

FlexStorm[®] Connector Pipe Screen

FlexStorm Connector Pipe Screen (CPS) is the perfect tool to help you meet your total maximum daily load. Whether for a retrofit or a new construction, there is a CPS that will fit your catch basin. A CPS retains large volumes of trash and sediment inside the catch basin, where it can be regularly removed by a vacuum truck, instead of conveying debris through the stormwater system.

Features

- Constructed from 14GA perforated stainless steel, reinforced with 12GA U-channels around entire perimeter
- Trash accumulates in catch basin instead of downstream
- Keeps all particles larger than 0.197" (5 mm) inside catch basin
- 50% open area for high flow; designed to match basin hydraulics

Benefits

- Good for retrofits, new applications or city-wide installs
- Comes in multiple shapes, depending on the catch basin
- Rolled panels provide increased strength compared to flat screens
- Quick and easy installation; ships sized to the catch basin so assembly is not required



FlexStorm Connector Pipe Screen (CPS) Specifications

Product Selection

In general, a Connector Pipe Screen (CPS) must be sized appropriately to pass a one-year rain event through the perforated screen material and pass a 10-year rain event through the bypass area if a deflector lid is required. The shape of the screen depends on location of the outlet pipe. ADS will assist in the selection of the appropriate CPS design given the following information:

1. Catch basin length and depth
2. Location of the outlet pipe
3. A completed CPS dimensional form

Materials

Each CPS is comprised entirely of 304 stainless steel and brought to the field pre-configured for easy installation. All models are supplied with vertical upright mounting brackets which accept four $\frac{3}{8}$ " x 3" (9 x 76 mm) stainless anchor bolts. All bypass lids require two $\frac{3}{8}$ " x 3" (9 x 76 mm) stainless anchor bolts. Mounting brackets are equipped with slotted holes to allow for varied contours on walls and sloped floors.

Installation

1. Lower the CPS through the manhole opening
2. Position the CPS evenly spaced around the connector pipe ensuring a minimum of 4" (100 mm) spacing away from the corners.
3. Loosen the bolts in the slotted holes which connect the screen to the upright mounting brackets until the bottom is flush with the floor
4. Tighten the bolts and mark the hole locations on the wall for the stainless anchor bolts
5. Drill holes, hammer the bolts in place and secure the connector pipe screen using provided stainless nuts
6. If the bottom of the base exposes more than a 0.197" (5 mm) gap, then an additional base face strip may be fastened to the base channel using stainless tek screws or rivets

Maintenance

ADS advises that catch basins be cleaned out at least two (2) times per year and/or if debris has filled above a 40% level inside of the catch basin. Sites with large amounts of foliage, high sediment loads or smaller CPS devices might need to be cleaned more frequently.

Maintenance Conditions and Maintenance Standards: The following are deficiencies in maintenance conditions and their corresponding maintenance standards which shall apply to the CPS. The clean out of each catch basin shall meet the maintenance standards listed as follows:

1. Clear trash and debris located immediately in front of curb opening or side opening of catch basin and on top or between metal grates of grated catch basin
2. Remove vegetation growing across and/or blocking the basin opening
3. Remove all trash, debris and vegetation from inside the catch basin
4. Remove trash and debris in the connector pipe opening, upstream or downstream
5. Knock off/remove debris that covers the perforated openings of the CPS
6. Ensure there is no standing water inside of catch basin (indicates the device is not draining properly).

Build America, Buy America (BABA)

For any questions related to Build America, Buy America (BABA) Act compliance contact an ADS representative or email flexstorm@adspipe.com.

