



BLAZE



Fire Pump Test Meter

Description :

FM-approved venturi system engineered for precise fire pump performance testing. It delivers an unmatched 0.5% calibrated accuracy with an ultra-low pressure drop, completely eliminating the need for complex multi-hose layouts. Built in the USA from heavy-duty carbon steel, it features versatile connection options—including Grooved, Butt-Weld, and Flanged (both Class 150 & Class 300 options) —for seamless integration into any pump room piping.

Standard Venturi Data

MATERIAL: ALUMINUM MACHINES 1026
CARBON STEEL ASTM A-106-B/C HRS

VALVES: 1/4" BRASS BALL , RATED @ 600 WOG

BRASS FITTINGS: ASTM B16 C36600

ID TAG: LASER ENGRAVED ALUMINUM

HOSES: RUBBER HOSES RATE AT 750 PSI WP

Standard Gauge Data

CONSTRUCTION: ALUMINUM BODY

OPERATION: DIAPHRAGM (BUNA CONVOLUTED)

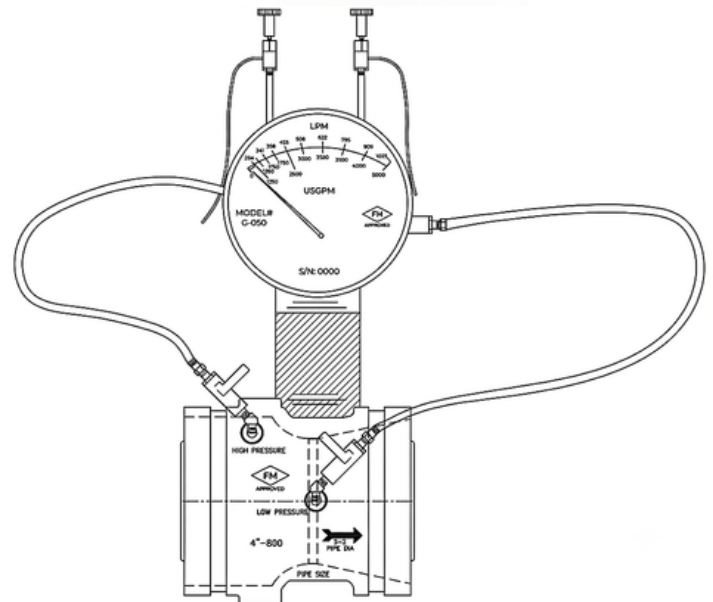
TEMPERATURE: 180°F/80°C

PRESSURE: 500 PSIG-3450 KPA

DISPLAY: USGPM / LPM OR USGPM / M3H

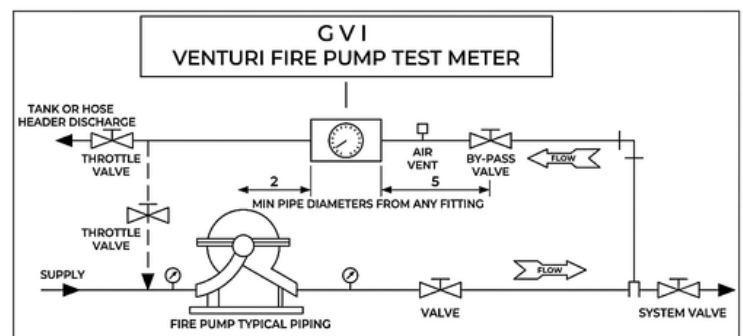
DIAL : 4" DIAL STANDARD -
6" DIAL AVAILABLE

OPTION : DIGITAL GAUGE W/ 4-20MA TRANSMITTER
GLYCERINE FILLED GAUGE



Installation / Operation :

1. Close the system valve
2. Open the by-pass valve and throttle valve
3. Purge air from meter as follows: - Open Ball valve on red and green hoses - Open the high side bleeder knob until a steady stream of water is coming from the Clear hose - Close high pressure bleeder knob - Repeat for low pressure side - Ensure both bleeder knobs are closed
4. Start fire pump, read meter in gpm/lpm/m3h
5. Refer to pump requirements and adjust throttle valve for this requirement
6. After test, open system valve and close the by-pass and throttle valves



Typical Flow Loop Configuration
Can be installed Vertically or Horizontally

Manufactured by GVI, who hold FM Approval

BLAZETECH SYSTEMS LTD.

contact@blaze-tech.co.uk

Milton Keynes, United Kingdom

www.blaze-tech.co.uk

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FM Approved Glycerin Gauge

- Adding glycerin reduces the harmonic vibrations that transmit to the needle during a flow test.
- These vibrations can make it difficult to read the needle, and also creates stress on the internal components and gears

The GVI glycerin meter delivers :

- Superior Accuracy
- Consistent No Bounce Readings
- Less Internal Damage / Stress
- Longer Lifespan
- Greater Reliability

Note: Non-toxic, Non-hazardous Worldwide shipping available



Digital 4-20mA Transmitter

The Fire pump flow test has never been easier. The new FM Approved Digital gauge from GVI allows users to easily read the display.

