



NYC Department of Buildings
280 Broadway, New York, NY 10007
Patricia Lancaster, FAIA, Commissioner
(212) 566-5000, TTY: (212) 566-4769

Report of Materials and Equipment Acceptance Division

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use subject to the terms and conditions contained herein.

MEA 357-92-E Vol. 5

Manufacturer: ITT A-C Fire Pump Systems, 8200 N. Austin Avenue, Morton Grove, IL 60053.

Trade Name(s): Series 1580 H In-Line Fire Pump.

Product: In-Line Fire Pump.

Pertinent Code Section(s): RS 17, Subchapter 17.

Prescribed Test(s): UL 448, FM Class 1371.

Laboratory: Underwriters Laboratories Inc.; Factory Mutual Approvals.

Test Report(s): UL Project 03NK12976, File Ex4374, dated May 29, 2003; revised October 20, 2004. FM Approvals Project ID: 3020691 issued June 3, 2004 and FM. Project ID 3021551 issued October 1, 2004.

Description – The Series 1530 In-Line fire pump sizes 8x8x13.5F and H8x8x13.5F are FM Approval are UL Listed for fire pump service at 1250 GPM, 69-83; 1500 GPM, 66-80 PSI. The Series 1580 In-Line fire pump sizes 8x8x18F and H8x8x18F are FM Approved, UL Listed for fire pump service at 1250 GPM, 79-130 PSI; 1500 GFI-1, 80-124 PSI. The 8x8x13.5F and 8x8x18F have a max. working pressure of 175 PSI & have 125 lb. ANSI suction and discharge flanges. The H8x8x13.5 and H8x8x18F have a max. working pressure of 300 PSI and have a 125 lb. ANSI suction flange and 250# a discharge flange. The pumps are intended for pumping fire suppression system water.

Pursuant to "Promulgation of the Rules relating to Material and Equipment Application Procedures" dated November 5, 1992, the Bureau of Fire Prevention has no objections letter dated July 12, 2005, F.P. Index No. 0505038B.

Terms and Conditions: That the above units be accepted on condition that:

1. Each pump shall be provided with its own controller. No other electrical equipment, including any pressure maintenance pumps (jockey pumps), shall be powered from such controller.
2. Fire pump rotors shall be provided with a separate service-disconnecting switch. Heavy wall rigid steel conduit with threaded fittings or an approved two-hour fire rated cable shall be used for the purpose of wiring.
3. Service fuses and/or circuit breakers shall be rated at 600 percent of the full load of the motor current. No other over-current protection devices shall be installed between the service switch and the motor. The overload protection at the fire pump controller shall be rated at not less than 300 percent of the full load current of the motor.
4. These pumps shall be rated at a capacity corresponding to the most efficient level of operation as determined by the pump's characteristic curve. The pump's rated capacity must be determined with a built in safety factor, permitting operation at 150 percent of the pump's rated capacity using 65 percent of its rated pressure.
5. All uses, arrangements and functions, applications and installations shall comply with the provisions of New York City Building Code, specifically § 27-946 and Reference Standard 17-1. Fire pumps shall be tested in accordance with § 27-951(h). Further, the installation and maintenance shall be in accordance with the manufacturer's recommendation, NFPA 20 of 1990, UL Standard, and FM test report.

All shipments and deliveries of such equipment shall be provided with a metal tag suitably placed, certifying that the equipment shipped or delivered is equivalent to that tested and accepted for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance February 14, 2006
Examined by [Signature]