

HYDRO-GUARD®

a MUELLER brand

AUTOMATIC & SMART FLUSHING FAMILY

**DEPLOY AN AUTOMATED FLUSHING FLEET TO
MAXIMIZE OPERATIONAL PERFORMANCE**

The Hydro-Guard Automatic and Smart Flushing product family offers a range of devices to address common operational and maintenance considerations. Mix and match your automatic flushing fleet to meet your utility's needs and community concerns.

MUELLER

ONE PRODUCT FAMILY TO ADDRESS ALL YOUR ROUTINE AND TEMPORARY FLUSHING NEEDS.

The Hydro-Guard® Automatic and Smart Flushing product family offers industry leading, reliable designs to address a range of utility needs and community concerns. Traditional routine flushing programs can mitigate drinking water concerns related to Disinfectant Byproducts (i.e, THM, HAA5, etc.), as well as taste, discoloration or odor. However, manual hydrant flushing can be costly and time consuming for utilities and hydrant flushing is a short-term stopgap, not a permanent solution. Automated flushing programs can address these issues while also considering climate, environmental, and installation site concerns. Each product series is available in a cold climate or warm climate design and supports a range of popular bury depth options to ensure year-round performance in any distribution network.

Selecting the correct Hydro-Guard Automatic or Smart Flushing product, or combination of products, has never been easier. Hydro-Guard products have you covered with fixed semi-permanent, temporary, and S.M.A.R.T. designs.

FEATURES & BENEFITS

- Increased confidence that water quality conditions meet internal and regulatory expectations
- Reduced operational maintenance expenditures related to problematic areas within distribution network
- Improved visibility of water quality conditions at remote points of the distribution network
- Reduce non-revenue water losses related to flushing procedures through managed flushing routines
- Cold climate and warm climate models
 - **Warm:** Where frost depth is less than 18"
 - **Cold:** Where frost depth exceeds 18"



NSF/ANSI 372 certified no-lead brass and PVC pipe plumbing options



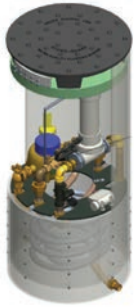
Integrated grab sample system for ease of access and collection



120 psi recommended operating pressure



Integrated, environmentally-safe, dichlorination tablet dosing system



300 Series Cold shown

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SEMI-PERMANENT AUTOMATIC FLUSHING

100, 200, 300 SERIES

Battery operated for time-of-day, day-of-week schedule routines.

- Supports pipeline bury depths ranging from 18” to 120”, depending upon model
- 24 individual flush events, up to 6 hours per flush event; multi-times/day; multi-day programming
- iOS or Android app-managed Bluetooth programming eliminates need to exit vehicle, saving time and money
- Stainless diffuser for erosion control and prevents pests from nesting (For 100 Series models only)
- 100 and 200 Series housed in a secure pedestal enclosure, above ground design
- 300 Series below ground design, minimal impact to landscape



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TEMPORARY HYDRANT FLUSHING

600 SERIES

Provides a temporary, portable solution for emergency and maintenance flushing operations.

- Battery operated for time-of-day, day-of-week schedule routines
- Self-supporting and adjustable pedestal for any hydrant
- 24 individual flush events, up to 6 hours per flush event; multi-times/day; multi-day programming
- iOS or Android app-managed Bluetooth programming eliminates need to exit vehicle, saving time and money



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SMART FLUSHING

1200 SERIES

System Management and Remote Telemetry (S.M.A.R.T.) premium series suitable for the most remote and/or problematic areas within the network.

