

INDUSTRIAL LIQUID TRANSFER AND VAPOR RECOVERY COMPRESSORS

FOR MARITIME APPLICATIONS



BV TYPE APPROVED WITH ZONE 0 CERTIFICATION AVAILABLE

MODEL SHOWN FD891

CORKEN
Trusted Since 1924

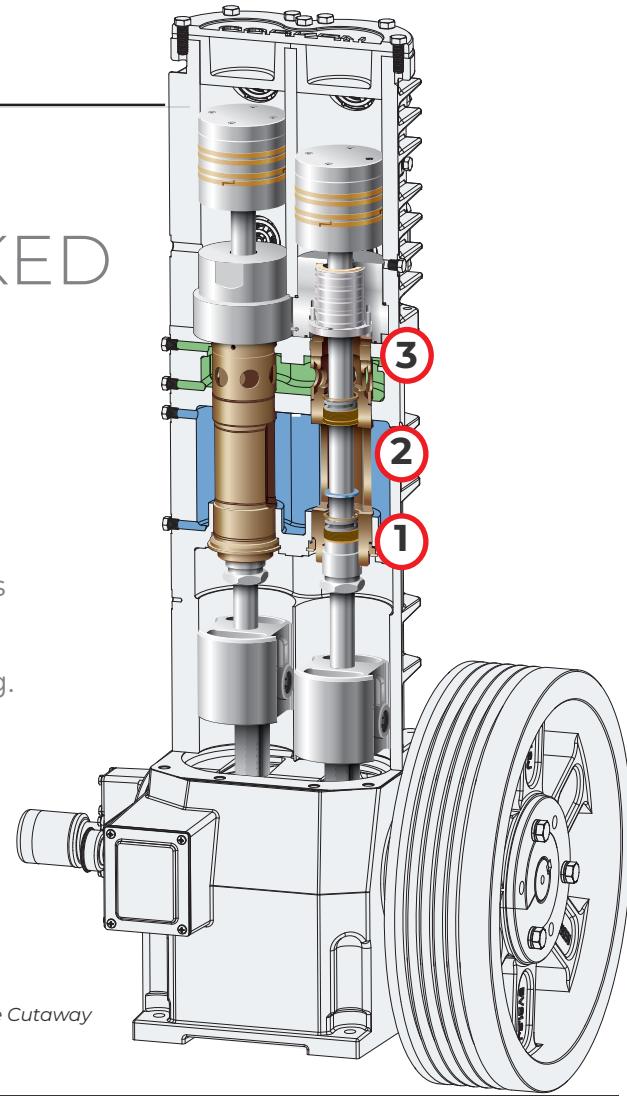
corken.com

DOUBLE OR TRIPLE PACKED

Corken's 891 compressors use a combination of V-ring and segmented packing. V-ring packing consists of several v-rings, male packing rings, female packing rings, washers, and a spring. Segmented packing consists of packing cups, spacers, o-rings, segmented packing, backup rings, and a spring.

When an application requires oil-free operation Corken offers a T-style compressor. The D-style has a single distance piece containing two sets of packing rings per piston rod while the T-style has a double-distance piece with three sets of packing.

Since the distance between each packing set is greater than the stroke of the compressor, there's no rod over travel or oil carryover. In the event oil gets past the lower packing set, an oil deflector ring keeps the oil from rising up the piston rod. In the T-style all of these features enable the compressor to supply oilfree process gas.



