

Fox Valve Demand Driven Washdown Diversion SYSTEM DD-400 / DD-600

The ParkUSA DD-400/600 Diversion System effectively manages water runoff from unroofed outdoor wash racks, also known as wash bays or wash pads.

Unroofed wash racks pose a significant challenge in terms of drainage. Stormwater runoff, occurring during rainfall, must be drained to the storm sewer, while wash water produced by wash operations must be drained to the wastewater sewer for proper treatment.

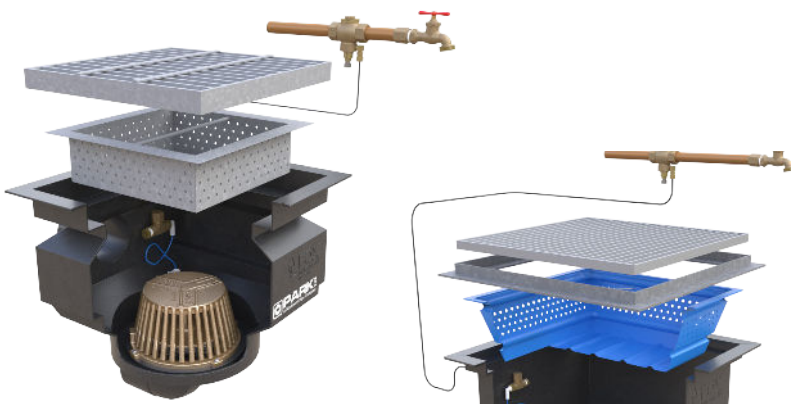
The DD-400/600 Diversion System solves this challenge by directing the water to the appropriate sewer system for unroofed wash areas up to 200 square feet.

Advantages

- Provides treatment for small washdown areas.
- No electricity is required.
- Wash pad area roof is not required.
- Easy to specify, install, and maintain.
- Saves money on building construction, utilities, insurance, property taxes, and maintenance.
- Avoids expensive environmental fines and protects the environment.
- IAPMO UPC IGC234 certified, and city approved.
- System is pre-engineered and uses proven technology.

Applications

- Car Wash and Detail Facilities
- Outdoor Showers & Splash Pads
- Trash Dumpster Drainage Areas
- Pet Parks and Kennels
- Parking Garages
- Roofed Wash Bays subject to windblown rain
- Equipment and Tool Cleaning
- Marina and Boat Cleaning
- Vehicle Dealerships
- Fuel/Gas Stations
- Auto Parts Recyclers
- Golf Course and ATV Maintenance



Model DD-400

Model DD-600

How It Works

The DD-400/600 First Flush Washdown Diversion System includes a drain chamber with a surface grate inlet and two outlet pipes: one leading to the storm sewer outlet and the other to the sanitary sewer outlet. An automatic diversion valve, powered by water hydraulics, is located on the sanitary sewer outlet.

In the absence of washdown, runoff collected in the drain or catch basin during rainfall events flows out through the storm sewer outlet when the level rises in the basin.

Wash Cycle: During washdown activities, the DD-400/600 recognizes the trigger-pull of the pressure wand or the turning on of the faucet to activate the diverter valve. All runoff entering the drainage chamber is diverted to the sanitary sewer while washdown takes place.

Rain Cycle: When not conducting wash operations, the DD-400/600's diverter valve is closed. Any rainfall events will discharge to the storm sewer.

Note: Wastewater from a wash rack should not be discharged into the stormwater sewer, as it may contain contaminants that could harm the environment. Instead, it should be discharged into the wastewater sewer system. Stormwater runoff must be drained to the storm sewer and is code-prohibited from draining into the wastewater sewer.

System Components

- Diversion Valve (4- or 6-inch; discharge capability of 330 gallons per minute at 20 inches head)
- Demand Valve (1-inch NPT with 170 PSI rating; 1/2-inch drive line connection)
- Drainage Chamber (HDPE, stainless steel, precast concrete, or fiberglass construction)
- Silt Basket (HDPE with steel handles)
- Grating (heavy-duty ductile iron grate or light-duty galvanized steel hinged grate and frame)
- Potable Water Inlet (1-inch pressure water from water source)
- Drive Line (1/2-inch copper or PVC piping from demand valve to the diversion valve)
- Potable Water Outlet (1-inch)
- Stormwater Outlet (4- or 6-inch)
- Sanitary Sewer Outlet (4- or 6-inch)
- Precast Concrete Basin – Direct bury and rated for H20 traffic loading.



Demand Driven Diversion System (DD-400/600) available for wash areas less than 200 square feet.



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