## Technical Bulletin 26

Copyright 2018 by Air Options, Inc.

## Recommended Pipe Sizes for Compressed Air

by Brian S. Elliott

Pipe sizing is very important in any compression system, yet many plants are plumbed based on guesswork rather than the proper data. Invariably, this leads to a situation that pushes the limits of the delivery system, and, in most cases, all manner of patches and band-aids are applied to try to work around the problem.

Be smart. Don't use old plumbing systems that may be left over from some other application. It is very difficult to determine the condition of the old pipe, fittings and valves, which, in many cases, weren't designed for

compressed air in the first place. Adapting an existing plumbing system to your comrequirements pressed air usually requires more work to bring it up to specification than simply putting in a new system. Follow the plumbing recommendations outlined in the technical bulletin 2 "Basic Compressed Air Plumbing" and use the data provided in the table to the right to select the proper size pipe for your specific requirement.

## Recommended Pipe Sizes for Compressed Air to Maintain Less then 1 PSI Pressure Drop

		Length of Run in Feet								
		25	50	75	100	150	200	300	500	1000
Flow Rate in SCFM	6	1/2	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
	18	1/2	1/2	1/2	3/4	3/4	3/4	3/4	1	1
	30	3/4	3/4	3/4	3/4	1	1	1	1-1/4	1-1/4
	45	3/4	3/4	1	1	1	1	1-1/4	1-1/4	1-1/4
	60	3/4	1	1	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2
	90	1	1	1-1/4	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	2
	120	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	2	2
	150	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2	2	2	2	2-1/2
	180	1-1/4	1-1/2	1-1/2	1-1/2	2	2	2	2-1/2	2-1/2
	240	1-1/4	1-1/2	1-1/2	2	2	2	2-1/2	2-1/2	3
	300	1-1/2	2	2	2	2	2-1/2	2-1/2	3	3
	360	1-1/2	2	2	2	2-1/2	2-1/2	2-1/2	3	3
	450	2	2	2	2-1/2	2-1/2	3	3	3	3-1/2
	600	2	2-1/2	2-1/2	2-1/2	3	3	3	3-1/2	4
	750	2	2-1/2	2-1/2	3	3	3	3-1/2	3-1/2	4
	1000	2-1/2	3	3	3	3-1/2	3-1/2	4	4	5
Recommended Pipe Sizes @ 100 PSI (Schdule 40 Pipe)										



JTDryers.com

A complete bound copy of Air Options Technical Bulletins can be purchased on our web site at: JTDryers.com/jt-order-now



AIR-OPTIONS, INC.

Air Options, Inc.

P.O. Box 35984

Houston, Texas 77235-5984

Ph.: 713-721-9619

E.Mail: Info@Air-Options.com