

LABORATORY TEST RESULTS

Report for:

XYZ Sprinkler Company
2357 VENTURA DR
STE 108
SAINT PAUL, MN 55125
PO# Example PO

Job Name:

Example Report
2357 Ventura Dr
Suite 108
Woodbury, MN 55125 United States
For Service Call: (800) 632-2304

Job Number:

103740

Number of Samples:

4

Date Received:

12/18/2024

Report Date:

12/22/2024

Page:

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Sample Information

Year Marking:	1970	Location:	Storage
Manufacturer:	Grinnell	Area:	Dyne Fire Protection Labs
Series, Model or SIN:	D	Harsh Environment:	Yes
Temp Rating (°F/°C):	155 / 68		
Response Type:	Standard Response		
Releasing Mechanism:	Fusible Link		
Water Seal Config:	Copper Gasket		
Dry Sprinkler:	No		
Thread Size:	1/2"		
Orientation:	Pendent		

Test Results

Sample Number: 1

Date Tested: 1/1/2022 12:37:22 PM

Test	Method	Test Value	Requirement	Test Result
Response Time, Sec.	LBTR-3404	72.3	0 - 123.3	Pass
Response Time Index (RTI), (m-s) ^{1/2}	LBTR-3404	205	≤ 350	Pass
Water Seal Release (7 PSI)	LBTR-3404	Full Release	Full Release	Pass

Decision Rule applied: Simple Acceptance; statements of compliance to specifications do not consider measurement uncertainty.

Pictures of this sprinkler in the condition it was received and an image(s) of the waterway post testing were made available via a link (active for 90 days) in the results email and are also available upon request. An assessment of the water delivery is not part of the field service test as described by NFPA 25 and, therefore, Dyne does NOT determine if any narrowing of the waterway is detrimental.

The field service test PASS/FAIL designation is solely based upon the sensitivity results (response time/response time index) and whether the sprinkler waterway fully released according to NFPA 25 A.5.3.1.1 (most current, 2023 Ed.). The sprinkler's appearance is NOT considered as part of this evaluation. The sprinkler's appearance shall be evaluated during the annual floor level inspection according to NFPA 25 5.2.1.1 (most current, 2023 Ed.) and any sprinklers that fails the floor level inspection should be replaced before sampling/testing according to NFPA 25 A.5.3.1.1 (most current, 2023 Ed.).

According to the NFPA 25 5.3.1.3 (most current, 2023 Ed.), "Where one sprinkler within a representative sample fails to meet the test requirement, all sprinklers within the area represented by that sample shall be replaced." If all sprinklers within a representative sample meet the test requirements and the sprinklers represented by that sample remain in service, they shall be listed for use in your system/application and must be resampled and retested in 5 or 10 years (depending on sprinkler type and environment) in accordance with NFPA 25 5.3.1 (most current, 2023 Ed.)

Grant Lobdell, President



It is the responsibility of the property owner or designated representative to ensure the sample information is correct and to correct deficiencies or impairments, including identifying and replacing any recalled products. The results relate only to the sample tested using a limited number of laboratory-scale methods and do not guarantee the system will operate properly. This report shall not be reproduced except in full without the written consent of Dyne Fire Protection Labs, LLC.



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Sample Information

Year Marking:	1970	Location:	South
Manufacturer:	Grinnell	Area:	Dyne Fire Protection Labs
Series, Model or SIN:	D	Harsh Environment:	Yes
Temp Rating (°F/°C):	155 / 68		
Response Type:	Standard Response		
Releasing Mechanism:	Fusible Link		
Water Seal Config:	Copper Gasket		
Dry Sprinkler:	No		
Thread Size:	1/2"		
Orientation:	Pendent		

Test Results

Sample Number: 2

Date Tested: 1/1/2022 12:21:30 PM

Test	Method	Test Value	Requirement	Test Result
Response Time, Sec.	LBTR-3404	61.2	0 - 123.3	Pass
Response Time Index (RTI), (m-s) ^{1/2}	LBTR-3404	174	≤ 350	Pass
Water Seal Release (7 PSI)	LBTR-3404	Full Release	Full Release	Pass

Decision Rule applied: Simple Acceptance; statements of compliance to specifications do not consider measurement uncertainty.

Pictures of this sprinkler in the condition it was received and an image(s) of the waterway post testing were made available via a link (active for 90 days) in the results email and are also available upon request. An assessment of the water delivery is not part of the field service test as described by NFPA 25 and, therefore, Dyne does NOT determine if any narrowing of the waterway is detrimental.

The field service test PASS/FAIL designation is solely based upon the sensitivity results (response time/response time index) and whether the sprinkler waterway fully released according to NFPA 25 A.5.3.1.1 (most current, 2023 Ed.). The sprinkler's appearance is NOT considered as part of this evaluation. The sprinkler's appearance shall be evaluated during the annual floor level inspection according to NFPA 25 5.2.1.1 (most current, 2023 Ed.) and any sprinklers that fails the floor level inspection should be replaced before sampling/testing according to NFPA 25 A.5.3.1.1 (most current, 2023 Ed.).

According to the NFPA 25 5.3.1.3 (most current, 2023 Ed.), "Where one sprinkler within a representative sample fails to meet the test requirement, all sprinklers within the area represented by that sample shall be replaced." If all sprinklers within a representative sample meet the test requirements and the sprinklers represented by that sample remain in service, they shall be listed for use in your system/application and must be resampled and retested in 5 or 10 years (depending on sprinkler type and environment) in accordance with NFPA 25 5.3.1 (most current, 2023 Ed.)



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Sample Information

Year Marking:	1970	Location:	East
Manufacturer:	Grinnell	Area:	Dyne Fire Protection Labs
Series, Model or SIN:	D	Harsh Environment:	Yes
Temp Rating (°F/°C):	155 / 68		
Response Type:	Standard Response		
Releasing Mechanism:	Fusible Link		
Water Seal Config:	Copper Gasket		
Dry Sprinkler:	No		
Thread Size:	1/2"		
Orientation:	Pendent		

Test Results

Sample Number: 3

Date Tested: 1/1/2022 12:36:48 PM

Test	Method	Test Value	Requirement	Test Result
Response Time, Sec.	LBTR-3404	89.4	0 - 123.3	Pass
Response Time Index (RTI), (m-s) ^{1/2}	LBTR-3404	254	≤ 350	Pass
Water Seal Release (7 PSI)	LBTR-3404	Full Release	Full Release	Pass

Decision Rule applied: Simple Acceptance; statements of compliance to specifications do not consider measurement uncertainty.

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Sample Information

Year Marking:	1970	Location:	West
Manufacturer:	Grinnell	Area:	Dyne Fire Protection Labs
Series, Model or SIN:	D	Harsh Environment:	Yes
Temp Rating (°F/°C):	155 / 68		
Response Type:	Standard Response		
Releasing Mechanism:	Fusible Link		
Water Seal Config:	Copper Gasket		
Dry Sprinkler:	No		
Thread Size:	1/2"		
Orientation:	Pendent		

Test Results

Sample Number: 4

Date Tested: 6/11/2020 10:52:55 AM

Test	Method	Test Value	Requirement	Test Result
Response Time, Sec.	LBTR-3404	72.0	0 - 123.3	Pass
Response Time Index (RTI), (m-s) ^{1/2}	LBTR-3404	205	≤ 350	Pass
Water Seal Release (7 PSI)	LBTR-3404	Full Release	Full Release	Pass

Decision Rule applied: Simple Acceptance; statements of compliance to specifications do not consider measurement uncertainty.

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