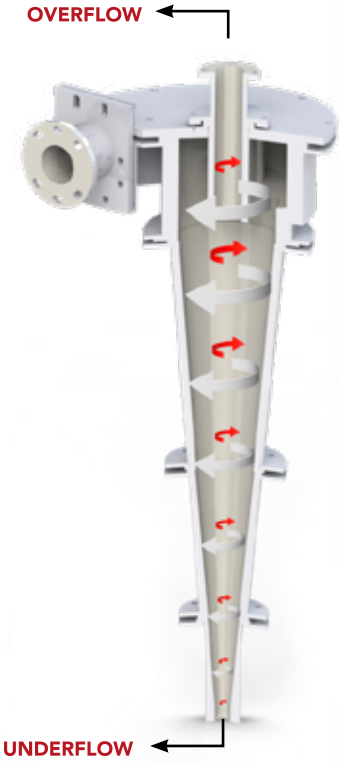
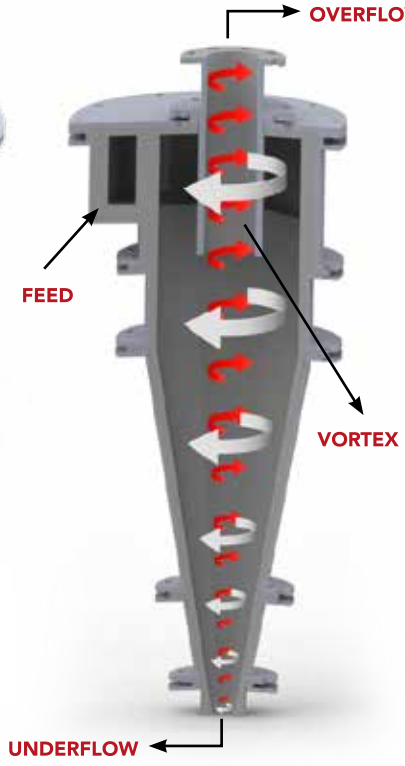
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HYDROCYCLONES





For Dewatering or Fine Classification



For Classification

The main reasons why hydrocyclones are commonly preferred are that they occupy a small space in plants and require very low capital and operating costs. They are used in almost all mineral processing plants to classify fines in slurries generally between 100 and 5 micron. Moreover, hydrocyclones are successfully employed in dewatering operations.

New-design Tüfekçioğlu hydrocyclones* have steel bodies lined with replaceable high quality rubber.

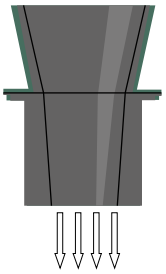
They need to be fed by an appropriate pump with a pressure of 0.35-4 bars depending on operational parameters.

