

JACOBY-TARBOX®

A PRODUCT OF CLARK-RELIANCE

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Dear Jacoby-Tarbox Customer:

Subject: Minimum Flow for Rotor Actuation, Maximum Line Velocity, and Pressure Drops

Minimum flow for actuation and sight flow indicator pressure drop data can be very beneficial in system design. As process capacity is increased, maximum flow data now becomes relevant as well. We have started to compile data on these subjects. We have extrapolated various data points into the following information table. As more data is acquired, the table may be updated. The data is an *approximation* based on ambient temperature water and is **not a performance guarantee**. Varying process conditions such as specific gravity, viscosity, temperature, or a combination of these combined with orientation may cause a custom application to deviate from the data shown below. We are releasing this because we are aware of the growing demand for flow data.

Minimum Flow Rate & Maximum Velocity: 300-ST, 300-SA, S-300HP, 935-FA, F-960HPA w/ new rotors					
Size	Minimum Flow Rate		Maximum Velocity		Model
	gpm	lpm	Feet per second	Meters per second	
½"	0.3	1.2	10	3.0	300, 935, 960
¾"	0.3	1.2	10	3.0	300, 935, 960
1"	0.4	1.6	10	3.0	300, 935, 960
1 ¼"	1.0	3.8	10	3.0	300, 935, 960
1 ½"	1.0	3.8	10	3.0	300, 935, 960
2"	1.3	4.8	10	3.0	300, 935, 960
2 ½"	2.5	9.5	10	3.0	935, 960
3"	2.5	9.5	10	3.0	935, 960
4"	4.0	15.2	10	3.0	935, 960
6"	9.5	36.0	8.0	2.4	935, 960

Pressure Drops: 300-ST, 300-SA, S-300HP, 935-FA, F-960-HPA w/ new rotors			
Size	Equivalent Length of Pipe		Model
	Feet	Meters	
½"	15'	4.6	300, 935, 960
¾"	23'	7.0	300, 935, 960
1"	28'	8.5	300, 935, 960
1 ¼"	36'	11.0	300, 935, 960
1 ½"	42'	12.8	935, 960
2"	55'	16.8	935, 960
2 ½"	65'	19.8	935, 960
3"	80'	24.4	935, 960
4"	110'	33.5	935, 960
6"	165'	50.3	935, 960

This information may be shared with your customers. Call or e-mail me if you have any questions.

Sincerely,

Dave Purcel

Product Manager, Jacoby-Tarbox

cc: Pressure Drops – Min and Max Flows Rev1.doc