



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1643	12-Jan-2004	Number 15	Issue date 1-May-2020	30-Apr-2021

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Product designation

Fivalco, Firecheck™ DGC, 50mm/65mm/80mm/100mm/150mm, grooved check valves
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Viking Fire Protection Supplies Pty Ltd
95 – 99 Hardys Road, UNDERDALE, SA, AUSTRALIA, 5032

Registrant

The Viking Corporation
210 North Industrial Park Drive, HASTINGS, MICHIGAN, UNITED STATES, 49058

Producer

Fivalco, Inc.
2221 E. Winston Road, Unit J, ANAHEIM, CA, UNITED STATES, 92806

Conformance criteria and evaluation

The Fivalco, Firecheck™ DGC, 50mm/65mm/80mm/100mm/150mm, grooved check valves have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Factory Mutual - Evaluation and approval, 'FM approval'.

Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. The maximum working pressure of this equipment is 2070 kPa (300 psi).
- ii. The dimensional compatibility of this equipment must be verified with the actual size of the pipe to which it is to be connected. Refer to manufacturer's technical data.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to

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Producer's description

The Fivalco, Firecheck™ DGC, 50mm/65mm/80mm/100mm/150mm, grooved check valves are a compact, cost effective valves offering low pressure-drop, non-slam performance. The check valve assembly is lighter and faster to install, and costs less than flanged and wafer valve assemblies.

In the full-open position the swing clapper is held tightly against the valve body, out of the flow stream, to provide maximum flow area and prevention of clapper flutter. The clapper design produces quick, non-slam closure before flow reversal can occur.

Each valve is hydrostatically tested for leak tightness to 3450 kPa. The clapper-seat design permits leak free sealing of back pressures in service conditions, ranging from 2070 kPa to as low as 7 kPa.

Technical specification

The following details are a representative extract of the technical specification for the Fivalco, Firecheck™ DGC, 50mm/65mm/80mm/100mm/150mm, grooved check valves and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Maximum working pressure:	2070 kPa
Maximum test pressure:	3450 kPa
Maximum working temperature:	110° C

Materials

Body:	Ductile iron conforming to ASTM A 536. Epoxy coated.
Colour:	Red or black (optional)
Clapper:	50mm to 125mm, Type 304 or 302 stainless steel to ASTM 167 150mm ductile iron to ASTM A 536, Grade 65-45-12
Clapper Facing:	Grade E EPDM, -4° C to 110° C service temperature range
Seal ring:	Type 304 stainless steel to ASTM A 123, ASTM A 213, ASTM A 312 or ASTM A 269
Spring:	Type 302 stainless steel to ASTM A313
Hinge pin:	Type 304 or 302 stainless steel to ASTM A 560
Hinge pin bushings:	Sintered bronze to ASTM B 434
Hinge pin and drain plugs:	Cast iron to ASTM A 125 Class A