



# Certificate of Compliance

This certificate is issued for the following:

## **Hydrant Under Monitor (HUM) Industrial Valve Under Monitor (IVUM) & Booster**

Under Monitor Valves & Accessories  
For Use with FM Approved Monitor Assemblies

**Prepared for:**

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

**Manufactured at:**

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

FM Approvals Class: 1421

Approval Identification: 3059771

Approval Granted: June 28, 2017

Report Revised: July 10, 2017

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://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".

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David Fuller  
VP, Manager – Fire Protection  
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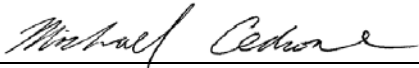
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# APPROVAL REPORT

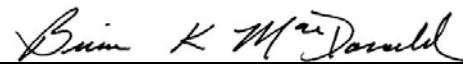
**Project No:** 3059771 – Reissue 1  
**Class:** 1421, 1112, 1210  
**Product Name:** Hydrant Under Monitor (HUM)  
Industrial Valve Under Monitor (IVUM)  
Booster  
**Product Type:** Under Monitor Valves and Accessories For Use with FM  
Approved Monitor Assemblies  
**Name of Listing Company:** Task Force Tips Inc.  
**Address of Listing Company:** 3701 Innovation Way  
Valparaiso, IN 46383  
USA  
**Customer ID:** 1000010298  
**Customer Website:** www.tft.com

**Prepared by:**



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Technical Team Manager  
Fire Protection Group



David B. Fuller  
VP, Manager  
Fire Protection Group

**June 28, 2017**

**Date of Approval**

**July 10, 2017**

**Date of Reissue**

**INTRODUCTION**

1.1 Task Force Tips Inc. requested Approval of the product(s) listed in Section 1.4 for compliance with the standard(s) listed in Section 1.3.

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

**1.3 Standards**

**1.3.1 FM Approvals Standards**

Title	Class Number	Issue Date
Approval Standard for Monitor Assembly	1421	June 2007
Approval Stanadrd for Indicating Valves (Butterfly or Ball Type)	1112	August 2006
Approval Standard for Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)	1120	April 1997
Approval Standard for Swing Check Valves	1210	June 2004

**1.4 Listing**

The product(s) will be listed in the Approval Guide, an online resource of FM Approvals, as shown in the *Approval Guide Listing* attachment to this report.

1.5 This report supersedes the original Approval report for PI 3059771, dated June 28, 2017. The report was modified to make various corrections to the product listing, as shown in Appendix I.

**2 DESCRIPTION**

**2.1 Hydrant Under Monitor (HUM)**

2.1.1 The Hydrant Under Monitor (HUM) is a valve assembly designed to be installed at the base of a monitor assembly. In addition to the monitor connection, it is also equipped with two LDH ports to supply large diameter fire hose. Two concentric half ball valves allow the monitor to be operated either independently or simultaneously with the LDH ports. The valve and valve body is of corrosion-resistant anodized aluminum construction. The rated operating pressure is 300 psi (21 bar).

2.1.2 The HUM is equipped with a 6” ANSI 150 inlet flange. Outlet connection options for the monitor port as well as the two additional LDH ports are identified in the *Approval Guide Listing* attachment to this report. One LDH port may be configured with a 2.5” Gated WYE valve.

2.1.3 All HUM models are equipped with an external automatic drain valve port directly above the valve seat, as well as one integrated with the monitor half ball. These drain valves allow the monitor and valve body to drain fully after the half ball is closed, minimizing susceptibility to corrosion and freezing water. The valve operates automatically after pressure has dropped below 5 psi (.3 bar). The main half ball valve can also be specified

with an integrated automatic drain valve which allows the standpipe to draw atmospheric air to facilitate draining, even while the main half ball is closed.

**2.1.4** The HUM main valve and monitor valve are operated via manual handcranks. Both the main valve and monitor valve are equipped with painted indicators for observing valve positions.

**2.1.5** The HUM is FM Approved for use with FM Approved monitor assemblies only.

## **2.2 Industrial Valve Under Monitor (IVUM)**

**2.2.1** The Industrial Valve Under Monitor (IVUM) is a valve assembly designed to be installed at the base of a monitor assembly which is configured for standpipes with 4" ANSI 150 or DN 100 PN16 flange connections. The inlet flange, half ball, and valve seat retainer are available in either anodized aluminum or stainless steel construction material. The main valve body is of corrosion-resistant anodized aluminum construction. The rated operating pressure is 300 psi (21 bar).

