



QTEC FIRE SERVICES PTY LTD
Quality in Supply, Installation and Manufacturing



COMPACT LOP & ROP SYSTEMS



Component Manual



www.qtecfire.com.au
QTB966





Table of Contents

1. Document History	3
2. Basic system designs	4
3. Alarm Panels	5
4. Electrical—Alarm panel accessories	6
4.1 Electrical—Fuse Holder, electrical cable, & zip ties	7
5. Remote Actuators	9
6. Valves	10
6.1 Electronic Solenoid Valve	11
7. Valve & Tank—accessories	12
8. Manifolds, Schrader valves, Gauges, check valves	13
9. Siphon Tubes	14
10. Labels	15
11. Bare Cylinders	17
11.1 Cylinder Assemblies	18
12. Brackets & Mounts	19
13. LPRM & LOP Detection kits	20
14. Nozzles & Dust Caps	21
15. Compact Nozzles Assemblies	22
15.1 Compact Nozzle Breakdowns	23
15.2 Compact Nozzle Breakdowns	24
16. Fittings - Brass Push On and 7/16 and 9/16 Fittings	25
17. Mounts & P - Clamps	26
17.1 Brackets, Clamps - General	27
18. Foam, Hose, & Spiral Wrap	28

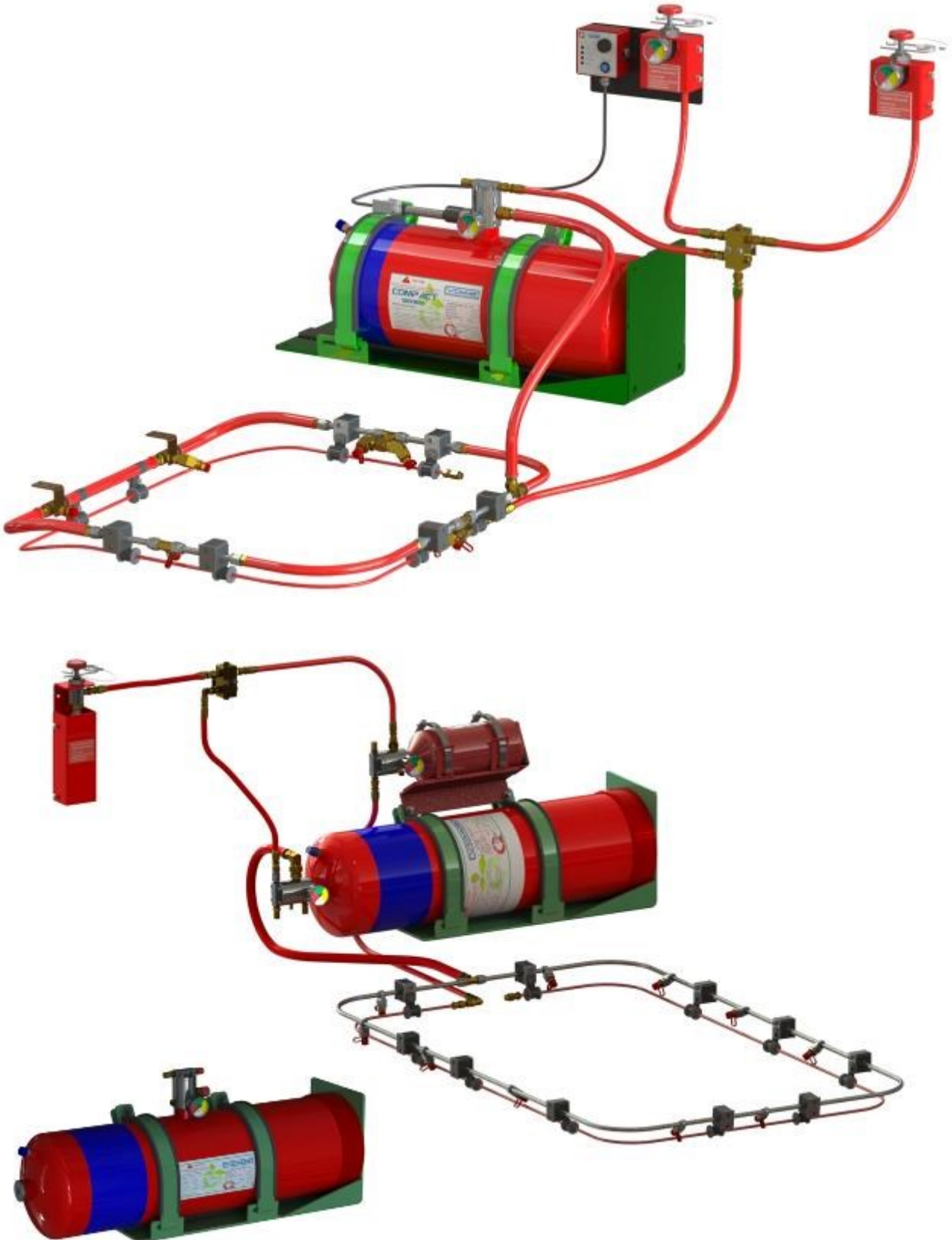


1 History—Manual QTB966

Revision	Amendment Description	Date
A	Original Release	28/08/12
B	Second Release all pages updated	02/12/15
C	Third Release all pages up dated	23/09/16
D	Fourth Release Last page removed, page 8 modified	17-07-17
E	Firth Release VDASF3 Foam, VDASF3 labels, New look LOP valve, Brass Fittings, added	16-03-18
F	Sixth Release New ROP-M Valve, update some part numbers, and Pictures	10-01-19
G	Up date whole Manual	01-08-19
H	Up date Page 23 two part numbers updated, change all headers to registered logo's	29-01-21
I	Up date Page 9 LOP Remote Twist Handle, Ad page 11 Electronic LOP Compact Valve, Update page 12, fill plug, Ad page 16 Labels, Up date Page 28 Hoses.	23-06-21

