

▶ WATERFLUX 3100 - DN 150

KROSS Sizing

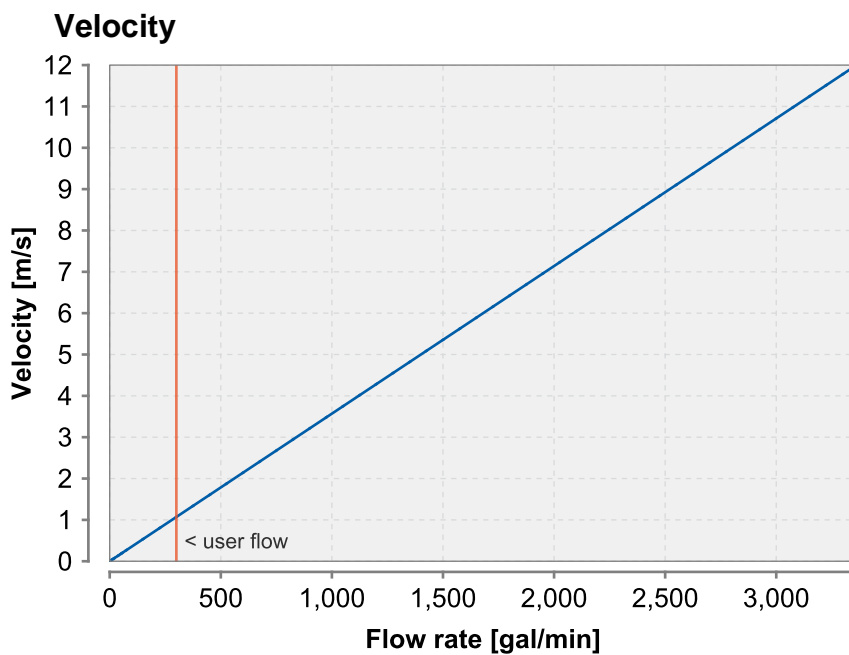
2016-01-20

Fluid

Aggregate state	Formula	Fluid
liquid	H2O	Water

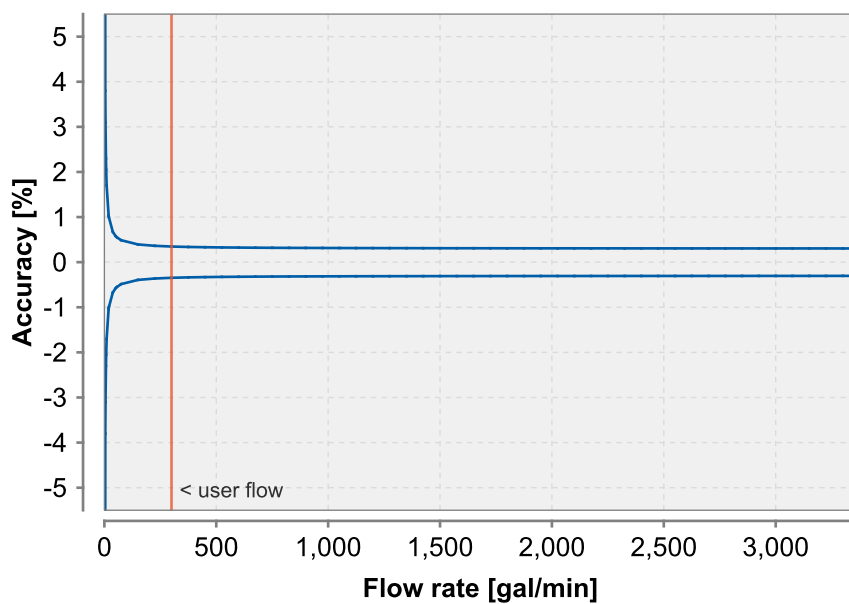
Process data

	Minimal	Nominal	Maximal	Unit	
Density (operational)		0.9991		kg/l	
Viscosity		1.139		mPa.s	
Temperature		15.0		°C	
Pressure (gauge)		1.0		bar	
Flow rate		300.0		gal/min	(Volume)



