

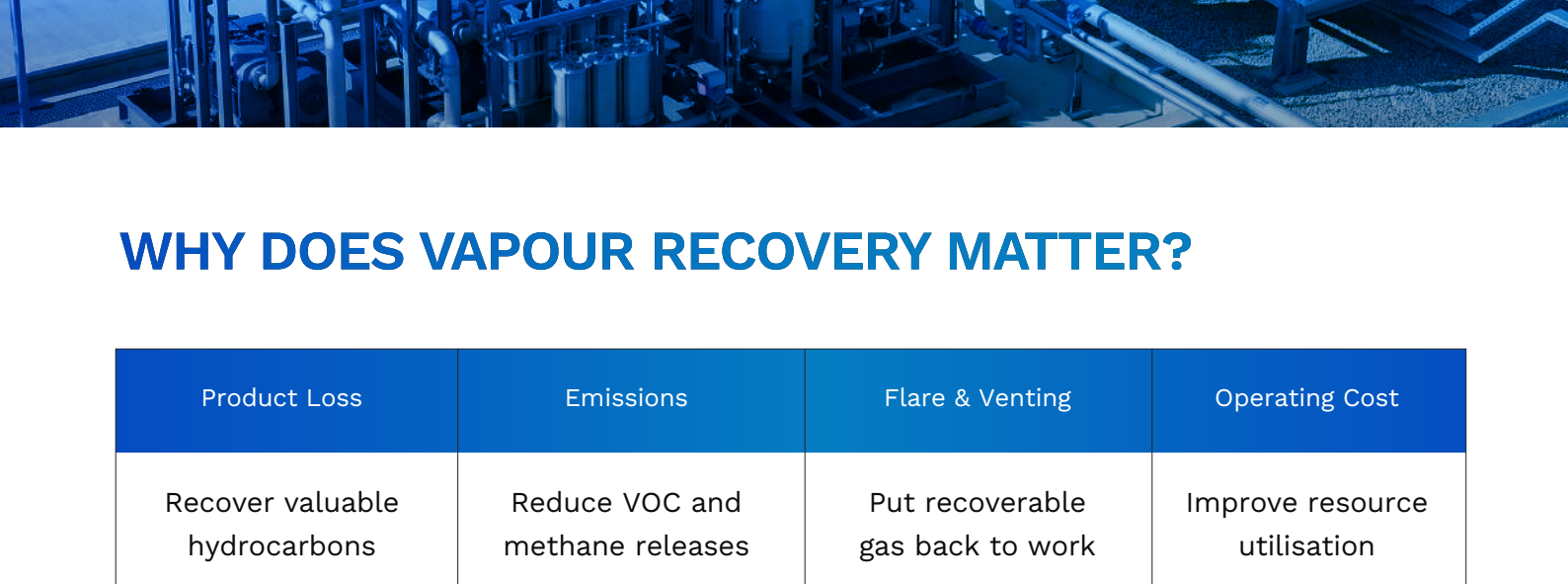
VAPOUR RECOVERY UNITS

Recover. Reuse. Reduce Loss.



CAPTURE RESIDUAL VAPOURS. RECOVER VALUABLE PRODUCT. REDUCE EMISSIONS.