This is an uncontrolled document. However, Qttec Fire reserves the right to make changes as necessary for ongoing development of the VDAS LOP & ROP systems.

2 Basic Designs — VDAS COMPACT LOP & ROP



3 ALARM PANELS



QTB550



QTB522



QTB523



QTB554

QTB550	System Status Indication (Alarm Panel) Fire wire, Spot detectors, & Solenoid Operated Electronic & Battery back up AS5062 Compliant
QTB554	System Status Indication (Alarm Panel) Small AS5062 Compliant
QTB522	Override key
QTB523	Reset Key

4 ELECTRONIC ALARM PANEL— Accessories



QTB529



QTB560



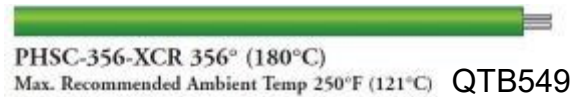
QTB605



QTB606



QTB517-SS
QTB558-SS



PHSC-356-XCR 356° (180°C)
Max. Recommended Ambient Temp 250°F (121°C) QTB549



PHSC-280-XCR 280° (138°C)
Max. Recommended Ambient Temp 200°F (93°C) QTB780



QTB529	GEM—Solenoid
QTB560	End of Line Resistor 4.7k and Housing
QTB605	Electrical Remote Complete Bulk Head
QTB606	Electrical Remote Complete With Cover
QTB517-SS	Stainless Steel Pressure Switch, n/o-n/c, duetz 1100 kPa
QTB558-SS	Stainless Steel Pressure Switch 100KPA, C/W 4.7Kohm Resistor
QTB549	Linear Wire 356F/180°C (green) / metre
QTB780	Linear Wire 280F/138°C (blue) / metre

4.1 ELECTRICAL, PRESSURE SWITCH — Accessories



QTB517-SS
QTB520-SS
QTB518-SS



QTB500/16



QTB500/20



QTB500/25



QTB534



QTB512/2



QTB512/6



QTB512/3



QTB512/8



QTB512/4



QTB512/12

QTB517-SS	1,100 kPa Pressure Switch
QTB520-SS	800 kPa Pressure Switch
QTB518-SS	200 kPa Pressure Switch
QTB500/16	Cable Gland* 16mm
QTB500/20	Cable Gland* 20mm
QTB500/25	Cable Gland* 25mm
QTB534	Duetch Connect clamp
QTB512/2	2 Pin Connector Kit
QTB512/3	3 Pin Connector Kit
QTB512/4	4 Pin Connector Kit
QTB512/6	6 Pin Connector Kit
QTB512/8	8 Pin Connector Kit
QTB512/12	12 Pin Connector Kit