Model FT891 Single Stage Cutaway
Featuring Triple Packing



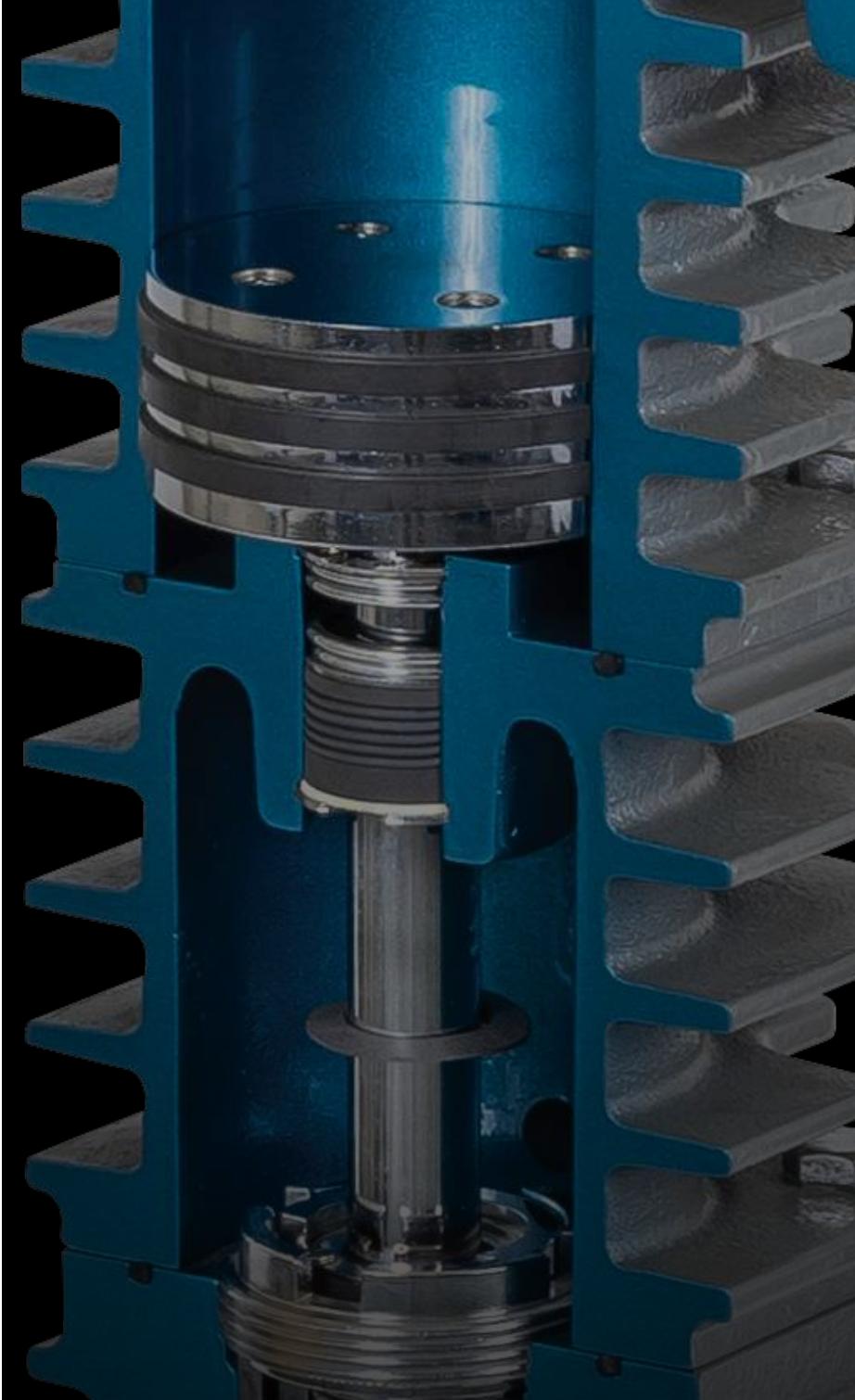
Model FT891

- **Propane**
- **Butane**
- **Hydrocarbon Mixture**
- **(LPG)**
- **Butylene**
- **Isobutylene**
- **Propylene**
- **Ammonia (anhydrous)**
- **Vinyl Chloride Monomer**
- **1,2-Butadiene (stabilized)**
- **1,3-Butadiene (stabilized)**
- **Butadiene (stabilized)**
- **Butadienes (stabilized)**
- **Isoprene (stabilized)**
- **Isobutane (with 0.1% or more 1,3-Butadiene)**
- **Trimethylamine (anhydrous)**



Model FD891

- **Propane**
- **Butane**
- **Hydrocarbon Mixture**
- **(LPG)**
- **Butylene**
- **Isobutylene**
- **Propylene**



OPERATING SPECIFICATIONS

BORE OF CYLINDER INCHES (MM)	4.5 (113.3)
STROKE INCHES (MM)	4.0 (101.6)
PISTON DISPLACEMENT CFM (M ³ /HR)	MINIMUM @ 400 RPM 56.7 (96.3) MAXIMUM @ 825 RPM 117.0 (198.8)
MAX WORKING PRESS. PSIG (BAR G)	450 (31.0)
MAX BRAKE HORSEPOWER (KW)	45 (34)
MAXIMUM ROD LOAD LB (KG)	7,000 (3,175)
MAXIMUM OUTLET TEMP °F (°C)	350 (177)

[1]
EU-TYPE EXAMINATION CERTIFICATE

[2] Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

[3] EU-Type Examination Certificate Number: **DNV 22 ATEX 64478X** **Issue 1**

[4] Product: **Model FT891 and FD891 Compressor**

[5] Manufacturer: **Advanced Flow Solutions, Inc. d/b/a Corken**

[6] Address: **9201 N 35 Service Rd,
Oklahoma City, OK 73131**

[7] This product and any acceptable variation thereof is specified in the schedule to this certificate and the documents therein referred to.

[8] DNV Product Assurance AS, notified body number 2466, in accordance with Article 17 and Article 51 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in confidential reports listed in item 18.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN IEC 60079-0:2016, EN 60079-36:2016 and EN 60079-37:2016

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate.

[11] This EU-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specific product as defined in the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:



Date of issue:
2024-07-12


Bjørn Sponsveen
For DNV Product Assurance AS
The Content of this document is confidential.
See <https://www.dnv.com/privacy> for info.



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DSPP-5-PA-ATEX-00-A2 rev 0
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 Scan the QR code with
 your smart phone camera
 to go directly to the DNV
 certification.





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Trusted Since 1924



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Machinery Directive 2006/42/EC