

Cook Valve Installation Tool

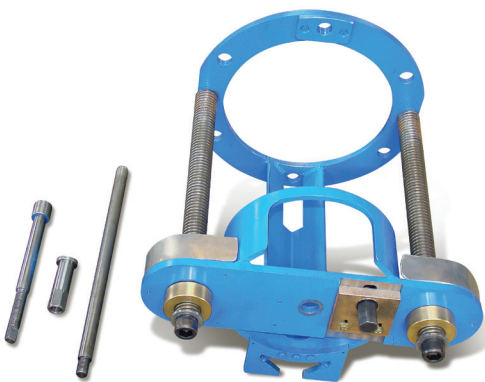
According to safety experts, compressor valve installation/removal is a leading cause of workplace injuries in gas compression operations. Awkward angles, heavy parts, hot, greasy surfaces and dangerous pinch points combine to increase the risk of serious injury to extremities, as well as to cause overexertion injuries from lifting, pushing and holding valves in place.

Cook Compression® has developed a safer, simpler and more efficient way to handle compressor valves. The proprietary Cook Valve Installation Tool (V.I.T.) makes it easy to securely hold, move and align valves when installing or removing them from the cylinder.

AVOID HAZARDS, GAIN EFFICIENCY

The V.I.T. is a safer alternative because the full weight of the compressor valve is supported by the tool. This is particularly important for valves in the lower position on the cylinder, where personnel otherwise have to continuously lift and hold valves in position. The V.I.T. also maneuvers the valve into and out of the seat area, keeping worker's hands safely away from tight clearances in the valve port.

The V.I.T. is lightweight, yet ruggedly constructed to provide years of service. Best of all, the V.I.T. allows valves to be installed or removed safely – typically in less than 10 minutes.



V.I.T. coupler, jam nut, guide bar and tool body

ADVANTAGES

- Improved safety
- Time savings
- Simple to use
- Secure handling protects parts from accidental damage
- Requires only one worker and overhead crane
- Available for valves on almost any gas compressor



HOW IT WORKS

The V.I.T. is easy to use. The installation procedure varies slightly depending upon whether the valve is bottom-loaded or top-loaded on the cylinder. However, a simplified overview of the process begins by removing the valve cover and bolting the V.I.T. to the cylinder using the valve port studs.

The valve and cage are placed in the V.I.T. and secured with the coupler and jam nut. The valve assembly is then moved forward into the seat using a handheld drill. The guide plate of the V.I.T. aligns the valve and port. A guide bar may be used to make any minor adjustments in final seating of the valve.

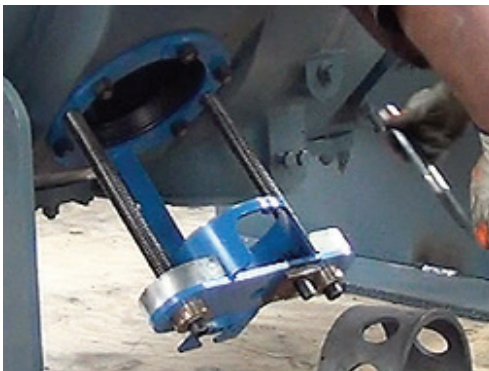
With the valve in place, the coupler and V.I.T. are removed from the cylinder to complete the procedure.

For valve removal, the procedure is reversed. After removing the valve cover, the V.I.T. is bolted to the cylinder and the coupler is attached to the valve assembly. The valve assembly is backed out of the valve port with a handheld drill. The V.I.T. and secured valve assembly are then lifted away from the cylinder using an overhead crane.

The V.I.T. is available for valves on almost any gas compressor.



VALVE INSTALLATION



V.I.T. attached to cylinder



Valve, cage and gasket in V.I.T.



Drill moving assembly into valve port