4.2 ELECTRICAL, FUSE HOLDER, ELECTRICAL CABLE, & ZIP TIES



QTB505



QTB511/2
QTB511/4



QTB536



QTB024
QTB025
QTB026
QTB027



QTB505	Power/fuse lead x 5 mtrs*
QTB511/2	Cable/m 2 core Hi Temp Silicon
QTB511/4	Cable/m 4 core
QTB536	Cable/m 4 core Hi Temp Silicon
QTB024	Zip ties extra small*
QTB025	Zip ties small*
QTB026	Zip ties medium*
QTB027	Zip ties large*

5 REMOTE ACTUATORS



QTB602	Std c/w bracket and cover (red)
QTB 602/NC	ROP Actuator - No Cartridge
QTB277- OR	Co2 55gm cartridge (with O Ring)
QTB603	Bulkhead complete
QTB 603/NC	ROP Bulkhead Complete N/C
QT 0134-OR	ROP Remote Spindle c/w O-Rings
QT 0214	Palm Button Red Anodized
QT 0038	Palm Button Powder Coated Steel
QTB614	Remote Bung and Cap
QT 0046-1	Pull Pin C/W Lanyard
QTB611	LOP Remote External Bulkhead
QTB613	External complete with cover
QT 0046-OR	LOP Remote Spindle c/w O-Rings
QT 0038-A	Palm Button Label
QT 0090/1	Actuator Label
QT 0241	Brass DASH Mount Gauge Extension
QTB608	LOP Remote Twist Handle type

6 COMPACT LOP & ROP VALVES



QTB950



LPRM



QTB950-1350



QTB940



QTB950	LPRM Valve
QTB950-1350	LOP Valve (COMPACT SYSTEM)
QTB940	ROP Valve (COMPACT SYSTEM)

6.1 COMPACT ELECTRONIC SOLENOID VALVE



QTB950-1350-SB



QTB469

QTB950-1350-SB	LOP Valve (COMPACT SYSTEM or LPRM Valve) Complete Valve with 12V Solenoid & Stainless Steel Bracket
QTB469	LOP Valve (COMPACT SYSTEM or LPRM Valve) Solenoid Valve Stainless Steel Bracket

7 VALVE & TANK — Accessories



QTB942



QTB941



QTB905



QTB911



QTB301



QTB321



QTB942	Compact ROP Valve stem assembly
QTB941	Compact ROP Valve Service Kit
QTB905	Compact LOP and LPRM Valve Piston
QTB911	Compact LOP and LPRM valve Service Kit
QTB301	Relief Valve
QTB321	Compact Fill Plug

8 MANIFOLDS, SCHRADER VALVES, GAUGES, & CHECK VALVES



QTB251



QTB263
QTB264



QTB253/B
QTB254/B
QTB280



QTB411
QTB411/B



QTB411-90



QTB412
QTB412LP



QTB252

QTB251	Manifold, Small 4 Port
QTB263	Plug 1/8 NPT
QTB264	Plug 1/4 NPT
QTB253/B	Brass Nipple 1/8 NPT x 7/16 JIC
QTB254/B	Brass Nipple 1/4 NPT x 7/16 JIC
QTB280	Nipple 1/8 NPT x 7/16 JIC
QTB411	Schrader Valve c/w Brass Cap (1/8NPTm-7/16 JICm)
QTB411/B	Schrader Valve c/w Brass Cap (1/4NPTm-7/16 JICm)
QTB411-90	Schrader Valve, 90° c/w Brass Cap (1/8NPTm-7/16 JICm)
QTB412	BOTTLE & ACTUATORS — Liquid Filled Gauge 900 — 1500 kPa
QTB412LP	LPRM — Liquid Filled Gauge 800 — 1200 kPa
QTB252	ROP Check Valve

9 SIPHON TUBES



QTB462-12V
 QTB462-20V
 QTB462-25V
 QTB462-30V



QTB462-SH

COMPACT System Siphon Tubes

QTB462-12V	12lt Compact Siphon Tube 5/8"
QTB462-20V	20lt Compact Siphon Tube 5/8"
QTB462-25V	25lt Compact Siphon Tube 5/8"
QTB462-30V	30lt Compact Siphon Tube 5/8"
QTB462-SH	20lt, 25lt, & 30lt Compact Horizontal systems only S/S Siphon Tube 5/8"

10 LABELS



CAUTION

CONDITIONS AND HAZARDS VARY. THIS UNIT IS NOT GUARANTEED TO SUPPRESS FIRES UNDER EVERY POSSIBLE CONDITION

COMPACT SERIES

SERVICE AND MAINTENENCE

If pressure drops below acceptable working range re-pressurise with air or nitrogen.

