

# *Certificate of Conformance*

*to*

*EN 15182-4 (2019) Handheld Branchpipes for Fire Service Use*

*Task Force Tips, LLC certifies that the following nozzles meet or exceed the requirements found in EN 15182-1 (2019) and EN 15182-4 (2019) standards.*

## **QuadraFog 235 PN40**



*For supporting documentation,  
contact us at [www.tft.com](http://www.tft.com)*

***TASK FORCE TIPS***

*Delivers what our customers need, when they need it.*



TASK FORCE TIPS LLC  
REGISTERED TO ISO 9001:2015  
FILE NUMBER 10001004 QM15

**Annex C**  
(normative)

**Datasheet for hand-held branchpipes for fire service use**

**C.1 General**

**NOTE 1** The symbol \* means “where applicable” in the whole datasheet

**NOTE 2** Actual test results can be entered in the data sheet when these results exceed the minimum requirements given in this Standard

**C.2 General data**

1.1 Manufacturer	<b>Task Force Tips, LLC – Valparaiso, IN - USA</b>
1.2 Type	<b>QuadraFog 235 HP</b>
1.3 Type according to EN 15182-1 Annex A	<b>Type 3</b>
1.4 Flowrate (l/min) at $p_R$	<b>235 l/min @ 6 bar</b>
1.5 Flow settings *	<b>20-40-100-150-235</b>
1.6 Type of spray *	<b>Hollow Cone streaming/Full Cone alternately</b>

**C.3 Flow pressure chart**

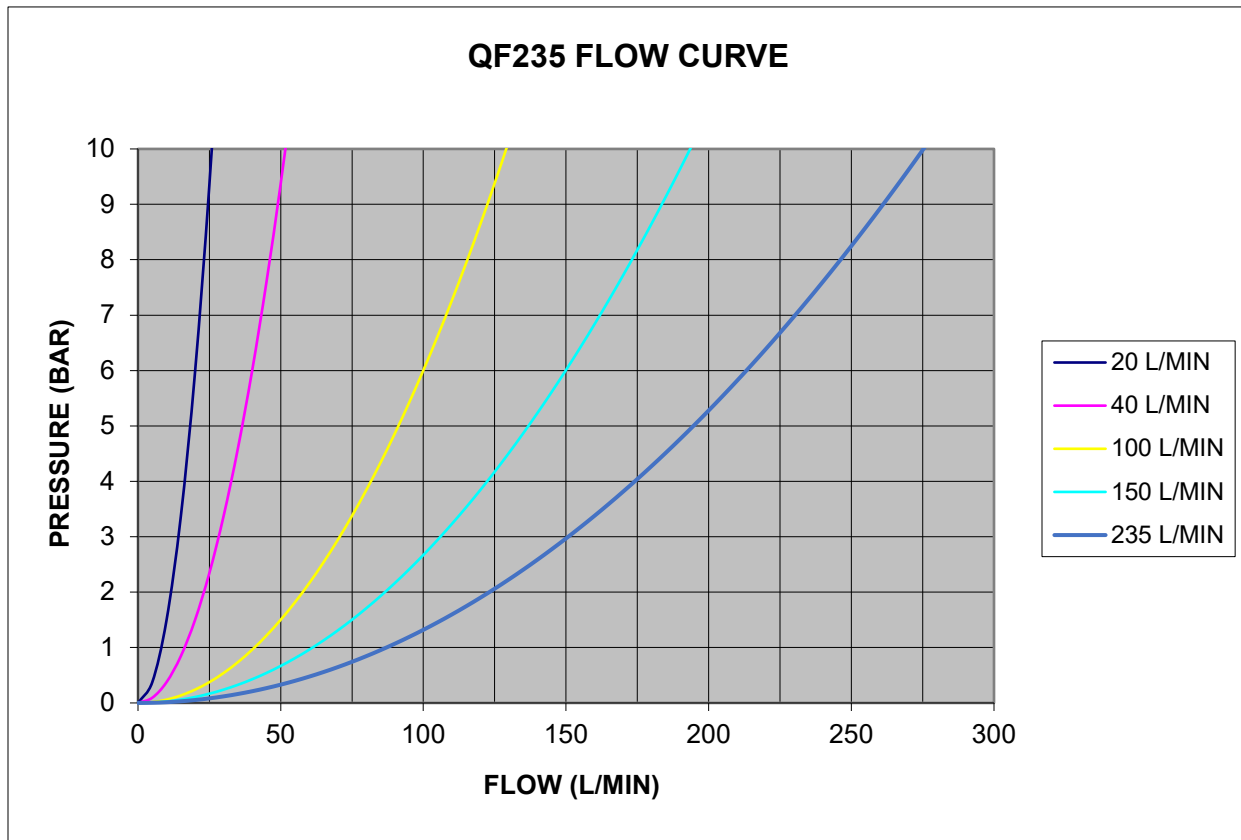
Use the following symbols to represent different types of cone spray:



