



Certificate of Conformity

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Product designation

QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire extinguishing system

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

Agent/distributor

QTEC Fire Services Pty Ltd
5 Buttonwood Place, WILLAWONG, QLD, AUSTRALIA, 4110

Registrant

QTEC Fire Services Pty Ltd
5 Buttonwood Place, WILLAWONG, QLD, AUSTRALIA, 4110

Producer

QTEC Fire Services Pty Ltd
5 Buttonwood Place, WILLAWONG, QLD, AUSTRALIA, 4110

Conformance criteria and evaluation

The QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire extinguishing system has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 5062:2016, 'Fire Protection for mobile and transportable equipment'.
2. Australian Standard AS 5062-2006, 'Fire protection for mobile and transportable equipment'.

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.

1. VDAS Loss of Pressure (LOP) Systems
 - a. The system is designed, installed, operated, and maintained, in accordance with the QTEC Fire Services Pty Ltd, VDAS LOP Design, Installation, and Commissioning Manual Edition 11 (Part number QTB951).
 - b. The fire suppression system is to be only operated between: - 5°C to 60°C.
 - c. LOP valve operating pressure range: min 1,350 kPa—max. 1,500 kPa.

(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.

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- d. Discharge hoses are to be SAE 100R1AT rated and meets MSHA 2G flame resistance requirements.
 - e. For this activation system, special 3/16" LOP hose is required.
 - f. The tube used must be Annealed Stainless Steel tube 1/2" O.D. X 20 Ga (0.89 wt) AS316.
 - g. Foam agents for use on Class A and Class B fires
 - 3% VDAS F3 fluorine free foam, or
 - 6% FIREADE 2000 aqueous film forming foam.
 - h. Nozzle design and selection, foam filling quantities and cylinder selection must be in accordance with the information and limitations as outlined in the relevant Design, Installation, and Commissioning Manual.
 - i. The cylinder should not be mounted more than 30° from the Y axis (vertical plane)
2. VDAS Rise-of-Pressure (ROP) Systems
- a. The system is designed, installed, operated, and maintained, in accordance with the QTEC Fire Services Pty Ltd, VDAS ROP Design, Installation, and Commissioning Manual Edition 11 (Part number QTB954).
 - b. The fire suppression system is to be only operated between: - 5°C to 60°C.
 - c. ROP valve operating pressure range: min 1,350 kPa—max. 1,500k Pa.
 - d. LPRM operating pressure range: min 1,000kPa—max 1,200kPa.
 - e. Hoses are to be SAE 100R1AT rated and meets MSHA 2G flame resistance requirements.
 - f. For this activation system, special LOP hose is required.
 - g. The tube used must be Annealed Stainless Steel tube 1/2" O.D. X 20 Ga (0.89 wt) AS316.
 - h. Foam agents for use on Class A and Class B fires
 - 3% VDAS F3 fluorine free foam, or
 - 6% FIREADE 2000 aqueous film forming foam.
 - i. Nozzle design and selection, foam filling quantities and cylinder selection must be in accordance with the information and limitations as outlined in the relevant Design, Installation, and Commissioning Manual.

Producer's description

The QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system is a fixed nozzle installation for protection of "off road" vehicles. Mining, Off-Road, Forestry and Construction equipment operating in harsh outdoor environments can be subjected at any time to the threat of fire, which may spread rapidly through the equipment endangering life and resulting in damage to major capital equipment and loss of production. The installation of a fire detection and suppression system is essential to minimize the risk to both operator and equipment.

The QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system designed for operating conditions experienced by mobile and transportable equipment. The QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system consist of pressurized cylinders containing foam solution, actuation devices to initiate discharge and a discharge network containing nozzles to direct the foam spray on the hazard.

Actuation of the extinguishing agent in the VDAS LOP system occurs when there is a loss of pressure in its actuation circuit. In the VDAS ROP system, the release of the solution is caused by a rise in pressure in its actuation network. However, the automated detection method in both systems utilises a loss of pressure in their detection circuits, or linear "fire wire" activation.

The QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system offers fire suppression capabilities through the combination of foam discharged in the form of a finely atomized spray. Strategically positioned nozzles direct the high velocity foam spray and provide "three dimensional" fire-fighting properties, allowing the system to suppress pressure fires such as might occur from a ruptured fuel or hydraulic line. The small droplets of foam are extremely efficient at absorbing large amounts of heat and turn to steam which further enhances the three dimensional fire-fighting properties of the QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system. Once discharged, the foam is also effective in

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suppressing spill or pool fires which may result from the collection or leakage of fuel. The resulting foam blanket provides post fire securement.

The extinguishing agent, either VDASF3 fluorine-free foam solution or AFFF (FireAde 2000), is delivered from the agent container through a hydraulic hose / stainless steel tube network and fixed-orifice spray nozzles (non-aspirating type) onto the fire-prone surfaces / areas. The spray nozzles are located and aimed such that they provide direct droplet impingement and full coverage of selected fire hazards in the risk area protected.

Technical specification

The following details are a representative extract of the technical specification for the QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire extinguishing system and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Description	Part number
9 ltr Cylinder assembly complete-LOP	QTA9/12-L
25 ltr Cylinder assembly complete-LOP	QTA19/25-L
35 ltr Cylinder assembly complete-LOP	QTA26/35-L
45 ltr Cylinder assembly, New Tall-LOP	QTA34/45NT-L
45 ltr Cylinder assembly complete-LOP	QTA34/45-L
65 ltr Cylinder assembly complete-LOP	QTA50/65-L
88 ltr Cylinder assembly complete-LOP	QTA66/88-L
106 ltr Cylinder assembly complete-LOP	QTA80/106-L
25 ltr Cylinder assembly complete-ROP	QTA19/25-R
35 ltr cylinder assembly complete-ROP	QTA26/35-R
45 ltr cylinder assembly, New Tall-ROP	QTA34/45NT-R
45 ltr cylinder assembly complete-ROP	QTA34/45-R
65 ltr Cylinder assembly complete-ROP	QTA50/65-R
88 ltr Cylinder assembly complete-ROP	QTA66/88-R
106 ltr Cylinder assembly complete-ROP	QTA80/106-R
2.5lt Cylinder Bracket	QTB467/2.5
4.5lt Cylinder Bracket	QTB467/4.5
6lt Cylinder Bracket	QTB467/6
9lt Cylinder Bracket	QTB467/9
Bracket 2 Ltr LPRM Cylinder	QTB 448
Bracket 1Ltr LPRM Cylinder	QTB 449
Bracket Cylinder LT-101-30-R	QTB462
Bracket Cylinder LT-30-R	QTB463
Bracket 19/25 litre	QTB450-PC
Bracket 35litre	QTB456-PC
Bracket 34/45-50/65 litre	QTB452-PC
Bracket 66/88-80/106litre heavy duty	QTB453-PC
Weld on bracket lug 60mm x 12 mm	QTB400
Vibration bottle mount assembly	QTB401
Std c/w bracket and cover (red)	QTB602
Co2 142gm cartridge	QTB277
Bulkhead complete	QTB603
LOP Remote 9lt External	QTB609
LOP Remote External Bulkhead	QTB611
External complete with cover	QTB613
Remote Bung and Cap	QTB614
Single Tube Nozzle Assy 1/2", plated	QTB 091
Single Tube Nozzle Assy 3/8", plated	QTB 095
Brass Nozzle assy, single straight	QTB040
Nozzle assy, single angled 90	QTB041
Nozzle assy, single angle 45	QTB 041- 45
Brass Nozzle assy, single end 90	QTB042
Nozzle assy, single end 180	QTB043
Nozzle assy, single end 45	QTB044
Nozzle assy, double angle 90/90	QTB045
Nozzle assy, double angle 90/45	QTB046
Nozzle assy, double angle 45/45	QTB047

