

# VALVE INSTALLATION AND OPERATION

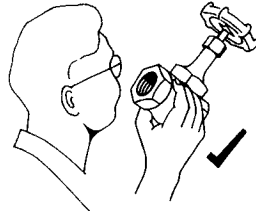
## Select the right type and design of John Valve.

Make sure materials, pressure and temperature ratings are suitable for the job. Consult the product catalogue index and product data sheets before choosing.

### Threaded valves

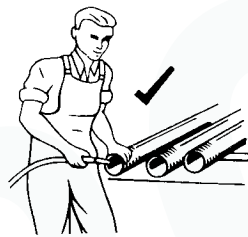
#### INSPECTION

Inspect valves for dirt before putting into line. Dirt and dust on valve seats can damage them and cause leaking.



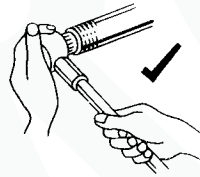
#### CLEAN OUT PIPE

Clean out pipe before use. Pipe scale and dirt are often the cause of leaking valves. Blow out or swab out pipes to prevent later break-downs.



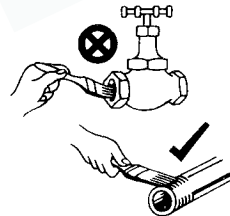
#### REAM PIPE ENDS

Ream pipe ends after threading. Burrs cause serious obstruction to flow and may get into valves and damage seating surfaces.



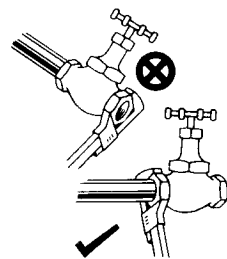
#### PIPE DOPE OUT

Keep pipe dope out of lines and valves. Use only on male end of joint. It is likely to damage valve seats when it gets into piping.



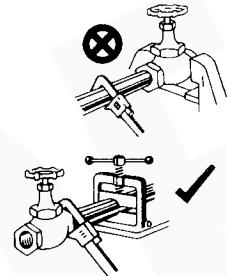
#### ADJUSTABLE SPANNER

Use an adjustable spanner, not a pipe wrench on the end of the valve nearest the joint. You get a firmer grip, and you're not risking the chance of damaging the valve.



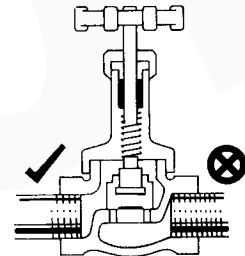
#### PREVENTION

To prevent distortion and damage to working parts, don't put valve into vice when making up a joint. Hold nipple or short pipe in pipe vice and screw valve on to it.



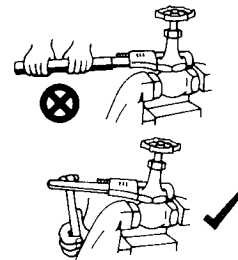
#### OVERTHREADING

Overtreading may cause pipe to shoulder against valve seat, thus damaging valve and keeping joint from making up.



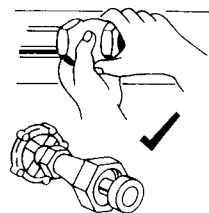
#### STUBBORN JOINT

A short spanner and a few hammer taps are effective and won't damage the valve. Only safe use for extension on spanner or wrench is on a stubborn joint when taking down a line.



#### CRAMPED QUARTERS

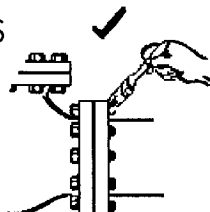
When in cramped quarters, remove cover assembly to give more clearance and protect spindle from possible damage. Install all other valves in closed position.



### Flanged valves

#### LUBRICATE THREADS

Thread lubricant reduces friction between threads and protects them from rust and corrosion. Joints pull up tighter and come apart easier.



#### TIGHTENING BOLTS

Tighten bolts by cross-over method shown. Uniform pull on bolts reduces stress on flanges and other parts of valve.

