GasLOK™

Excess Flow Valve – EFV

Installation Notice

General Notes: (all models)

- The arrow on the GasLOK EFV should always point in the direction of the flow of gas in the pipe.
- Do not modify the standard design of the GasLOK EFV.
- Do not allow any contamination to enter the installation area.
- Keep this product in its original packaging until immediately before installation.
- The GasLOK EFV being installed must be the proper size for the minimum design pressure of the system, the length and diameter of the service line and the maximum anticipated customer load (SCFH).
- Always follow your utility's operating procedures.

Standards/References: (all models)

- All pressure testing of this product meets the standards of ASTM F2138 for maximum allowable operating pressure (MAOP).
- The GasLOK EFV may be back pressure tested after proper installation.
- For further information, reference; ASTM D 2774 Standard Practice for Underground Installation of Thermoplastics Pressure Piping; Code of Federal Regulations, Title 49, Transportation Part 192; AGA Plastic Pipe Manual and/or The Guidance Manual for Operators of Small Gas Systems by U.S. Department of Transportation.

GF Central Plastics

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Flow Test: (all models)

- Close downstream meter stop valve and disconnect union between valve and service regulator.
- Pressurize service line with air up to meter stop valve.
- Rapidly open meter stop valve to exhaust pressure. This excessive surge in flow will actuate the EFV if properly installed.
- After actuation, close meter stop valve.
- Reconnect the union between the meter stop valve and service regulator.
- Proceed with service start-up steps.

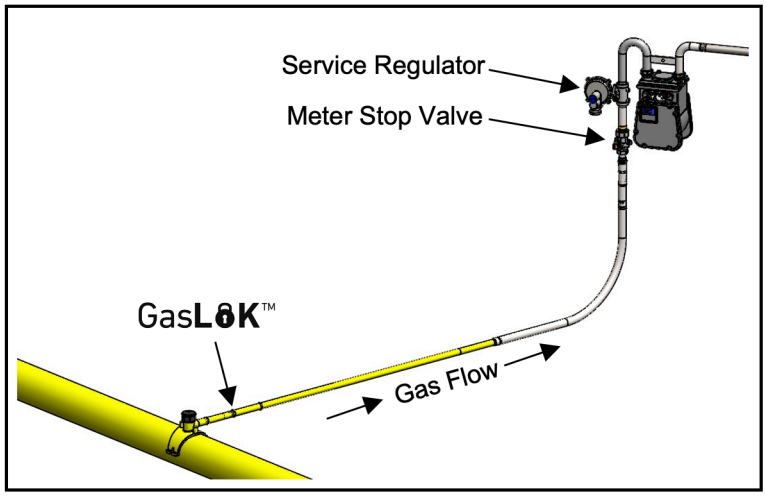
EFV Service Start-up: (all models)

- Close downstream Meter Stop Valve.
- Slowly pressurize inlet side of the GasLOK EFV.
- Ensure all connections downstream of the meter stop valve are secure and gas tight.
- Slowly open the meter stop valve to initiate gas service to the customer.
  Do not open the meter stop valve too quickly, it may cause the EFV valve to close.

Resetting the GasLOK EFV : (all models)

- Repair all damage to the service line downstream from the GasLOK EFV location. All downstream piping must be made gas tight.
- Close all valves downstream of the GasLOK EFV.
- Allow pressure to equalize across the EFV. **See chart for approximate reset times.**
- Slowly open meter stop valve downstream of the GasLOK EFV to initiate gas service to the customer. Opening the meter stop valve quickly may cause the GasLOK EFV to close prematurely in which case you must repeat previous steps.
- The EFV may be back pressure tested.

Reference chart on next page for approx. equalization reset times.



Online calculator available at gfps.com/gaslok

Service Line Protection Calculator

Natural Gas - Service Line Protection Calculator Across Pressure Ranges

WARNING: The calculations used in this program are correct, to the best of our knowledge, and represent calculations determined by GF Central Plastics. Georg Fischer accepts no responsibility for the use or application of this calculator. Every installation has its own set of variables that must be taken into consideration. The user of the calculator must insure that proper engineering practices are followed when selecting the appropriate excess flow valves.

DISCLAIMER: Values reported are based on standard conditions of 60°F natural gas with a specific gravity of 0.6.

For assistance with sizing and technical information on GasLok EFVs, please contact Georg Fischer.

EFV Series: GF GasLOK 700 Orange Series

Tubing or Pipe Size: 1 CTS .101 W

Cushion between Min Trip Flow and Load (%): 20

System Pressure (PSIG): 20

Estimated Piping Length (FEET): 130

Customer Desired Load (SCFH): 500

Calculate | Reset

CHART: Approximate Pressure Equalization Reset Times in Minutes

Inlet Pressure (psi)	Service Length (ft)	1/2 CTS	1/2 IPS	3/4 CTS	1 CTS	3/4 IPS	1 IPS	1-1/4 IPS	2 IPS
		ID: 0.436"	ID: 0.649"	ID: 0.686"	ID: 0.915"	ID: 0.849"	ID: 1.061"	ID: 1.308"	ID: 1.917"
10	100	1	2	2	3	2	3	5	10
	200	1	3	3	5	4	6	9	19
50	100	2	4	4	7	6	9	14	30
	200	4	7	8	14	12	18	28	59
100	100	3	5	6	10	9	13	20	41
	200	5	10	11	19	17	26	39	82
125	100	3	5	6	10	9	13	20	41
	200	5	10	11	19	17	26	39	82

Disposal of waste materials & environmental sustainability

1. Use of Post-Consumer Recycled Plastics
2. Reduction of Packaging Materials
   Use of Environmentally Friendly Materials
3. Improving Product Transportation Efficiency
4. Energy Savings
   Repair and Refurbish
   Rental and Sharing
5. Recycling Computers and Batteries