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Description	Part number
Nozzle assy, double end 90/90	QTB048
Nozzle assy, double end 90/45	QTB049
Nozzle assy, double end 45/45	QTB050
Nozzle assy, compact 90/90	QTB053
Nozzle assy, compact 90/45	QTB054
Nozzle assy, compact end 90/90	QTB055
Nozzle assy, compact end 90/45	QTB056
Nozzle assy, compact 45/45	QTB057
Nozzle assy, compact end 45/45	QTB058
Tee, 3/4 JICm x 1/2 BSPf	QTB059
Nozzle/Bracket Tee Assembly Complete	QTB059/A
9W Nozzle tips (Hi Flow Wide)	QTB066
9.5 Nozzle tips (Hi Flow)	QTB061
4.8 Nozzle tips (Medium Flow)	QTB065
Brass Dust caps c/w wire retainer	QTB062
Plastic Dust caps- 100 in pack	QTB063
Silicone Dust Cap	QTB083
Large 6 port manifold	QTB250
Small 4 port manifold	QTB251
Twin tank single valve manifold assembly	QTB 465
Single Tank single manifold assembly	QTB 466
3/8" Inlet Mainfold	QT 0230
Induction Fill Plug Assembly	QTB 303/I
Induction tube Assembly	QTB 464
Plug 1/8 npt	QTB263
Plug 1/4 npt	QTB264
Brass Nipple 1/8 npt x 7/16 jic	QTB253B
Brass Nipple 1/4 npt x 7/16 jic	QTB254B
Nipple 1/8 NPTm	QTB280
Brass Elbow 1/8 NPT x 7/16 JIC M/M 90	QTB 290/B
Check valve input s/s jic 7.1/16x1/4 npt	QTB252
Check Valve - BSP	QTB252-B
1 Ltr LPRM Assy, c/w bracket	QTB904/A
2 Lt LPRM Assy, c/w bracket	QTB904/B
1.1 Ltr Cylinder	QT-Q01
2 Ltr Cylinder	QT-Q02
LOP tube fitting kit x 5 mtrs	QTB281
LOP Tube per meter	QTB281/A
LOP fittings kit	QTB281/B
Pyrotube Rubber Grommet	QTB275
Detection Tube Tee	QTB 284
Detection Tube Joiner	QTB 285
Nipple, 3/4 bsp x 1.1/16 jic	QTB212
Brass Nipple, 3/4 bsp x 1.1/16 jic	QTB234
Bulkhead, 1.1/16 jic	QTB213
Brass Bulkhead, 1.1/16 jic	QTB224
Tee In Tee, 1/1/16 jicm x 3/4 jicm x 3/4jicm	QTB214
Brass Tee In Tee, 1/1/16 jicm x 3/4 jicm x 3/4jicm	QTB214/B
Tee, 1.1/16 jic m/m/m	QTB215
Elbow, 1.1/16 jic m/f 90	QTB216
Brass Elbow, 1.1/16 jic m/f 90	QTB228
Elbow, 1.1/16 jic m/f 45	QTB217
Brass Elbow, 1.1/16 jic m/f 45	QTB231
Tee In Tee, 3/4jicf/3/4jicm/1 1/16jicm	QTB218
Brass Tee In Tee, 3/4jicf/3/4jicm/1 1/16jicm	QTB236
Nipple, 3/4 bsp x 3/4 jic	QTB200
Brass Nipple, 3/4 bsp x 3/4 jic	QTB235
Bulkhead, jic 3/4	QTB201
Brass Bulkhead, jic 3/4	QTB225
Nipple, 3/4 jic	QTB202
Brass Nipple, 3/4 jic	QTB202/B
Tee, jic m/m/m 3/4	QTB203
Brass Tee, jic m/m/m 3/4	QTB203/B

