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Technical Notice on Hydrogen Sulfide Compatibility with ASCO Gas Combustion Valves

ASCO bulletin 158, 8214, 8215, 8042, 8043, K3A, S261, S262, and 8040 aluminum bodied combustion valves with NBR seals are suitable for fuel gas service up to a maximum of 0.1% (1,000 PPM) by volume of dry Hydrogen Sulfide (H₂S).

Dry Hydrogen Sulfide is defined as having a valve media and body temperature adequately above the media dew point to prevent water condensation within the valve. Formation of condensation within a valve with media containing H₂S will result in the creation of sulfuric acid which will attack the valve body and internal components resulting in improper operation, external fluid leakage, and possible catastrophic pressure vessel failure.

It is the responsibility of the system designer and/or end user to determine the suitability for their specific application through careful validation of application conditions, more frequent testing for internal/external leaks, and internal valve inspection for signs of corrosion or seal degradation. Users should discontinue use immediately if there is any such evidence and revalidate if conditions are within limits set above.

A handwritten signature in black ink, appearing to read "Greg Volz", with a stylized flourish at the end.

Greg Volz
Vice President Engineering