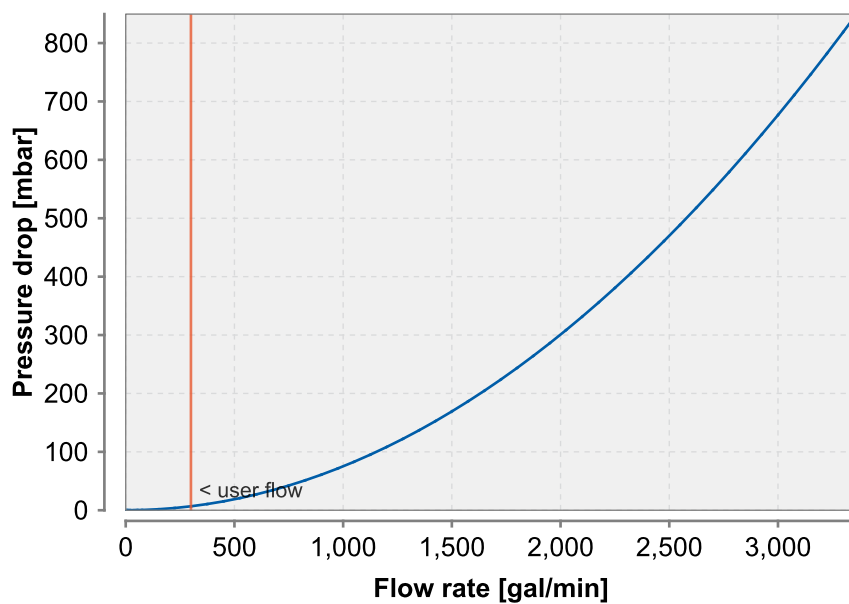
Flow rate [gal/min]	Velocity [m/s]
0.2801	0.001
4.0	0.0143
5.0	0.0179
7.0	0.025
8.0	0.0286
10.0	0.0357
20.0	0.0714
50.0	0.1785
150.0	0.5355
300.0	1.071
525.0	1.874
900.0	3.213
1275	4.552
1650	5.891
2025	7.229
2400	8.568
2775	9.907
3150	11.25

Accuracy



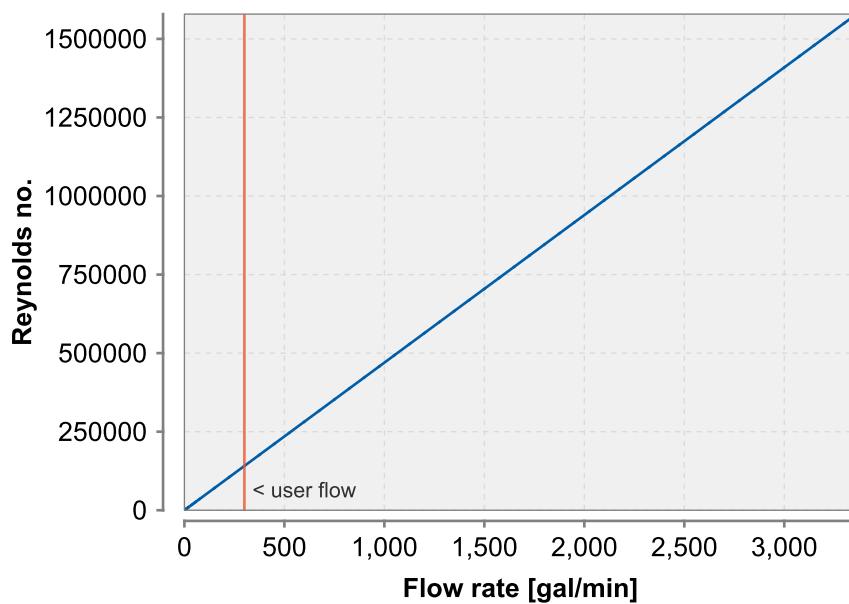
Flow rate [gal/min]	Accuracy [%]
0.2801	50.3
4.0	3.801
5.0	3.101
7.0	2.301
8.0	2.051
10.0	1.701
20.0	1.0
50.0	0.5801
150.0	0.3934
300.0	0.3467
525.0	0.3267
900.0	0.3156
1275	0.311
1650	0.3085
2025	0.3069
2400	0.3058
2775	0.305
3150	0.3044

Pressure drop



Flow rate [gal/min]	Pressure drop [mbar]
0.2801	0.0
4.0	0.0012
5.0	0.0019
7.0	0.0037
8.0	0.0048
10.0	0.0075
20.0	0.0301
50.0	0.188
150.0	1.692
300.0	6.768
525.0	20.73
900.0	60.91
1275	122.2
1650	204.7
2025	308.4
2400	433.1
2775	579.1
3150	746.1

Reynolds no.



Flow rate [gal/min]	Reynolds no.
0.2801	131.6
4.0	1879
5.0	2349
7.0	3288
8.0	3758
10.0	4697
20.0	9395
50.0	23487
150.0	70460
300.0	140920
525.0	246610
900.0	422760
1275	598910
1650	775059
2025	951209
2400	1127359
2775	1303509
3150	1479659