

Certificate of Compliance

This certificate is issued for the following:

Firefighting Nozzles for Use with Hose, Monitor Assemblies and other Firefighting Equipment

**QuadraFog Series, ThunderFog Series, Mid-matic Series, and G-Force Series
Handline Firefighting Nozzles
and
ZM Series and ZO Series Master Stream Nozzles**

Prepared for:

Task Force Tips LLC
3701 Innovation Way, Valparaiso, IN 46383-9327
United States

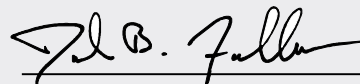
Approval Standard: FM 5511 (December 2021)

Approval Identification: PR464945

Approval Granted: 12 May 2026

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.

A handwritten signature in black ink, appearing to read 'D.B. Fuller', written over a horizontal line.

David B. Fuller
VP, Manager – Fire Protection
FM Approvals
One Technology Way
Norwood, MA 02062



RE-EXAMINATION REPORT

Project No: PR464945

Class: 5511

Product Name: QuadraFog Series, ThunderFog Series, Mid-matic Series and G-Force Series Handline Firefighting Nozzles and ZM Series and ZO Series Master Stream Nozzles

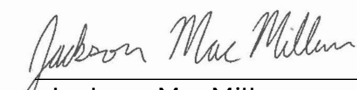
Name of Listing Company: Task Force Tips LLC

Address of Listing Company: 3701 Innovation Way
Valparaiso IN
46383-9327
United States

Customer ID: 1000010298-1

Customer website: www.tft.com

Prepared by

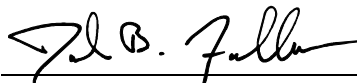


Jackson MacMillan
Advanced Engineer

Reviewed by



Brian MacDonald
AVP, Technical Team Manager



David B. Fuller
Manager of Fire Protection

12 May 2026

Date of Approval

1 INTRODUCTION

1.1 A re-examination was conducted on Task Force Tips LLC's handline firefighting nozzles and master stream nozzles in order to meet compliance with the revised version of the FM Examination Standard for Firefighting Nozzles for Use with Hose, Monitor Assemblies and other Firefighting equipment published in December 2021.

1.2 This report may be freely reproduced only in its entirety and without modification.

1.3 Standards

1.3.1 United States Standards

Title	Number	Issue Date
Examination Standard for Firefighting Nozzles for Use with Hose, Monitor Assemblies and Other Firefighting Equipment	5511	December 2021

1.4 Listing

The products will appear in the Approval Guide, an on-line resource of FM Approvals, as it appears in the "*Approval Guide Listing*" attachment to this report.

Task Force Tips LLC's firefighting nozzles were originally approved under the following project identifiers, and therefore this report supplements the following reports:

Project Identification	Description	Date Issued
3024613	Approval Report – Quadrafog, Thunderfog, and Mid-Matic Series	28 August 2006
3028839	Approval Report – Quadrafog, Thunderfog, and mid-matic series nozzles	12 September 2007
3036331	Approval Report – ZM series monitor nozzles	28 October 2009
3040179	Approval Report – ZO series nozzles in configurations of 1750 gal/min (6624 L/min), 2000 gal/min (7570 L/min), or 2500 gal/min (9463 L/min) at 100 psi (7 BAR)	12 December 2011
3044285	Approval Report – model G-force series handheld firefighting nozzles	8 August 2012
3045707	Approval Report – Examination of changes to the monsoon monitor and hurricane monitor and examination for approval of the ZO 1250 and ZO 1500 monitor nozzles	12 November 2013 (supersedes report dated 29 April 2013)

2 DESCRIPTION

2.1 A re-examination was conducted on the following Task Force Tips LLC firefighting nozzles in order to meet compliance with the revised version of FM Approval Examination Standard for

Firefighting Nozzles for Use with Hose, Monitor Assemblies and Other Firefighting Equipment
published in December 2021.