**2.2.2** Outlet connection options for the monitor port are identified in the *Approval Guide Listing* attachment to this report.

**2.2.3** All IVUM models are equipped with an external automatic drain valve port directly above the valve seat. The drain valve allows the monitor and valve body to drain fully after the half ball is closed, minimizing susceptibility to corrosion and freezing water. This drain valve operates automatically after pressure has dropped below 5 psi (.3 bar). The ball valve can also be specified with an integrated automatic drain valve which allows the standpipe to draw atmospheric air to facilitate draining, even while the main half ball is closed.

**2.2.4** The IVUM valve is operated via manual handcrank. A remote controlled (RC) option is available but not included in the scope of this Approval. The valve is equipped with a painted indicator for observing valve position.

**2.2.5** The IVUM is FM Approved for use with FM Approved monitor assemblies only.

## **2.3 Booster**

**2.3.1** The Booster is designed to be installed at the base of a monitor assembly and provide a secondary LDH inlet port to allow pressure to be "boosted" using a pump and/or foam concentrate to be introduced. The secondary LDH inlet is equipped with a swing check valve to allow for connections while the monitor is flowing. The body and check valve components are of corrosion-resistant anodized aluminum construction. The rated operating pressure is 200 psi (14 bar).

**2.3.2** Secondary LDH port inlet connections as well as outlet connection options for the monitor port are identified in the *Approval Guide Listing* attachment to this report.

**2.3.3** The Booster is FM Approved for use with FM Approved monitor assemblies only.

### **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 standard(s) defined in Section 1.3.

### **4 MARKING**

- 4.1** The following information appears on all HUM, IVUM, and Booster products identified within this report and meets standard requirements:
- Product Name/Designation
  - Model Number
  - Serial Number
  - Manufacturer's Name/Trademark
  - Manufacturer's Contact Info
  - Rated Working Pressure in PSI and BAR
  - The FM Mark of Approval ("FM Diamond") with the words "for use with FM Approved monitor assemblies"

### **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 manuals:
- "Hydrant Under Monitor (HUM) – Instructions for Installation, Safe Operation, and Maintenance", doc # LIZ-055.
  - "IVUM and IVUM RC 4" Industrial Valve Under Monitor – Instructions for Installation, Safe Operation, and Maintenance", doc # LIZ-050.
  - "Booster Secondary LDH Inlet for Monitors – Instructions for Installation, Safe Operation, and Maintenance", doc # LIZ-060.

### **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. A 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. The products discussed in this Report are FM Approved only when designed and manufactured in the following facilities:

**Design**

Task Force Tips Inc.  
3701 Innovation Way  
Valparaiso, IN 46383  
USA

**Manufacturing**

Task Force Tips Inc.  
3701 Innovation Way  
Valparaiso, IN 46383  
USA

**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 is responsible for control of the product marking and installation instructions for the product.
- 7.5** The manufacturer shall provide installation, operating, and maintenance manual(s) with each product.
- 7.6** The manufacturer shall conduct the following manufacturing and post production tests as part of their quality assurance program.
- 7.6.1** The manufacturer shall test 100 percent of production HUM, IVUM, and Booster products for seat leakage to the rated working pressure. With regard to the HUM, both the main valve and monitor valve shall be tested. The test pressure shall be applied to the seat of a closed valve for a minimum of 15 seconds without any leakage occurring.
- 7.6.2** The manufacturer shall test 100 percent of production HUM, IVUM, and Booster products for body leakage to twice the rated working pressure. The pressure shall be held for a minimum of 1 minute with no evidence of body leakage or distortion.
- 7.6.3** The manufacturer shall perform an operation test on 100 percent of production HUM and IVUM products. All valves shall be operated through their full range of travel without evidence of sticking or binding.

**8 DOCUMENTATION FILE**

All documents pertinent to this Approval are on file with FM Approvals under PI 3059771, and are outlined in the “*Critical Document List*” attachment to this report.

**9 CONCLUSION**

The Hydrant Under Monitor (HUM), Industrial Valve Under Monitor (IVUM), and Booster products described in Section 1.4 meets FM Approvals requirements. Since a duly signed Master Agreement is on file for this manufacturer, Approval is effective the date of this report.

**PROJECT DATA RECORD:** 3059771

**ATTACHMENTS:** Approval Guide Listing  
Critical Document List

Rev	Change Description	Date	Originator	Approver
1	Edits/corrections to product listing.	7/10/17	Michael Cedrone	Brian MacDonald