



FLOWSPRINK



ZNB ABOUT US

ZNB, with around 75 experienced employees, is a leading provider in the Benelux and France for installation sector solutions. We supply fire protection, HVAC, oil & gas, and OEM products. Based in Maastricht (NL), our headquarters and warehouse ensure efficient service across the Netherlands, Belgium, Luxembourg, and France. Our reach is expanding into Scandinavia, Southern Europe, and Africa. Additionally, ZNB offers sprinkler system prefabrication and pipe processing, including cutting, grooving, and threading.



OUR MARKETS



01.

Fire Sprinklers



02.

HVAC



03.

Oil & Gas



04.

**Maritiem /
OEM - Original Equipment
Manufacturer**

What is patented FlowSprink?

FlowSprink is an innovative sprinkler pipe solution designed to improve installation efficiency, maintain hydraulic performance, and increase overall system quality.

With FlowSprink's flow drilling technology, which is **patented** for Sprinklers, we are entering another new era. Up to **70% faster installation time** due to PREFAB.



Process



STEP 1

Drilling



STEP 2

Flow
Drilling



STEP 3

Flow
Tapping





VS



FLOWSPRINK

WELDED

All Benefits

at a glance



No deviation on pipe
straightness
Easier installation



**No chance of
assembly error**



**Faster Installation
Time**



No chance of crevice
corrosion or weld leaks
Longer service



Lowest possible
installation height
**More usable cubic
meters**



**Patented and
FM-approved**



FULLY ISO 14001 CERTIFIED

Environmental Benefits



No welding



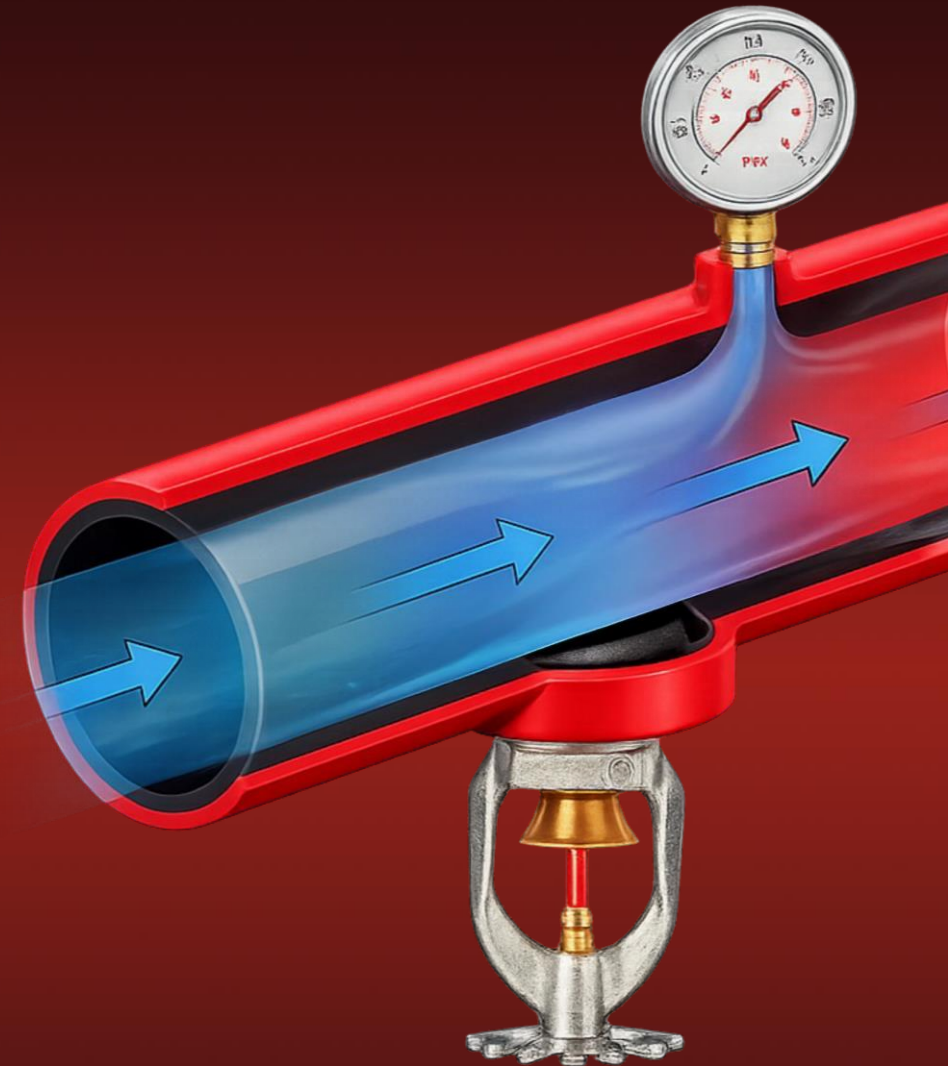
Lower CO₂ emission



**Reduced energy
consumption**

Hydraulic Performance

- Fully compatible with sprinkler hydraulics calculations.
- Full flow performance preserved.
- No impact on system pressure.



