

## EXCESS FLOW VALVE AND SERVICE VALVE INSTALLATION REQUIREMENTS

*(Effective for Engineer Seal Dates 4/15/2021 and later)*

### Excess Flow Valves:

City Utilities will install EFVs on new and renewed services for the following:

- Single-family residential services
- Single-customer commercial services
- Multi-family residential services

Excess flow valves will not operate properly in Low Pressure Districts, and therefore should not be installed in Districts 1, 2,3,4,5,6,9,11,12,13, 14, 16, 17, & 55.

### Service Valves:

City Utilities will install service valves on all new or renewed Commercial services, and will also install an EFV on all new or renewed commercial services feeding off intermediate or high pressure mains.

City Utilities will install valves and EFVs on all new or renewed multi-family residential services with total combined meter capacity larger than 1,000 cfh. The exception is for multi-family residential services off low pressure mains, in which case no EFV will be installed.

Valves installed in addition to EFVs are **not** required by the Code, and therefore should be labeled as "N" valves. The "S" Valve designation only applies to valves installed on services in Low Pressure Districts where the load is larger than 1,000 cfh, or where an EFV cannot be installed, such as when the load exceeds available EFVs.

### Applicability of this Standard:

When performing repair or maintenance work, the requirements of this standard are to be followed whenever a service has been interrupted due to piping modifications at or near the main. The requirements of this standard shall also be followed when installing any new section of service branched from an existing service.

HP & IP Districts	≤1,000 CFH	>1,000 CFH		LP Districts	≤1,000 CFH	>1,000 CFH
Single-Family Residential	EFV	EFV		Single-Family Residential	-	-
Multi-Family Residential	EFV	EFV + "N" Valve		Multi-Family Residential	-	"S" Valve
Single-Customer Commercial	EFV + "N" Valve	EFV + "N" Valve		Single-Customer Commercial	"N" Valve	"S" Valve
Multi-Customer Commercial	EFV + "N" Valve	EFV + "N" Valve		Multi-Customer Commercial	"N" Valve	"S" Valve

If a building is determined to be "Public/Priority" per GS-525, then "N" Valve noted above becomes "P" Valve, and "S" Valve above becomes "PS" Valve.

See Standard GS-213 for EFV and pipe sizing and allowable lengths of pipe.

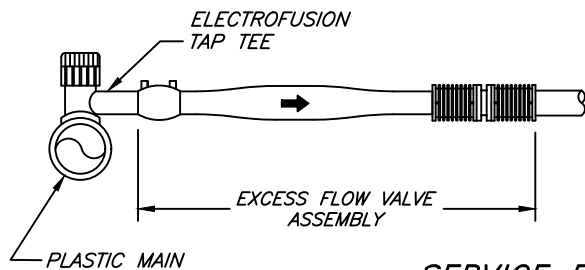
### **Note:**

**Install a metal Excess Flow Valve identification tag on the meter set when an EFV has been installed. These tags and wires are included in the EFV kit.**

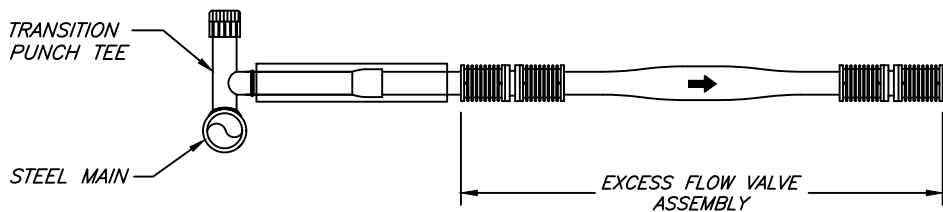
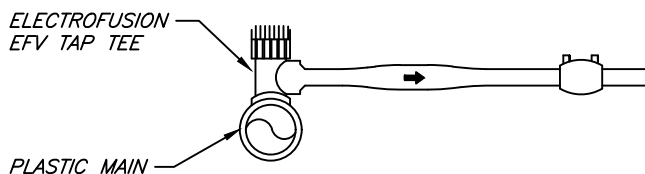
**See Page 2 for proper piping configurations**

*CONSTRUCTION STANDARD  
CITY UTILITIES OF  
SPRINGFIELD, MISSOURI*

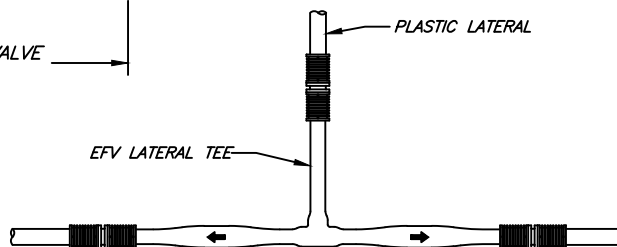
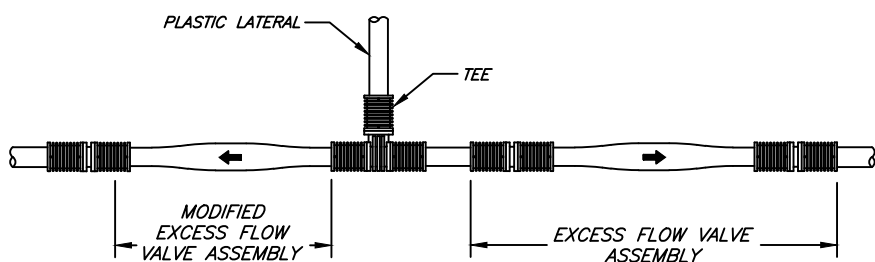
*EXCESS FLOW VALVE (EFV)  
AND SERVICE VALVE  
INSTALLATION FOR  
ALL SERVICES*



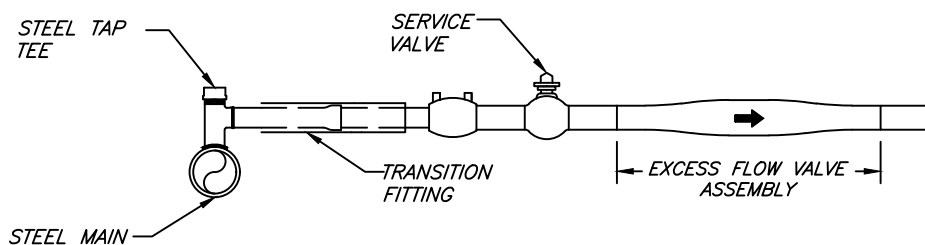
*SERVICE FROM A PLASTIC MAIN*



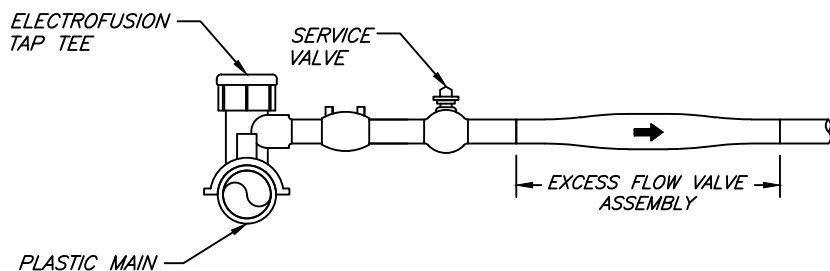
*SERVICE FROM A STEEL MAIN*



*SERVICE FROM A LATERAL*



*SERVICE FROM STEEL MAIN WITH VALVE*



*SERVICE FROM PLASTIC MAIN WITH VALVE*

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