

# Submittal for Hycleen™ Automation Flushing Valve - LegioTherm K

Date \_\_\_\_\_

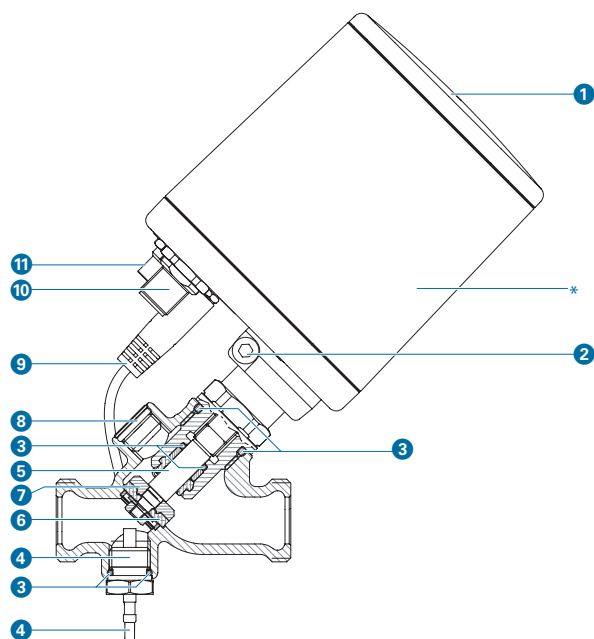
Contractor \_\_\_\_\_

Job Name \_\_\_\_\_

Engineer \_\_\_\_\_

Job Location \_\_\_\_\_

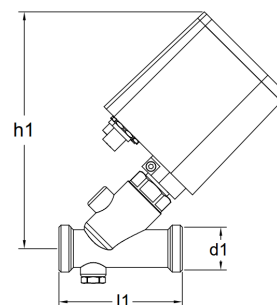
Approval \_\_\_\_\_



## Legend

- |                               |  |
|-------------------------------|--|
| 1 LED light ring              | 7 Plug                                   |
| 2 Screw                       | 8 PT1000 plug                            |
| 3 O-ring                      | 9 M12 plug                               |
| 4 Temperature sensor (PT1000) | 10 M8 plug for external sensor (4-20 mA) |
| 5 Spindle                     | * Controller                             |
| 6 Cone                        |  |

Product Code	Size (in)	Weight (lb)	d1 (in)	h1 (in)	l1 (in)
351110600	1/2" (DN 15)	1.79	3/4"	6.38	2.95
351110610	3/4" (DN 20)	2.25	1"	6.65	3.42



## Description

The Hycleen flushing valve (LegioTherm K) automatically flushes water lines (hot or cold) based on custom parameters. The flushing processes are triggered by time, flow or temperature to maintain a water exchange in the system, therefore reducing the risks associated with stagnant water.

## Features and Functions

- Adjustable lift: Flow rate with open valve
- Application: Flushing of cold or hot water installation.
- Fast, error-free wiring
- Integrated PT1000 temperature sensor, in valve, completely submerged in water.
- Bluetooth connection to tablet/smartphone. Bluetooth feature can be turned on/off.
- Controller incl. motor actuator with encoder; Valve position always known.
- Activity indicator (light ring) changes color to provide visual status of valve operation.

## Technical Data

Water temperature	34° - 194°F (1 - 90°C)
PT1000 temp. sensor accuracy	.23 F(1 C)
Control accuracy	< ± 1.8°F (1°C)
Maximum operating temperature	194°F (90°C)
Maximum operating pressure	145 psi (10 bar)
Ambient temperature	32° - 140°F (0 - 60°C)
Power supply	36 V DC
Actuator – minimum stroke	0.2 in. (5 mm)
Operating voltage	24 V DC
Power consumption in normal operation	6 W
Closing or opening times	approx. 15 seconds
Standards	DVGWVP 554 (2003.04)

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### Sample Specifications

Furnish and install as detailed on plans and described herein, automated flushing valves as manufactured by Georg Fischer LLC. Valve shall be fully automated dynamic flushing valve, have controller motor actuator with encoder, connections: Two M12 plug, PT1000 plug, M8 plug, a maximum operating pressure up to 145 psi, maximum temperature up to 194°F, factory temperature settings 77°F (temperature range 35°F – 194°F), control accuracy shall be  $< \pm 1.8^\circ\text{F}$ , with valve integrated PT1000 temperature sensor completely submerged in water, bluetooth connection to external tablet/smartphone with on/off options, activity indicator (LED light ring), EPDM o-ring, male threaded end connections, custom insulation block, 36V power supply.