Hollow Cone	Full Cone	Hollow/Full Cone alternately	Hollow Cone combined with Narrow Jet	Hollow Cone combined with Full Jet
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Use the following symbols to represent flow at spray types (NN represents throw in METERS):

Full Jet	Narrow Spray Jet	Maximum Spray Jet



**20 l/min**

12

6

3

**40 l/min**

18

8

4

**100 l/min**

21

13

6

**150 l/min**

28

14

7

**235 l/min**

31

16

8

## C.4 Operational devices

3.1 Fitting system	Swiveling Coupling
3.2 Gripping device	Pistol Grip
3.3 Open/shut-off device *	Ball Valve
3.4 Jet/spray system *	Rotating operating element (bumper)
3.5 Flow adjustment system *	Rotating operating element (ring)

## C.5 Requirements

OPERATING AND HANDLING	Relevant sub clause number per standard	Item	Minimum Requirement	Test Result	
	EN 15182-4/4.2.1	<b>Dimensions (mm)</b>	≤ 550x350x150	270x225x95	
	EN 15182-4/4.2.1	<b>Mass (kg)</b>	≤ 3.5	1.27	
	EN 15182-4/4.2.2	<b>Torques needed for moving operating elements (N·m)</b>			
		Lever *	≤ 15	N/A	
		Valve Handle *	≤ 15	2.3	
		Flow adjustment element	≤ 15	1.6	
		Jet adjustment element	≤ 10	1.0	
	EN 15182-4/4.2.3	Rotating inlet element	≤ 5	2.0	
		<b>Flow adjustment *</b>			
EN 15182-4/4.2.4	Rotation from minimal to maximal flow	≤ 180°	129°		
	<b>Jet adjustment *</b>				
	Rotation from straight jet to wide spray jet with a minimal spray angle of 100°	70° - 180°	174°		

PERFORMANCE	Relevant sub clause number per standard	Item	Minimum Requirement	Test Result
	EN 15182-4/4.3.3	Effective throw (m)	27	31
		<b>Spray jet *</b>		
	EN 15182-4/4.2.4	Wide spray jet *: angle	≥ 100°	146°
EN 15182-4/4.2.5	Narrow spray jet *: angle	≥ 30°	61°	

PHYSICS	Relevant sub clause number per standard	Item	Minimum Requirement	Test Result
	EN 15182-1/6.5.3	<b>Sensitivity to frost (° C)</b>	Operational after 30 min @ (-15±2)°C	PASS
	EN 15182-1/6.5.2	<b>Sensitivity to heat (° C)</b>	Operational after 24 h @ (55±2)°C	PASS
	EN 15182-1/6.4	<b>Non-obstruction test (mm)</b>	3.18	PASS
EN 15182-4/4.4	<b>Burst pressure (bar)</b>	≥ 100	PASS	

**C.6 Operational extra data (no requirements)**

Relevant sub clause number per standard	Item	Test Result
<b>Ageing tests</b>		
	UV test	
	Ozone test	
	Corrosion test	HARDCOAT EXCEED MILITARY SPECIFICATION MIL-A-8625F

**C.7 Data certified by \*:**

**Alan J. Painter**  
**Compliance Manager**  
**Task Force Tips LLC**  
**Dated: 1 August 2022**