FLO-WATER

CATCHING SEDIMENT ON THE GO, ENABLING CLEAN WATER TO FLOW

The Pump-It Tube® Woven Dewatering Bag Specifications

Minimum Average Fabric Values

Properties	**ASTM**	**Value**
Mass per Unit Area (oz/yd2)	D-3776	5.2
Grab Tensile Strength, MD x CD (lbs)	D 4632	297 x 223
Grab Elongation, MD x CD (%)	D 4632	58 / 59
Trapezoid Tear, MD x CD (lbs)	D 4533	81 x 75
Puncture (lbs)	D 4833	99
Burst Strength (psi)	D 3786	340
Permittivity (sec-1)	D 4491	2.60
A.O.S. (U.S. sieve – (mm)	D 4751	60
Water Flow Rate (gal/ft2/min)	D-4491	192

Install the Pump-It Tube® Dewatering Bag on a slope so incoming water flows downhill through the Pump-It Tube®, without creating more erosion. Attach the neck of the Pump-It Tube® with the D-Ring and Strap (secured to the neck of the Pump-It Tube) to the discharge hose. To increase the efficiency of filtration, place the bag on an aggregate or hay bale bed (elevate Pump-It Tube®) to maximize water flow through the surface area of the Tube. The Pump-It Tube® is full when it no longer can efficiently filter sediment or pass water at a reasonable rate. Use of manifold enables larger fill capacity per bag. Use of manifold also enables the elimination of downtime. With flow rates at 192 gl/ft2/min, the max flow rate per Pump-It Tube®, varies per size of unit (see below chart), the type and amount of sediment discharged into the Pump-It Tube®, the type of ground, rock or other substance under the bag and the degree of the slope on which the bag lies. Under comparable circumstances the Woven Pump-It Tube® will accommodate flow rates 2.5 x's that of their non-woven dewatering bag counterparts. Use of excessive flow rates or overfilling Pump-It Tubes® with sediment will cause ruptures of the bags. Dispose of the Pump-It Tube® as directed by the site engineer. If allowed the Pump-It Tube® may be cut open and the contents seeded after removing visible fabric.

Pump-It Tube® Sizing	Pump-It Tube®Max Flo*	Max Gas Pump Size**
FW2005PT (20"x05')	1600 gl/min	3"
FW2010PT (20"x10')	3200 gl/min	4"
FW2020PT (20"x20')	6400 gl/min	4"
FW4005PT (40"x05')	3200 gl/min	5"
FW4010PT (40"x10')	6400 gl/min	6"
FW4020PT (40"x20')	12800 gl/min	6"
FW8010PT (80"x10')	12800 gl/ min	***
FW8020PT (80"x20')	25,600 gl/min	***
FW8030PT (80"x30')	38,400 gl/ min	***
FW8045PT (80"x45')	56,800 gl/min	***

*Flow rates based on following assumptions. 1. Laying on ground 2. Clean Water.

** Electric Pumps require larger Pump-It Tube, or elevation of Pump-It Tube® due to increased flow rate.

** Pump Size recommendations vary on sediment load, or total suspended solids.

*** Increase in pump size requires user to use larger Pump-It Tubes®, to split flow to multiple Pump-It Tubes®, or to elevate Pump-It Tubes® to flow through entire face of Pump-It Tube®.

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