Table 2.1 Task Force Tips LLC's Handline Nozzles

Model	Nozzle Type	Rated Flow Gpm (Lpm)	Rated Pressure psi (bar)	Inlet Connection	Construction Material
QuadraFog Series	Constant/Select Gallonage	30, 60, 95, 125 (110, 230, 360, 470)	100 (7)	1.5, 1.75, 2.0, 2.5, or 3.0" NH (38, 44, 52, 65 or 75 mm)	Aluminium
ThunderFog Series (Model FT200F etc)	Constant/Select Gallonage	30, 60, 95, 125, 150, 200 (110, 230, 360, 470, 570, 750)	100 (7)	1.5" NH (38 mm)	Aluminium
ThunderFog Series (Model FT250F etc)	Constant/Select Gallonage	95, 125, 150, 200, 250 (360, 470, 570, 750, 950)	100 (7)	1.5 or 2.5" NH (38 or 65 mm)	Aluminium
ThunderFog Series (Model JT250F etc)	Constant/Select Gallonage	95, 125, 150, 200, 250 (360, 470, 570, 750, 950)	100 (7)	2.5" NH (65 mm)	Aluminium
Mid-matic Series	Constant Pressure	70 to 200 (260 to 750)	100 (7)	1.5, 2.0 or 2.5" NH (38, 52, or 65 mm)	Aluminium
G-Force Series	Constant Gallonage	150 (570)	100 (7)	1, 1.5, or 2.0" BSP 52 mm Storz, 1.5 or 2.5" NH, 2.5" BIC Male, 1.5, 2.0" Articulated BSP, 2.5" articulated BIC, Armada, 2.5" BSP and Chinese Snap Fit	Aluminium
	Constant/Select Gallonage	30, 60, 95, 125, 150 (110, 230, 360, 470, 570)	100 (7)		Aluminium
	Constant Pressure	60 – 150 (250 – 570)	100 (7)		Aluminium
		30 – 95 or 95 – 150 (100 – 360 or 360 – 570)	100 (7)		
		30 – 70, 70 – 110, or 110 – 150 (100 – 270, 270 – 430, or 430 – 570)	100 (7)		

Table 2.2 Task Force Tips LLC's Master Stream Nozzles

Model	Nozzle Type	Rated Flow Gpm (Lpm)	Rated Pressure psi (bar)	Inlet Connection	Construction Material
ZM Series	Constant Gallonage	1000, 1250 (3785, 4732)	100 (6.8)	2.5" – 7.5 NH, 2.5" – 11 NPSH or BSP thread	Aluminium
ZO Series	Constant Gallonage	1250, 1500, 1750, 2000 (4800, 6000, 6600, 7500)	100 (6.8)	3.5" – 6 NH or 3.5" – 11 BSP thread	Aluminium

- 2.2** The firefighting nozzles listed in Table 2.1 are handlines nozzles intended for use as a fire hose nozzle and the firefighting nozzles listed in Table 2.2 are master stream nozzles intended for use with monitors.

3 EXAMINATIONS AND TESTS

- 3.1** Samples were submitted for examination and testing. The samples were considered to be representative of the product line and were examined, tested, and compared to the manufacturer's drawings. All data is on file at FM Approvals along with other documents and correspondence applicable to this program.
- 3.2** All testing and analysis considered appropriate was conducted and verified to be in compliance with the Standards defined in Section 1.3.

4 MARKING

- 4.1** The information appearing in the markings applied to the firefighting nozzle products has not changed. The report filed under the original Approval program may be referenced for marking details.

5 REMARKS

- 5.1** The FM Global Property Loss Prevention Data Sheets should be strictly adhered to when installing this product.
- 5.2** Installations shall comply with the latest edition of the manufacturer's instruction manual.

6 SURVEILLANCE AUDIT

The design and manufacturing facilities at the following location(s) shall be visited on a routine basis. The facility processes and quality control procedures in place have been determined to be satisfactory to manufacture product identical to that tested and Approved. An FM Approved Products/Specification Tested Revision Request Form shall be submitted to FM Approvals for requesting to manufacture product at any additional or alternate manufacturing facilities which are not listed below.