To ensure safe and effective operation, service and maintenance procedures must only be performed by a Accredited Service Personal and in accordance with Qtec Fire Service and Maintenance Manual.

It is important that only those recharging materials specified in the service and Maintenance Manual be used. The use of other recharging materials may impair the efficacy or cause malfunction of the system.

Part No: QTB717/F3



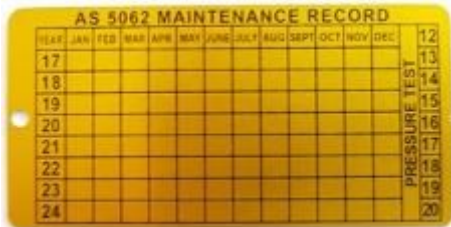
STORED PRESSURE TYPE	
CYLINDER SIZE	25 Litres
FOAM CAPACITY	.800 Litres
WATER CAPACITY	19.2 Litres
WORKING PRESSURE	kPa@ 20 ^o +/- 2c
CONTENT	VDASF3 Foam



Qtec Fire Services Pty Ltd
 5 Buttonwood Place
 Willawong, QLD 4110
 AUSTRALIA
 Tel: +61 7 3711 7544
 Fax: +61 7 3711 7433

QTB715/F3	VDAS COMPACT - Cylinder Label 12Lt F3
QTB716/F3	VDAS COMPACT - Cylinder Label 20Lt F3
QTB717/F3	VDAS COMPACT - Cylinder Label 25Lt F3
QTB718/F3	VDAS COMPACT - Cylinder Label 30Lt F3

10 LABELS



QTB 414



QTB 712



QTB 720



QTB 720-S



QTB 772



QTB 721



QT 0038-A



QT 0090/1

QTB 414	AS5062 Maintenance Record Tag
QTB 712	LABEL — Arrow Fire Suppression ARROW LABEL
QTB 720	WARNING LABEL — May Operate Automatically
QTB 720-S	WARNING LABEL — May operate Automatically & Initiate Shutdown
QTB 721	LABEL — Alarm System Time Delays
QTB 722	LABEL — Remote Actuator Rotating Handle
QT 0038-A	LABEL — Palm Button Label
QT 0090/1	LABEL — Remote Actuator Push Label

