FOAMTRONIC®

Electronic foam mixing technology

Accurate foam dosing for lower costs and environmental impact

FoamTronic.com

Smart foam proportioning for demanding fire risks

In industrial fire protection, foam proportioning must be accurate, reliable, and ready to perform under demanding conditions.

FoamTronic is an electronic foam mixing system that accurately mixes foam concentrate and water based on the actual firewater demand of the system.

By continuously monitoring both firewater flow and foam concentrate flow, FoamTronic adjusts the mixing ratio in real time. This ensures stable and precise foam proportioning, even when system demand changes during operation.

For industrial environments where fire protection performance is critical, FoamTronic provides control, accuracy, and flexibility when it matters most.

FM APPROVED

FoamTronic properties

✓	**FM Approved**
✓	**Smart technology**
✓	**Environmentally friendly testing**
✓	**High accuracy**
✓	**No pressure loss**
✓	**Self diagnostics**

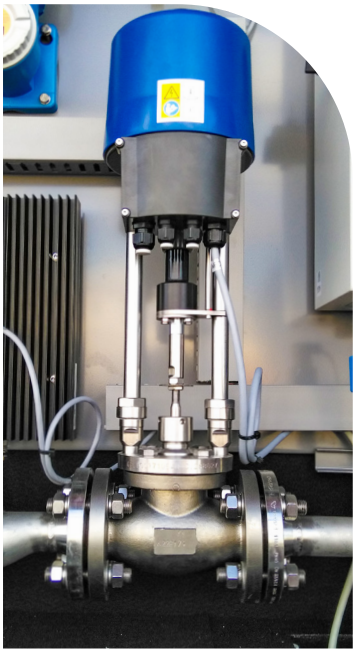
How FoamTronic works

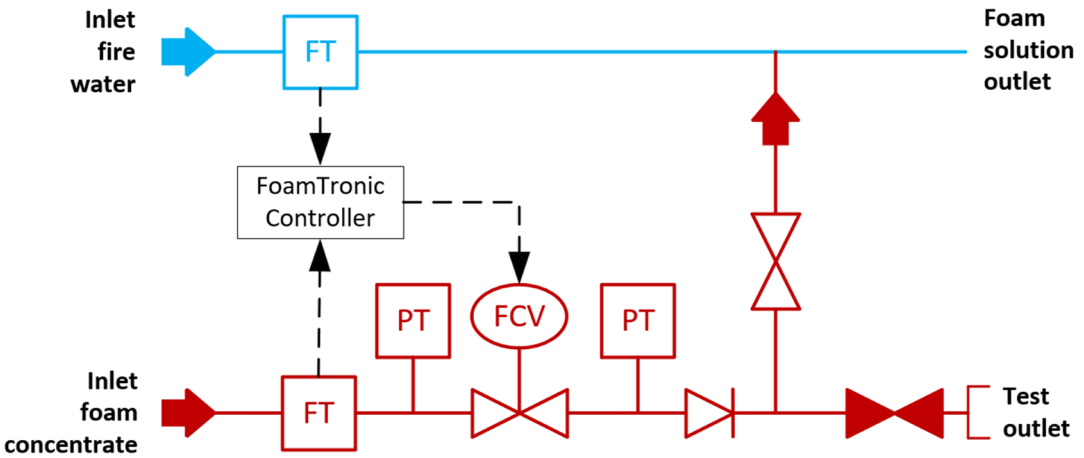
FoamTronic uses electromagnetic flowmeters to measure the firewater flow and foam concentrate flow continuously.

Based on this data, the system controls the concentrate flow control valve in real time. This ensures that the correct mixing ratio is maintained during operation or testing.

The accuracy and stability of FoamTronic are achieved through high-quality components, high-precision instrumentation, and a dedicated control system developed specifically for FoamTronic.

All process values, alarms, and events are recorded and available through the user interface.





Key benefits

- ✓ **High accuracy**
- ✓ **Real-time adjustment**
- ✓ **Stable foam proportioning**
- ✓ **Two configurable mixing ratios**
- ✓ **Reliable performance under changing demand**

Accurate control

The performance of a foam system depends on the correct percentage of foam concentrate in the water flow.

FoamTronic gives users precise control over the foam mixing ratio. The system automatically adjusts to changing flow conditions and keeps the proportioning stable.

FoamTronic can also be configured with two different preset mixing ratios, depending on the activation command received by the system.

This makes the system especially valuable for sites with different fire risks, multiple protection zones, or changing system requirements.

