Coalescing Cartridges

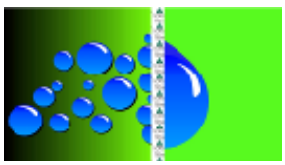
VoTech® filter

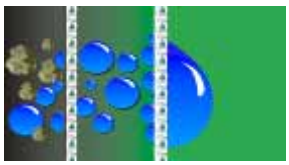
SoloToV®
DuoToV®
MicroToV®

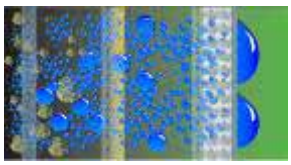
SoloToV® series of coalescing cartridges are suitable for the separation of condensates from wet gases combined with the removal of fine solid particles. VoTech® developed another variety of this type: a cartridge coalescing extreme fine oil mist in the sub-micron range into recoverable liquids.

DuoToV® coalescing filter cartridges are excellent for cases where both condensate and particle separation from moist gases are required. An integrated pre-filter effectively separates solid particles, thus considerably increasing the cartridge lifetime.

MicroToV® third generation coalescing filter cartridges to remove fine oil mist, condensate and solids from moist gases. A special micro layer for conditioning oil mist in the gas stream is integrated in this cartridge. Like the DuoToV®, an integrated pre-filter effectively separates solid particles.







SoloToV®

A major feature of the SoloToV® coalescer element is the large amount of borosilicate glass fibers that are wound around the cores. A cotton sock outside is provided as standard, this outer layer drains the coalesced liquid.

DuoToV®

In order to achieve a dual function with one element, it is constructed of a combination of cellulose and multiple layers of borosilicate glass fibres around a stable core. The media is pleated in order to achieve high filtration efficiency at a reduced ΔP

A second core, constructed in expanded carbon steel, surrounds the pleated element. Fibreglass in varying density is wrapped around this core; it is this glass fiber, that acts as the coalescing section of the filter. A cotton sock outside is provided as standard, this outer layer drains the coalesced liquid.

Cores and media are sealed to metal end caps, complete with gaskets by means of a natural gas resistant bonding compound. Alternative: one end mounted on to a resin threaded end cap for use with an aluminium adapter, the other end having a resin cap with a ½" UNC bolt. Standard metal parts are electro galvanized or carbon steel, other materials on request.

Standard flow direction is inside to outside, alternatives on request

The DuoToV® and SoloToV® series coalescing cartridges present an ideal alternative for cartridges applied in filter/separators various manufacturers like Broom, Keen, Facet, Faudi, Filtan, Peco, Peerless, Velcon, etc.

VoTeco® System

VoTeco®, VoTech's waste filter disposal system, meets all of the demands required for safe disposal of industrial filter elements and is now also applicable on **DuoToV®** series of coalescer cartridges. The VoTeco® system offers high efficient filtration with high bursting pressures combined with easy disposability which.

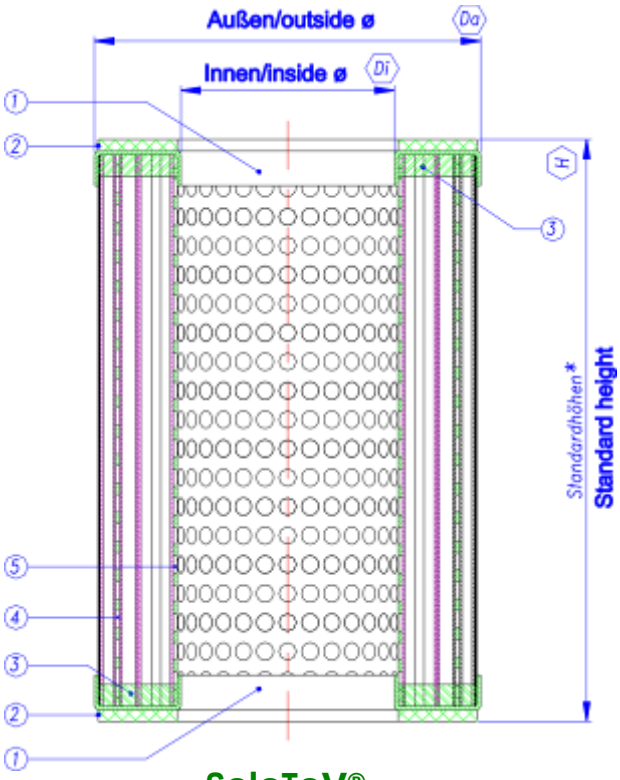
- Optimal filtration quality due to the tension over the filtering medium being maintained, enabling cleaning to be safeguarded
- Fixed seal between the filtering medium and the end caps prevent leakage of the polluted flow by channelling
- Increase in bursting pressure

Through recycling of the metal parts the VoTeco® system prevents the waste of a valuable component. The element is the very heart of the filter, and can now easily be separated from the metal parts for disposal, reducing considerably the volume of the material waste to be scrapped. VoTeco® small and medium size elements will have screwed connection between the metal support and te filter element, larger size cartridges utilize flanged connections.

