

Vermeer®

Vacuum/Excavation System

FM350

FlowMASTER™ 350 SERIES

Make accessibility easier.

Cities and municipalities worldwide realize the importance of quick accessibility to water valves and hydrants in the event of water contamination or water line breaks. Accessibility is necessary to quickly shut off water valves and stop the flow of water to main supply lines.

Many water valve boxes are filled with compacted dirt and spoil, which can take up to several hours to clean by hand. In emergency situations, time is of the essence, thus many cities have been prompted to exercise their water valves at least once a year to make them readily accessible. Similarly, the need has arisen to flush water hydrants to determine if they are working properly, as well as flush out the system on an annual basis.

The FlowMaster 350 Series of vacuum excavation systems can be used to hydraulically exercise water valves and hydrants, making sure they will work properly in times of need. Compact in size, the FlowMaster unit can be easily transported to locations close in proximity to water valves and hydrants. To exercise valves, debris is first removed using a vacuum and a high pressure washer to clean the valve box. The FlowMaster's hydraulic arm then senses the torque and rotations needed for operation as it exercises the valve by spinning it open and closed.

Two engine options are available in the FM350 Series units including a 36 hp (27 kW) Yanmar diesel or 49 hp (37 kW) Yanmar diesel engine. The FlowMaster can be fork/skid steer mounted or trailer mounted for transport.





FM 350 SDT (Trailer mounted)

- 49 hp (37 kW) water cooled diesel engine
- 1000 CFM vacuum pump capable of 15 inches (381 mm) of mercury
- 300 gal (1135 L) debris tank with hydraulic lift dump
- Hydraulically operated full open rear door
- 33' (10 m) of 3" (8 cm) light weight smooth bore rubber of industrial rated suction hose
- Two 3" (8 cm) light weight dielectric suction wands - 4' (1.2 m) and 6' (1.8 m)
- Auxiliary Hydraulics Included

FM 350 DT (Trailer Mounted)

- 36 hp (27 kW) water cooled diesel engine
- 550 CFM vacuum pump capable of 15 inches (381 mm) of mercury
- 300 gal (1135 L) debris tank with hydraulic lift dump
- Hydraulically operated full open rear door
- 33' (10 m) of 3" (8 cm) light weight smooth bore rubber of industrial rated suction hose
- Two 3" (8 cm) light weight dielectric suction wands - 4' (1.2 m) and 6' (1.8 m)
- Auxiliary Hydraulics Included

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FM350 Specifications

General

- Unitized silencer for vacuum pump
- Curbside remote controls
- 6" (15 cm) stainless steel portal shut-off in top of vacuum tank
- Suction hose storage mounted on the side of the debris tank
- DOT amber strobe with two halogen work lights
- 18" x 18" x 36" (46 x 46 x 91 cm) aluminum tool box
- Winterization package with 15 gal (57 L) semiautomatic antifreeze system
- Battery with nationwide warranty
- One-year limited parts warranty
- Six-month limited labor warranty

Valve Exerciser

- Hydraulically driven
- Capable of reaching valve 12' (4 m) from curbside of trailer
- Capable of hydraulically open and close valves up to 405 ft-lb (549 Nm) torque x 50 rpm
- Hydraulically operate fire hydrants
- Hydraulically remove hydrant caps
- 2" (5 cm) valve wrench w/ extension to operate valves up to 9' (3 m) deep
- Variable hydraulic pressure controller
- Directional controls at head of exerciser
- Hydraulic pressure gauge to determine torque required to operate Valve
- Built in rotation counter w/ LED readout
- Torque conversion chart up to 400 ft-lb (542 Nm)

Flushing Unit

- Established resistance to determine flow and pressure readings
- Built in pressure to flow chart up to 2500 gpm (9463 L/min)
- Disperses hydrant water into the street to avoid erosion and/or property damage
- 20' (6 m) of 2.5" (6 cm) fire hose

Filtration

- Bag House (Big Red) - with 100 ft² (9.2 m²) filtration media, combined with 10 gal (38 L) water trap
- Filters are washable and removable.
- WET or DRY industrial filters rated at 5:1 air cloth ratio and grain loading of 30-g/acf using 0.5-micron silica dust emissions of .0060 g/acf

Tank

- 300 gallon (1135 L) / 1.73 yd (2 m) debris tank with stationary tilt
- Full open rear door with remote center pull for easy dump

Trailer

- Empty weight is 2,200 lb (997 kg)
- Dual "DEXTER" easy lube axles with "Slipper Springs" rates at 5,000 lb (2267 kg) each
- GVWR at 9,995 lb (4533 kg)
- Pintle hitch
- Electric brakes on both axles, with safety break away
- 4 - LT235/85R16 tires and 8 lug wheels
- 10,000 lb (4535 kg) jack stand with spring loaded foot and extended side crank handle

Water System

- 4000 psi (275 bar) at 4 gpm (15 L/min) water system powered by the main engine
- Electric clutch with on/off control and low water automatic shut-down
- 110 gal (416 L) poly water tank plumbed to high pressure pump
- 50' (15 m) of high pressure hose rated at 4000 psi (275 bar)
- Manual hose rack mounted to side of unit
- 5' (1.5 m) roto wand and control handle
- 3' (1 m) variable nozzle wand for clean up

Dimensions

- Component
Length: 148" (376 cm) Width: 34" (86 cm) Height: 75" (191 cm)
- Trailer Mounted
Length: 222" (564 cm) Width: 82" (208 cm) Height: 106" (269 cm)

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