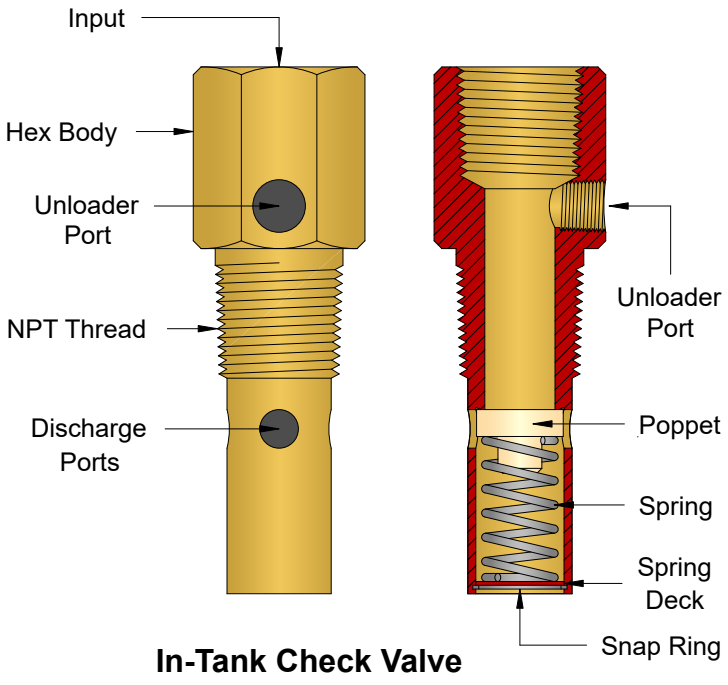
Technical Bulletin 77

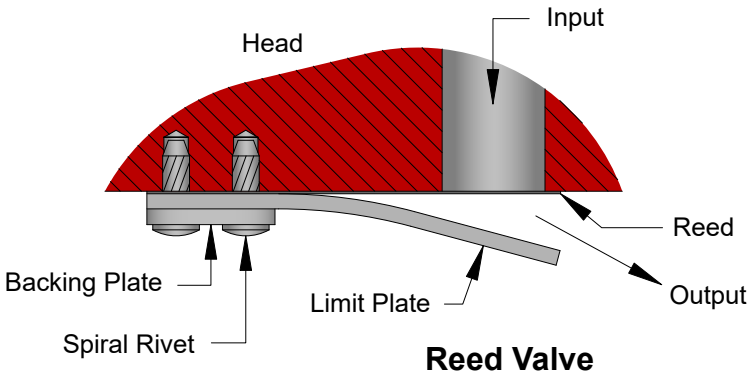
Check Valves for Compressed Air

by Brian S. Elliott

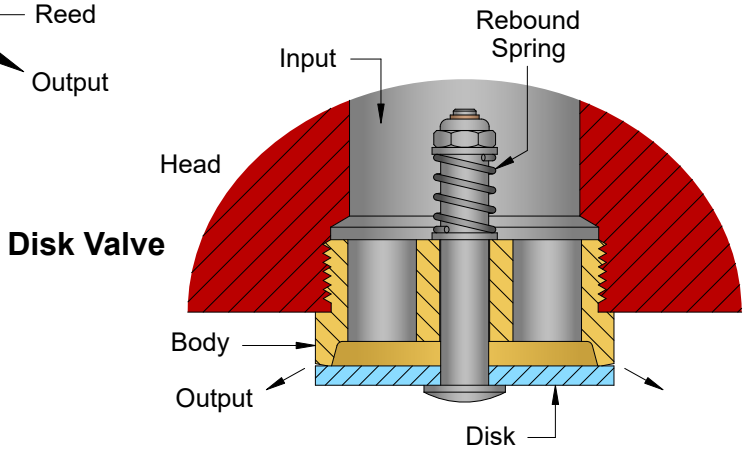
Controlling the back flow of compressed air is a critical function within any compressed air system, this is the purview of the check valve. Generally four different types of valves are utilized in systems that use two-stage pumps. The heads of the pumps use either a disk valve, lower right, or a reed valve, upper left. In order to isolate the pump during "off" periods, the transfer line between the output of the pump and the input of the receiver is processed through a check valve. On packaged units, an in-tank valve, as shown to the right, is typically installed. Component systems usually use an in-line unit, as shown, lower left. Note that both of these valves are equipped with an unloader port.



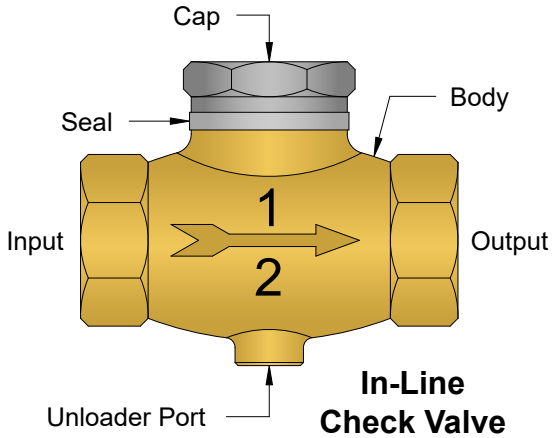
In-Tank Check Valve



Reed Valve

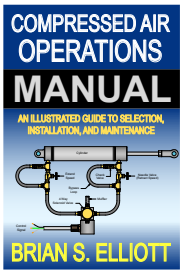


Disk Valve



In-Line Check Valve

Comprehensive information on compressed air systems is provided in the book **"Compressed Air Operations Manual"** by Brian S. Elliott, ISBN: 0-07-147526-5 Published by the McGraw-Hill Book Co.



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