Specifications :

- Temp: 32 F - 140 F
- Power: 12-32 VDC
- 2 Wire 4-20 mA
- Backlit Display
- Reverse Polarity Protection
- Optional Battery Pack Available

Transmitting to a compatible controller will also allow options for capturing flow curve and additional data.



Display units in: GPM / LPM / m3H



Calibration:

The unit is factory calibrated and has no user adjustments for calibration. The assembly uses a microprocessor to perform an 11 point square root linearization algorithm.

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GVI Model Numbers:

Line Size	Pump GPM	Meter Range Min-Max GPM	Model Number Grooved	Model Number Butt Weld	Model Number 150# Flanged	Model Number 300# Flanged
2"	50	25 - 100	2"-50-G	2"-50-B	2"-50-F	2"-50-T
2-1/2"	100	50 - 200	2.5"-100-G	2.5"-100-B	2.5"-100-F	2.5"-100-F3
3"	150	75 - 300	3"-150-G	3"-150-B	3"-150-F	3"-150-F3
3"	200	100 - 400	3"-200-G	3"-200-B	3"-200-F	3"-200-F3
4"	250	125 - 500	4"-250-G	4"-250-B	4"-250-F	4"-250-F3
4"	300	150 - 600	4"-300-G	4"-300-B	4"-300-F	4"-300-F3
4"	400	200 - 800	4"-400-G	4"-400-B	4"-400-F	4"-400-F3
4"	450	225 - 900	4"-450-G	4"-450-B	4"-450-F	4"-450-F3
5"	450	225 - 900	5"-450-G	5"-450-B	5"-450-F	5"-450-F3
5"	500	250 - 1000	5"-500-G	5"-500-B	5"-500-F	5"-500-F3
5"	750	375 - 1500	5"-750-G	5"-750-B	5"-750-F	5"-750-F3
6"	500	250 - 1000	6"-500-G	6"-500-B	6"-500-F	6"-500-F3
6"	750	375 - 1500	6"-750-G	6"-750-B	6"-750-F	6"-750-F3
6"	1000	500 - 2000	6"-1000-G	6"-1000-B	6"-1000-F	6"-1000-F3
6"	1250	625 - 2500	6"-1250-G	6"-1250-B	6"-1250-F	6"-1250-F3
8"	1000	500 - 2000	8"-1000-G	8"-1000-B	8"-1000-F	8"-1000-F3
8"	1250	625 - 2500	8"-1250-G	8"-1250-B	8"-1250-F	8"-1250-F3
8"	1500	750 - 3000	8"-1500-G	8"-1500-B	8"-1500-F	8"-1500-F3
8"	2000	1000 - 4000	8"-2000-G	8"-2000-B	8"-2000-F	8"-2000-F3
8"	2500	1250 - 5000	8"-2500-G	8"-2500-B	8"-2500-F	8"-2500-F3
8"	3000	1500 - 6000	8"-3000-G	8"-3000-B	8"-3000-F	8"-3000-F3
10"	1500	750 - 3000	10"-1500-G	10"-1500-B	10"-1500-F	10"-1500-F3
10"	2000	1000 - 4000	10"-2000-G	10"-2000-B	10"-2000-F	10"-2000-F3
10"	2500	1250 - 5000	10"-2500-G	10"-2500-B	10"-2500-F	10"-2500-F3
10"	3000	1500 - 6000	10"-3000-G	10"-3000-B	10"-3000-F	10"-3000-F3
10"	3500	1750 - 7000	10"-3500-G	10"-3500-B	10"-3500-F	10"-3500-F3
10"	4000	2000 - 8000	10"-4000-G	10"-4000-B	10"-4000-F	10"-4000-F3
10"	4500	2250 - 9000	10"-4500-G	10"-4500-B	10"-4500-F	10"-4500-F3
12"	2000	1000 - 4000	12"-2000-G	12"-2000-B	12"-2000-F	12"-2000-F3
12"	2500	1250 - 5000	12"-2500-G	12"-2500-B	12"-2500-F	12"-2500-F3
12"	3000	1500 - 6000	12"-3000-G	12"-3000-B	12"-3000-F	12"-3000-F3
12"	3500	1750 - 7000	12"-3500-G	12"-3500-B	12"-3500-F	12"-3500-F3
12"	4000	2000 - 8000	12"-4000-G	12"-4000-B	12"-4000-F	12"-4000-F3
12"	4500	2250 - 9000	12"-4500-G	12"-4500-B	12"-4500-F	12"-4500-F3
12"	5000	2500 - 10000	12"-5000-G	12"-5000-B	12"-5000-F	12"-5000-F3