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Description	Part number
Elbow, 3/4 jic m/f 90	QTB204
Brass Elbow, 3/4 jic m/f 90	QTB229
Elbow, 3/4 jic m/f 45	QTB205
Brass Elbow, 3/4 jic m/f 45	QTB232
Elbow, 3/4 jic m/m 90	QTB206
Brass Elbow, 3/4 jic m/m 90	QTB206/B
Tee, 3/4 jic mmf	QTB207
Brass Tee, 3/4 jic mmf	QTB207/B
Bulkhead tee jic 3/4	QTB208
Brass Adaptor 1.1/16f x 3/4 jicm reducer	QTB209/B
Brass Tee, 3/4 jic mfm	QTB219/B
Hose SAE 100R1T x 3/4 (Red)	QTB139
Re-use end fem jic 1.1/16	QTB110
Brass Re-use end fem jic 1.1/16	QTB109
Re-use end fem jic 1.1/16 x 90	QTB111
Re-use end fem jic 1.1/16 x 90C bend	QTB112
Crimp end fem jic 1.1/16	QTB128
Brass Crimp end fem jic 1.1/16	QTB128/B
Hose SAE 100R1T x 1/2 (red)	QTB132
Re-use end fem jic 3/4 x 1/2	QTB104
Brass Re-use end fem jic 3/4 x 1/2	QTB103
Re-use end fem jic 3/4 x 90	QTB105
Re-use end fem jic 3/4 x 90C bend	QTB106
Re-use end male 3/4 jic x 1/2	QTB107
Brass Re-use end male 3/4 jic x 1/2	QTB107/B
Crimp end fem jic 3/4	QTB124
Brass Crimp end fem jic 3/4	QTB124/B
Crimp end male jic 3/4	QTB127
Brass Crimp end male jic 3/4*	QTB127/B
Hose SAE 100R1T x 1/4 (Red)	QTB138
Re-use end Fem 1/4" BSP to 1/4" Hose	QTB149
Re-use end fem jic 7/16 x 1/4	QTB100
Crimp end fem jic 7/16 x 1/4*	QTB120
Elbow M/F BSP 1/4" 90	QTB760
Hose LOP 3/16 (RED)	QTB134
Hose SAE 100R1T x 3/16 (Red)	QTB140
3/8" Hose, Push on Red (OR BLACK)	QTB154
Re-use end fem 7/16 jic x 3/16 (Brass)	QTB115
Elbow, 7/16 JICm/m	QTB255
Elbow m/f jic 7/16 90	QTB256
Brass Elbow m/f jic 7/16 90	QTB230
Elbow m/f jic 7/16 45	QTB257
Brass Elbow m/f jic 7/16 45	QTB233
Union jic 7/16	QTB258
Bulkhead jic 7/16	QTB259
Brass Bulkhead jic 7/16	QTB226
Tee run m/m/m 7/16 jic	QTB261
Brass Tee run m/m/m 7/16 jic	QTB261/B
Tee run m/m/f 7/16 jic	QTB262
Brass Tee run m/m/f 7/16 jic	QTB262/B
Tee, m/f/m 7/16 jic	QTB289
Brass Tee, m/f/m 7/16 jic	QTB289/B
3/8 S/Steel tube in 2mtr lengths	QTB153
Tube Nut/Sleeve for 3/8 S/S Tube	QTB150
1/2 s/steel tube in 2mtr lengths	QTB141
Tube Nut/Sleeve for 1/2 S/S Tube	QTB211
Stainless Steel Tube Nut/Sleeve for 1/2 S/S Tube	QTB211/SS
Clamp weld on 1/4 tube black hi temp	QTB001
Clamp weld on 1/4 hose black hi temp	QTB002
Clamp weld on 1/2 tube black hi temp	QTB003
Clamp weld on 1/2 hose black hi temp	QTB004
Clamp weld on 3/4 hose black hi temp	QTB005
Clamp bolt on 1/4 tube black hi temp	QTB006