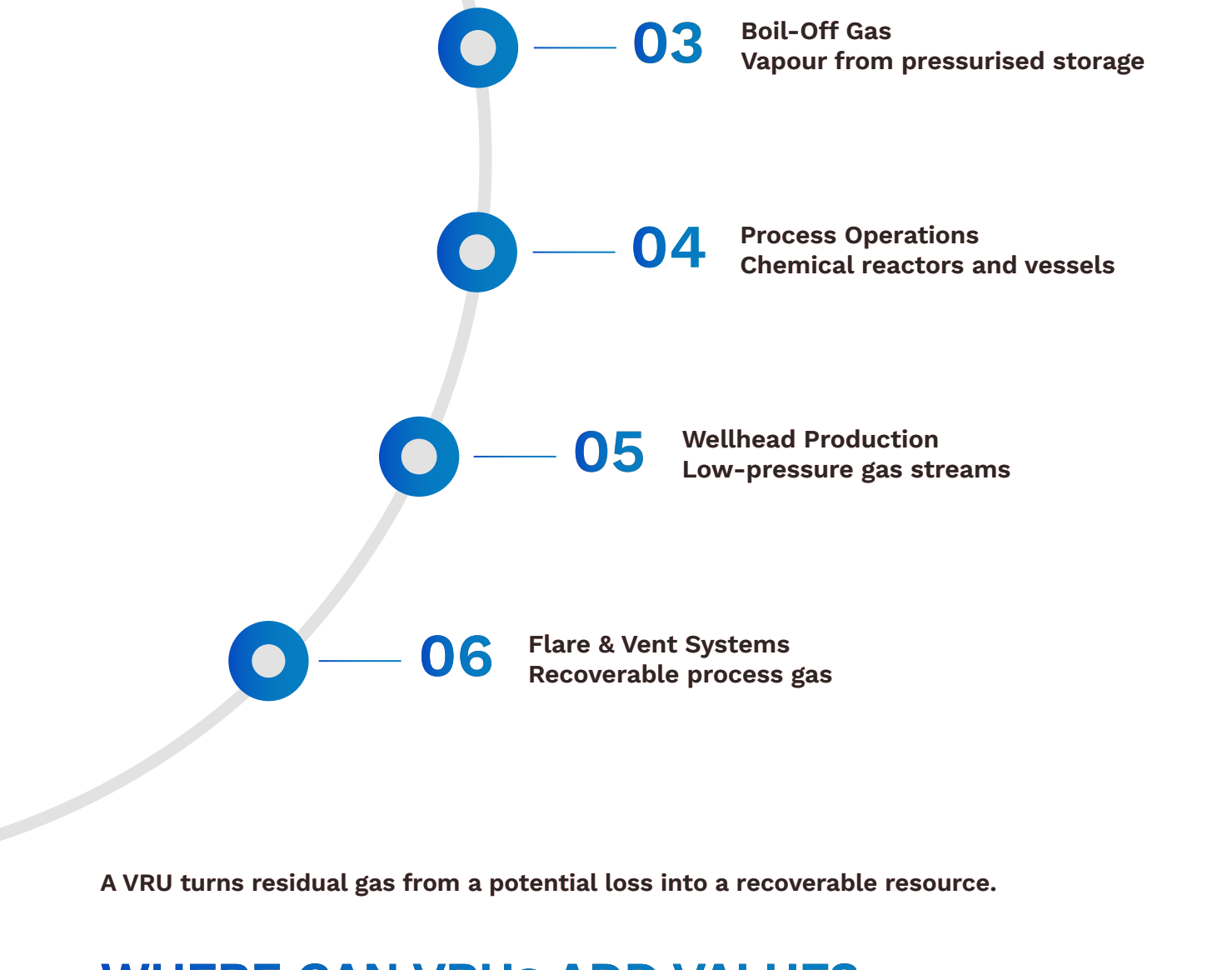
A Vapour Recovery Unit captures low-pressure or residual gases generated during storage, transfer and processing. The VRU compressor raises the gas pressure so it can be reused, stored, liquefied, treated or returned to the process.



WHY DOES VAPOUR RECOVERY MATTER?

Product Loss	Emissions	Flare & Venting	Operating Cost
Recover valuable hydrocarbons	Reduce VOC and methane releases	Put recoverable gas back to work	Improve resource utilisation

WHERE DOES VAPOUR COME FROM?



A VRU turns residual gas from a potential loss into a recoverable resource.

WHERE CAN VRUS ADD VALUE?

01 | MOBILE STORAGE RECOVERY

Tankers • Railcars • Barges
Residual vapour after unloading can be recovered and transferred for further use or processing.
Benefit: Recover product left behind in transport vessels.

02 | STATIONARY VESSEL EVACUATION

Storage • Pipelines • Process Vessels
Recover residual gas before NDT, hydrotesting, maintenance or decommissioning.
Benefit: Reduce product loss and support safer maintenance.

03 | BOIL-OFF GAS RECOVERY

Pressurised Storage
Recover vapour generated in storage instead of venting it.
Cycle: Compress → Liquefy → Return to Storage

04 | WELLHEAD COMPRESSION

Marginal & Ageing Wells
Compression can increase gas pressure and support continued production as natural well pressure declines.
Benefit: Extend the productive potential of existing assets.

05 | REACTOR GAS RECOVERY

Chemical Processing
Recover gases remaining after a reaction cycle for recycling, liquefaction or storage.
Benefit: Improve raw material utilisation.

06 | FLARE GAS RECOVERY

Plant Vents • Gathering Stations • Gas Boosting
Recover smaller gas streams that may otherwise be routed to flare.
Benefit: Reduce flaring while recovering usable gas.



WHAT MAKES A VRU EFFECTIVE?

LEAKAGE CONTROL

Gas containment is critical when handling flammable, toxic or valuable gases.
Corken: Distance-piece and packing configurations designed for controlled gas sealing.

MATERIAL COMPATIBILITY

Equipment selection must account for:
Gas composition | Corrosivity | Temperature | Pressure | Sealing

ENERGY EFFICIENCY

Recovery economics depend on balancing compressor energy consumption with the value of recovered gas.

