

MULTOTEC

VV Cyclones



Your Specialist in Process Equipment



VV Cyclones

The VV range of hydrocyclones offers the client the most cost-effective solution for most fine cut-point classification applications.

Utilising a compound with a remarkable resistance to abrasive environments, the injection-moulded VV Cyclone is very durable and keeps running costs to a minimum, while reducing lead times.

The VV Cyclone offers:

- Lightweight construction that ensures ease of handling at all times
- Bolt-on characteristic that makes replacement and maintenance easy
- High resistance to abrasion that prolongs operating lifespan
- Interchangeability of parts, allowing different materials of construction for regions of high wear in the cyclone

Improved Design Features

Inlet Design

Through extensive testing and simulations, Multotec has proven that the scrolled evolute inlet design has the following advantages:

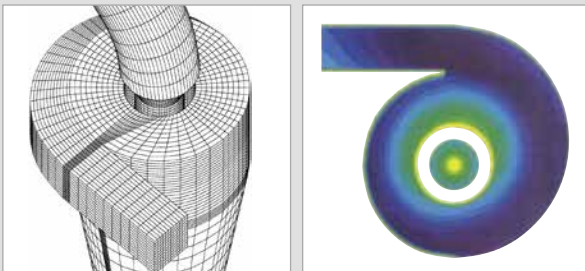
- By allowing the particles to follow their natural downward spiral as a result of the scroll on the inlet, both wear and turbulence are reduced, thereby increasing the wear life of the inlet. This design also maximises the vortex finder lifecycle.
- Due to lower turbulence in, and lower pressure drop across, the inlet head, the cyclone has a higher capacity than other inlet designs.
- The smooth evolute entry into the inlet allows the particles to align themselves as they move into the cyclone before being subjected to the centrifugal action of the cyclone. This alignment results in a more efficient separation process within the cyclone.

Materials of Construction

The injection moulds make it possible to use special materials of construction with high temperature, wear and chemical resistance for cyclones smaller than 165 mm diameter.

High Pressure Operations

The new special inserts make it possible to extend the operating pressure range without significant cost increase.



Computational Fluid Design of Cyclone Inlets



VV Cyclones in a Cluster

Clamping

All parts are assembled with galvanised steel backing flanges, steel clamps or our new lightweight polyethylene profile clamps.

