

# DISCHARGE PERFORMANCE TEST DATA SHEET

**TEST**

**F**

## (SECTION 2-1)

TEST ORDER	SECTION NO.	TESTING DESCRIPTION	WHO	DATE	RESULTS	SIGN OFF
	<b>2-1</b>	<b>Discharge Performance</b>				
	2-1.1	The nozzle discharge rating shall be expressed as a rated discharge at a rated pressure [e.g., 60 gpm at 100 psi (225 L/min at 690 kPa)]. The nozzle shall deliver its rated discharge at its rated pressure	TIM	7/16/99	Satisfied. See Data Sheet. Pass.	T.M.
	2-1.2	Basic spray nozzles shall discharge no less than the rated discharge at the rated pressure when tested in accordance with Section 41. The maximum discharge shall be no more than 10 percent above the rated discharge when measured at both the straight stream and full spray pattern settings.	TIM	7/16/99	N/A	T.M.
	<b>4-1</b>	<b>Discharge Test</b>				
	4-1.1	Test Equipment				
	4-1.1.1	Pressure gauges connected to a piezometer ring shall be used to measure the water pressure at the nozzle inlet.	TIM	7/16/99	Completed	T.M.
	4-1.1.2	When testing nozzles equipped with a 1 1/2-in. (38mm) connection at a discharge rate of 250 gpm (568 L/ min) and higher, the pressure gauge shall be mounted on a 2 1/2-in. (65-mm) waterway. A tapered adapter shall be used between the 2 1/2 in. (65-mm) waterway and the 1 ½ in. (38-mm) inlet to the nozzle. The maximum included angle of the adapter shall be 30 degrees.	TIM	7/16/99	Complete. See Setup Layout	T.M.
	4-1.1.3	Flowmeters used to establish the discharge referred to in this standard shall be calibrated volumetrically within 30 days prior to these tests to ensure their accuracy.	TIM	7/16/99	Gauge calibrated 1 week prior to test.	

NOZZLE SAMPLE INFORMATION:  
 MODEL : HM-VPGI  
 SERIAL NUMBER: TFTH-303281

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	4-1.2	Test Procedure. The nozzle shall be mounted such that the discharge rate through the nozzle and pressure at the inlet to the nozzle can be measured. With the shutoff fully open, the inlet pressure shall be adjusted to the rated pressure, +/-2 percent.	TIM	7/16/99	Satisfied. See Test Data Sheet.	T.M.
	4-1.2.1	Basic spray nozzles shall be tested and discharge measurement taken in both straight stream and wide angle spray pattern settings. Nozzle pressure shall be adjusted as specified in 4-1.2 for each of the pattern settings.	TIM	7/16/99	N/A	T.M.
	4-1.2.2	Constant gallonage nozzles shall be tested and the discharge shall be monitored through the full range of pattern selection.	TIM	7/16/99	N/A	T.M.
	4-1.2.3	Constant/select gallonage nozzles shall be tested at each discrete discharge selection and monitored through the entire range of pattern selection. The nozzle pressure shall be adjusted as specified in 4-1.2 for each discrete discharge selected.	TIM	7/16/99	N/A	T.M.
	2-1.3	Constant gallonage spray nozzles shall discharge no less than the rated discharge at the rated pressure and no more than 10 percent over the rated discharge at the rated pressure when tested in accordance with Section 4-1.	TIM	7/16/99	N/A	T.M.
	2-1.4	Constant/select gallonage spray nozzles shall meet the requirements of 2-1.3 at each predetermined discharge rate.	TIM	7/16/99	Pass. See data sheet.	T.M.

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## (SECTION 2-1)

	2-1.5	Constant pressure (automatic) spray nozzles shall maintain their rated pressure, $\pm 15$ psi ( $\pm 103$ kPa), throughout the rated discharge range when tested in accordance with Section 4-1.	TIM	7/16/99	See data sheet. pass	T.M.
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