

# **Fix Your Weakest Link !**

## **STF-106 Series**

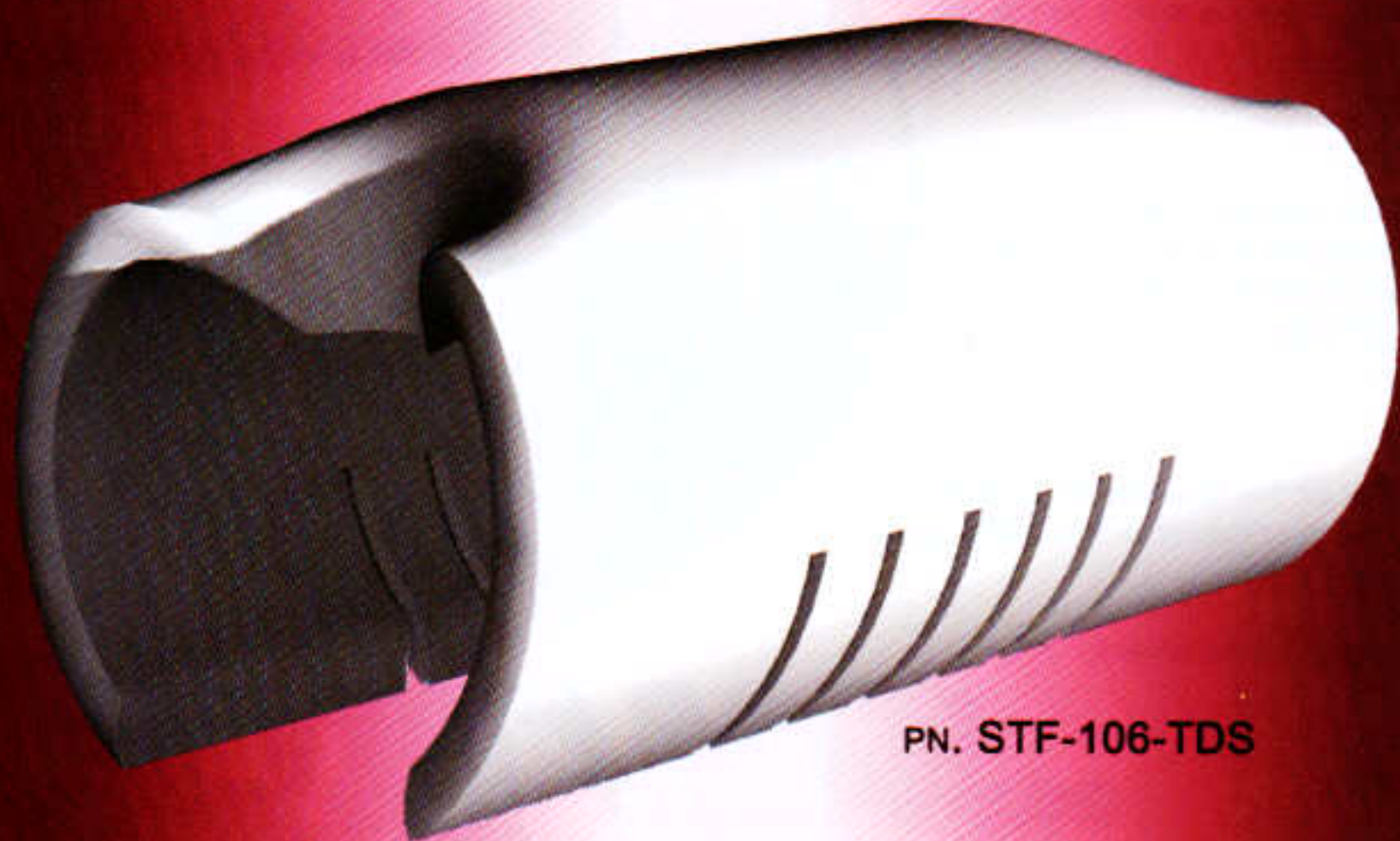
### **Orifice Shields**



PN. STF-106



PN. STF-106-D4



PN. STF-106-TDS

***Any wastewater treatment system is only as effective as it's weakest link.***

***For most of these systems those weak links are the drain holes in the distribution fields.***

***These holes become restricted or plugged altogether, by the drain media itself.***

***The STF-106 series orifice shields strengthen that weak link by preventing orifice restriction or blockage by eliminating contact between the orifice and drain media.***

**SIM/TECH**  
FILTERS

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# STF-106 Series

## Orifice Shields

Orifice shields are an essential part of all low-pressure wastewater systems. SIM/TECH manufactures three different models that cover a wide variety of applications. Every model insures even distribution from all orifices in any system, by separating the discharge orifices from the drain media or insuring even distribution of spray.

If you design or install a culvert under a driveway, you wouldn't allow the installers to put a boulder in front of it to block drainage. So why design or install lateral piping in the field, then lower and backfill the laterals with the drain holes resting on drain media. Flow rates are calculated and designed assuming unrestricted drain holes or orifices. Keep them that way by using orifice shields.

