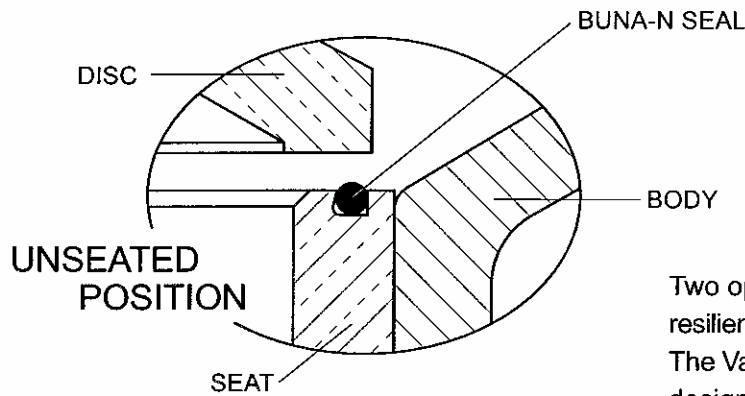
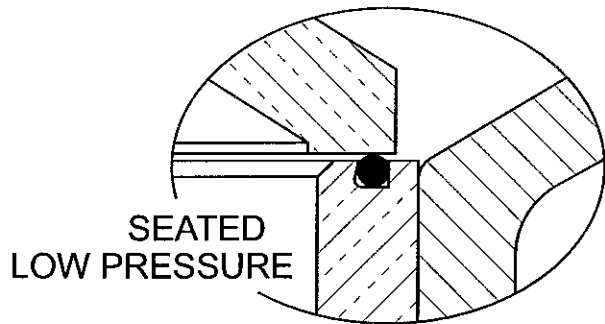


SILENT CHECK VALVE RESILIENT SEATING DETAIL

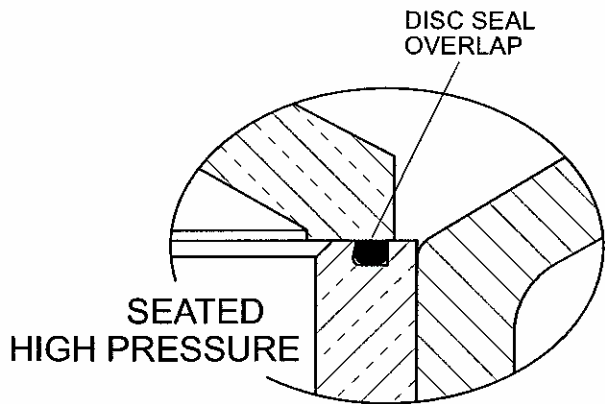


Two operating conditions can cause damage to a resilient seal, over compression and seal indentation. The Val-Matic® check valve incorporates a disc/seat design that eliminates both.



Seal Compression

The unique seating action begins with the initial contact between the metal valve disc and the Buna-N o-ring providing a low pressure seal. As pressure increases, the Buna-N seal is compressed which allows the disc to make contact with the metal portion of the valve seat. Excess area in the o-ring groove prevents over compression of the synthetic seal.



Seal Indentation

Contact between the seal and the disc is uniquely designed to eliminate indentation ridges found in designs that do not allow the disc to fully overlap the seal. Indentation ridges caused by valve designs with the disc smaller in diameter than the seal can result in valve leakage. The Val-Matic® design provides for complete overlap of the resilient seal.

Revised 1-6-05

RESILIENT SEATING DETAIL

DATE 12-21-04

VAL-MATIC®

VALVE AND MANUFACTURING CORP.

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SS-2071