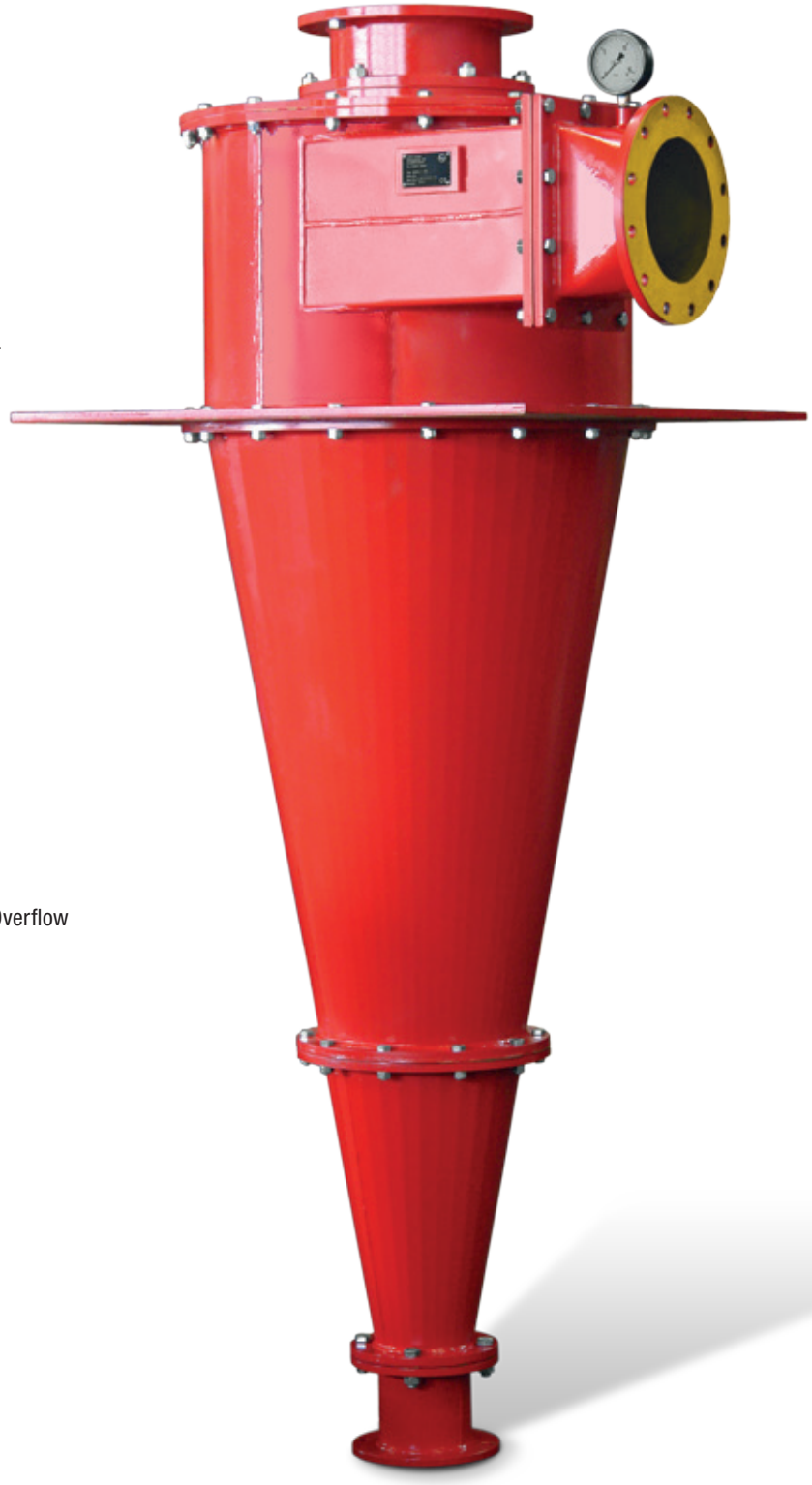
PUMPEN UND MASCHINEN GMBH

HYDROCYCLONE HEPU-Z

DATA SHEET

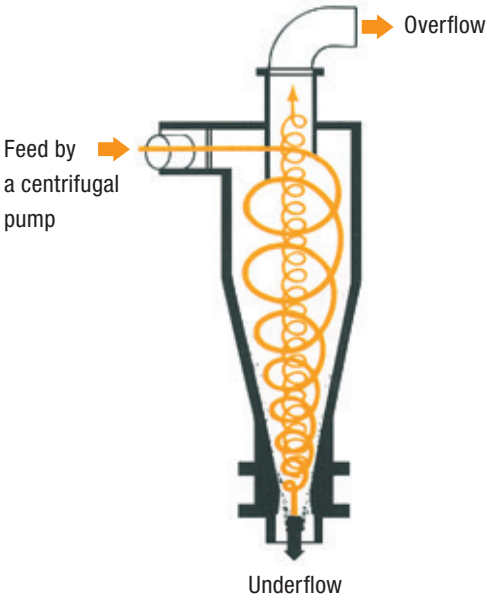
02 I 2015



RANGE OF APPLICATION

The hydrocyclone is a classifying device of simple construction. It is used for solid-fluid-separation in many areas of application. Through the appropriate inlet pressure, produced by an upstream centrifugal pump, the solid particles in the suspension are separated on the basis of their weight difference from the fluid. Thus you receive an overflow that is almost clear. The outsize tolerance in the overflow lies between 1% and 5%. Normally HEPU container pumps with recirculation equipment are used. Thereby a continual in feed of the hydro-cyclone is achieved.

