

Numerical study of foulant-water separation using hydrocyclone device: Effect of underflow pipe diameter

Separation and Purification Technology

215, 10-24

DOI: [10.1016/j.seppur.2018.12.081](https://doi.org/10.1016/j.seppur.2018.12.081)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Numerical Investigation of Hydrocyclone Feed Inlet Configurations for Mitigating Particle Misplacement. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 16823-16833.	3.7	31
2	CFD simulation of hydrocyclone-separation performance influenced by reflux device and different vortex-finder lengths. <i>Separation and Purification Technology</i> , 2020, 233, 116013.	7.9	33
3	Optimization of shaft-seal water system of cutter suction dredger based on high-efficiency centrifugal separation technology. <i>Separation and Purification Technology</i> , 2020, 236, 116267.	7.9	11
4	Sediment-Containing Sewage Separation Using Intermittent-Discharge Columnar Hydrocyclones. <i>Water (Switzerland)</i> , 2020, 12, 2883.	2.7	1
5	Response surface method to study the effect of conical surface and vortex-finder lengths on de-foulant hydrocyclone with reflux ejector. <i>Separation and Purification Technology</i> , 2020, 253, 117511.	7.9	9
6	Effects of Reservoir Parameters on Separation Behaviors of the Spiral Separator for Purifying Natural Gas Hydrate. <i>Energies</i> , 2020, 13, 5346.	3.1	8
7	Experimental study of de-foulant hydrocyclone performance with a conical surface. <i>Powder Technology</i> , 2020, 366, 283-292.	4.2	6
8	Enhancement of pollutants hydrocyclone separation by adjusting back pressure ratio and pressure drop ratio. <i>Separation and Purification Technology</i> , 2020, 240, 116604.	7.9	23
9	An efficient approach to temporarily separate foulants using hydrocyclone with reflux function for thermal energy recovery from sewage. <i>Separation and Purification Technology</i> , 2021, 259, 118130.	7.9	7
10	High Concentration Fine Particle Separation Performance in Hydrocyclones. <i>Minerals (Basel)</i> , Tj ETQq1 1 0.784314,rgBT /Overlock 10	2.5	8
11	Numerical analysis of flow field and separation characteristics in an oilfield sewage separation device. <i>Advanced Powder Technology</i> , 2021, 32, 771-778.	4.1	7
13	A review of treatment technologies for produced water in offshore oil and gas fields. <i>Science of the Total Environment</i> , 2021, 775, 145485.	8.0	110
14	Research on the structure of the cylindrical hydrocyclone spigot to mitigate the misplacement of particles. <i>Powder Technology</i> , 2021, 387, 61-71.	4.2	19
15	Analysis of Hydrocyclone Geometry via Rapid Optimization Based on Computational Fluid Dynamics. <i>Chemical Engineering and Technology</i> , 2021, 44, 1693-1707.	1.5	8
16	Energy and Economic Analysis of the Hydrothermal Reduction of CO ₂ into Formate. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 14038-14050.	3.7	4
17	Purification of granular sediments from wastewater using a novel hydrocyclone. <i>Powder Technology</i> , 2021, 393, 751-763.	4.2	18
18	The influence of height-to-width ratio of feed inlet on flow field characteristics and separation performance of the hydrocyclone with spiral inlet. <i>International Journal of Coal Preparation and Utilization</i> , 2022, 42, 1597-1614.	2.1	2
19	Particle image velocimetry for investigating the effect of liquid rheology on flow field of liquid-solid hydrocyclone. <i>Separation Science and Technology</i> , 2022, 57, 1992-2003.	2.5	1

#	ARTICLE	IF	CITATIONS
20	Effect of Internal Vortex-Finder on Classification Performance for Double Vortex-Finder Hydrocyclone. Separations, 2022, 9, 88.	2.4	3
21	Influence of taper angle on the inner field and separation performance of a hydrocyclone. International Journal of Coal Preparation and Utilization, 0, , 1-17.	2.1	0
22	Effects of different cylinder roof structures on the vortex of cyclone separators. Separation and Purification Technology, 2022, 296, 121370.	7.9	16
23	Effect of back pressure on the separation performance of a hydrocyclone. Powder Technology, 2022, 409, 117823.	4.2	6
24	Structural optimization and separation characteristic of a separating device for three phases: Oil, water and solid. Chemical Engineering Research and Design, 2023, 171, 200-213.	5.6	2
25	Experimental Study on the Separation Performance of an Intermittent Discharge Concentrated Hydrocyclone. Separations, 2023, 10, 161.	2.4	0
26	Effect of cone section combination form on the separation performance of a biconical hydrocyclone. Powder Technology, 2023, 419, 118325.	4.2	3
27	Structural Optimization of High-Pressure Polyethylene Cyclone Separator Based on Energy Efficiency Parameters. Processes, 2023, 11, 691.	2.8	0
28	Structural Design and Performance Analysis of Three-Phase Hydrocyclones (3PH). Separation and Purification Reviews, 0, , 1-23.	5.5	2
29	Separation performance of hydrocyclone oil removal device influenced by oil droplet trajectory and oil drop characteristics. Science Progress, 2023, 106, .	1.9	0
30	Numerical Study on the Separation Performance of Hydrocyclones with Different Secondary Cylindrical Section Diameters. Processes, 2023, 11, 2542.	2.8	1