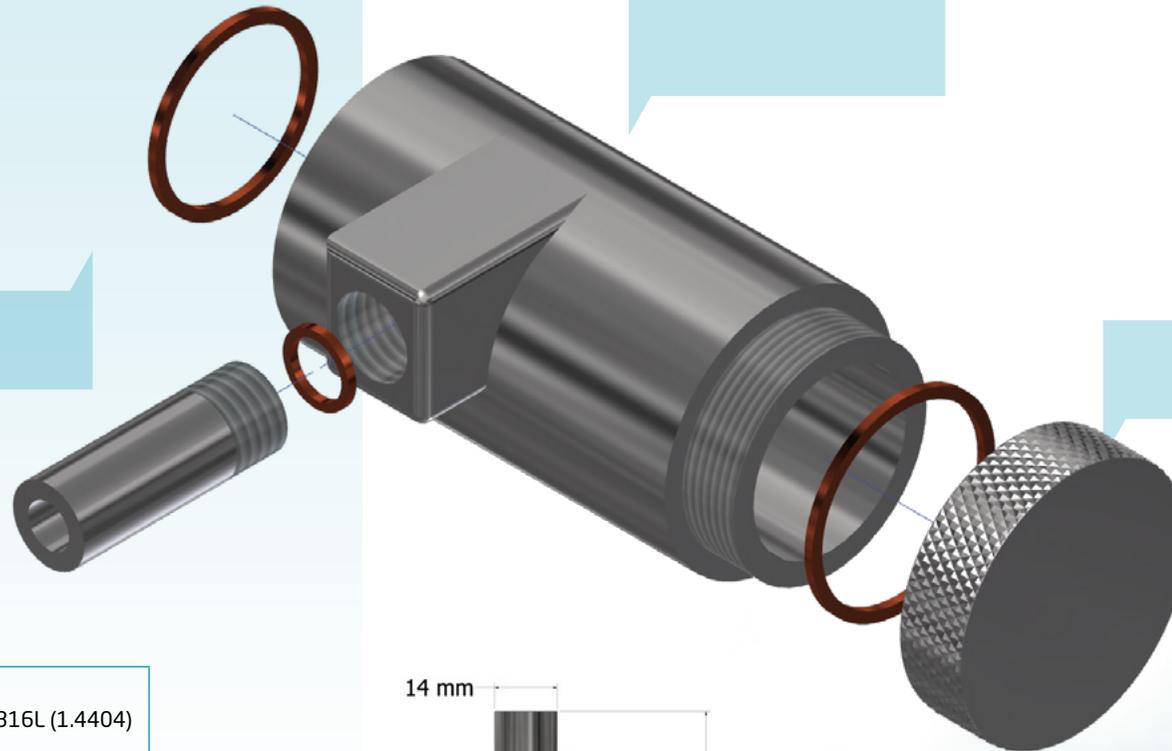
See more and contact us on our website  
[www.venacontra.com](http://www.venacontra.com)



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# Venacontra Cyclonic Particle Separator (VC-CPS) Technical description

  
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Reliable sampling  
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<b>Material</b>	
Body	Stainless steel 316L (1.4404)
Seals	Copper
<b>Inlet</b>	
Basic (optional isokinetic)	14 mm (changeable inlet with thread)
<b>Outlet</b>	Thread connection
<b>Maximum temperature</b>	400°C
<b>Dimensions</b>	
height	90 mm
max. width with nozzle	100 mm
diameter	45 mm
<b>Weight</b>	0.8 kg

