

EXPANDER GENERATOR (PRESSURE LET DOWN)

Energy prices are continuously rising, increasing the need for optimising energy usage. S2M/SKF's high speed generator offers the possibility to recover the energy of a pressurised fluid expanded in a turbine.

By recovering an un-used energy, the pressure let down generator contributes to the reduction of CO₂ emissions ! S2M's magnetic bearing further contributes to increase the overall process efficiency.

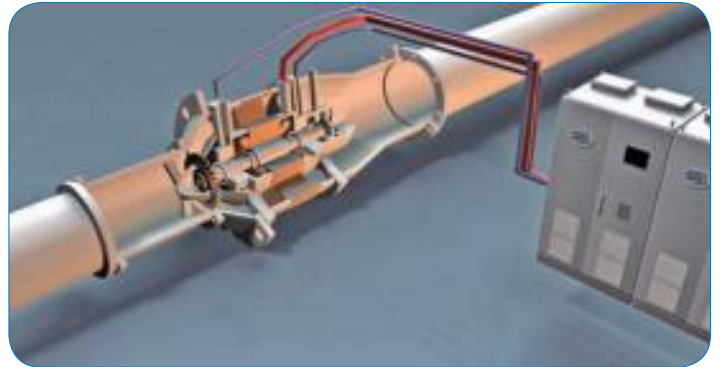


High speed pressure let down generator design

Gas Verbund Mittelland (GVM) natural gas pressure let down recovery station can deliver a total of 600 kW (2 stages).

ADVANTAGES :

- Applicable with multiple fluid/process (ex. natural gaz, air, helium)
- Full-Compliance with IEEE1547 standard for distributed power generation
- Oil-free and contact free rotation
- High efficiency



S2M/SKF's very compact electromechanical solution can be located in the pipeline itself.



by courtesy of CRYOSTAR

Grid Power : 10 kW to 300 kW

Nominal Speed : 25 000 rpm to 70 000 rpm

Total System Efficiency : 92% power efficiency

to electric grid power conversion