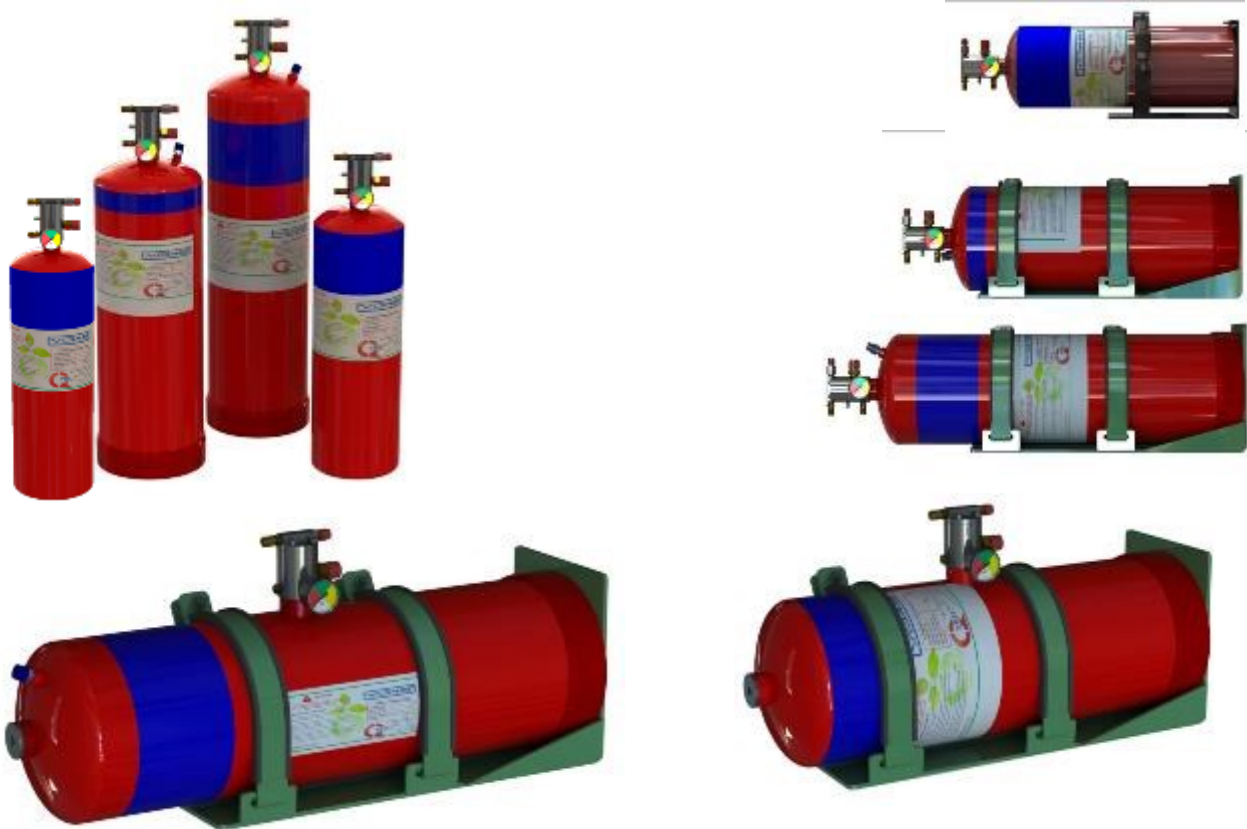
11 BARE CYLINDERS



VDAS COMPACT — BARE CYLINDERS

Part No.		Total Volume Capacity	Approval No. VIC DOL	Design Pressure (MPa)	Test Pressure (MPa)	Bare Cylinder Height (mm)	Height of Cylinder and Valve (mm)	Diameter (mm)
QTC9/12	Vertical	12				554	649	180
QTC0320H	Horizontal	20	GC6-178930/14	4	5.2	665	760	216
QTC0320V	Vertical	20	GC6-178930/14	4	5.2	665	760	216
QTC0325H	Horizontal	25	GC6-178930/14	4	5.2	775	870	216
QTC0325V	Vertical	25	GC6-178930/14	4	5.2	775	870	216
QTC0330H	Horizontal	30	V1061-84	4	5.2	995	1090	216
QTC0330V	Vertical	30	V1061-84	4	5.2	995	1090	216