- Heavy gauge 5052 Aluminum traffic-style cabinet with Stainless Steel hardware
- Constant, remote water quality monitoring for Chlorine, Temperature, pH, Turbidity, Pressure, and Flow
- Condition mitigation flushing based on utility thresholds, as well as timed schedules
- Features both network and application security
- Web-based user interface
- Cellular remote upgrade packages optional
- SCADA compatible (ModBus TCP) protocol
- Engineering CAD drawings for installation pad, stub-out locates, and electrical wiring provided

FIXED SEMI-PERMEANT AND TEMPORARY AUTOMATIC FLUSHING

		50 Series		100 Series		200 Series		300 Series		600 Series
Climate Zone		Warm	Warm	Cold	Warm	Cold	Warm	Cold	Warm	
Type		Permanent	Premanent	Premanent	Permanent	Permanent	Premanent	Premanent	Temporary	
Discharge		Ground	Ground	Ground	Direct	Direct	Direct	Direct	Ground	
Backflow	Air Gap	Standard	Standard	Standard	Standard	Standard	---	---	Standard	
	Double Check	---	---	---	Upgrade	---	Standard	Standard	---	
	RPZ	---	---	---	Upgrade	---	---	---	---	
Bury (Pick One)	No Bury	None	---	---	---	---	---	---	None	
	18"	---	18"	18"	18"	---	---	---	---	
	24"	---	---	---	---	---	24"	---	---	
	36"	---	---	36"	---	36"	---	---	---	
	48"	---	---	---	---	---	---	48"	---	
	60"	---	---	60"	---	60"	---	60"	---	
	84"	---	---	---	---	84"	---	84"	---	
Material	SCH 80 PVC	Standard	Standard	Standard	Standard	Standard	---	---	---	
	No Lead Brass	---	Upgrade	Upgrade*	Upgrade	Upgrade	Standard	Standard	Standard	
Programming	Bluetooth (iOS or Android Application)	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	
	NODE (Built In)	Option	Option	Option	Option	Option	Option	Option	Option	
Profile	Low Profile	Low	Low	Low	Low	Low	---	---	Low	
	High Profile	---	---	---	High	---	---	---	---	
	Below Grade	---	---	---	---	---	Below Grade	Below Grade	---	
Security	All	All Hydro-Guard flushing products offer physical security								

*Bury depths over 36" are not available in Low Lead Brass

HYDRO-GUARD 1200 SERIES S.M.A.R.T. FLUSHING OPTIONS

		Level One (1201 Series)		Level Two (1202 Series)		Level Three (1203 Series)	
Description		Code		Code		Code	
Climate Zone		Climate		Warm		All	
Sensors	Temperature + pH (Included with Cl Analyzer)	Standard		Standard		Standard	
	Chlorine (Select One)	Total Cl		Total Cl		Total Cl	
	---	Free Cl		Free Cl		Free Cl	
	---	Combined Cl		Combined Cl		Combined Cl	
	Turbidity	---		Upgrade		Upgrade	
	Pressure Monitoring	---		Standard		Standard	
	Flow Meter (Valve with Integrated Digital Meter)	---		---		Upgrade	
Flushing Components	Discharge	Direct (Storm Drain, Swale or Storm Pond)		Direct (Storm Drain, Swale or Storm Pond)		Direct (Storm Drain, Swale or Storm Pond)	
	Cast Control Valve	Singer Body Valve		Singer Body Valve		Singer Body Valve (Singer except when Flow Meter is requested)	
	Backflow Prevention	Air Gap		Air Gap		Double Check	
Heating	Enclosure Heaters	---		Standard		Standard	
	Heat Tape	---		Upgrade		Upgrade	
Communication (Select One)	Ethernet	Standard		Standard		Standard	
	Cellular (Verizon)	Upgrade		Upgrade		Upgrade	
	Cellular (AT&T)	Upgrade		Upgrade		Upgrade	
	WiFi	Upgrade		Upgrade		Upgrade	
Enclosure & Security	Security Lock	Standard		Standard		Standard	
	Enclosure Tamper Switch	Standard		Standard		Standard	
	Manual On/Off Switch	Standard		Standard		Standard	
	Dimensions	33" Tall		60" Tall		60" Tall	

Take the next step in deploying an Automatic Flushing fleet. Visit marketing.muellerwp.com/AutomaticFlushing or call Mueller customer service at 1.800.423.1323

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