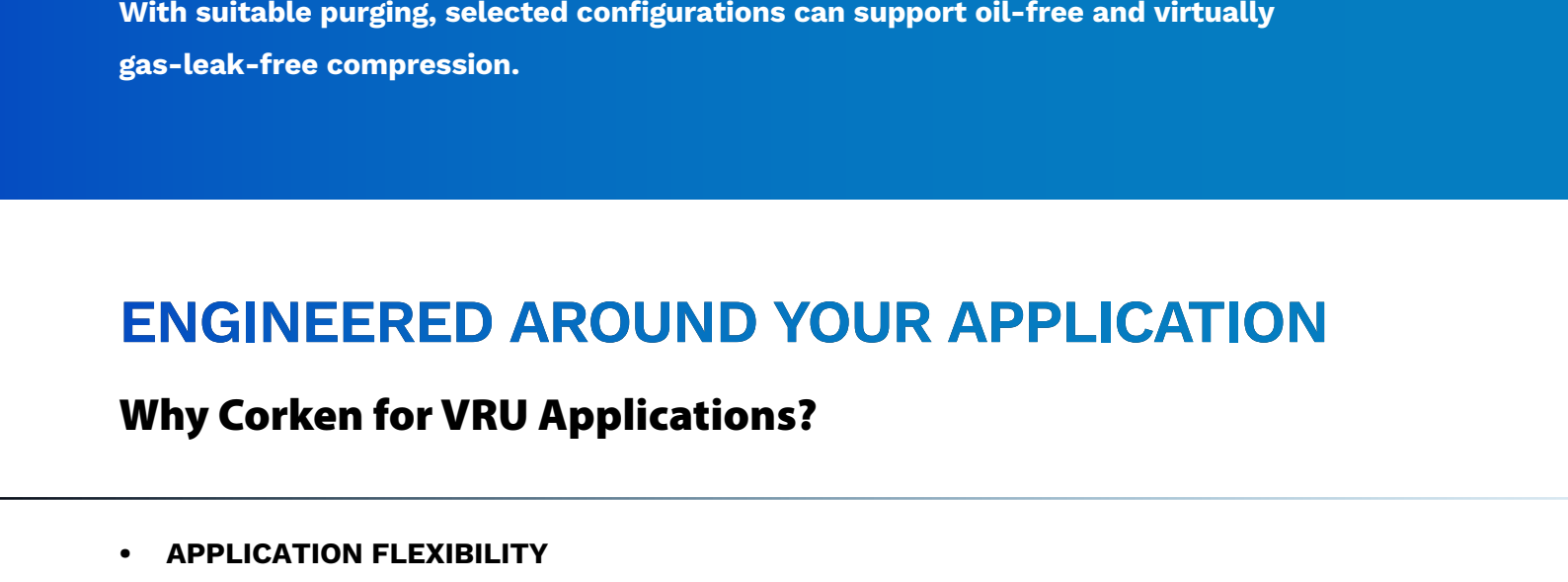
MAINTENANCE & AVAILABILITY

Long component life, accessible maintenance, interchangeable components and reduced downtime support lifecycle performance.

AUTOMATION

VRU compressor skids can be configured for different levels of automation and operator involvement.

CORKEN VRU COMPRESSOR SOLUTIONS



Vertical & Horizontal Reciprocating Compressors

Requirement	Corken Options
Orientation	Vertical / Horizontal
Staging	Single / Double stage
Cooling	Air / Water-head cooled on selected models
Pressure	Low to high pressure
Automation	Application-specific configurations

PRECISION LEAKAGE CONTROL

Corken's D-style and T-style vertical configurations use **distance pieces and multiple packing arrangements** for demanding gas recovery applications.

The T-style configuration incorporates a **double-distance-piece arrangement with three packing sets**. Depending on the application, the distance pieces can be pressurised, purged or vented independently.

With suitable purging, selected configurations can support oil-free and virtually gas-leak-free compression.

ENGINEERED AROUND YOUR APPLICATION

Why Corken for VRU Applications?

- APPLICATION FLEXIBILITY**
Vertical and horizontal configurations for diverse operating conditions.
- LEAKAGE CONTROL**
Packing and distance-piece options for demanding gas recovery applications.
- GAS COMPATIBILITY**
Material and sealing options matched to gas composition.
- PRESSURE FLEXIBILITY**
Single- and double-stage configurations for different compression requirements.
- MAINTENANCE-FRIENDLY**
Accessible construction and interchangeable components help simplify servicing.
- AUTOMATION OPTIONS**
Configurations can be adapted to the required control philosophy.

RECOVER MORE. WASTE LESS.

ENVIRONMENTAL VALUE	OPERATIONAL VALUE
- VOC emissions - Methane emissions - Flaring & venting - Hydrocarbon losses	- Product recovery - Process gas reuse - Resource utilisation - Raw material loss

WHY CORKEN?

The right VRU starts with the right compressor.
Corken combines application-focused reciprocating compressor technology with configuration flexibility for gas composition, capacity, pressure, leakage control and operating conditions.

From mobile storage recovery and vessel evacuation to boil-off, reactor and flare gas recovery, Corken provides compression solutions designed around the application.

RECOVER THE GAS. REDUCE THE LOSS.

PUT VALUABLE VAPOUR BACK TO WORK.

[Explore Corken Vapour Recovery Solutions](#)

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