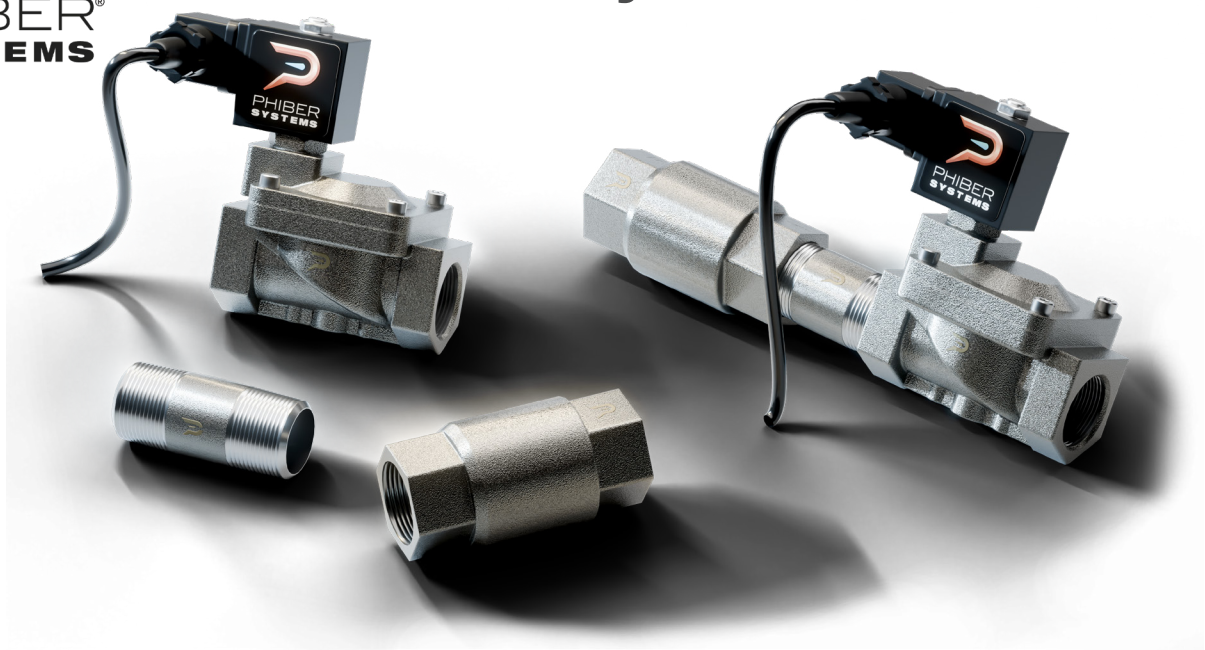
PHIBER® SYSTEMS

Installation Level: CERTIFIED Professional Mechanic

Hydrostatic Lock Kit



THE PHIBER "PHIREWALL"

Per ABYC Standards (H23.5.1), a failsafe barrier must be installed in any connection between a vessel's potable water system and a raw water network. All PHIBER FWF Manifolds use a Hydrostatic Lock for compliance.

Hydrostatic locks are directional "check" devices that allow the flow of water only in one direction, but rather than rely on springs, plungers or gates that can be manipulated via water pressure at either end, they use simple physics in concert with THREE distinct components to establish a barrier that can only be unlocked or breached through an intentional (controlled) process.

- A "Primary Gate" that can be opened or closed at specific intervals via an electric signal, regardless of conditions (pressures) upstream or downstream of the Lock.
- A "Spring Check" that only opens in response to pressure upstream of its internal ball-valve, allowing water/fluid to only flow in one direction. The Primary Gate must open in order for the Check Valve to open.
- A "Locking Chamber" between the Primary Gate and the Spring Check that traps water between the Gate and the Check when the Primary Gate is closed. Once water is "locked" in the chamber, it prevents both upstream and downsream pressures from breaching either the Primary Gate or the Spring Check.

