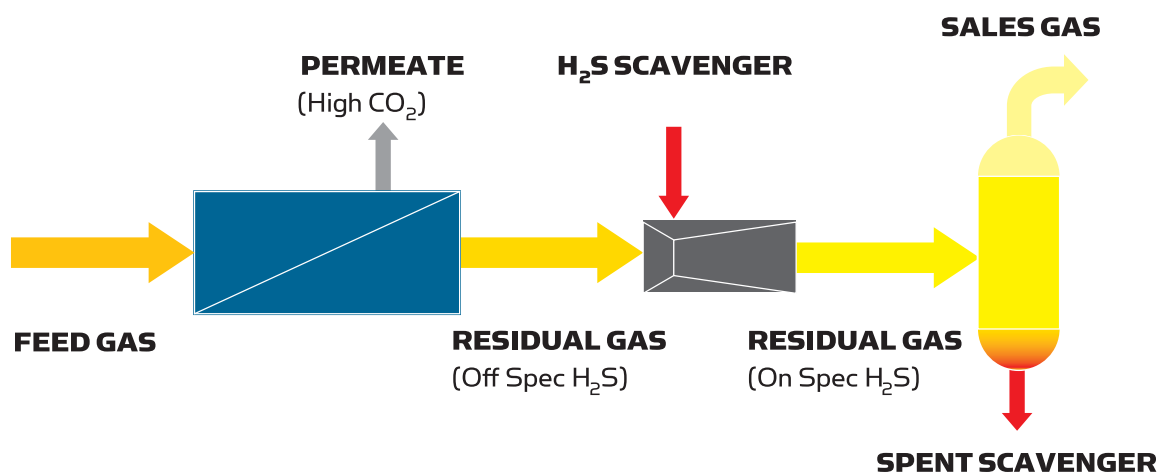


Treat Natural Gas to Pipeline CO₂ and H₂S Specifications with a MEMBRANE / HIGH-EFFICIENCY SCAVENGER HYBRID SYSTEM

HYBRID H₂S SCAVENGING



To meet pipeline H₂S specifications, a hybrid gas treatment system consisting of membranes and H₂S scavenging with the use of a high-efficiency injector mixer compares favorably to conventional amine treating.

This conclusion is drawn from case studies featuring varying feed gas CO₂ and H₂S concentrations and a pipeline H₂S specification of 4 ppm.

Membranes have become an accepted and even preferred technology for the removal of acid gases, primarily CO₂, from natural gas. However, in treating natural gas to

pipeline H₂S specifications, processors face a different scenario. Even though H₂S is generally a rapidly permeating gas, the partial pressure nature of membrane technology makes it significantly difficult to meet pipeline H₂S specifications with membranes alone. H₂S scavenging through an efficient injector mixer design can lower H₂S to a 2.5-10 ppm range while optimizing scavenger chemical usage.

As a result, a hybrid system efficiently reduces H₂S concentrations to desired pipeline specifications while optimizing capital and operational expenses.

REFERENCES

Available upon request.

FOR MORE INFORMATION

Contact your nearest ProSep Inc., office.
www.prosepinc.com