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Clamp bolt on 1/4 hose black hi temp	QTB007
Clamp bolt on 1/2 tube black hi temp	QTB008
Clamp bolt on 1/2 hose black hi temp	QTB009
Clamp bolt on 3/4 hose black hi temp	QTB010
P Clamp 3/16 Hose	QTB021
P Clamp .62 3/16 LOP Hose Spiral Gaurded	QTB028
P Clamp 1/4 Hose	QTB029
P Clamp 1/2 Hose/ RubberGommet	QTB022
P Clamp 3/4 Hose	QTB023
P-Clamp 0.38 suit cable	QTB 031
Clamp, weld on 3/8 Tube	QTB038
Clamp, weld on 18mm, manifold	QTB039
Cable/m 2 core	QTB511/2
Cable/m 4 core	QTB511/4
Cable/m 4 core Hi Temp Silicon	QTB536
Stainless Steel Pressure Switch,n/o-n/c,duetz 1100 kPa	QTB517-SS
Stainless Steel Pressure Switch, n/o-n/c,duetz 200 kPa	QTB518-SS
Stainless Steel Pressure Switch 800KPA	QTB520-SS
Stainless Steel Pressure Switch 100KPA, C/W 4.7Kohm Resistor	QTB558-SS
Pressure Switch 1000kPa C/W 10Kohm Resister, N/C, 2 Wire Terminal	QTB563
Mk4 Alarm Panel Electronic Code Reset AS5062 (Fire wire activation)	QTB550
MK3 Alarm Panel Key Reset AS5062	QTB519
Mk5 Alarm Panel Code Reset AS5062	QTB554
GEM- Solenoid 12-24 volts	QTB529
End of Line Resistor 4.7 ohms and Housing	QTB560
Linear Wire 100 ft 30.5m/Roll	QTB549
Electrical Remote Complete Bulk Head	QTB605
Electrical Remote Complete With Cover	QTB606
Weld on tapped block M8	QTB408
Electric actuator Type C3	QTB572
Squib red and white 1 m cable, Plastic adapter, Rubber washer	QTB573
Linear Wire 180°C	QTB549
Pneumatic/Electrical Actuator	QTB633
Mechanical/Pneumatic/Electrical Actuator	QTB634
Spiral Guard 12mm (3/16&1/4)	QTB410-12
Spiral Guard 16mm (3/16&1/4)	QTB410-16
Spiral Guard 20mm (1/2)	QTB410-20
Spiral Guard 25mm (3/4)	QTB410-25
Schrader Valve c/w Brass Cap 1/8	QTB411
Schrader Valve, 90 deg. c/w Brass cap	QTB411-90
Schrader Valve c/w Brass Cap 1/4	QTB411-B
Liquid Filled Gauge 900-1600 kPa	QTB412
Liquid Filled Guage 800-1200KP	QTB 412/LP
Liquid Filled Guage 900-1600KP - Bottom Entry	QTB412/BE
VDASF3 Flourine Free Foam 20Lt Pail	S-FR-VDASF3-20
FireAde 2000 19Lt Pail	FA-AFFF 19
9/12Cylinder	QTC0912
19/25 Cylinder	QTC0325
35 Cylinder	QTC0235
45 New Tall Cylinder	QTC0245
34/45 Cylinder	QTC0145
50/65 Cylinder	QTC0165
66/88 Cylinder	QTC0188
80/106 Cylinder	QTC01106
Induction Cylinder 2.5Ltr	QTC01/2.5
Induction Cylinder 4.5Ltr	QTC01/4.5
Induction Cylinder 6Ltr	QTC01/6
2.5lt Siphon Tube 5/8	QTB460-2.5
4.5lt Siphon Tube 5/8	QTB460-4.5
6lt Siphon Tube 5/8	QTB460-6
9Lt Siphon tube 5/8	QTB460-9
25Lt Siphon tube 5/8	QTB460-25
30Lt Siphon tube 5/8	QTB460-30