The cartridges are designed for working pressures up to 120 bar. Depending upon the particular application, flow rates per cartridge will vary widely. All cartridges may be operated either horizontally and vertically.

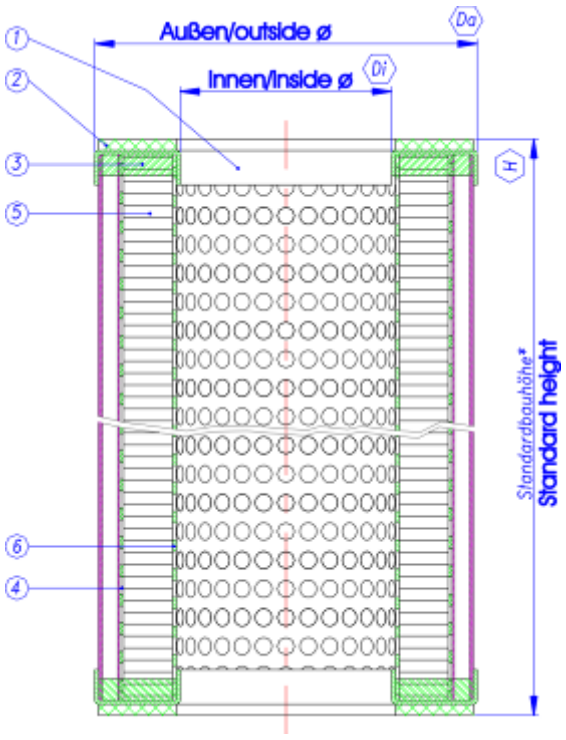
These cartridges can be used in all sectors of industry where high efficient separation of liquids and solids from gases is of crucial importance.

VoTech Filter GmbH



SoloToV®

1 : End cap
2 : Gasket
3 : Bonding compound
4 : Outer core
5 : Inner core

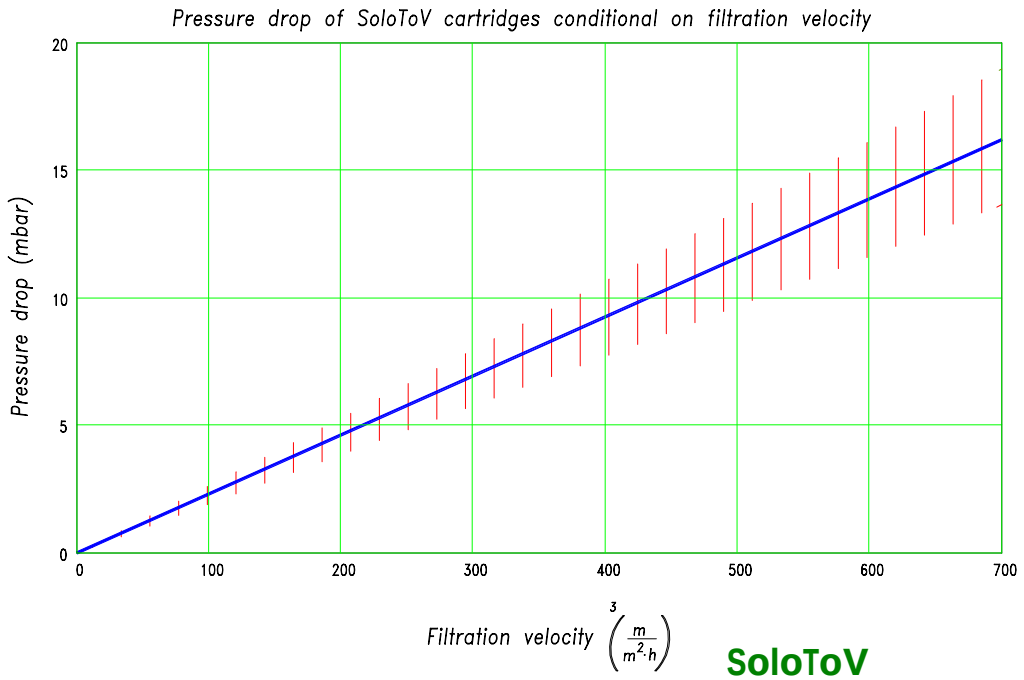


DuoToV®

1 : End cap
2 : Gasket
3 : Bonding compound
4 : Outer core
5 : filtering medium
6 : Inner core