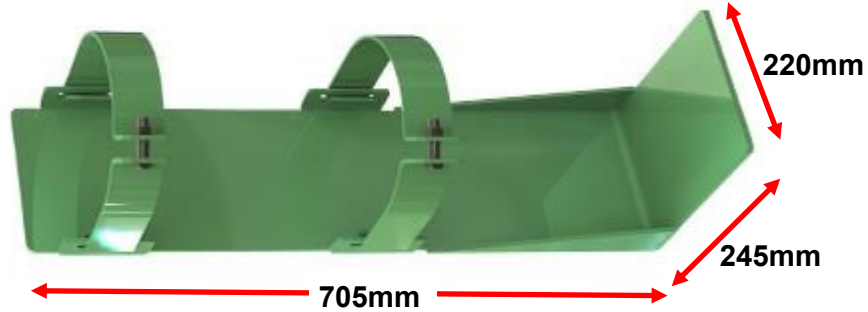
11.2 VDAS COMPACT — CYLINDER ASSEMBLIES



LOP VERTICAL	
QTA10/12-L	10L COMPACT Cylinder Assy Complete-LOP
QTA16/20-L	16L COMPACT Cylinder Assy Complete-LOP
QTA20/25-L	20L COMPACT Cylinder Assy Complete-LOP
QTA24/30-L	30L COMPACT Cylinder Assy Complete-LOP
LOP HORIZONTAL	
QTA16/20-LH	16L COMPACT Cylinder Assy Complete-LOP
QTA20/25-LH	20L COMPACT Cylinder Assy Complete-LOP
QTA24/30-LH	30L COMPACT Cylinder Assy Complete-LOP
ROP	
QTA10/12-R	10L COMPACT Cylinder Assy Complete-ROP
QTA16/20-R	16L COMPACT Cylinder Assy Complete-ROP
QTA20/25-R	20L COMPACT Cylinder Assy Complete-ROP
QTA24/30-R	30L COMPACT Cylinder Assy Complete-ROP
ROP HORIZONTAL	
QTA16/20-RH	16L COMPACT Cylinder Assy Complete-ROP
QTA20/25-RH	20L COMPACT Cylinder Assy Complete-ROP
QTA24/30-RH	30L COMPACT Cylinder Assy Complete-ROP

12 BRACKETS & MOUNTS

Bracket for 20L, 25L, 30L QTB450-PC



S-EXB-FLS-WVBPC9



QTB449



QTB0177-PC



QT0245



QT0244



QTB450-PC	COMPACT Series Bracket 16/20Ltr, 20/25Ltr, 24/30Ltr powder coated
QTB 449	1Ltr LPRM Cylinder Bracket
S-EXB-FLS-WVBPC9	12 litre Cylinder Bracket
QTB0177-PC	LPRM 90o Support Bracket
QT0244	Cab Plate LOP Remote
QT0245	Cab Plate Small Alarm Panel