Design and Manufacturing

Task Force Tips LLC
3701 Innovation Way
Valparaiso IN
46383-9327
United States

7 MANUFACTURER'S RESPONSIBILITIES

- 7.1** Documentation considered critical to this Approval is on file at FM Approvals and is listed in the Documentation File, Section 8, of this Report. No changes of any nature shall be made unless notice of the proposed change has been given and written authorization obtained from FM Approvals. The FM Approved Revision Request form shall be forwarded to FM Approvals as notice of proposed changes.

- 7.2** FM Approvals requires assurance that subsequent equipment produced will present the same quality and reliability as the specified samples examined. The manufacturer must maintain a quality assurance program, which includes as a minimum: incoming, in process, and final inspection and testing, equipment calibration, and drawing change control.
- 7.3** In accordance with the Master Agreement, the manufacturer shall make full and immediate disclosure to FM Approvals of all information concerning any defect in, or potential hazard of, the product or service manufactured or provided by the Customer which is Approved by, or being examined by, FM Approvals. The manufacturer shall make all necessary arrangements for the investigation of complaints / anomalies applicable to this approval and shall keep records of all complaints / anomalies including actions taken.
- 7.4** The manufacturer shall test 100 percent of production nozzle assemblies for body leakage at two times its rated pressure. The pressure shall be held for a minimum of 15 seconds with no ruptures, leakage or noticeable distortions.

8 DOCUMENTATION

All documents pertinent to this Approval are on file with FM Approvals under the original Approval programs.

9 CONCLUSION

The firefighting nozzles described in this report meet FM Approvals' requirements. Since a duly signed Master Agreement is on file for Task Force Tips LLC, Approval is effective the date of this report.

PROJECT DATA RECORD: PR464945

ATTACHMENTS: Appendix I – Approval Guide Listings
Appendix II – Critical Document List (Blueprint Report)

Appendix I - Approval Guide Listing

Fire Protection > Hydrants & Hoses > Firefighting Nozzles > Firefighting Nozzles for use with Fire Hoses > Task Force Tips LLC + Indiana 46383 + USA

QuadraFog Series Models FQ125F...

QuadraFog Series, Models FQ125F, FQ125F-IF, FQ125S, FQ125S-IF, FQR-EUF-NF, FQR-EUS-BF, FQS125F, FQS125F-IF, FQS125PF, FQS125PF-BR, FQS125PF-IF, FQS125PF-SL, FQS125PS, FQS125PS-BR, FQS125PS-IF, FQS125S, FQS125S-IF, FQS-EUPF-BIC, FQS-EUPF-IF, FQS-EUPS-BF, FQS-EUPS-BG, FQS-EUPS-BIC, FQS-EUPS-IF, FQS-EUPS-NF, and FQS-EUS-BF. Selectable gallonage type nozzles, with four flow settings of 30, 60, 95, and 125 gpm (110, 230, 360, and 470 Lpm) at 100 psi (7 bar). Nozzles are of aluminum construction, are available with either fixed fog teeth or stainless steel spinning teeth, and include 1.5, 1.75, 2.0, 2.5, or 3.0 in. (38, 44, 52, 65, or 75 mm) inlet connections.

ThunderFog Series Models FT200F...

ThunderFog Series, Models FT200F, FT200F-IF, FT200S, FT200S-IF, FT250F-IF, FT250S-IF, FTR-EVS-BF, FTS200F, FTS200F-IF, FTS200PF, FTS200PF-IF, FTS200PS, FTS200PS-IF, FTS200S, FTS200S-IF, FTS-EWPS-BF, and FTS-EWPS-IF. Selectable gallonage type nozzles, with six flow settings of 30, 60, 95, 125, 150, and 200 gpm (110, 230, 360, 470, 570, and 750 Lpm) at 100 psi (7 bar). Nozzles are of aluminum construction, are available with either fixed fog teeth or stainless steel spinning teeth, and include a 1.5 in. (38 mm) inlet connection.

