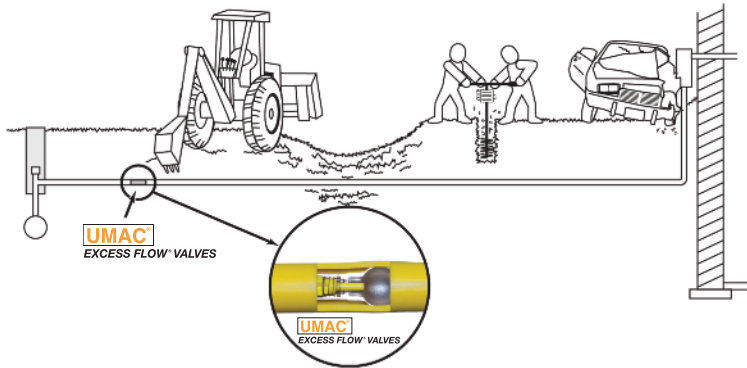


NO-HOLE SYSTEM "21"® EFVS



UMAC EFVs are the leader in Excess Flow® Valve (EFV) technology. The No-Hole System "21" allows insertion of a special No-Hole EFV, up to 150 feet from the meter set, under live (pressurized) gas conditions in systems with normal operating pressures up to 150 psig without an excavation.

When gas flow exceeds design limits, the No-Hole EFV automatically trips, affording the same protection and benefits as standard UMAC EFVs including:

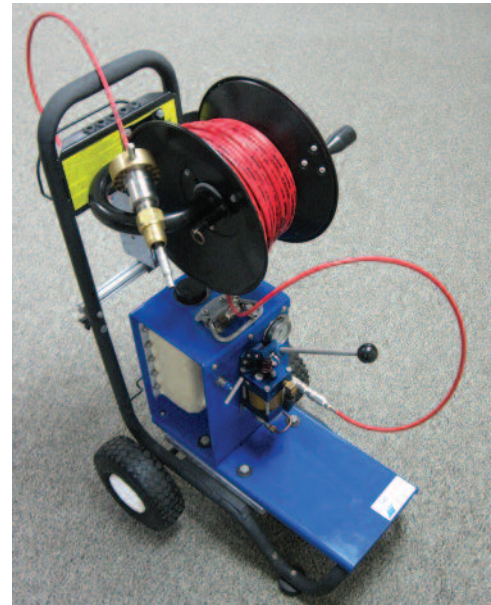
- ▶ Saving time and money by reducing the number of emergency situations
- ▶ Turning emergency situations into routine service calls
- ▶ Safeguarding utilities against unwarranted negative publicity and excessive liabilities that result from gas leak emergencies
- ▶ Increasing public confidence in gas
- ▶ Provide safe working conditions for gas utility personnel and first responders at the scene of a service line rupture
- ▶ EPA Natural Gas Star Program recommends the installation of EFVs to reduce methane emissions

Like Other UMAC EFVs No-Hole EFVs:

- ▶ Meet or exceed DOT 192.381, MSS SP-115 ASTM F 1802 and ASTM F2138 requirements
- ▶ Are 100% factory tested in accordance with DOT 192.381
- ▶ Are individually packaged with operating instructions and field identification tags
- ▶ Are lot coded with date and model # traceable back to all component parts
- ▶ Have valve series identified on the valve by color coded labels with directional flow arrows

Here's How They're Installed*

- 1) The meter set is removed from the service line.
- 2) A valve changing apparatus is used to change the meter shut-off valve to a full-port ball valve such as the Mueller® Centurion II™, if necessary.
- 3) The No-Hole System "21" gland assembly is attached to the ball valve.
- 4) The ball valve is opened and the No-Hole EFV is inserted to the desired distance – up to 150 feet.
- 5) The EFV is anchored in place using proprietary No-Hole System "21" technology, then the apparatus is removed and the original meter valve reinstalled if desired.



- 6) The meter set is reattached and service is restored to the customer.

* For exact installation and recommissioning procedures follow instructions included with each valve.

Standard Equipment Includes:

- ▶ Hydraulic water pump with pressure gauge and water reservoir (Pump has detachable handle for more compact storage)
- ▶ 100 foot insertion hose (Longer hose available – see options)
- ▶ Plug ends to prevent fluid loss
- ▶ Replacement parts for high-wear components

Optional Equipment:

- ▶ Reel for insertion hose
- ▶ Footage counter so that an approximate EFV location can be noted on the service card
- ▶ 150 foot insertion hose
- ▶ Hose bib attachment to assist with purging the No-Hole apparatus
- ▶ Maximum indicating pressure gauge

Sizing:

Available in - ½" CTS, ¾" CTS, ¾" IPS, 1" CTS & 1" IPS
Also available in 25 mm & 32 mm.

Available in **Series 350** & **Series 550**. See Performance Characteristics Section of brochure

Contact GasBreaker, Inc. for other sizes and availability

Sizing is accomplished using the same methods as for standard excess flow valves.

NOTE: Excess flow valves are designed to limit the amount of gas that escapes in the event of a full line rupture. Proper sizing is necessary to allow the EFV to activate. Thread leaks, corrosion leaks, partial line breakage, or ruptures on the fuel gas or service line downstream of pressure regulation or line metering devices may not result in activation of the EFV. No-Hole System "21" EFVs are patented.