13 LPRM & LOP DETECTION KITS



QTB904/A



QTB281



QTB281/A



QTB281/B



QTB275



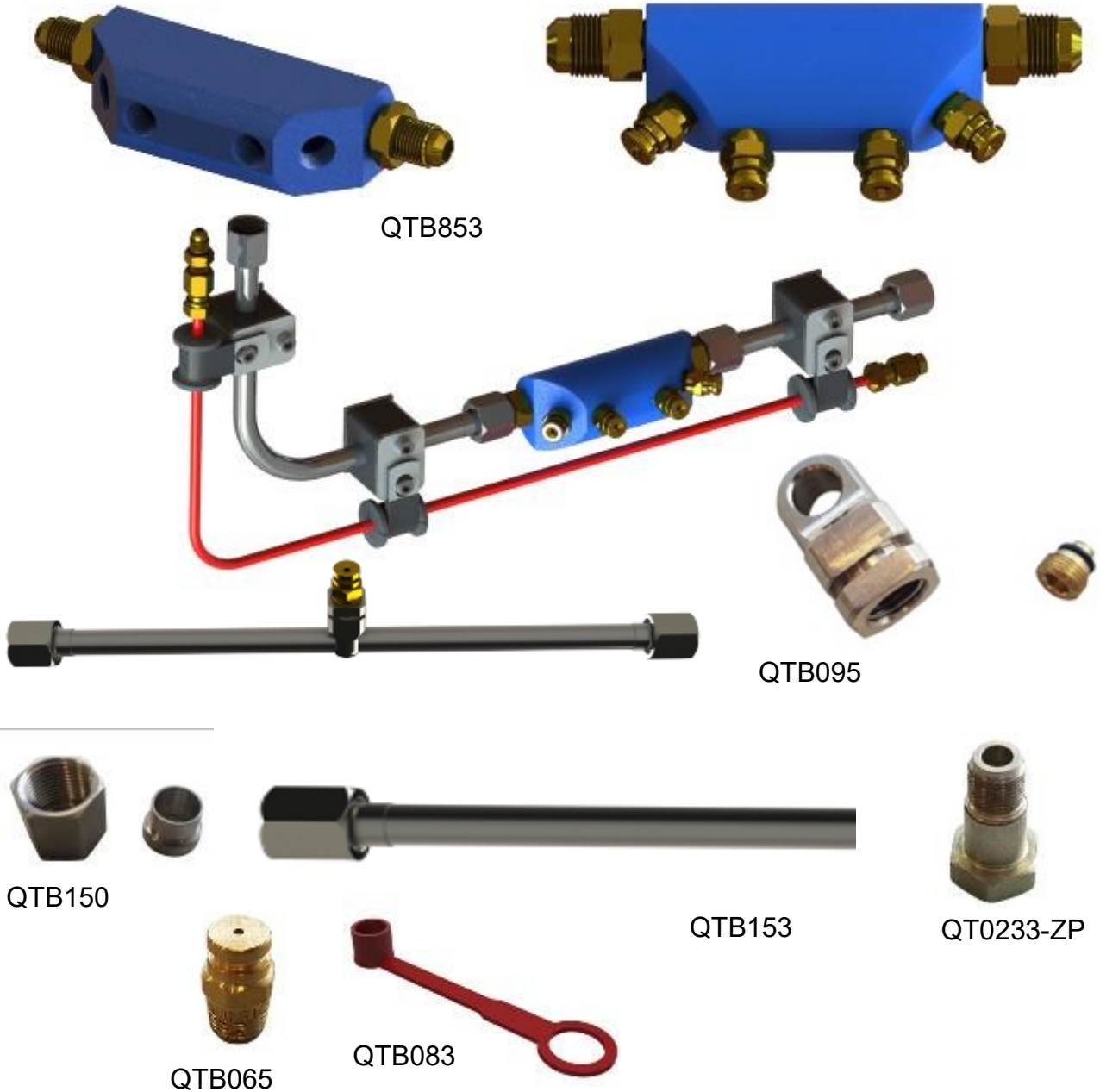
QTB284



QTB287

QTB904/A	1 Ltr LPRM Assy, c/w bracket
QT-Q01	1.1 Bare Ltr Cylinder
QTB281	LOP tube fitting kit x 5 mtrs
QTB281/A	LOP Tube per meter
QTB281/B	LOP fittings kit
QTB275	Pyro tube Rubber Grommet (also uses P-Clamp QTB022)
QTB 284	Detection Tube Tee
QTB 285	Detection Tube Joiner
QTB 286	LOP Tube Tee to Hose
QTB 287	Tee 1/4 Detection - 7/16 JICm

14 NOZZLE and DUST CAP



QTB853	Aluminium Multi Nozzle assy, For VDAS systems Nozzle tips sold separately
QTB095	3/8" Single Tube Nozzle Assy (No Tip or Dust Cap)
QTB150	3/8" Tube Nut/Sleeve
QTB153	3/8" Stainless Steel Tube x 2mtr lengths
QT0233-ZP	Tube Nozzle Drill Guide Plated
QTB065	4.8 Nozzle tips (Medium Flow) (Bim 8)
QTB083	Silicone Dust Cap

15 NOZZLE ASSEMBLIES



QTB040-C



QTB041-45-C



QTB053-C



QTB054-C



QTB057-C



QTB043/B-C



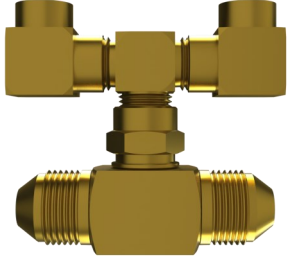



QTB095





QTB069/A

QTB040-C	Nozzle COMPACT Assy, single straight 3/8"
QTB041-45	Nozzle COMPACT Assy, Single angle 45 3/8"
QTB053-C	Nozzle COMPACT Assy, compact 90/90
QTB054-C	Nozzle COMPACT Assy, compact 90/45
QTB057-C	Nozzle COMPACT Assy, compact 45/45
QTB043/B-C	Nozzle COMPACT Single end
QTB095	Single Tube Nozzle Assy 3/8" (No Nozzle Tip or Dust Cap)
QTB069/A	COMPACT Nozzle Tee Assembly Complete

15.1 Compact Nozzle Breakdowns

QTB053-C	Item	Part Number	Description	Qty
		QTB040-C	Single Straight 3/8"	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB079	1/4" Female, Female 90 Elbow	2

QTB054-C	Item	Part Number	Description	Qty
		QTB040-C	Single Straight 3/8"	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB079	1/4" Female, Female 90 Elbow	1
		QTB080	1/4" Female, Female 45 Elbow	1

QTB040-C	Item	Part Number	Description	Qty
		QTB040-C	Nozzle COMPACT Assy, single straight 3/8"	1

