

# Fire Pump Test Meter

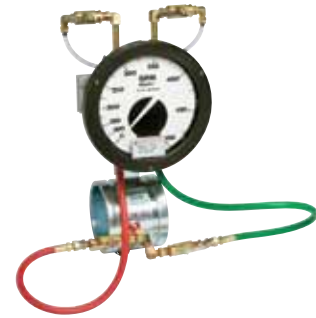
## SERIES 735



SEE VICTAULIC PUBLICATION 10.01 FOR DETAILS

The Style 735 Victaulic® Fire Pump Test Meter was specifically designed for the monitoring of fire protection systems. Style 735 consists of a calibrated Victaulic Venturi with attached dial meter (specify Model “S”, 4½”/120 mm dial meter; or Model “L”, 6”/150 mm dial meter) and flow reading in GPM (gallons per minute) or m³/hr. (cu. meters/hour). Quickly installed on the discharge side of the pump with just two Victaulic couplings, the Style 735 provides accurate measurements of pump performance.

The Victaulic Fire Pump Test Meter is designed for use with Victaulic FM Approved products in 2½ – 12”/65 – 300 mm sizes. Maximum working pressure for Model “L” is 175 psi/1200 kPa, Model “S” is rated to 500 psi/3450 kPa.



### MATERIAL SPECIFICATIONS

**Housing:** Steel – 4”/100 mm and under, Schedule 40, conforming to ASTM A-53; 5”/125 mm and above conforming to ASTM A-53 Grade B.

**Cone:** Steel conforming to ASTM A-569

**Needle Valve:** Yellow brass conforming to ASTM B-124 (377)

**NPT Size:** ¼”/6.4 mm

**Tubing:** Yellow brass conforming to ASTM B-16 (360)

**Meter:** 4½” Dial Type – Model “S”  
 • **Optional:** 6” Dial Type – Model “L”

### JOB/OWNER

System No. \_\_\_\_\_  
 Location \_\_\_\_\_

### CONTRACTOR

Submitted By \_\_\_\_\_  
 Date \_\_\_\_\_

### ENGINEER

Spec Sect \_\_\_\_\_ Para \_\_\_\_\_  
 Approved \_\_\_\_\_  
 Date \_\_\_\_\_

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## DIMENSIONS

Size		Nominal Flow Rate GPM M <sup>3</sup> /hr.	Meter Range* Minimum-Maximum GPM/m <sup>3</sup> /hr.		End to End Inches mm	Approx. Wgt. Each Lbs./kg	
Nominal Size Inches mm	Actual Out. Dia. Inches mm		Model "L"	Model "S"		Model "L"	Model "S"
2½ 65	2.875 73.0	100 23	40 – 200	60 – 200	4.00 102	14.0 6.4	9.0 4.1
			9 – 45	14 – 45			
3 80	3.500 88.9	200 45	100 – 400	140 – 400	4.25 108	15.0 6.8	10.0 4.5
			23 – 91	32 – 91			
4 100	4.500 114.3	250 57	100 – 500	160 – 500	3.75 95	17.0 7.7	12.0 5.4
			23 – 114	36 – 114			
4 100	4.500 114.3	300 68	100 – 600	190 – 600	3.75 95	17.0 7.7	12.0 5.4
			23 – 136	43 – 136			
4 100	4.500 114.3	450 102	200 – 900	300 – 900	3.75 95	17.0 7.7	12.0 5.4
			45 – 204	68 – 204			
5 125	5.563 141.3	500 114	200 – 1000	300 – 1000	5.00 127	18.0 8.2	13.0 5.9
			45 – 227	68 – 227			
6 150	6.625 168.3	750 170	300 – 1500	450 – 1500	6.00 152	20.0 9.1	15.0 6.8
			68 – 341	102 – 341			
6 150	6.625 168.3	1000 227	400 – 2000	600 – 2000	6.00 152	20.0 9.1	15.0 6.8
			91 – 454	136 – 454			
6 150	6.625 168.3	1250 284	500 – 2500	800 – 2500	6.00 152	20.0 9.1	15.0 6.8
			114 – 568	182 – 568			
8 200	8.625 219.1	1500 341	600 – 3000	900 – 3000	7.00 178	27.0 12.3	22.0 10.0
			136 – 681	204 – 681			
8 200	8.625 219.1	2000 454	1000 – 4000	1400 – 4000	7.00 178	27.0 12.3	22.0 10.0
			227 – 908	318 – 908			
8 200	8.625 219.1	2500 568	1000 – 5000	1600 – 5000	7.00 178	27.0 12.3	22.0 10.0
			227 – 1135	363 – 1135			
8 200	8.625 219.1	3000 681	1000 – 6000	1900 – 6000	7.00 178	27.0 12.3	22.0 10.0
			227 – 1363	431 – 1363			
10 250	10.750 273.0	3500 795	2000 – 7000	2500 – 7000	8.00 203	38.0 17.2	33.0 15.0
			454 – 1590	568 – 1590			
10 250	10.750 273.0	4000 908	2000 – 8000	2500 – 8000	8.00 203	38.0 17.2	33.0 15.0
			454 – 1817	568 – 1817			
10 250	10.750 273.0	4500 1022	2000 – 9000	3000 – 9000	8.00 203	38.0 17.2	33.0 15.0
			454 – 2045	681 – 2045			
12 300	12.750 323.9	5000 1135	2000 – 10000	3000 – 10000	12.00 305	71.0 32.2	66.0 29.9
			454 – 2272	681 – 2272			

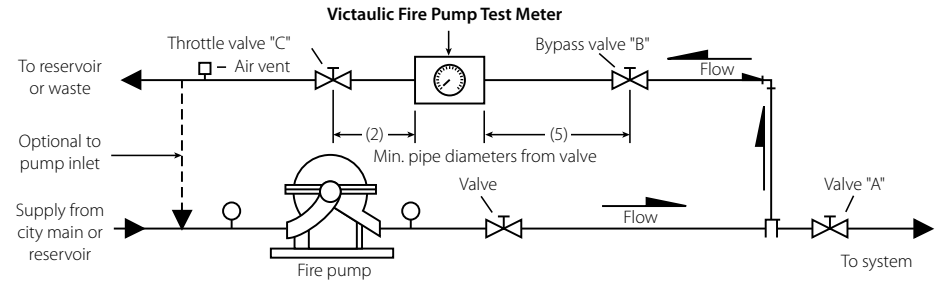
\* Specify Model "L" for 6" dial; Model "S" for 4½" dial.

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### INSTALLATION

#### Suggested Piping Diagram



### OPERATING INSTRUCTIONS FOR FIRE PUMP FLOW VENTURI

- 1 Close system valve "A".
- 2 Open bypass valve "B" and throttle valve "C".
- 3 Purge meter located on Style 735 Fire Pump Test Meter as follows:  
Open station shut-off valves (below meter) and vent valves (above meter). When a steady stream of water is passing through each plastic hose, meter is purged of air. Close all valves after air purging.
- 4 Start Fire Pump and read meter in GPM (m<sup>3</sup>/hr.)
- 5 Refer to pump GPM requirement and adjust throttle valve to achieve various flow readings. Record pump GPM, suction and discharge pressures, etc., accordance with requirements.

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### INSTALLATION

Reference should always be made to the I-100 Victaulic Field Installation Handbook for the product you are installing. Handbooks are included with each shipment of Victaulic products for complete installation and assembly data, and are available in PDF format on our website at [www.victaulic.com](http://www.victaulic.com).

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### WARRANTY

Refer to the Warranty section of the current Price List or contact Victaulic for details.

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### NOTE

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

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