

WDS ON-DEMAND
UNDERSINK DISHWATER TRANSFER SYSTEM
MODEL WDS USDWTS

Suitable for outdoor, unroofed eating / cooking / entertainment areas using outdoor sinks that are exposed to rainwater while they are connected to the sanitary sewer. The WDS Undersink Dish Water Transfer System automatically sends dishwater to the sewer and rainwater to the storm drain.

Furnish WDS Model USDWTS Undersink Dish Water Transfer System consisting of the following items to be supplied by installing contractor:

- WDS 2 x 2 Undersink custom Stainless-Steel pit
- WDS 6" Transfer Valve (installed in pit)
- WDS 1" ON-Demand Valve (2 required, hot & cold water)
- WDS 2 x 2 Under sink custom SS Silt and Solids Basket.
- H20 cast iron frame and ADA-compliant grate.
- Watts or equal RPZ with inline strainer compliant with ASSE1013,
- Fernco Couplings P 1056-2 or UPC approved equal.
- O & M Manual
- Finished Materials Specifications: The WDS ON-Demand Valve, The Pit Mounted Transfer Valve and all wetted components shall be made of corrosion-resistant materials and all parts shall comply with the following requirements.
 - a) Brass alloys shall be C89833 and lead-free
 - b) Stainless Steel alloys shall be 304 SS.
 - c) Grate and Frame shall be cast iron and ADA-compliant
- The WDS 1" ON-Demand Valve shall be C89833 Lead-Free Brass and shall detect downstream water usage. The WDS ON-Demand Valve shall, when water use is detected, send water through the drive line to hydraulically open the pit installed Transfer Valve. The WDS ON-Demand Valve shall require only normal domestic water pressure to operate. Electric Valves will not be acceptable in this application. The activation flow shall be no less than (1) Liter per minute. This WDS ON-Demand valve shall be in-line serviceable and in-line adjustable.

- The WDS 1" ON-Demand Valve shall send water down the drive line to open the pit-mounted Transfer Valve when water usage at the sink is hydraulically detected. The pit-mounted Transfer Valve shall open with either hot or cold-water use.
- The WDS 1" ON-Demand valve shall be installed after an RPZ backflow prevention device that complies with ASSE 1013.
- The WDS 1" ON-Demand Valve shall be labelled with the following information: WDS 1" and MADE in the USA.
- The WDS 6" Transfer Valve shall be C89833 LEAD-FREE Brass, stainless steel with Nitrile seals, O-Rings and Diaphragm. The Transfer Valve shall require only normal domestic water pressure to operate the upper cavity. The upper cavity shall require no more than 250 ml of water to inflate the upper cavity and open the transfer valve. The transfer valve shall have a self-flushing sealing edge to avoid obstruction when closing. When water use ceases, the transfer valve shall automatically discharge the water used to inflate the transfer valve diaphragm and close, sealing the sewer from rainwater. The transfer valve shall have a minimum 2-inch outlet to the sewer.

The WDS 6" transfer valve shall be fitted in the base of an SS pit and over an outlet to the sanitary sewer or other treatment and have a discharge of no less than 100 GPM @ 2 ft/hd. The pit bottom shall also have a 2" outlet to the storm drain. The top of this outlet shall be no lower than the height of the diversion valve inside the pit.

- Operation – The WDS, Undersink ON-Demand Dish Water Transfer System shall require nothing more than opening the sink water tap to activate the transfer system. The pit-mounted transfer Valve shall remain open to the sewer as long as the dishwasher is being used sending all wash water to the proper treatment facilities. When water use ceases, the Transfer Valve shall close, sealing the sewer outlet and preventing rainwater from entering the treatment facility. Manual, Electric or Valves requiring an operator will not be acceptable.
- The WDS 2 x 2 Undersink Pit shall be 304 stainless steel and shall be a minimum of 16 inches square and 20 inches tall with drainpipe-accessible legs. The pit shall have a minimum of two outlets, one for stormwater and one for treatment. Sizes are determined by site conditions and local plumbing codes.
- Only systems that have been inspected, tested and approved will be considered for use on this project.
- RETROFITS: Site conditions may, from time to time, require modifications to standard product design, and retrofit of existing pits. In these cases, WDS will supply WDS 6" transfer Valve mounted on aluminum or stainless-steel plates and all components to ensure a working system including special size silt and solids basket. Any change will require the authorization of the Owner/Engineering.
- The contractor shall ensure the commissioning of the system is performed by experienced personnel of Wastewater Diversion Systems, Inc. and in accordance with the manufacturer's warranty requirements. **NO EXCEPTIONS TO THIS REQUIREMENT!**

The Undersink ON-Demand Dish Water Transfer System shall be as manufactured by Wastewater Diversion Systems, Inc. of Mechanicsville, VA 23116 Phone: 804-873-1798 Fax: 804-730-3489 E-mail FoxWWDSUSA@aol.com