TYPE	code	Dimensions Oø	Iø	H
SoloToV-B 50/400	7.28	112	50	400
SoloToV-B 50/380	7.37	102	50	380
SoloToV 59/914	7.33	85.73	59	914
SoloToV 80/914	7.109	115	80	914
SoloToV 80/1829	7.01	115	80	1829
SoloToV 90/279	7.15	152	90	279
SoloToV 90/355	7.16	152	90	355
SoloToV 90/559	7.02	152	90	559
SoloToV 90/711	7.04	152	90	711
SoloToV 90/838	7.06	152	90	383
SoloToV 90/1100	7.46	152	90	1100
SoloToV 90/1118	7.08	152	90	1118
SoloToV-B 108/920	7.30	140	108	920
SoloToV 107/914	7.32	140	107	914
further dimensions on request				

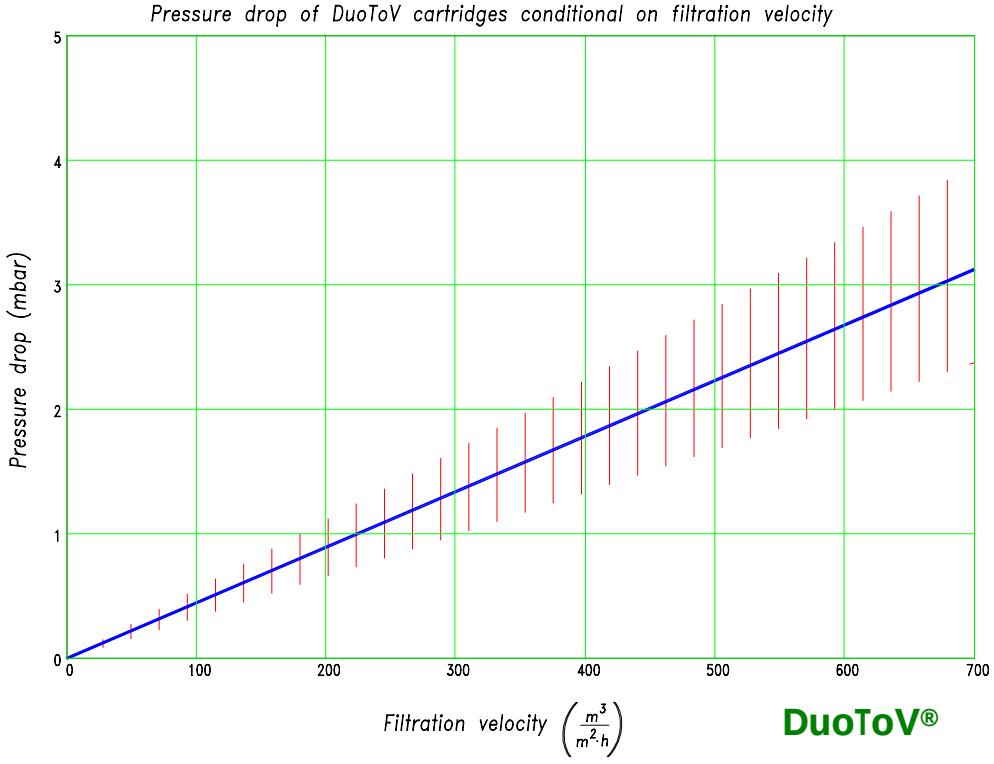
TYPE	code	Dimensions Oø	Iø	H
DuotoV 90/180	7.13	152	90	180
DuoToV 90/279	7.14	152	90	279
DuoToV 90/368	7.10	152	90	368
DuoToV 90/559	7.22	152	90	559
DuoToV K3/559	7.23	146		559
DuoToV 90/600	7.31	152	90	600
DuoToV 90/736	7.11	152	90	736
DuoToV 90/838	7.20	152	90	838
DuoToV K3/838	7.21	146		838
DuoToV 90/1104	7.12	152	90	1104
		152	90	1100
	7.08	152	90	1118
	7.3	140	108	920
	7.32	140	107	914
further dimensions on request				



SoloToV

Differential pressure over a clean cartridge versus filtration velocity (specific load)

The curve is a result of measurements under atmospheric cirumstances (air 1.013 bar, T=20°C)



DuoToV®