



## Triton Friction Loss Guidance

The friction loss information in the tables below is based on loss through commonly used pipe sizes, types along with commonly included elbows and valves. The losses are all based on the minimum, maximum and mean flow through each pipe work size.

The tables are designed for guidance only and pump manufacturers should be consulted for more detailed calculations for individual projects.

### 1. 32mm MDPE

	Min Flow – 0.6 l/s	1.4 l/s	Max Flow – 2 l/s
1m Pipe	0.03m	0.17m	0.35m
10m Pipe	0.33m	1.74m	3.52m
50m Pipe	1.67m	8.72m	17.62m
90° Elbow	0.08m	0.1m	0.17m
45° Elbow	0.05m	0.07m	0.11m
Non Return Valve	0.11m	0.26m	0.39m
Gate Valve	0.01m	0.04m	0.09m

### 2. 1.25" PVC

	Min Flow – 0.6 l/s	1.4 l/s	Max Flow – 2 l/s
1m Pipe	0.03m	0.17m	0.35m
10m Pipe	0.33m	1.74m	3.52m
50m Pipe	1.67m	8.72m	17.62m
90° Elbow	0.02m	0.08m	0.17m
45° Elbow	0.01m	0.05m	0.11m
Non Return Valve	0.11m	0.26m	0.39m
Gate Valve	0.01m	0.04m	0.09m

### 3. 50mm MDPE

	Min Flow – 1 l/s	2 l/s	Max Flow – 3 l/s
1m Pipe	0.02m	0.11m	0.24m
10m Pipe	0.28m	1.1m	2.42m
50m Pipe	1.41m	5.45m	12.11m
90° Elbow	0.02m	0.07m	0.15m
45° Elbow	0.01m	0.05m	0.09m
Non Return Valve	0.19m	0.39m	0.61m
Gate Valve	0.01m	0.04m	0.09m

#### 4. 1.5" PVC

	Min Flow – 1 l/s	2 l/s	Max Flow – 3 l/s
1m Pipe	0.03m	0.11m	0.24m
10m Pipe	0.28m	1.1m	2.42m
50m Pipe	1.41m	5.45m	12.11m
90° Elbow	0.02m	0.07m	0.15m
45° Elbow	0.01m	0.04m	0.1m
Non Return Valve	0.19m	0.39m	0.61m
Gate Valve	0.01m	0.04m	0.09m

#### 5. 63mm MDPE

	Min Flow – 1.5 l/s	3.25 l/s	Max Flow – 5 l/s
1m Pipe	0.02m	0.09m	0.2m
10m Pipe	0.19m	0.88m	2m
50m Pipe	0.97m	4.4m	10.27m
90° Elbow	0.02m	0.07m	0.17m
45° Elbow	0.01m	0.05m	0.1m
Non Return Valve	0.29m	0.67m	1.15m
Gate Valve	0.01m	0.04m	0.1m

#### 6. 2" PVC

	Min Flow – 1.5 l/s	3.25 l/s	Max Flow – 5 l/s
1m Pipe	0.02m	0.09m	0.2m
10m Pipe	0.19m	0.88m	2m
50m Pipe	0.97m	4.4m	10.27m
90° Elbow	0.02m	0.07m	0.17m
45° Elbow	0.01m	0.05m	0.1m
Non Return Valve	0.29m	0.67m	1.15m
Gate Valve	0.01m	0.04m	0.1m

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