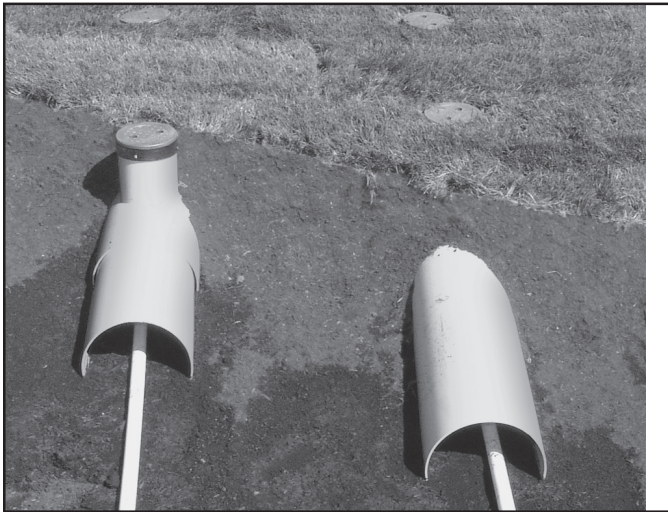


# Shallow Pressurized Dispersal System

## Applications

Where allowed by regulations, an Orenco<sup>®</sup> Shallow Pressurized Dispersal System (SPDS) is a good way to disperse highly treated effluent from a secondary treatment system to the soil. When used with a treatment device consistently producing effluent of high enough quality (CBOD5 and Total Suspended Solids concentrations of 10 mg/L or less), an SPDS may be designed at a fraction of the size of a conventional drainfield. It can be installed among shrubbery so as not to occupy lawn area. Because the drain pipe is shallowly buried, effluent is released just below the surface, where the soil is rich in organisms that can treat it. The necessary infiltration channels can be dug with a rotary tiller instead of with heavy equipment.



Shown above is a small scale model (for display purposes only) of a typical SPDS layout.

## General

Orenco<sup>®</sup> SPDSs use channels that are typically 12 inches (300 mm) wide and 10 inches (250 mm) deep. Perforated lateral pipe is laid in the trench. Typically, either 1-in. (25 mm) or 1¼-in. (32 mm) diameter Class 200 PVC pipe is used for the laterals. Orifices have a ⅛-in. (3 mm) diameter, and may be spaced 2-6 feet (600-1800 mm) apart depending on local regulations. Each lateral is connected to the discharge header from the treatment system and terminated with a sweep ell and a ball valve. The lateral pipe is covered with 12-in. (300-mm) half-pipe. As an alternative, the laterals may be covered with sections of commercially available low-profile plastic chamber. An inspection port is installed on each lateral, and the ball valve at the end is enclosed in a valve box with a lid for access. The channel is then filled in so that the half-pipe is buried and the lids of the inspection ports and valve boxes are at grade.

## Model Codes

### Class 200 PVC perforated lateral pipe, 1-in. (25-mm)

6 ft (1830 mm)	LP10024-6
10 ft (3050 mm)	LP10024-10

### Class 200 PVC perforated lateral pipe, 1¼-in. (32-mm)

6 ft (1830 mm)	LP12524-6
10 ft (3050 mm)	LP12524-10

Ball valve assembly, 1-in. (25-mm)	SEA100V-FC
Ball valve assembly, 1¼-in. (32-mm)	SEA125V-FC

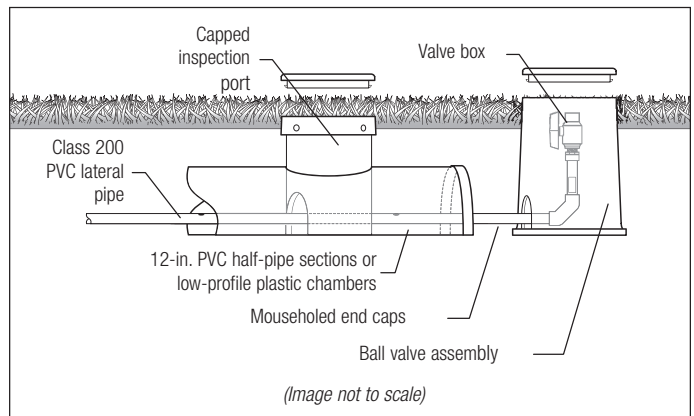
Valve boxes	VB7
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### 12-in.(300-mm) diameter PVC half-pipe sections

3 ft (915 mm)	HP12-3
5 ft (1525 mm)	HP12-5
10 ft (3050 mm)	HP12-10
Mouseholed end caps	HP12CAPM
Solid end caps for half-pipe	HP12CAP
Inspection port half-pipe sections	HP12-2IP
Capped inspection ports	IPO612

## Materials of Construction

End caps	Fiberglass
PVC half-pipe sections	PVC plastic irrigation pipe (PIP)
Inspection ports	PVC
Lateral pipe	Class 200 PVC
Ball valves	Schedule 40 PVC
Valve boxes	PVC



**Typical Site Plan (example)**

