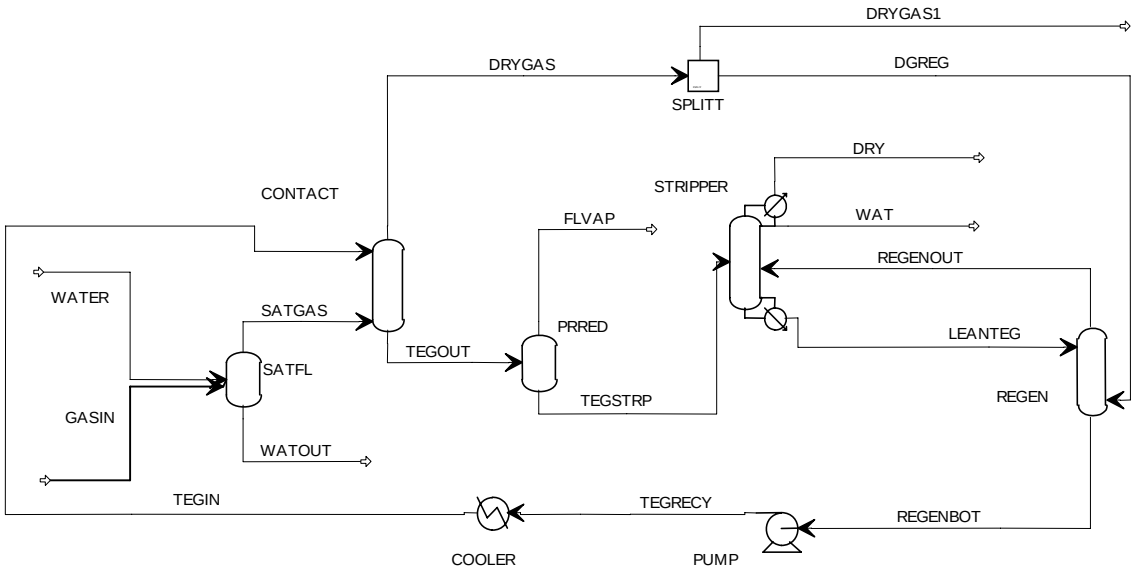
# Application Notes

Description: TEG Contactor for Moisture Removal

**Process Flow Diagram**




**Process Description**

Saturated gas is fed to the first column CONTACT. In this column, Lean TEG using packed bed counter current operation removes moisture upto 10 ppm of moisture in dry gas. The column works as absorber. In this column, structured packing is used for efficient moisture removal. The TEG, is called as Rich TEG, after absorbing moisture. The Rich TEG is regenerated using two columns namely, Stripper and Regenarator. In stripper, moisture is removed from TEG by heating. Usually reboiler is employed in this column. The moisture in TEG is further removed by recycling small quantity of Dry Gas generated in CONTACT.

**Operating Conditions**

1. TEG Contactor

| | |
|---|---|
| Pressure | : 60 bar (~850 psig) |
| Gas Inlet Temperature | : 40 $^0$ C |
| Lean TEG Inlet Temperature | : 35 $^0$ C |
| Column Internal | : Structured Packing 2.5L |

2. Stripper and Regenerator

| | |
|---|---|
| Pressure | : Atmospheric |
| Max Temperature | : 200 $^0$ C (After which TEG starts polymerizing) |
| Column Internal | :Pall Rings |