ThunderFog Series Models FT250F...

ThunderFog Series, Models FT250F, FT250S, FTS250F, FTS250F-IF, FTS250PF, FTS250PF-IF, FTS250PS, FTS250PS-IF, FTS250S, FTS250S-IF, JT250F, JT250F-IJ, JT250S, JT250S-IJ, JTR-EVF-BJ, JTS250F, JTS250F-IJ, JTS250PF, JTS250PF-IJ, JTS250PPF, JTS250PPF-IJ, JTS250PPS, JTS250PPS-IJ, JTS250PS, JTS250PS-IJ, JTS250S, JTS250S-IJ, JTS-EVPF-BJ, JTS-EVPS-BIC, and JTS-EVPS-BJ. Selectable gallonage type nozzles, with five flow settings of 95, 125, 150, 200, and 250 gpm (360, 470, 570, 750, and 950 Lpm) at 100 psi (7 bar). Nozzles are of aluminum construction, are available with either fixed fog teeth or stainless steel spinning teeth, and include 1.5 or 2.5 in. (38 or 65 mm) inlet connections.

ThunderFog Series Models JT250F...

ThunderFog Series, Models JT250F, JT250S, JTS250F, JTS250S, JTS250PF and JTS250PS: selectable gallonage type, with five flow settings of 95, 125, 150, 200 and 250 gpm (360, 470, 570, 750 and 950 Lpm) at 100 psi (7 bar) and a 2 1/2 in. NH inlet connection. Nozzles are of aluminum construction and are available with either fixed fog teeth or stainless steel spinning teeth.

Mid-matic Series Models HM-VPGI...

Mid-Matic Series, Models HM-STO, HM-STO-IF, HM-TO-IF, HM-V, HM-V-IF, HM-VPGI, HM-VPGI-38MM, HM-VPGI-52MM, HM-VPGI-65MM, HM-VPGI-BIC, HM-VPGI-BJ, HM-VPGI-BSP, and HM-VPGI-IF. Constant pressure type nozzles, with a rated flow of 70 to 200 gpm (260 to 750 Lpm) at 100 psi (7 bar). Nozzles are of aluminum construction, include a molded rubber bumper with "power fog" teeth, and include 1.5, 2.0, or 2.5 in. (38, 52, or 65 mm) inlet connections.

Model G-Force Series

The Model G-Force Series nozzles are FM Approved with multiple options, which include; inlet, style, pressure control, shaper control, and fog teeth.

Nozzle configurations are defined by; Series ID, Inlet ID, Style ID, Pressure Control ID, Shaper Control ID, Fog Teeth ID. For example, a Model G-Force nozzle with the following configuration would be identified as GF3A3F:

G – Series G
F – 1.5" NH Female Inlet
3 – Valve and Pistol Grip Style
A – Fixed Flow of 150 gpm at 100 psi Pressure Control
3 – Lock lever Shaper Control
F – Fixed Fog Teeth

All possible nozzle options, ID, and ID descriptions are listed below;

Series	ID	Description
	G	Model G-Force Series
Inlet	ID	Description
	A	1.0"BSP Female
	B	1.5" BSP Female
	C	2.0" BSP Female
	D	2.0" BSP Male
	E	52 mm Storz
	F	1.5" NH Female
	H	2.5" BIC Male
	J	2.5" NH Female
	K	Articulated, 1.5" BSP Female
	L	Articulated, 2.0" BSP Male
	M	Articulated, 2.5" BIC Male
	N	Armada
	Q	2.5" BSP Female
	R	2.5" BSP Male
	S	2.5" Chinese Snap Fit
Style	ID	Description
	1	Tip Only
	2	Valve
	3	Valve and Pistol Grip
Pressure Control	ID	Description
	A	Fixed Flow of 150 gpm at 100 psi
	C	Selectable Flow of 30, 60, 95, 125, or 150 gpm at 100 psi
	E	Automatic Flow Range of 60-150 gpm at 100 psi
	G	Automatic Flow with Flow Limiting of 60-150 gpm at 100 psi (Low Setting with a 150 gpm Inlet Opening)