MODE OF ACTION



MADE IN GERMANY

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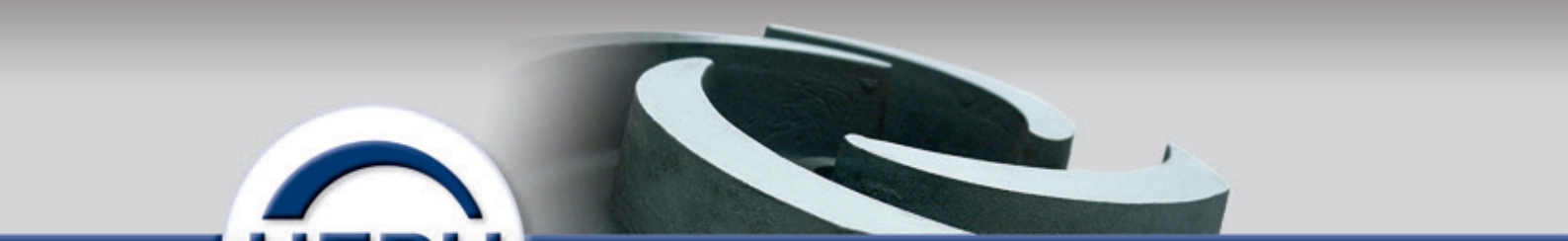

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HYDROCYCLONE HEPU-Z

USE

The main use of hydrocyclones is the fine sand retrieval in sand and gravel mines. All of the washing water from the underflow of the processing machines is fed to the hydrocyclone by centrifugal pumps. Through a correct design of the cyclone system a selected cross-cut is achieved, and with it an economic extraction of fine sand is enabled. The proportion of fine sand extracted is drained either by a bucket wheel or drainage screen.

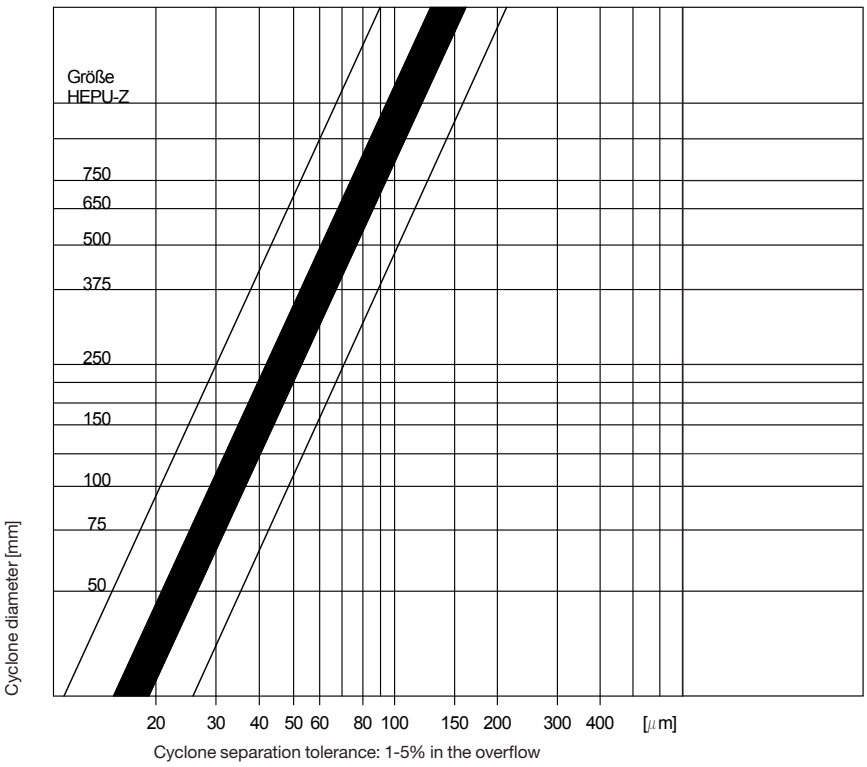
With the hydrocyclone cross-cuts of 10 µm to 300 µm are achieved. With clarified impurities less then 10 µm are used by HEPU's own round thickener. For that, 5 standard clarifiers are available. The maximum pulp quantity is 720 m³/h.

COAT

Finish-coat according to RAL 3000

PERFORMANCE DIAGRAM

CROSS-CUT DEPENDENT ON CYCLONE DIAMETER



DIMENSIONING OVERVIEW

TYPE HEPU-Z	Feedstock [m³/h]			Overflow	Solid (10 %)	Underflow
	0,6 bar	0,8 bar	1,2 bar	Ø [mm]	[t/h]	Ø [mm]
100	6	8	10	25	1 - 2	18
150	15	20	25	50	2 - 4	18
250	40	50	60	75	6 - 8	30
375	80	96	120	110	12 - 18	40
500	195	205	270	190	20 - 40	50 - 60
650	280	350	400	250	35 - 50	60 - 70
750	510	570	610	280	50 - 60	75

(accurate data must be calculated in individual case)

SUBJECT TO TECHNICAL CHANGES

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