



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1147	2-Jun-1998	Number 13	Issue date 26-Apr-2019	30-Apr-2020

Page 1 of 2

Product designation

**Tyco Fire Products, Firecheck DGC Series,
50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check
valves**

(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Registrant

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Producer

Tyco Fire Protection Products
2401 Northeast Loop 289 & Muni, LUBBOCK, TX, UNITED STATES, 79403

Conformance criteria and evaluation

The Tyco Fire Products, Firecheck DGC Series,
50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check
valves have been evaluated and verified as conforming with the relevant requirements of the
following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL listing'.

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 Tyco Fire Products, Firecheck DGC Series,
50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check
valves are to be installed in accordance with the following instructions:
 - (a) the arrow cast on the Body must point in the direction of flow.
 - (b) when installed vertically, the flow direction arrow must point upwards.
 - (c) when installed horizontally, the Hinge Pin must be located on the top of the Body.

(Limitations/conditions of conformance continue)

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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.

Schedule to Certificate of Conformity

Certificate num.	Registration date	Version		Valid until	Page 2 of 2
afp - 1147	2-Jun-1998	Number 13	Issue date 26-Apr-2019	30-Apr-2020	

- ii. Grooved end pipe couplings used with the 7800FP valves must be installed in accordance with the manufacturer's instructions, refer Gem technical bulletin TD313.
- iii. Clapper Facing Grade E EPDM not for use in Petroleum Services. Clapper Facing Grade T Buna-N not for use in Hot Water Services

Producer's description

The Tyco Fire Products, Firecheck DGC Series, 50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check valves are designed for use in grooved end pipe fire protection systems and related equipment, where it is necessary to permit flow in one direction and to shut-off flow in the reverse direction. The Grinnell, Series 7800FP, grooved end, check valves have cut groove inlet and outlet connections which are suitable for use with grooved end size pipe couplings that are listed for fire protection system service.

The Tyco Fire Products, Firecheck DGC Series, 50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check valves may be installed vertically upward or horizontally. They are suitable for use in applications such as:

- a. fire department pumper connections to sprinkler systems,
- b. fire pump discharge and by-pass connections,
- c. connections from public water supplies to automatic sprinkler systems,
- d. gravity and pressure tank connections.

Technical specification

The following details are a representative extract of the technical specification for the Tyco Fire Products, Firecheck DGC Series, 50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check valves and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

The Tyco Fire Products, Firecheck DGC Series, 50mm/65mm/80mm/100mm/125mm/150mm/200mm/250mm/300mm, grooved end, check valves are rated for use at a maximum service pressure of 1725 kPa. They may be installed vertically or horizontally (refer to Limitations of Use).

Valve components:

Body:	Ductile Iron per ASTM A536 Grade 65-45-12 (USNF33100) Year of manufacture is cast in the Body
Seat ring:	Stainless Steel per ASTM A213 or A312 (Grade TP 304)
Hinge pin:	Stainless Steel S30200 or S30400
Hinge pin supports:	Sintered bronze Bushings per ASTM B438 (Grade 1, Type II)
Springs	Stainless Steel Wire per ASTM A313 (S30200)
Clapper assembly:	
50 mm to 125 mm	Stainless Steel S03200 or S30400 EPDM rubber clapper facing Stainless Steel Facing Retainer S30200 or S30400 Stainless Steel Type 18-8 Lock-nut

Clapper assembly:

150 mm to 300 mm	Ductile Iron per ASTM A536 Grade 65-45-12 (USN F33100) Sintered bronze Bushings per ASTM B438 (Grade 1, Type II) EPDM rubber clapper facing Stainless Steel Type 18-8 Spacer Stainless Steel Facing Retainer S30200 or S30400 Stainless Steel Type 18-8 or 316 Self-locking Cap Screw
-------------------------	--

Clapper facing:

Grade E EPDM:	Service Temperature Range - -40°C to 110°C
Grade T Buna-N:	Service Temperature Range - -29°C to 80°C
Nominal friction loss:	Refer tables in Gem Technical Bulletin TD313.