

*“Supporting the gas industry since 1973”*

## **PIPE WRENCH HANDLE EXTENDERS**

Pipe wrench handle extenders were developed by Ameren Corporation as a means to reduce the amount of force required for wrenching. This is accomplished by extending the length of the wrench which increases the moment arm so the same amount of torque can be applied to the fitting using less force.

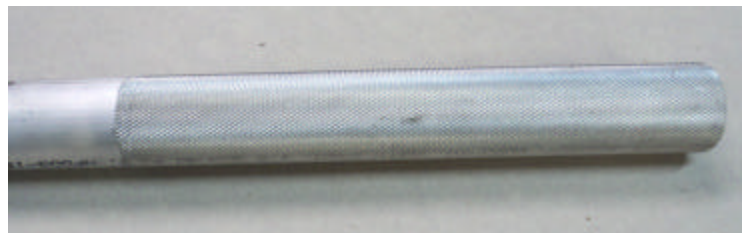
Utilities are using handle extenders for three sizes of pipe wrench: 14”, 18” and 24”. The handle extender increases the length of the handle of the wrench so that you can apply less force to achieve the same amount of torque. For example:

The approximate force required to tighten a 1” fitting on a:

14” wrench is 64 lbs of force  
18” wrench is 52 lbs of force  
24” wrench is 37 lbs of force

The approximate force required to tighten a 1” fitting on a:

14” wrench with 24” Handle Extender is only 38 lbs of force (40% reduction)  
18” wrench with 30” Handle Extender is only 31 lbs of force (40% reduction)  
24” wrench with 45” Handle Extender is only 20 lbs of force (46% reduction)



### **Other benefits of using the Handle Extender:**

- The pipe wrench is pinned into position inside the handle extender;
- Knurled non-slip grip provided, 12” long for secure gripping and lowering fatigue;
- Properly sized to the wrench to reduce the risk of damaging the wrench or fitting;
- Made of standard aluminum pipe and is designed to visibly bend before breaking the wrench;
- Light weight construction helping to reduce fatigue;