Kits

Item #	Size	Voltage
25-9000110	3/4"	12 V
25-9000115	3/4"	24 V
25-9000120	1"	12 V
25-9000125	1"	24 V
25-9000150	1 1/4"	12 V
25-9000155	1 1/4"	24 V
25-9000130	1 1/2"	12 V
25-9000135	1 1/2"	24 V
25-9000140	2"	12 V
25-9000145	2"	24 V

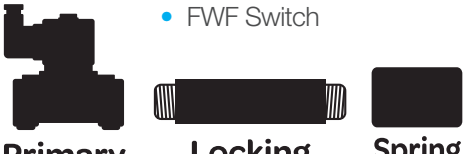
NOTE: Additional components are needed for proper installation

Features

- Rugged design
- Operationally failsafe
- Can be installed in harsh environments (wet)
- Service life +20 years
- Aggregate components allow for creative and minimal installation footprint
- Engineered design ensures safety and integrity of potable water systems
- Meets ABYC Standards for H23.5.1

Kits Include

- Primary Gate
- Spring Check
- Locking Chamber
- FWF Switch



MADE IN USA

ABYC® Compliant to H23 Standards

SS20251018

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Hydrostatic Lock Kit

System Voltage

Both the Hydrostatic Lock and the PHIBER System's FWF Switch/LED indicator must be compatible with the System voltage that they are intended to operate with. Each Hydrostatic Lock Kit includes one momentary FWF Switch for use with the Control Module. Pressing the FWF Switch activates the Control Module's programming, and the LED indicates when the Control Module is actively executing a flush cycle.

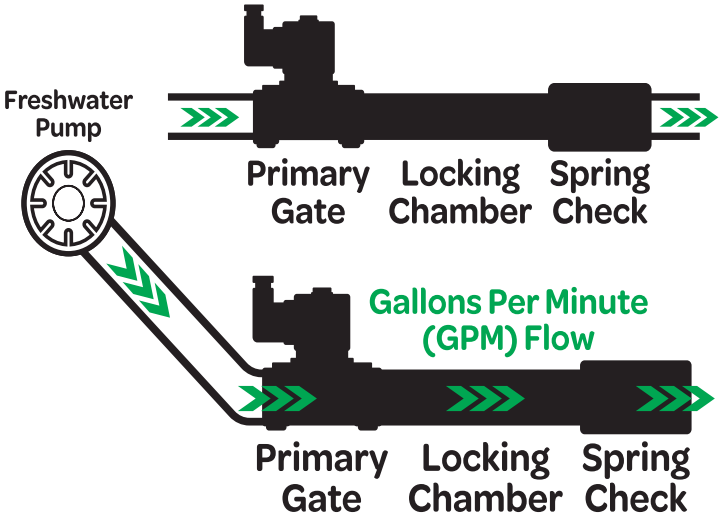
Flow Control

The Lock is a flow-control device comprised of unique components that are proprietary in design and operation. Generally, only ONE Hydrostatic Lock will be used with a particular PHIBER System's Control Module.

- The Hydrostatic Lock must be sized properly to ensure proper water flow (GPM) for a particular flushing application
- The System Voltage must be compatible with the Primary Gate and the FWF Switch in the Hydrostatic Lock Kit

Hydrostatic Lock Flow Rates

Max Flow Rate	Size
3.5 GPM	3/4"
6 GPM	1"
20 GPM	1 1/4"
29 GPM	1 1/2"
48 GPM	2"



General	
Max Upstream Pressure	+150 PSI
Max Downstream Pressure	-100 PSI <to> +150 PSI
Thread Types	NPT
Primary Gate Valve Type	Magnetic Solenoid (Norm-Closed)
Spring Check Type	Vacuum-Ball design
Spring Check Cracking Pressure	0.5 PSI
Lock Max Internal Pressure	100 PSI
Lock Material	316 Stainless Steel
Dimensions	(See drawings for specific Lock)
Weight (Entire Assembly)	(See drawings for specific Lock)

General	
Power Consumption (Prim Gate)	20W
Primary Gate Wire Pigtail	12" Length - 18AWG
Primary Gate Indicator LED	GREEN
FWF Switch Indicator LED	BLUE
FWF Switch	Blue Sea 4161 Momentary
Solenoid Voltage	12 or 24V DC
Primary Gate IP rating	IP67
Solenoid Position	Adjustable
Serviceable Components	Primary Gate (rebuild kit)
Warranty	2-year Materials & Labor

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