

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

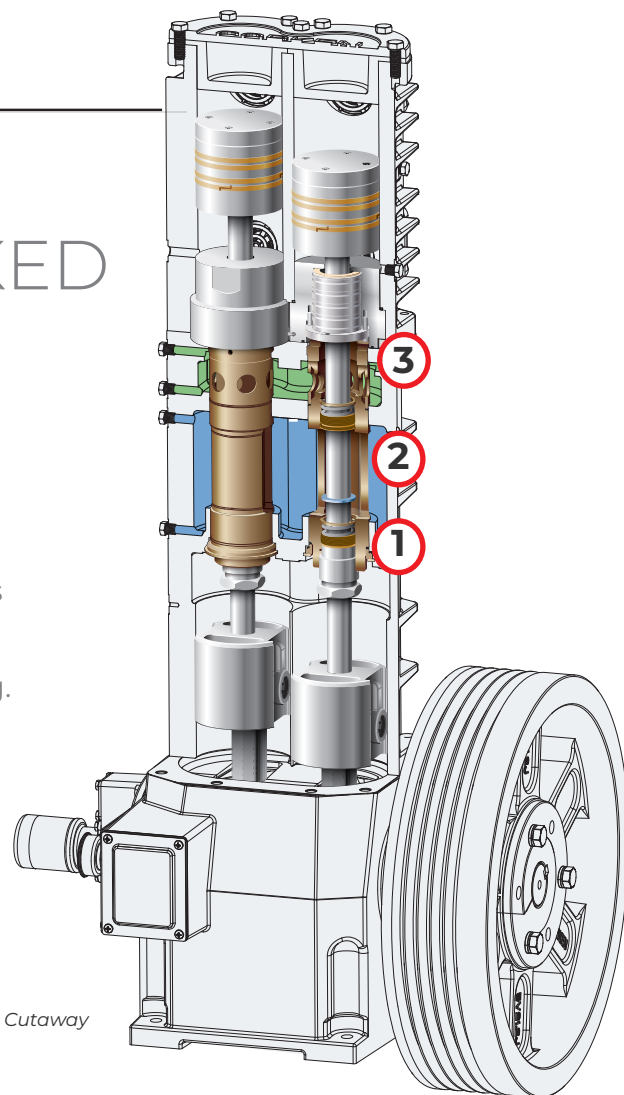
corken.com

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)

DNV

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 4447EX** Issue 1
- [4] Product: **Model FT891 and FD891 Compressor**
- [5] Manufacturer: **Advanced Flow Solutions, Inc. d/b/a Corken**
- [6] Address: **9201 N I-35 Service Rd,
Oklahoma City, OK 73121
USA**
- [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 2460, in accordance with Article 17 and Article 21 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 16.
- [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 specified product in accordance to 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:

II 1/2 G Ex h IIB+H2 T4 GaGb T_{amb} = -29°C to +50°C

Date of issue:
2024-07-12



Bjorn Spangseveen
For DNV Product Assurance AS
The Certificate has been digitally signed.
See www.dnv.com/assurance for info



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DNV Product Assurance AS, Vestre Strand 1, 1300 Høvik, Norway, Tel +47 67 57 80 00, www.dnv.com

DMP-0-PA-ATES-05-A2, rev 0
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EU-TYPE LOOKUP
Scan the QR code with your smart phone camera to go directly to the DNV certification.

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Marine & Offshore

Certificate number: 1842X01 BV
File number: ACR020Y0000000
Product code: 73001
This certificate is not valid unless presented with the full approval package composed of 3 sheets.
www.bv.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to:
Advanced Flow Solutions Inc., d/b/a Corken
Oklahoma City, OK - UNITED STATES OF AMERICA

for the use of product:
GAS COMPRESSOR
Single stage, double acting, vertical gas compressor, type "891"

Requirements:
EN ISO 10179-1 Rules for the Classification of Steel (Type 16417, Pt D, Ch 9, Sec 4
EN ISO 10179-2

This certificate is issued to attest that Bureau Veritas Marine & Offshore has undertaken the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: **25 Aug 2027**

For Bureau Veritas Marine & Offshore,
At BV POST VERIFICATION CENTRE, on 28 Oct 2024,
Francis Dumas

This certificate was issued electronically and is valid without signature



This certificate remains valid until the date stated above, unless suspended or revoked. The certificate holder is responsible for the validity and accuracy of the information provided. The certificate holder is responsible for the validity and accuracy of the information provided. The certificate holder is responsible for the validity and accuracy of the information provided.

The electronic version is available at <https://www.bv.com/verification/certificates/viewPublicPDF.aspx?certId=1842X01>
BV Mark AAS 0306 2023 This certificate consists of 3 pages



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Scan the QR code with your smart phone camera to go directly to the BV TAC.

CORKEN

Trusted Since 1924



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ISO 9001:2015 Quality Management System Cert.: 10000403068-MSC-ANAB-USA by DNV

ISO 14001:2015 Environmental Management System Cert.: 1000040363-MSC-ANAB-USA by DNV



II 2G Ex h IIB TX Gb
ACK#:13717-2018-CE-USA-PRE X
Machinery Directive 2006/42/EC