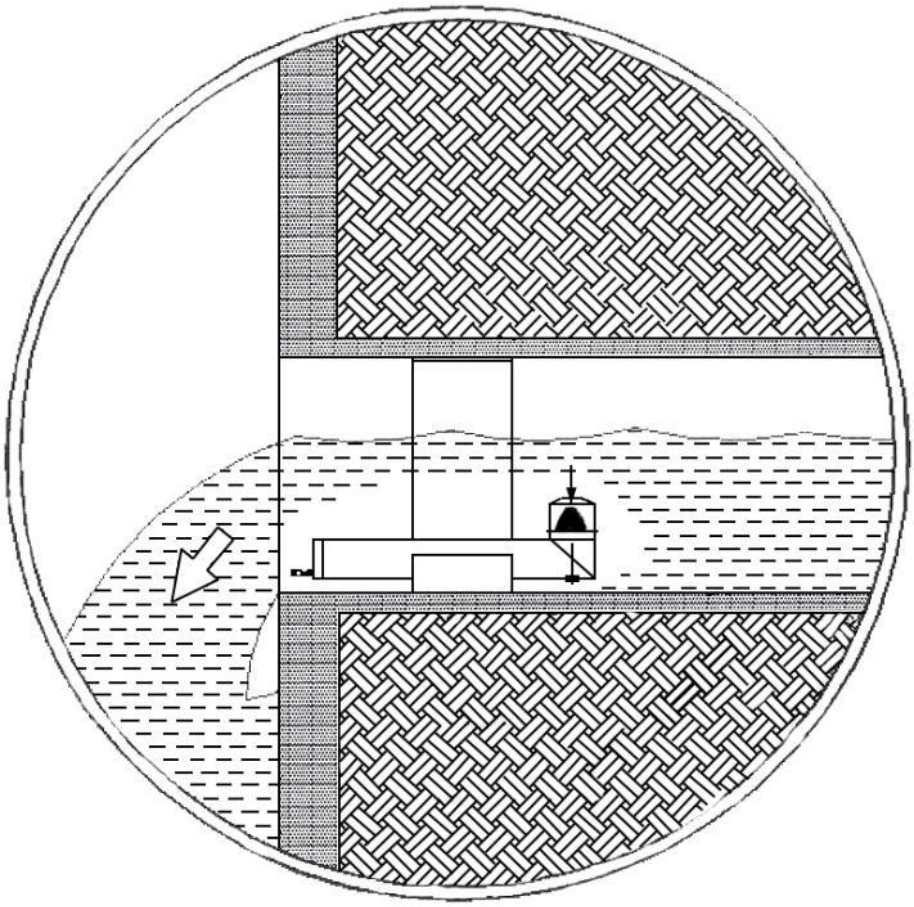
VORTOX AIR TECHNOLOGY, INC.

Engineering • Design • Manufacturer

IN-THE-PIPE SAMPLER



- Portable
- No power source- all mechanical operation
- .80 gallon/3 liter sample size
- Automatically starts sampling above 3 ¾ in of base flow
- Automatically shuts off
- Easy transfer of the sample to lab bottle
- Low obstruction of storm water pipe

121 S. Indian Hill Boulevard, Claremont, CA 91711-4997

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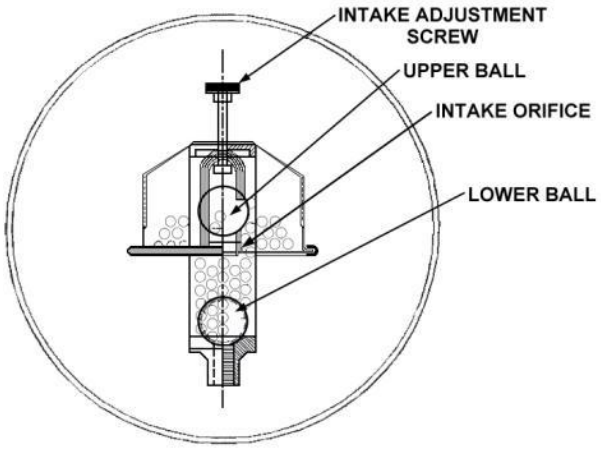
HOW IT WORKS!