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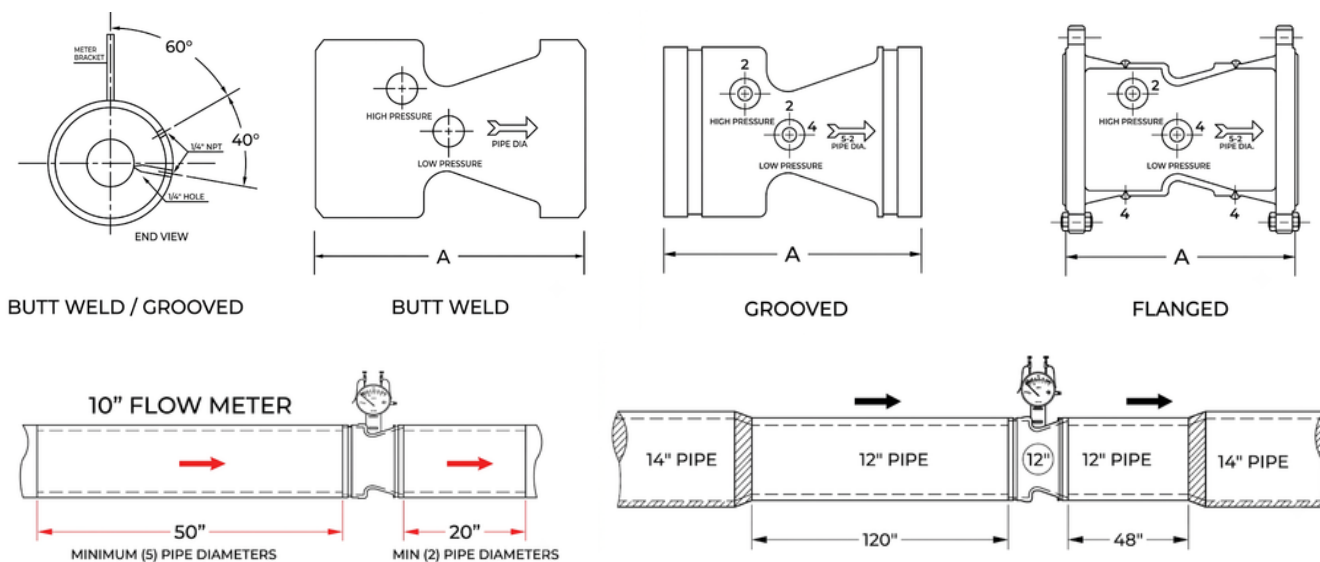


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SIZE	BUTT WELD & GROOVED		150 # FLANGED		300# FLANGED	
	"A" DIM	APPROX. WEIGHT	"A" DIM	APPROX. WEIGHT	"A" DIM	APPROX. WEIGHT
1-1/4"	4.875	10 lbs.	-	-	-	-
2"	5	11 lbs.	-	25 lbs.	-	-
2-1/2"	4	11 lbs.	9.25	25 lbs.	10	35 lbs.
3"	4	13 lbs.	9.375	40 lbs.	10.25	50 lbs.
4"	5.375	15 lbs.	11.375	50 lbs.	12.125	65 lbs.
5"	6	20 lbs.	13	60 lbs.	13.75	80 lbs.
6"	7	25 lbs.	14	75 lbs.	14.75	115 lbs.
8"	7.25	35 lbs.	15.25	120 lbs.	16	175 lbs.
10"	8	60 lbs.	16	170 lbs.	17.25	225 lbs.
12"	10	65 lbs.	19	225 lbs.	20.25	345 lbs.



Typical Install with 5/2 Pipe Diameters.
Clear of Obstructions, Valves, or Bends.

If reducers are used, lengthen the min pipe diameter
To 10/4 to ensure accuracy is maintained.

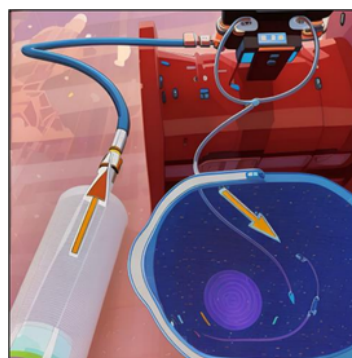
Preventative Maintenance :

Flow Meter Flush Kit :

Flushing the GVI flow meter with clean water after every flow test is an essential P/M. Removing any debris or buildup will ensure the gauge stays in perfect working condition.

Protective Gauge Cover :

Keep your gauge protected when not in use. The GVI cover will help insulate against hot or cold environments, while preventing sand, dust, or the sun from causing gauge damage.



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