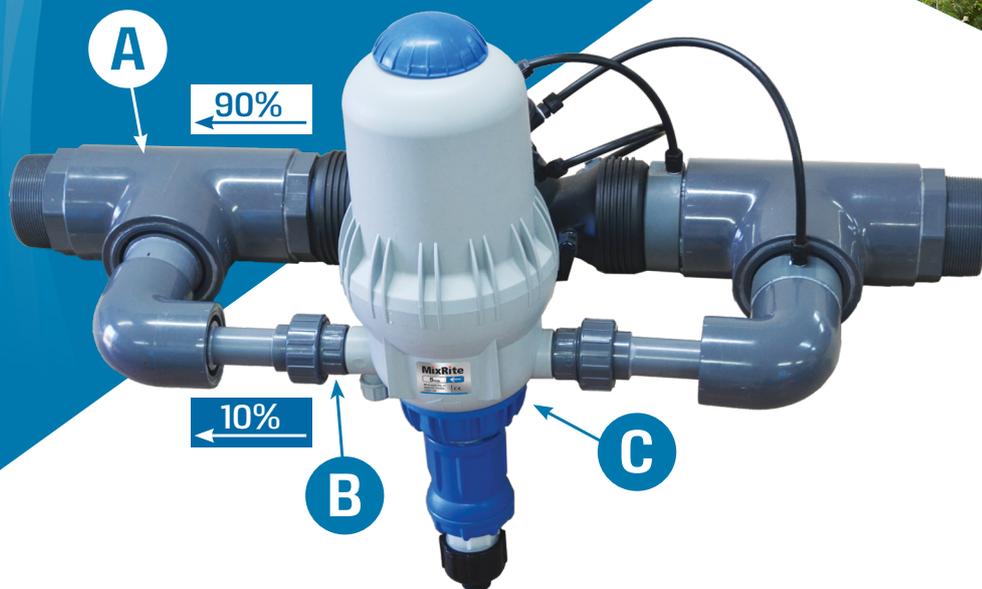


TreatRite™

Proportional and Automatic Bypass System

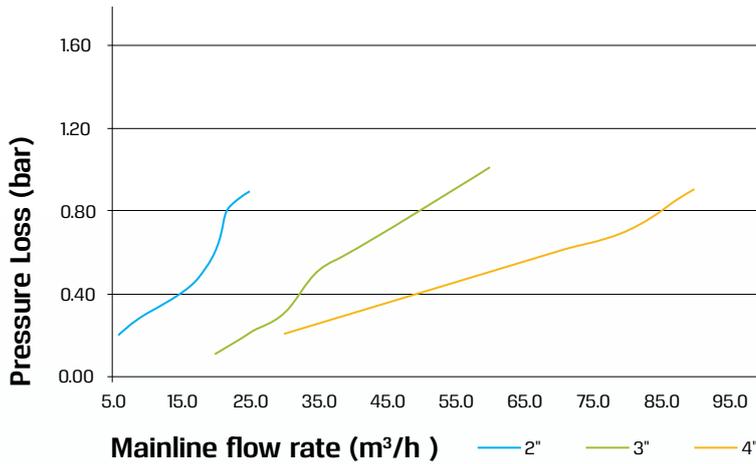


The **TreatRite™** proportional automatic bypass system connects between the main line (A) and the secondary line (B), using a sophisticated hydraulic system. This innovative combination of the MixRite™ proportional dosing pump and the TreatRite™ bypass provides an excellent water treatment solution. The TreatRite™ system can be used to dose common additives for water treatment, such as Sodium Hypochlorite, Chlorine Dioxide, and Hydrogen Peroxide.

The TreatRite™ system can be operated in various ranges as shown:

Flow Range m3/h (GPM)	Dosage Range		A	B	C
	(%)	L/h (GPM)			
6-25 (26-110)	0.003-1	0.18-250 (0.0008-1.1)	2"	3/4"	MixRite™ 2.5/3.5
15-50 (66-220)	0.01-0.5	1.5-250 (0.0066-1.1)	3"	1"	MixRite™ TF5
30-100 (122-440)	0.01-0.5	3-500 (0.0132-2.2)	4"	1.5"	MixRite™ TF10

Pressure Loss vs. Flow Rate



MixRite™ range:



Operating Principles:

- ✓ The operating valve samples the pressure level at multiple points and controls the opening of the diaphragm
- ✓ Ensures consistent 1:10 ratio between the main line and secondary line

Case Study (Water Treatment)

- ✓ Total water flow rate 673 m³/h
- ✓ Desired dosage rate 0.1%
- ✓ Additive quantity calculation $673 \times 0.1\% = 0.0673 \text{ m}^3/\text{h}$
- ✓ Relevant configuration 1.5", 4"
- ✓ Main line supply calculation $673 \times 0.9\% = 60.57 \text{ m}^3/\text{h}$
- ✓ Bypass supply calculation $673 \times 0.1\% = 6.73 \text{ m}^3/\text{h}$
- ✓ Relevant injector TF10 0.2%-2%
- ✓ Dosing % adjustment $0.0673 / 6.73 = 1\%$

Features and Benefits

- ✓ Consistent proportional flow rate
- ✓ Hydraulic, volumetric and non-electric
- ✓ Constant 1:10 flow rate between main line and secondary line
- ✓ Working pressure up to 8 bar (116 PSI)
- ✓ High UV resistance
- ✓ High chemical resistance
- ✓ Preset. No need for calibration
- ✓ Excellent dosing repeatability and homogeneity
- ✓ Easy to install, operate and maintain