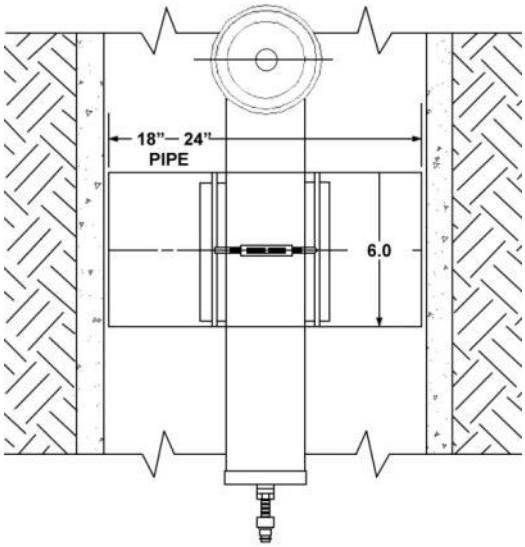
This product operates using the Vortox Sampling Method established with the original Vortox Storm Water Sampling design. A two (2) ball valve assembly is at the core of this design. The upper ball is external to the system. It rests on the intake orifice, keeping the system sanitary until liquid causes this ball to float. As the ball floats, liquid enters the collection chamber at a rate that is governed by setting the intake adjusting screw. As the collection chamber fills, the lower ball floats closing off the intake flow by sealing the bottom of the orifice.



SAMPLE REMOVAL AND TRANSFER

When the sample is caught, the Sampler is removed from the band bracket.

To transfer the sample to a laboratory bottle, place a length of acceptable tubing on the barbed tip of the center port valve. Turn the valve to its open position, place the tube in the bottom of the lab bottle and transfer the sample. Seal the lab bottles and contact your lab to have sample analyzed.



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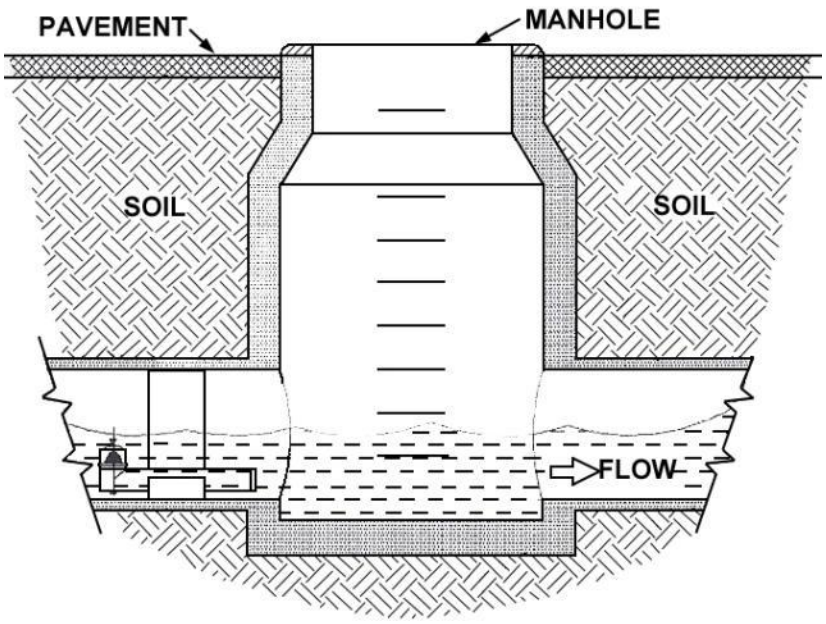
VORTOX IN-THE-PIPE SAMPLER

Vortox Samplers have moved underground to tackle a new application.

Now, in addition to the original Vortox Storm Water (surface run-off) Sampler, this new In-The-Pipe Sampler addresses the requirements of Municipal and Industrial applications that are best accomplished by collecting liquid samples in a storm drain system.