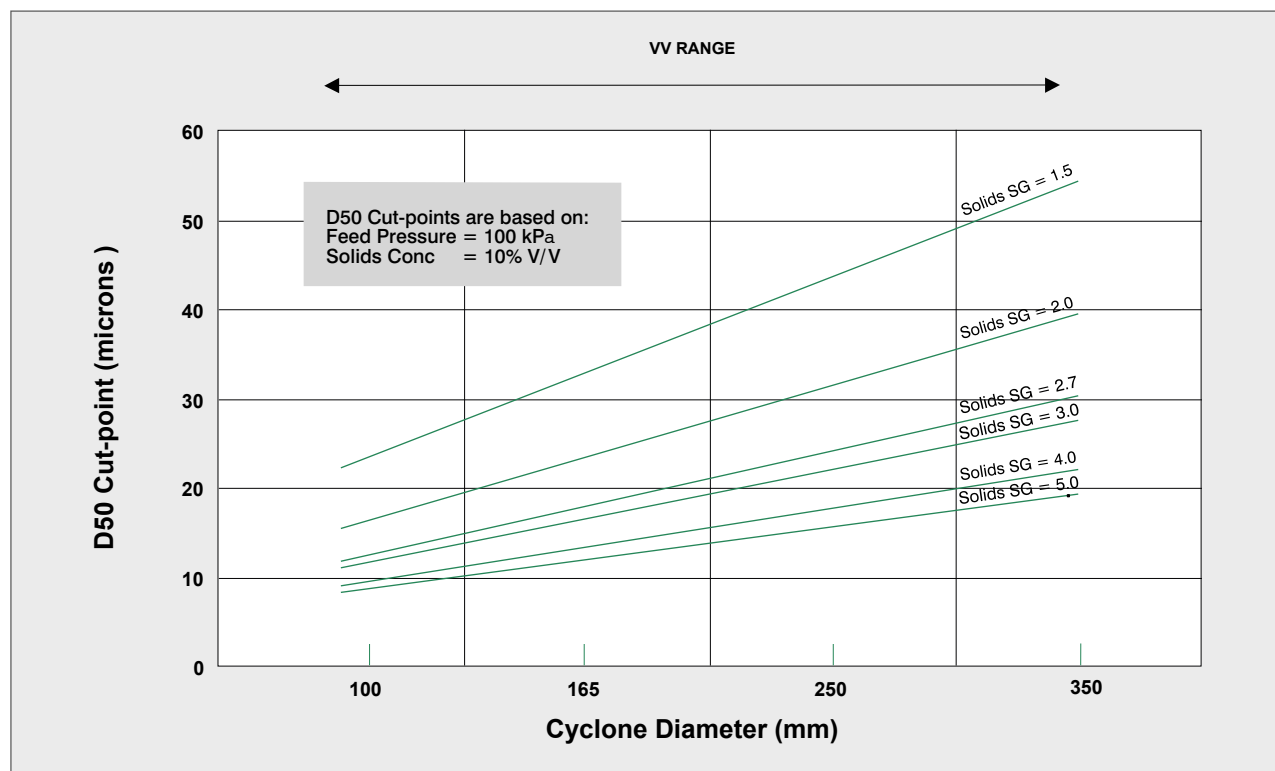
Cone Extension

The original cone extension design provides the housing for the spigot, with a larger internal diameter than that of the spigot.

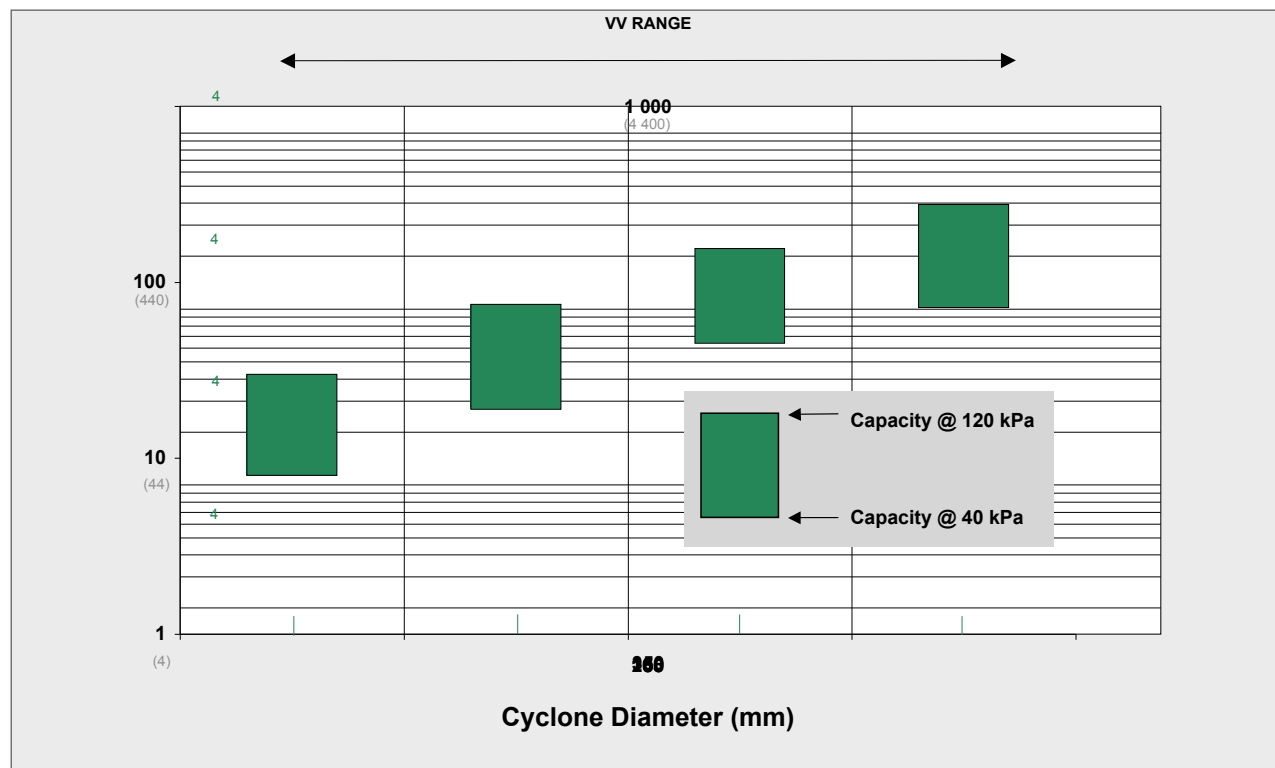
Threaded Cone Design

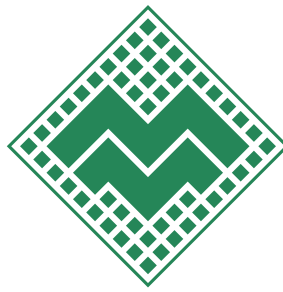
The threaded cone design is also available, which enables easy spigot removal and replacement without the need for any tools. Simply loosen the spigot cap, remove the spigot and replace.

Cut-point ranges for the VV Cyclones



Capacities of the VV Cyclones





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Multotec products are subject to continuous development and Multotec reserves the right to make changes to the specifications and design of its products without prior notification.