

Dedicated Sampling Systems

Geotech Dedicator® Groundwater Sampling Systems

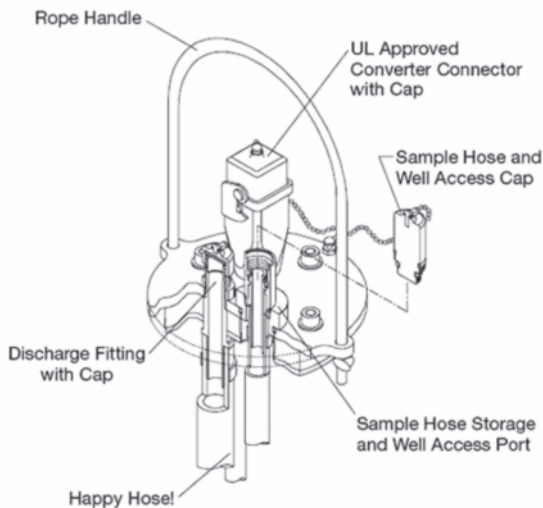
The Dedicator® is a turnkey, dedicated sampling system designed for easy installation and operation. Each system is custom-built to well specifications, completely assembled, and tested prior to shipment. Dedicator® Systems include a low profile well seal, Happy Hose!® (integrated motor lead, safety cable and discharge tubing), a Grundfos® MP1 2" electric submersible pump and all clamps and fittings. The well seal incorporates an access port for water level indicators when the sample tube is removed; low-clearance adapters are available to fit our standard 2" and 4" (5.08 and 10.2 cm) well seals in virtually any well pipe size.

FEATURES

- Grundfos® MP1 2" electric submersible pump
- Happy Hose!® integrated motor lead, safety cable and discharge tubing
- Custom-built for each well and factory tested
- Well identification tag
- In-the-well sample tube storage
- Fits 2" (5.08 cm) or larger wells
- UL rated weather-resistant electrical connection with cap
- Water level access port
- Well seal provides a liquid tight barrier
- Ideal for traditional or micropurge techniques

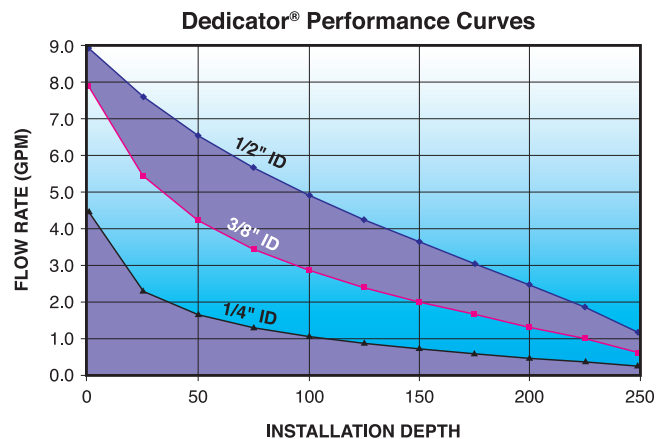
INSTALLATION & OPERATION

Installation is as simple as lowering the pre-assembled Dedicator® System into the well and tightening the compression bolts with the allen wrench provided. To operate the pump, connect the electrical port on the well seal to a Grundfos® BMI/MP1 converter with an extension cable. Power up the converter and you are ready to pump.



PERFORMANCE

Geotech Dedicator® system flow rates have been modeled by the engineering staff. The performance curve shown below can be used to estimate maximum flow rates achievable under normal field conditions, taking into account installation depth and friction loss from tubing and other system components. These flow rates assume that the water level is slightly above the pump intake. For more information, please call **1-800-833-7958**.



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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SPECIFICATIONS

Dedicator®

Happy Hose!® Assembly

Motor Lead Tensile Strength	480 lbs. at 70°F (217.7 kg at 21°C)
Discharge Tube Burst Pressure	325 psi at 70°F (22.4 bar at 21°C)
Discharge Tube Fittings Operating Pressure	160 psi (11 bar)
Connecting Fittings Support Tensile Load	120 lbs. (54.4 kg)
Weight	0.15-0.22 lb./ft. (0.07-0.10 kg/0.3 m)

Polyethylene Happy Hose! (PE)

Hose ID	1/2", 3/8", or 1/4" (12.7, 9.5, or 6.4 mm)
Hose OD	5/8", 1/2", or 3/8" (15.9, 12.7, or 9.5 mm)
Hose Material	Polyethylene

FEP-lined Polyethylene Happy Hose! (TLPE)

Hose ID	1/2", 3/8", or 1/4" (12.7, 9.5, or 6.4 mm)
Hose OD	5/8", 1/2", or 3/8" (15.9, 12.7, or 9.5 mm)
Hose Material	Polyethylene
FEP Liner	0.020" (0.508 mm)

Happy Hose!® Cable

Conductors	18 AWG
Conductor Insulation	Hi-density Polyethylene (HDPE)
Cable Jacket	Polyethylene
Cable OD	7/16" (11 mm)

Well Seal

Electrical Connections Maximum Load	160 lbs. (72.57 kg)
Discharge Tube Operating Pressure	108 psi at <160 lbs. load (7.4 bar at <73 kg load)
Vertical Clearance Required	3.50" (8.9 cm)

Grundfos® MP1 2" Pump

Input Power	1.5 kW (2 Horsepower)
Voltage	3 phase, 220 V at 400 Hz
Maximum Current	5.5 amps
Motor Protection	Thermal overload
Disconnect Temperature	176°F (80°C)
Rate Current	5 amps
Current Overload	Incorporated in converter
Maximum Fluid Temperature	86°F (30°C)
Minimum Fluid Temperature	34°F (1°C)
Net Weight	5.5 lbs. (2.5 kg)
Wetted Materials	316, 329 stainless steel/Teflon®
GPM Capacity	8 gpm (30 lpm)
Total Dynamic Head Capacity	250 ft. (76.2 m)
OD	1.8" (4.57 cm)

Check Valve

Wetted Materials	316 stainless steel/PTFE
Minimum Cv Rating	1.7
Working Pressure	108 psi (7.45 bar)
Maximum Supported Load	160 lbs. (72.57 kg)

RZ-900 CHECK VALVE OPTION

The RZ-900 check valve is a simple-to-use, easy-to-clean fitting designed for use with the Grundfos® MP1 2" pump.

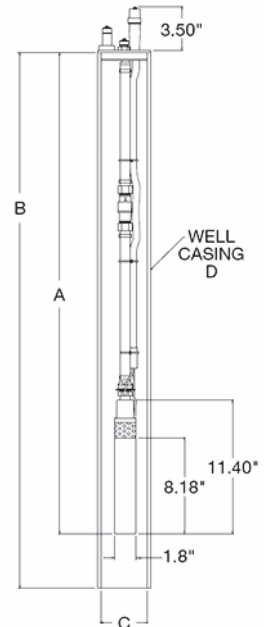
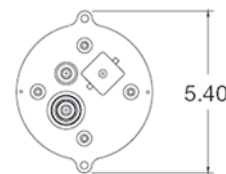
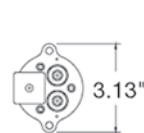
The valve is constructed of 316 stainless steel and PTFE and is operated by pressure generated during the use of the MP1 2" pump. As the ball lifts, water is allowed to flow through the valve to reach the surface; the ball will seat itself once the pump stops.



DIMENSIONS

Use the diagram to determine dimensions (A, B, C, and D) for each well.

A Length from the top of casing to the bottom of the pump	B Total depth of the well, measured from the top of casing
C Well diameter	D Well material and pip size schedule



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