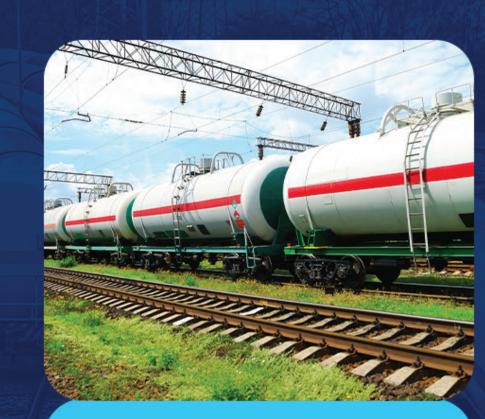


### **Application Bulletin**

# CORKEN SOLUTIONS **FOR** PROPYLENE TRANSFER

Propylene Market & **Applications Overview** 



bulk in industries where it serves as a feedstock, intermediate, or raw material. These sectors require high-volume transfer, storage, and recovery systems, making compressors and pumps essential for safe and efficient operations. Due to its flammable nature and critical role in downstream

Propylene is typically handled in

processes, safe and efficient handling of propylene, both in liquid and vapor form is essential.

**CORKEN Solutions for** 

## **Transfer Applications**

**Challenges in Propylene** 

### Handling propylene presents several operational and safety challenges:

High flammability demands stringent leakage control.

- Impurity sensitivity in industrial processes requires oil-free compression.
- Variable flow and pressure requirements across applications from railcar unloading to process
- gas recovery.

# **Propylene Transfer**

### CORKEN offers a versatile portfolio of compressors and pumps specifically

engineered to handle the complexities

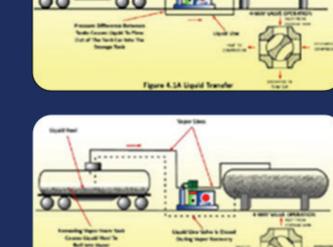
of propylene transfer across various

industrial scenarios. These solutions are designed to address both liquid and vapor phase handling, ensuring safety, efficiency, and reliability. Liquid Transfer & Vapor Recovery CORKEN compressors are widely used for transferring propylene from railcars, road

### on creating a pressure differential using the compressor, enabling safe and efficient

tankers, and emergency rescue vehicles (ERVs) to storage tanks. The process relies

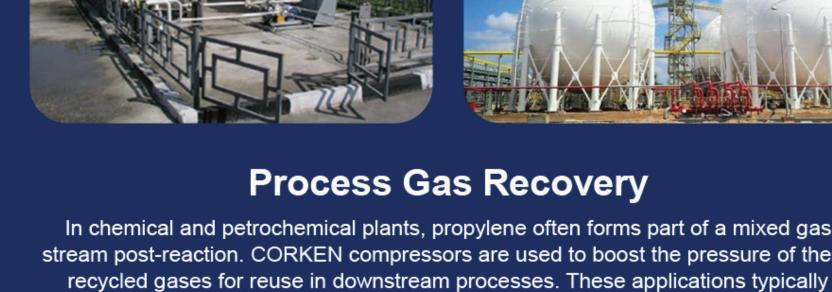
unloading. This method is also employed in manufacturing and reselling plants for loading tankers and railcars.





handling during maintenance operations.

of residual propylene to alternate storage, minimizing gas loss and ensuring safe





involve moderate to high pressures and variable flow rates, with gas mixtures

containing moisture, condensates, and other reactive components.

Tank-to-Tank Bulk Liquid Transfer

liquid transfer. These are ideal for industries such as: **Bulk drug** Intermediate chemical Aromatic and essential manufacturing production oil processing

CORKEN pumps handle medium to high differential pressures and are suitable for moderate flow

For applications where vapor recovery is not preferred, CORKEN pumps are employed for bulk

Why CORKEN is the Preferred Choice for

rates, offering robust performance in demanding environments.

**Propylene Transfer** CORKEN's compressors and pumps are engineered to meet the demanding

requirements of propylene handling—delivering unmatched safety, reliability, and

performance across industrial applications.

# Below are the Corken compressors for Propylene transfer application.

Horizontal HG601 Vertical 891

B) Options for packing combination

D-Style

A) Vertical and Horizontal orientation compressors for broad range of capacities required (5 HP to 100 HP).







T-Style

With cutting-edge design and rigorous quality control, Corken Reciprocating Compressors offer unmatched accuracy and durability, making them a trusted choice for critical applications.

**Engineered for Precision & Compliance** 

Oil-Free Compression for Process Purity

In propylene processing, eliminating oil contamination is essential. CORKEN

compressors feature non-lubricated gas compression chambers, fully isolated from the

portions of the compressor lubricated with oil. Internal components in the compression chambers are self-lubricating, eliminating the need for external lubrication and

ensuring clean, contamination-free compression. CORKEN pumps also follow this

principle, with grease-lubricated bearings and no oil-lubricated wetted parts.

Advanced Leakage Control for Safety

Propylene's high flammability demands stringent emission control. CORKEN offers multiple packing configurations:

### T-Style Plain Style D-Style These are

Offers Best

leakage control

with triple packing

for all critical

to safe area.

Greater leakage

control compared

to Plain Style on

account of Double

area.

Packing, areas with packing and more applications and Virtually leak -free installations with effective when delivering above-grade purged with inert when purged with precision elevations. inert gases for leakage control gases for disposal disposal of any and minimizing of any fugitive fugitive fugitive emissions emissions to safe

**Quiet, Smooth Operation** 

With proper installation and piping, CORKEN compressors and pumps operate smoothly and quietly, —ideal for sensitive environments.

Typically

recommended

for outdoor and

well-ventilated

Scalable Capacity Options Whether for small-scale unloading or high-capacity plant operations, CORKEN offers a wide range of solutions: Compact vertical units to large horizontal machines VFD integration for variable RPM control Suction unloaders for dynamic capacity management **Material Versatility for Harsh Conditions** 

Single- and double-acting designs Single- or two-stage compression CORKEN products are available in a wide range of materials to handle volatile, or reactive

gases. This includes specialized compressor parts, gaskets, O-rings, and protective

equipped with **Positive Seal** 

Piston V-Rings

or Segmented

emissions.

# Robust Pump Sealing Technology

**Low Total Cost of Ownership (TCO)** 

CORKEN designs prioritize ease of maintenance, with modular construction,

interchangeable parts, and simplified servicing. This results in:

coatings—ideal for critical process applications involving propylene mixtures.

CORKEN pumps feature mechanical seals with silicon carbide seats and carbon faces, offering durability and compatibility with high-pressure propylene service.

### Reduced downtime Lower maintenance costs

Greater user confidence and operational efficiency

Specialized Pump Technologies

CORKEN's Sliding Vane and Regenerative Turbine Pumps are optimized for entrained vapor handling, making them ideal for liquefied gas applications like propylene.

Choose CORKEN — Engineered for Safety, Built for Performance Whether you're transferring propylene in bulk, recovering vapor, or managing complex process flows, CORKEN

delivers proven solutions that combine safety, efficiency, and reliability.

Partner with CORKEN to elevate your propylene operations—because

when precision matters, compromise isn't an option.

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