FM Approved

FOR THE FOLLOWING SIZES

Project Scope - Prefabricated Non-Gasketed Pipe Assemblies

Model No	Nominal Run Pipe Size	Nominal Outlet Size	Outlet Connection	Rated Working Pressure	
	DN	DN		psi	KPa
ZNB-FD	32	15, 20	NPT	300	2065
	40	15, 20	NPT	300	2065
	50	15, 20, 25	NPT	300	2065
	65	15, 20, 25	NPT	300	2065
	80	15, 20, 25	NPT	300	2065
	100	15, 20, 25	NPT	300	2065



Tests Performed by FM laboratories

Hydrostatic Strength



Rotational Bending Moment Resistance

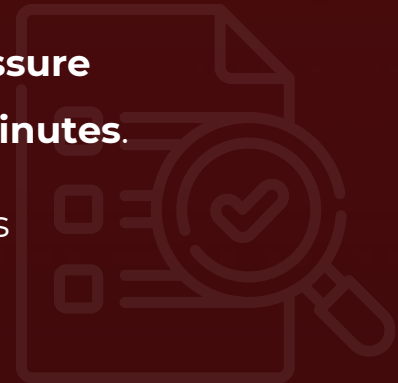
Vibration Resistance

Cycling Pressure Resistance

Friction Loss (K-factor) Test

FlowSprink was tested at **4 times the rated pressure (300 psi/ 20.7 Bar) = 1200 psi (≈82.7 bar)** for **5 minutes**.

Result: No leakage, cracking, or deformation was observed. **Test passed successfully.**



Tests Performed by FM laboratories

Hydrostatic Strength 

Rotational Bending Moment Resistance 

Vibration Resistance

Cycling Pressure Resistance

Friction Loss (K-factor) Test

The assembly was tested at **the rated working pressure of 300 psi (≈20.7 bar)** while bending moments were applied in two directions.

Result: No leakage or damage was observed. **Test passed successfully.**



Tests Performed by FM laboratories

Hydrostatic Strength 

Rotational Bending Moment Resistance 

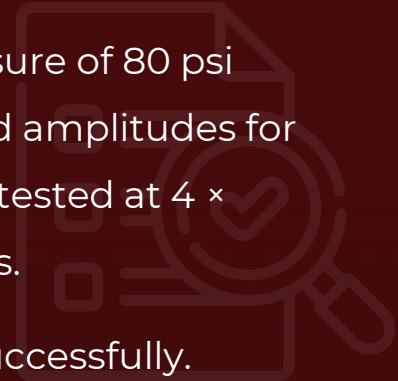
Vibration Resistance 

Cycling Pressure Resistance

Friction Loss (K-factor) Test

The assembly was tested under an internal pressure of 80 psi (≈ 5.5 bar) with different vibration frequencies and amplitudes for 5 hours per condition. After vibration, it was also tested at 4 × rated pressure = 1200 psi (≈ 82.7 bar) for 5 minutes.

Result: No damage was observed. Test passed successfully.



Tests Performed by FM laboratories

Hydrostatic Strength ✓

Rotational Bending Moment Resistance ✓

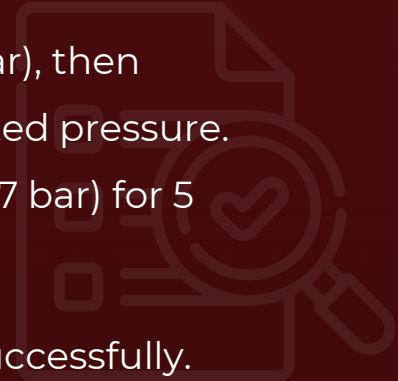
Vibration Resistance ✓

Cycling Pressure Resistance ✓

Friction Loss (K-factor) Test

The assembly was first tested at 300 psi (≈ 20.7 bar), then subjected to 20,000 pressure cycles up to the rated pressure. After cycling, it was tested again at 1200 psi (≈ 82.7 bar) for 5 minutes.

Result: No damage was observed. Test passed successfully.



Tests Performed by FM laboratories

Hydrostatic Strength 

Rotational Bending Moment Resistance 

Vibration Resistance 

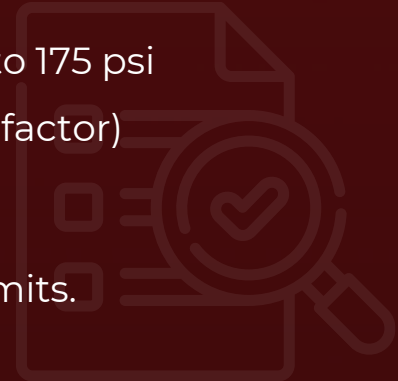
Cycling Pressure Resistance 

Friction Loss (K-factor) Test 

The product was tested at pressures from 15 psi to 175 psi (≈ 1.0 to 12.0 bar) and the discharge coefficient (K-factor) was measured.

Result: The measured values met the required limits.

Test passed successfully.



Standards & Compliance

- Suitable for sprinkler system applications
- Compatible with relevant EN and FM requirements
- Designed to meet industry safety and quality standards



Standards & Compliance



ISO 9001 – Quality Management
Ensures consistent quality and continuous improvement in our processes and customer satisfaction.



ISO 14001 – Environmental Management
Demonstrates our commitment to sustainability by minimizing environmental impact and promoting eco-friendly practices.



Logistics

Engineered in the Netherlands, distributed to all regions of Europe with our own trucks





FLOWSPRINK

JUMBO DISTRIBUTION CENTRE

Nieuwegein

85.000 Flowsprink connections

PROJECTS



FIEGE DISTRIBUTION CENTRE

Emmerich

8.568 Flowsprink connections

PROJECTS



LET'S GET IN TOUCH.



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IT'S IN OUR DNA

Revolutionary Sprinkler Technology

➔ [Flowsprink.com](https://flowsprink.com)



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