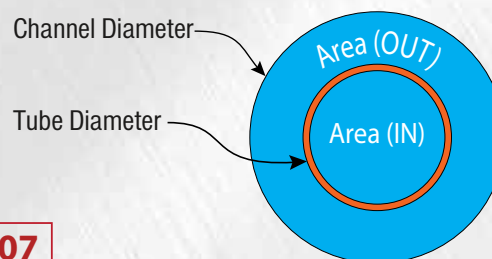


Sizing High Flow Tubes

- Equalize IN and OUT flow areas to maximize flow rates.
- To calculate IN and OUT flow areas:



$$\text{Area (IN)} = \text{Area (OUT)} = \text{Channel Diameter} \times .707$$

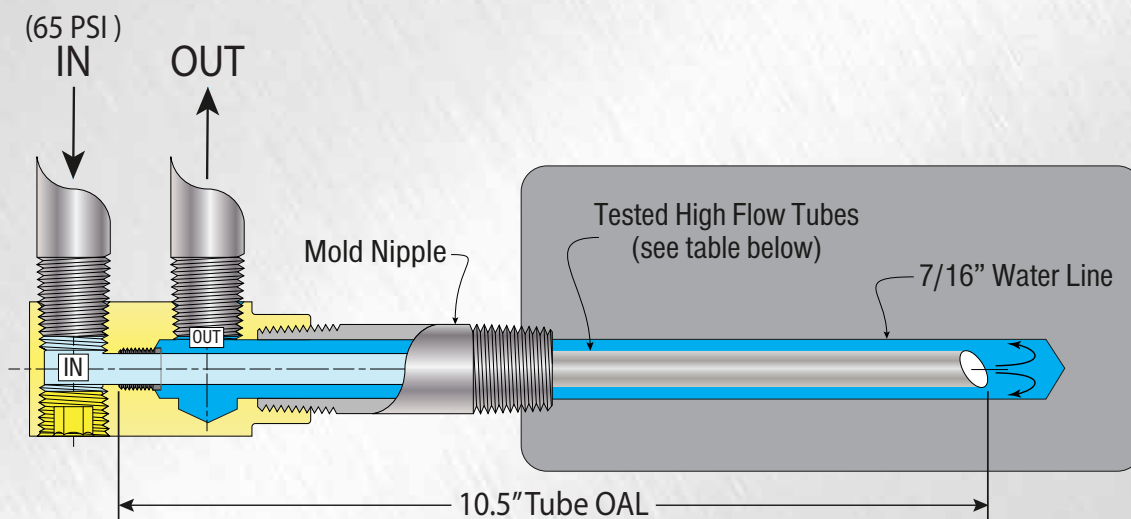
Example:

.437" dia. channel X .707 = .309"

.309" is the **diameter** that splits the 7/16" water line into 2 equal parts

Test Data

- For a 7/16" water line, the ideal tube OD and ID should be close to .309"
- HF312T tube with OD of .312" and ID of .288" is close.
- Larger or smaller tubes will restrict the inlet/outlet areas and reduce the flow rate (see test data below).



**The tube that balances IN/OUT areas
produces the most flow**

Size	OD	ID	GPM
4TW	.238	.208	4.41
HF312T	.312	.288	5.41
HF375T	.365	.340	4.38

* Tested at 65 PSI inlet pressure