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35Lt Siphon tube 5/8	QTB460-35
45Lt Siphon tube 5/8	QTB460-45
65Lt Siphon tube 5/8	QTB460-65
88Lt Siphon tube 5/8	QTB460-88
106Lt Siphon tube 5/8	QTB460-106
25Lt Siphon tube 3/4	QTB461-25
30Lt Siphon tube 3/4	QTB461-30
35Lt Siphon tube 3/4	QTB461-35
45Lt Siphon Tube 3/4 Long	QTB461-45/Long
45Lt Siphon tube 3/4	QTB461-45
65Lt Siphon tube 3/4	QTB461-65
88Lt Siphon tube 3/4	QTB461-88
106Lt Siphon tube 3/4	QTB461-106
Fill plug	QTB303
Relief Valve	QTB301
Cylinder Adaptor	QTB600/W
Cylinder Adaptor	QTB600/A
Cylinder Label, Generic STD	QTB711
VDAS - Cylinder Label 106Lt	QTB705
VDAS - Cylinder Label 88Lt	QTB706
VDAS - Cylinder Label 65Lt	QTB707
VDAS - Cylinder Label 45Lt	QTB708
VDAS - Cylinder Label 35Lt	QTB709
VDAS - Cylinder Label 25Lt	QTB710
Cylinder Label, Generic STD	QTB711F
VDASF3 - Cylinder Label 106Lt	QTB705/F3
VDASF3 - Cylinder Label 88Lt	QTB706/F3
VDASF3 - Cylinder Label 65Lt	QTB707/F3
VDASF3 - Cylinder Label 45Lt	QTB708/F3
VDASF3 - Cylinder Label 35Lt	QTB709/F3
VDASF3 - Cylinder Label 25Lt	QTB710/F3
Cylinder Band, Blue	QTB701
9lt 1350 LOP Valve	QTB950-1350
9lt LOP Valve	QTB950
LOP Valve	QTB917
LOP Valve Service Kit	QTB912
ROP-M Valve	QTB940
ROP Valve	QTB2012
ROP Valve Service Kit	QTB913
QTEC VDAS Pre Engineered Automatics Fire Suppression System, Loss of Pressure, Design, Installation and Commissioning Manual	QTB 951
QTEC VDAS LOP Service and Maintenance Manual	QTB 952
QTEC VDAS LOP Operators Manual	QTB 953
QTEC VDAS Pre Engineered Automatic Fire Suppression System, Rise of Pressure, Design, Installation and Commissioning Manual	QTB 954
QTEC VDAS ROP Service and Maintenance Manual	QTB 955
QTEC VDAS ROP Operators Manual	QTB 956
QTEC VDAS 9Lt Pre Engineered Automatic Fire Suppression System, Loss of Pressure, Design, Installation and Commissioning Manual	QTB 957
QTEC VDAS Twin 9Lt Pre Engineered Automatic Fire Suppression System, Loss of Pressure, Design, Installation and Commissioning Manual	QTB 966

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Source	Title	Issue
Ident. type	Ident.			
Report	XF3145/R1	CSIRO Fire Systems Laboratory, AU	Evaluation for Conformity of the QTEC VDAS, Loss of Pressure (LOP) and Rise of Pressure (ROP), pre-engineered foam water spray vehicular fire suppression system to the requirements of AS 5062:2016	22-Dec-2017
Manual	QTB951/M	QTEC Fire Services Pty Ltd, AU	Vehicle Detection Actuation Suppression Loss of Pressure Design, Installation and Commissioning Manual Edition 11	5-Dec-2017
	QTB954/J		Vehicle Detection Actuation Suppression Rise of Pressure Design, Installation and Commissioning Manual Edition 11	6-Dec-2017
Report No.	MF0001/R1	CSIRO, Materials Science and Engineering, Fire Systems, AU	Evaluation for conformity - QTEC, VDAS, Pre Engineered Automatic Fire Suppression System	29-Feb-2012
Report No.	20E-09-0034-TRP-464723-0	Vipac Engineers & Scientist Ltd, NSW, AU	Fire System Environmental tests C106 ROP Cylinder and LOP System	16-Aug-2011
AS 5062-2006 Test No.	2	QTEC Fire Services Pty Ltd, AU and CSIRO, Materials Science and Engineering, Fire Systems, AU	Hydrostatic Test Report	7-May-2010
	2		Flow Distribution Test Report	14-Dec-2011
	2		Fuel Spill Extinguishment and Re-ignition Test (Direct & Indirect)	15-Dec-2011
	9		Operation Test Report	20-Sep-2010
	7		Testing for Conformity to AS5062-2006 500 Cyclic Operation Test Report	7-Jun-2010
	19		Burst Strength Test Report	7-Jun-2010