	H	Automatic Flow with Flow Limiting of 30-95 or 95-150 gpm at 100 psi
	J	Automatic Flow with Flow Limiting of 30-70, 70-110, or 110-150 gpm at 100 psi
	N	110/230/360/470/570 lpm at 700kPa
	R	Auto 7 bar 250-570 lpm, Low (570 i.o.)
	S	Auto 7 bar 100-360, 360-570 lpm
	T	Auto 7 bar 100-270, 270-430, 430-570 lpm
Shaper Controls	ID	Description
	1	Tactile Indicator
	2	Tactile Indicator and Detent
	3	Lock lever
	4	Tactile Indicator and Lock
Fog Teeth	ID	Description
	F	Fixed
	S	Spinning
	M	Metal

Company Name:	Task Force Tips LLC
Company Address:	3701 Innovation Way, Valparaiso, IN 46383-9327 United States
Company Website:	http://tft.com
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	5511-Water Spray Nozzles, FHose

Fire Protection > Hydrants & Hoses > Firefighting Nozzles > Firefighting Nozzles for use with Monitor Assemblies > Manually Operated Master Stream Nozzles > Task Force Tips LLC + Indiana 46383 + USA

ZM Series Nozzles

Product Specification

Model No	Construction Material	Nozzle Type	Inlet Connection	Rated Flow		Rated Pressure	
				gpm	(Lpm)	psi	(bar)
ZM131	Aluminum	Constant Gallonage	2.5" – 7.5 NH	1000	(3785)	100	(6.8)
ZM141	Aluminum	Constant Gallonage	2.5" – 7.5 NH	1250	(4732)	100	(6.8)
ZM231	Aluminum	Constant Gallonage	2.5" – 11 NPSH	1000	(3785)	100	(6.8)
ZM241	Aluminum	Constant Gallonage	2.5" – 11 NPSH	1250	(4732)	100	(6.8)
ZM331	Aluminum	Constant Gallonage	2.5" – 11 BSP	1000	(3785)	100	(6.8)
ZM341	Aluminum	Constant Gallonage	2.5" – 11 BSP	1250	(4732)	100	(6.8)

ZO Series Nozzles

Product Specification

Model No	Construction Material	Nozzle Type	Inlet Connection	Rated Flow		Rated Pressure	
				gpm	(Lpm)	psi	(bar)
ZO11	Aluminum	Constant Gallonage	3.5" – 6 NH	1250	(4800)	100	(6.8)
ZO12	Aluminum	Constant Gallonage	3.5" – 6 NH	1500	(6000)	100	(6.8)
ZO13	Aluminum	Constant Gallonage	3.5" – 6 NH	1750	(6600)	100	(6.8)
ZO14	Aluminum	Constant Gallonage	3.5" – 6 NH	2000	(7500)	100	(6.8)
ZO21	Aluminum	Constant Gallonage	3.5" – 11 BSP	1250	(4800)	100	(6.8)

FM APPROVALS PROJECT NO: PR464945

ZO22	Aluminum	Constant Gallonage	3.5" – 11 BSP	1500	(6000)	100	(6.8)
ZO23	Aluminum	Constant Gallonage	3.5" – 11 BSP	1750	(6600)	100	(6.8)
ZO24	Aluminum	Constant Gallonage	3.5" – 11 BSP	2000	(7500)	100	(6.8)

Company Name:	Task Force Tips LLC
Company Address:	3701 Innovation Way, Valparaiso, IN 46383-9327 United States
Company Website:	http://tft.com
Listing Country:	United States of America
Certification Type:	FM Approved
Class of Work:	5511-Water Spray Nozzles, FHose