Suitable for
PFAS-free
foam concentrates

Flexible in foam concentrate

FoamTronic offers a high level of flexibility in foam concentrate selection.

The system is suitable for all types of foam concentrates, including PFAS-free foam concentrates, and can handle different mixing ratios, viscosities, and pseudoplastic properties.

Changing the foam concentrate brand, type, or viscosity at a later stage is also possible.

This makes FoamTronic a future-ready solution for companies that want flexibility in their foam strategy, especially as environmental requirements and foam technologies continue to evolve.

No pressure loss

A major advantage of FoamTronic is that there is no pressure loss in the firewater supply towards the extinguishing systems.

This supports efficient system design and reliable performance in demanding applications.

FoamTronic can be installed close to the foam storage tank, in remote locations, or as part of a centralized foam storage system with multiple FoamTronic units on site.

Testing without wasting foam concentrate

Regular testing is essential to prove system performance. FoamTronic makes this possible without mixing foam concentrate with water.

During testing, the injection point to the firewater system is isolated. The foam concentrate is diverted through a dedicated test outlet with a pressure-sustaining valve.

The water flow is started, and FoamTronic controls the mixing ratio as it would during actual operation. The foam concentrate is collected in a clean IBC or mobile tanker and can be returned to the foam concentrate storage tank after the test.

This allows the complete system to be tested without consuming foam concentrate, without creating foam solution, and without clean-up afterwards.

For the user, this means testing becomes more practical, more economical, and more environmentally responsible.

Built for reliability

FoamTronic is designed for demanding industrial environments.

The system is pre-assembled using high-quality components and fully tested in the factory before delivery. The cabinet is manufactured from stainless steel and powder-coated for maximum corrosion protection.

Reliability is supported by continuous signal monitoring and performance self-diagnostics. Every component of FoamTronic is monitored. The flow control valve is automatically tested daily, and the check valve in the foam concentrate supply line is monitored for leak-free operation.

The complete system operates on 24 VDC.

FM Approved performance

FoamTronic is available with FM Approval for a wide range of flow rates and mixing ratios.

This gives users a verified and flexible solution for industrial foam proportioning applications where accuracy, reliability, and high flow capacity are essential.

At a 3% mixing ratio, FoamTronic is available within the FM Approved range up to 40,020 l/min (10572 g/min), depending on foam selection and control valve Cv value.

FM Approvals

Certificate of Compliance

This certificate is issued for the following:

Foam Extinguishing Systems

Saval FoamTronic® Variable Viscosity Foam Proportioning Systems

Models:

DN25-1, DN25-2, DN25-3, DN25-4, DN40-1, DN40-2, DN40-3, DN50-1, DN50-2, DN50-3, DN65-1, DN65-2

Prepared for:

Saval BV
P.O. Box 3499, Huifakkerstraat 22, Breda 4815
Netherlands

Approval Standard: FM 5130 (May 2021)

Approval Identification: PR460309 Approval Granted: 1 August 2025

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

FM APPROVED

David B. Fuller
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FM Approvals
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Product range

The FM Approved FoamTronic product range is available in different sizes and mixing ratios, making it suitable for a wide variety of industrial fire protection systems. Flow rates stated are maximum values and subject to confirmation based on foam selection and control valve Cv value.

Mixing ratio in liters								
SIZE	**0,5%**		**1%**		**3%**		**6%**	
	Q min (l/min)	Q max (l/min)	Q max (l/min)	Q max (l/min)	Q max (l/min)	Q max (l/min)	Q max (l/min)	Q max (l/min)
DN25	1030	48030	515	24010	175	8000	90	4000
DN40	3315	70000	1660	42450	555	14150	280	7070
DN50	4425	70000	2220	66050	740	22010	370	11000
DN65	6940	70000	3470	70000	1160	40020	580	20010

Maximum working pressure foam concentrate 25 bar

Mixing ratio in gallons								
SIZE	**0,5%**		**1%**		**3%**		**6%**	
	Q min (g/min)	Q max (g/min)	Q min (g/min)	Q max (g/min)	Q min (g/min)	Q max (g/min)	Q min (g/min)	Q max (g/min)
1"	272	12688	136	6343	46	2113	24	1057
1½"	876	18492	439	11214	147	3738	74	1868
2"	1169	18492	586	17448	195	5814	98	2906
2½"	1833	18492	917	18492	306	10572	153	5286

Maximum working pressure foam concentrate 362 psi

FOAMTRONIC®

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