All wastewater systems should be designed with the use of orifice shields on all discharge holes to insure even distribution and even system pressure after backfilling. Because of low pressure in these systems, typically 2-4 psi, it is vital that the drainage media does not interfere with the discharge orifices, these systems can not clear themselves once they become blocked or restricted.

Make your flow rates a reality, use orifice shields on your lateral piping.

All of our orifice shields easily snap into place on lateral piping and with over 9" of gripping surface stay securely in place, even after back-filling.



STF-106 Orifice Shield

Our most popular model - For use on mound systems and at grade pressure systems. This fully enclosed orifice shield snaps onto the distribution pipe with over 9" of gripping surface. Fits 1 1/4" and 1 1/2" pipe. STF-106 for 3/4" and 1" pipe is mainly for use on sand filters and small pipe pressure systems.



STF-106-D4 Diffuser Shield

Our D4 was designed for use in pressurized chambered or mound systems. The D4 will diffuse the spray of effluent without the use of splash plates or drain stone under the downward orifices. The D4 diffuses the concentrated streams of effluent through eight escape locations on the shield. Fits 1 1/4" and 1 1/2" pipe



STF-106-TDS Top Discharge Shield

The TDS is used in systems requiring the discharge holes on the field laterals to face up. As consistent in Sand Filter Systems the shield is installed over the top of the lateral pipe with no drain slots above the discharge holes. Fits 3/4" or 1" pipe

CUSTOM SIZING AVAILABLE FOR ALL STF-106 series Orifice Shields

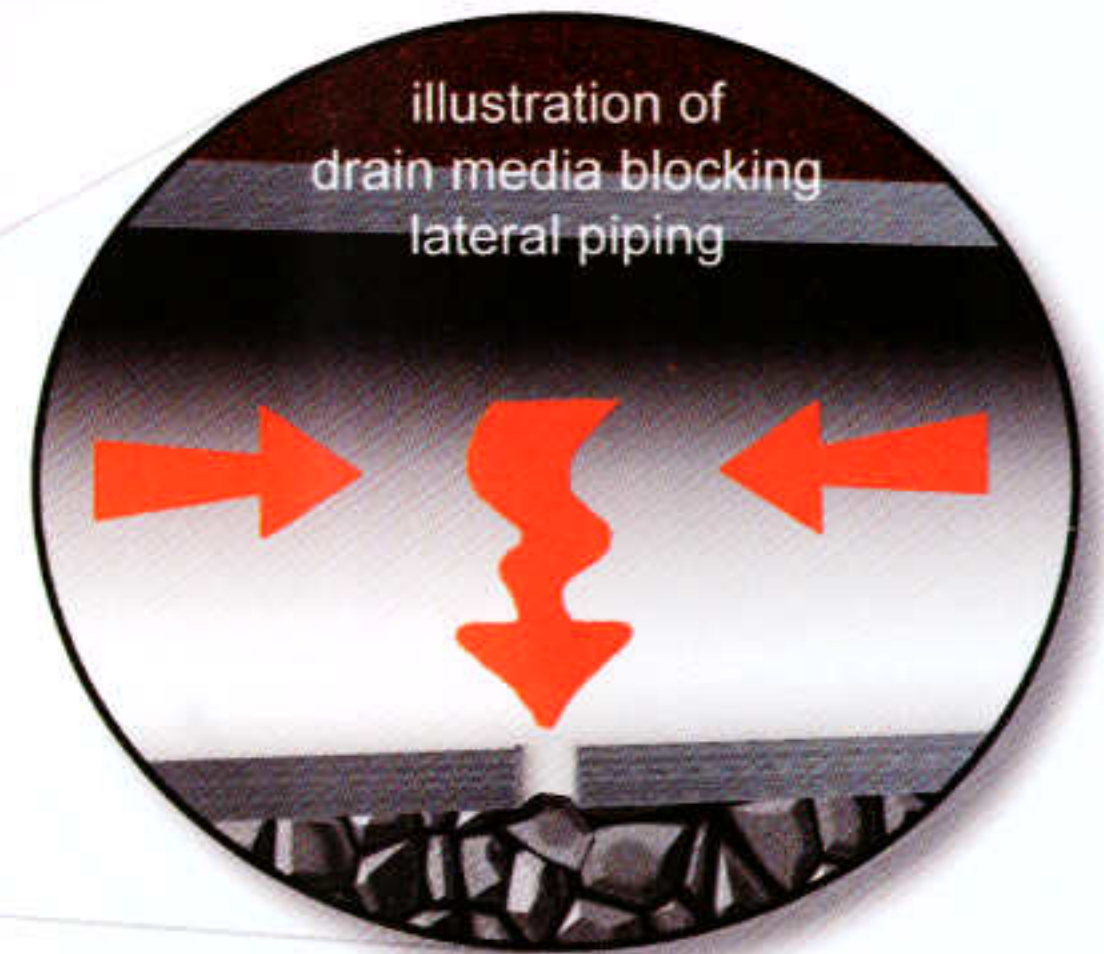


illustration of  
drain media blocking  
lateral piping



cross-section of  
orifice shield installed  
on lateral piping



illustration of  
orifice shield installed  
over lateral piping

# SIM/TECH

## FILTER

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Distributor inquiries welcome