Apex

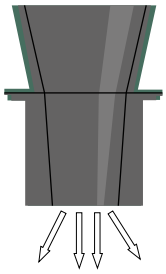


Vortex

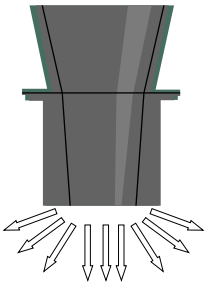




Sausage Discharge
High Solid Density 75-80% for thickening purpose only



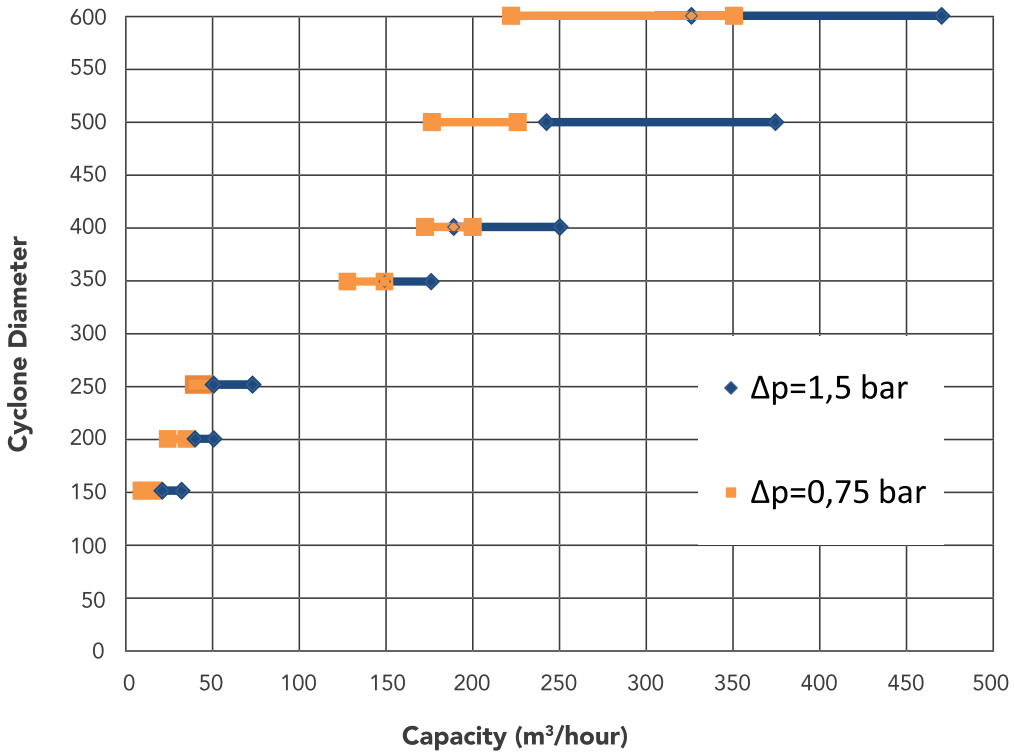
Right Discharge
25-30° Discharge Angle for Classification Solid density is normally between 55-75%



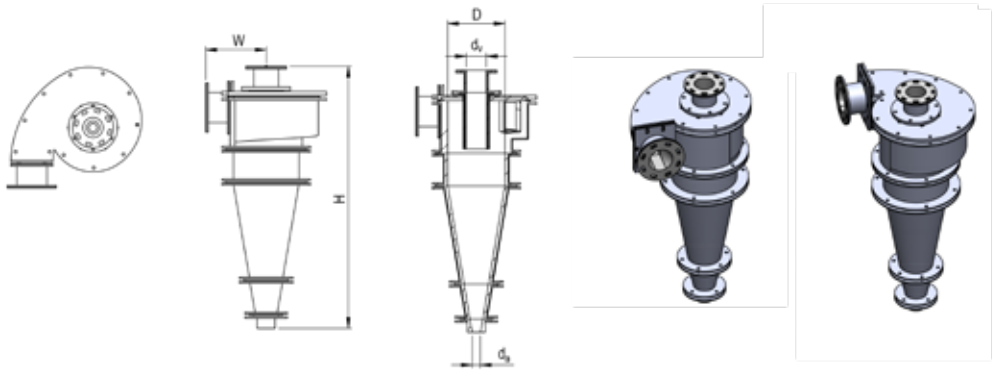
Umbrella Discharge
Dilute Slurry Discharge Solid density is lower than 50%. Excess fine in the underflow

***Patent applied for.**

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Hydrocyclones operate properly when air corridor occurs through the axis. If the apex diameter is too small or if there is a thick pulp discharge, the air corridor does not occur and hence classification would be affected adversely.



HSL-YHSL HYDROCYCLONES						
	Feed Inlet Diameter, mm	**H**	**D**	**W**	**Apex Inner Diameter (d_a)***	**Vortex Inner Diameter (d_v)***
YHSL 45	Ø8	523	45	110	6-8-10-12-14-16-18-20	14-16
YHSL 75	Ø15	617	75	130	6-8-10-12-14-16-18-20	14-16
YHSL 100	Ø40	561	100	230	8-12-15-20-25-35	44
YHSL 125	60x30	1016	125	290	15-20-25-28-30-35-40	50
YHSL 150	60x30	1020	150	250	15-20-25-28-30-35-40	50
YHSL 200	80x40	1145	200	290	20-22-23-25-30-32-33-38-40-50	56
YHSL 250	102x51	1285	250	345	15-20-25-30-35-40-42-45-50-55-60	70
YHSL 350	130x65	1600	350	370	20-25-30-35-40-45-50-55-60-65-70-75-80-85-90	125
YHSL 400	140x75	1515	400	415	70-75-80	150

***Subject to change as to plant conditions.**

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