15.2 Compact Nozzle Breakdowns

QTB057-C	Item	Part Number	Description	Qty
		QTB040-C	Single Straight 3/8"	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB080	1/4" Female, Female 45 Elbow	2
QTB041- 45-C	Item	Part Number	Description	Qty
		QTB040-C	Single Straight 3/8"	1
		QTB283	1/4" Male, Female 45 Elbow	1
QTB043/B-C	Item	Part Number	Description	Qty
		QTB043/B-C	Nozzle COMPACT Assy, single end 180	1
QTB 069/A	Item	Part Number	Description	Qty
		QTB040-C	Single Straight 3/8"	1
		QT 0069-ZP	Nozzle Bracket Small	1
		QT 0293	COMPACT Nozzle Washer	1
		QTB854	Adapter 1/4 M/F Brass	1

16 PUSH ON BRASS HOSE FITTINGS and 7/16 and 9/16 fittings



QT B155



QT B158



QT B759-B



QT B226
QT B240-B



QT B261-B
QT B243-B



QT B115



QT B262-BS



QT B289-BS



QT B257-BS
QT B300-B



QT B256-BS
QT B244-B

QT B155	9/16 JICf - 3/8 hose, Push on Hose Tail
QT B158	9/16 JICm - 3/8 hose, Push on Hose Tail
QT B759-B	Brass Nipple, 9/16 jic m/m
QT B226	Brass Bulkhead jic 7/16
QT B240-B	Brass Bulkhead jic 9/16
QT B261-B	Brass Tee run m/m/m 7/16 jic
QT B243-B	Brass Tee run m/m/m 9/16 jic
QT B115	Brass Re-use end fem 7/16 jic x 3/16
QT B262-BS	Brass Tee m/f/m jic 7/16 SS Nut
QT B289-BS	Brass Tee m/m/f jic 7/16 SS Nut
QT B257-BS	Brass Elbow m/f jic 7/16 45 SS Nut
QT B300-B	Brass Elbow m/f jic 9/16 45
QT B256-BS	Brass Elbow m/f 7/16 90 SS Nut
QT B244-B	Brass Elbow m/f 9/16 90

17 MOUNTS & P-CLAMPS



QTB038
QTB039



QTB021
QTB022
QTB028

QTB038	Stauff Clamps, Weld on 3/8" Tube
QTB039	Stauff Clamps, Weld on 18mm 3/8" Hose
QTB021	3/16" P-Clamp
QTB022	1/2" P-Clamp
QTB028	P-Clamp .62 Spiral Guard

17.1 BRACKETS, CLAMPS - GENERAL



QT0054 - ZP



QT0009/C - ZP



QT0069-ZP



QTB069/C



QTB754/C



QTB069/A



QT0193 - ZP



QT0192 - ZP



QTB408



QTB400

QT0054 - ZP	P - Clamp Assist L - Bracket Small 7mm
QT0009/C - ZP	LOP Blk Hd remote bracket LOP
QT 0069-ZP	Nozzle Bracket
QTB069/C	9/16 B/Head Nozzle Bracket
QTB069/A	COMPACT Nozzle Tee Assembly Complete
QTB754/C	9/16 JICM x 1/4 BSPF Blk Hd
QT0193 - ZP	P - Clamp Spacer - Small Zinc Plated
QT0192 - ZP	P- Clamp Spacer - Large, Zinc Plated
QTB408	Weld on Tapped Block M8
QTB400	Weld on Tapped Block M12 (60mm x 25mm)

18 FOAM, HOSE, & SPIRAL WRAP



S-FR-VDASF3-20



QTB154



QTB140



QTB134
QTB134-GB



QTB413



QTB410-12
QTB410-16
QTB410-20

S-FR-VDASF3-20	VDAS-F3 FOAM 20LTR Pail (Fluorine Free)
QTB154	Hose SAE Push on hose x 3/8 (Red or Black)
QTB140	Hose SAE 100R1T x 3/16 (Red) (134.11 Lm Roll)
QTB134	Hose LOP 3/16 (Qtec Specialty LOP hose) (304Lm Roll)
QTB134-GB	Hose LOP 3/16 (Wire Barricade)
QTB410-12	3/16" Red Spiral Guard
QTB410-16	3/16" – 1/4" Red Spiral Guard
QTB410-20	1/2" Red Spiral Guard
QTB413	Tamper Tie