Municipalities can monitor for illicit discharges during dry and wet seasons. Further, storm water samples can be collected with the same device throughout the municipal boundaries. Industrial sights can accomplish sample collection in the same manner.



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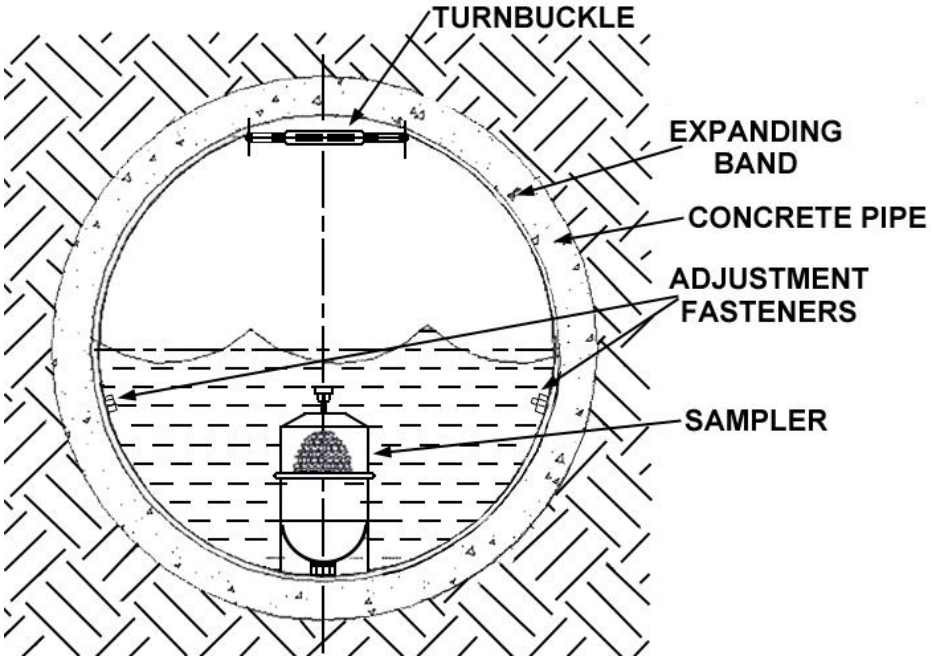

THE SYSTEM

The sampling system includes an expanding band designed to accommodate two (2) ranges of pipe diameters. One size fits pipes ranging from 18 through 24 inch diameters and the second size fits 24 through 30 inch diameters.

The expanding band is placed into a pipe and locked in place by setting the adjustment fasteners and using a turnbuckle. The Sampler slides into a bracket which holds it securely to the expanding band. The band is completely portable, however, it may be left in a permanent location while the Sampler is installed in the band bracket when sampling is required.

Once the unit is installed, the Sampler waits for the liquid to flow. When the flow reaches the intake valve assembly (3.75 in depth), the system begins to collect a sample. This standard unit allows unwanted base flows of less than 3.75 inches to bypass the Sampler.

An alternate Sampler utilizes a dam which causes all flow levels to be collected.

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OPTIONS & ACCESSORIES

EXPANDING BAND ASSEMBLIES- All stainless steel, fits into selected diameter pipes (manholes or outfalls) and holds the In-The-Pipe Sampler in position. These bands will mate with any of the Samplers listed below.

FSX24- Expanding band fits 18 to 24 inch diameter pipes

FSX30- Expanding band fits 24 to 30 inch diameter pipes

SAMPLERS – All Stainless steel construction, polypropylene ball valves, nitrile ball valve gasket.

FS3A- .80 gallon/3 liter capacity Sampler

FST3A- "Teflon® lined" .80 gallon/3 liter Sampler

FSD3A- .80 gallon/3 liter capacity Sampler with inflatable dam

FSTD3A- "Teflon® lined" .80 gallon/3 liter Sampler with inflatable dam

Compressed air required to inflate the dam.

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