

## Types of pressure

- Static Pressure is the pressure in a system with no water flowing.
- Residual Pressure is pressure in the system with water flowing.

Static / Residual Rule – after noting the static pressure into your pump from a water supply, you open a discharge and depending on the availability of the water source, the pressure can maintain, drop slightly or drop significantly.

- Drop of 0 to 10% - 3 times the current GPM flowing still available
- Drop of 10 to 15% - 2 times the current GPM flowing still available
- Drop of 15 to 25% - 1 times the current GPM flowing available
- Drop of more than 25% - “no more water left”

### Example 1 - Pressure drop from 0 – 10%

Static pressure of 50 psi

After opening a 1¾” line flowing 200 gpm

Pressure drops to 45 psi (=10% drop)

“600 GPM left”

### Example 2 - Pressure drop from 10 to 15%

Static pressure of 50 psi

After opening a 1¾” line flowing 200 gpm

Pressure drops to 42.5 psi (=15% drop)

“400 GPM left”

### Example 3 - Pressure drop from 15 to 25%

Static pressure of 50 psi

After opening a 1¾” line flowing 200 gpm

Pressure drops to 40 psi (=20% drop)

“200 GPM left”