(Debug) In[260]:= `(* Equação Universal - Cálculo do fluxo *)`

(Debug) In[261]:=
```
comprimentoAspersor = 2;
diametroAspersor = .0234;
comprimentoTubalacao = 200;
diametroRecalque = .075;
hgs = 10;
hgrecalque = 24;
hgaspersor = 2;
hfsuccao = 1;
hfaspersor = 1;
cargaDePressao = 40;
f = .9;
```

$$\text{vazao} = \text{Solve}\left[1 == .08263\, f\, q^2\, \frac{\text{comprimentoAspersor}}{\text{diametroAspersor}^5}, q\right];$$

$$hf = \frac{10.65\, \text{vazao}[[2, 1, 2]]^{1.852}\, \text{comprimentoTubalacao}}{150^{1.852}\, \text{diametroRecalque}^{4.871}};$$

```
hmt =
  (-hgs + hfsuccao) + (-hgrecalque + hf) + (hgaspersor + hfaspersor) + cargaDePressao
```

(Debug) Out[274]=
    10.0099

(Debug) In[275]:=

(Debug) In[276]:=

(Debug) In[277]:=

(Debug) In[278]:=