

# Preparation of Free-Surface Hyperbolic Water Vortices

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jove.com/video/64516

## Materials

Name	Company	Catalog Number	Comments
1-/2-channel transmitter	Endress+Hauser	CM442	Data logger
Control valve	+GF+	625DN20	Typ514
Data Logger	Endress+Hauser	CM442	Liquiline
Fiber Optic Oxygen Transmitter	PreSens	SACN0002000005	Fibox 3
Glass Elbow Connector	Custom made	-	Adapter for the pipeline
Groundwater pump	SAER	3637899	H/150
Laptop	any	any	Windows 10 or higher
Large glass funnel	Custom made	-	94 cm high
Oxygen Calculator	PreSens	v. 3.1.1	Software
Oxygen Sensor Spots	PreSens	NAU-D5-YOP	SP-PSt3
pH connector	Custom made	-	Adapter for the pH probe
pH sensor	Endress+Hauser	CPS11	Orbisint CPS11
Polymer Optical Fiber	PreSens	POF-L2.5-2SMA	OXY-1 SMA
Rubber gasket	ERIKS	11535207	141x197x2mm
Rubber gasket	ERIKS	12252766	273x340x3mm
Small glass funnel	Custom made	-	26 cm high
Water flow meter	Endress+Hauser	P7066819000	Picomag
Water flow meter	Kobolt	5NA15AC34P	MIK
Water Temperature Connector	PreSens	-	Pt100