### Hycleen Automation System - CSI Format Specification

#### Installation Tips

- The flushing valve can be installed in any position.
- An accessible shut-off valve upstream of the flushing valve is recommended.
- Discharge lines must be sized for maximum flow.

#### Applicable Documents

[Installation instructions, operating and maintenance instructions.pdf](#)

#### Material

Casing	Gunmetal
Follower / Spring / Seat	Stainless Steel
Valve cone	Gunmetal
Gaskets	EPDM

#### Spare Parts

Size	1/2" (DN 15)	3/4" (DN 20)
Mechanism	351110685	351110687
Controller	351110691	351110694
Insulation Box	351110680	351110681
Temperature Sensor	351110683	

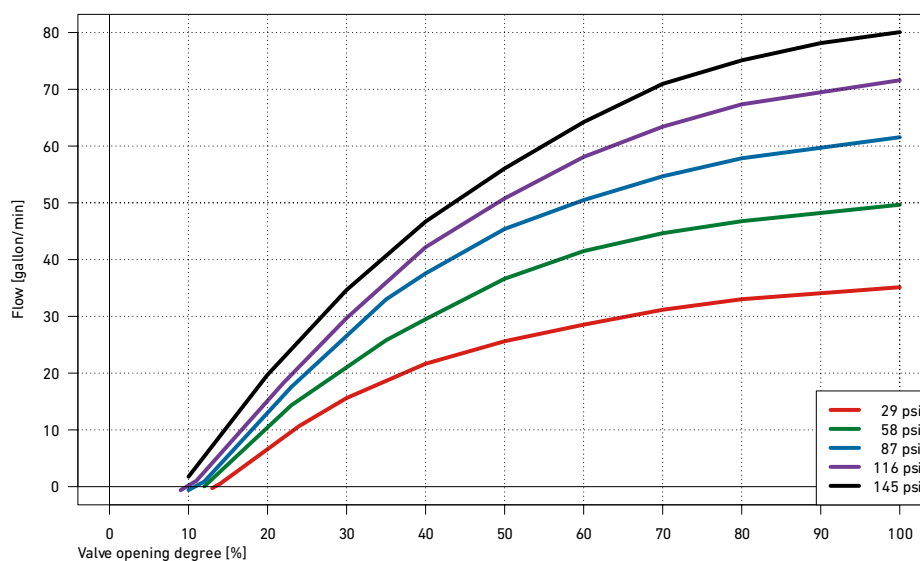
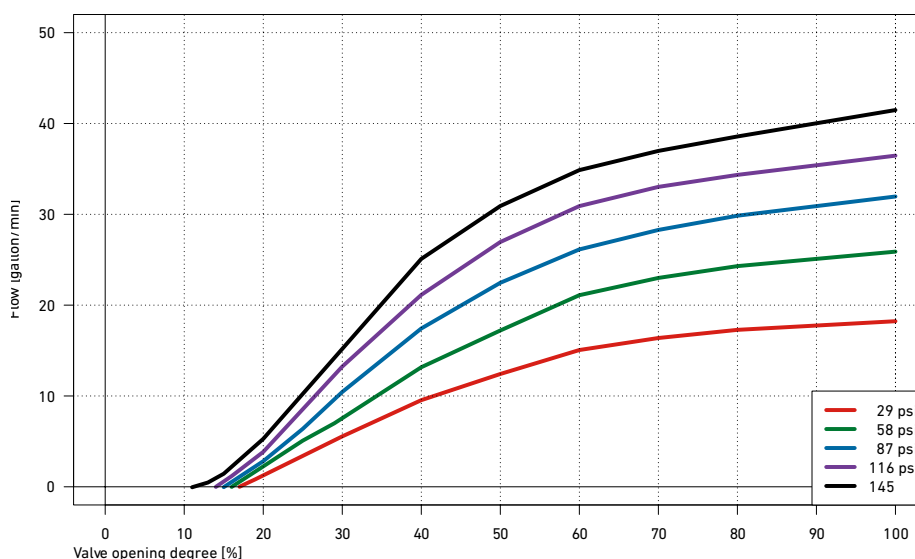
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## Nomogram Flushing Valve



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