

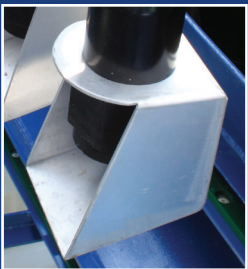


Vortex™ Desilter & Desander Hydrocyclones



Isolation Valves

Hydrocyclone manifolds feature dedicated isolation valves for ease of maintenance and performance during operation.



Screen Saver

Individual desilter and desander cones are fitted with discharge deflection devices that prolong the screen life during operation.



Pressure Gauge

Optimum performance of the hydrocyclone is dependent on correct pressure during operation. Each hydrocyclone manifold has a pressure gauge.

Vortex™ Hydrocyclones

Astec's polyurethane molded hydrocyclones are available in a number of configurations, ranging from 50 gpm (25 lps) systems to 1,800 gpm (114 lps) systems and capable of achieving a solids cut point of 30 to 200 microns, based on cone size. Each hydrocyclone is made of high durameter, durable polyurethane and can be fitted with independent valve isolation, discharge deflection devices, and pressure monitoring systems. For abrasive solids, Astec can also fit our polyurethane hydrocyclones with ceramic liners to maximize equipment life.

Astec's hydrocyclones are designed to provide maximum separation efficiency when the inlet head is 75 feet. Fluid will always have the same velocity within the cone if the same head is delivered to the cone inlet.

Whether using a dedicated manifold or combined with a shale shaker, Astec's line of hydrocyclones deliver performance when needed.



Description	Cone Size (Inches)	Target Flow Rate (GPM)	Maximum Cut (Microns)
Desilter	4	50 to 65	30 to 75 μm
Desilter	5	75 to 85	80 to 100 μm
Desander	10	400 to 500	90 to 120 μm
Desander	12	500 to 600	≥200 μm

Vortex 10™ & Vortex 12™ Desander Options

Model	# of Cones	Flow Rate Capacity	
ESS-DSN-110	One 10" Cone	400 to 500 gpm	25 to 32 lps
ESS-DSN-210	Two 10" Cones	800 to 1,000 gpm	50 to 64 lps
ESS-DSN-310	Three 10" Cones	1,200 to 3,000 gpm	150 to 96 lps
ESS-DSN-112	One 12" Cone	500 to 600 gpm	32 to 38 lps
ESS-DSN-212	Two 12" Cones	1,000 to 1,200 gpm	64 to 76 lps
ESS-DSN-312	Three 12" Cones	1,500 to 1,800 gpm	96 to 114 lps

Vortex 4™ & Vortex 5™ Desilter Options

Model	# of Cones	Flow Rate Capacity	
ESS-DSL-10-240	Ten 4" Cones	500 to 650 gpm	31.5 to 41 lps
ESS-DSL-12-240	Twelve 4" Cones	600 to 780 gpm	37.8 to 49.2 lps
ESS-DSL-16-240	Sixteen 4" Cones	800 to 1,040 gpm	50.4 to 65.6 lps
ESS-DSL-20-240	Twenty 4" Cones	1,000 to 1,300 gpm	63 to 82 lps
ESS-DSL-10-250	Ten 5" Cones	750 to 850 gpm	47 to 53.6 lps
ESS-DSL-12-250	Twelve 5" Cones	900 to 1,020 gpm	56.8 to 64.3 lps
ESS-DSL-16-250	Sixteen 5" Cones	1,200 to 1,360 gpm	75.7 to 85.8 lps
ESS-DSL-20-250	Twenty 5" Cones	1,500 to 1,700 gpm	94.6 to 107.2 lps