

# Technical Bulletin 101

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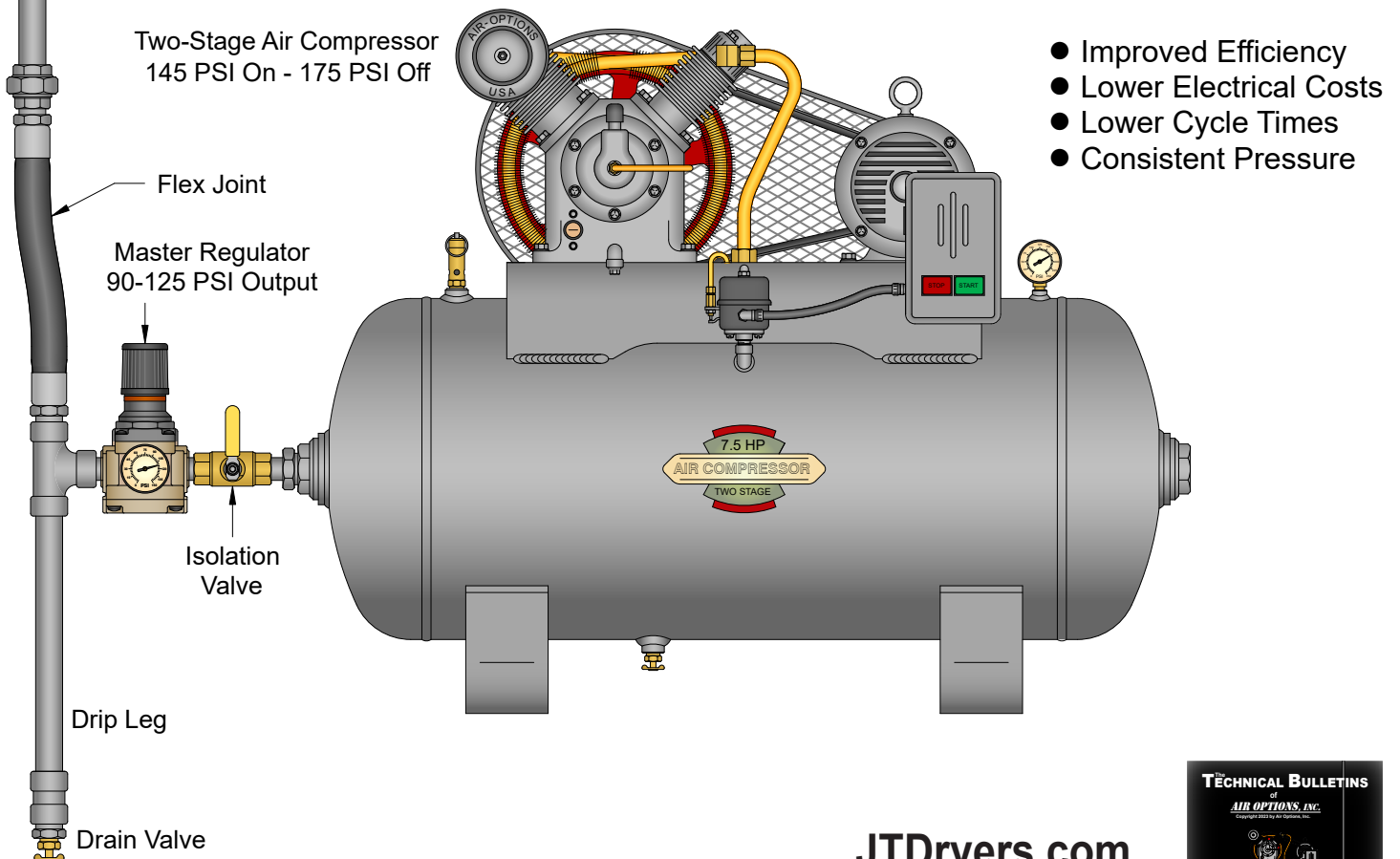
## The Benefits of Installing a Master Regulator

by Brian S. Elliott

To Distribution System

A master regulator is simply a standard regulator that has been optimized so that it has a high surge rating. The surge rating is designed so that the regulator doesn't limit the surge capacity of the receiver. Additionally, in order to improve reliability, master regulators do not have an automatic venting function, a function that is generally considered unnecessary in this role.

So what does a master regulator do for the compression system? They are installed so that the air compressor can operate in its most efficient pressure regime, 145~175 PSI. This, in turn, will lower cycle times, electrical costs and reduce heat buildup. Another benefit to using a master regulator is that the shop is supplied with a consistent pressure that is independent of the varying pressure of the receiver.



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