



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



LOP & ROP SYSTEMS



Component Manual



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QTB963



GOLD MEMBER
Fire Protection Association Australia





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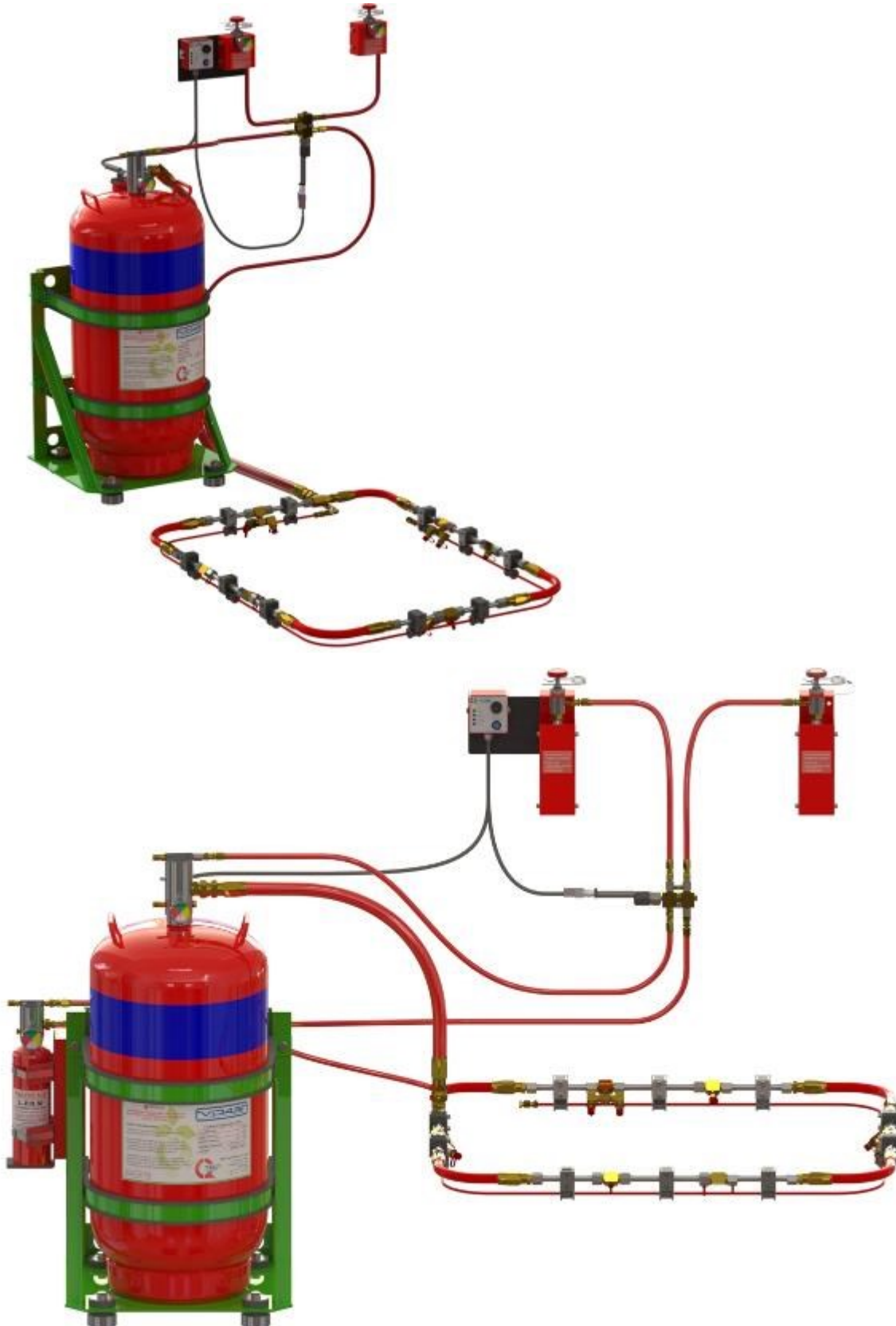


1 History—Manual QTB963

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—ECO Friendly components	03-09-19
H	Up date the headers and page 4 typical system design	29-01-21
I	Up Date Front Page, Page QTB 608 Remote, Page 15 Labels, Page 26 Nozzles assemblies.	11-06-21

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

2 Basic Designs — VDAS 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
QTB529-24V



QTB560



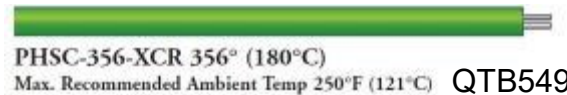
QTB605



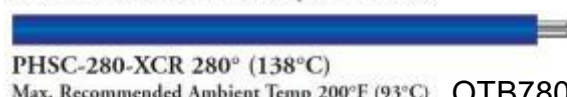
QTB606



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 (12 volt)
QTB529-24V	GEM-Solenoid (24 volt)
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



QQT602	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 LOP & ROP VALVES



QT B917



QT B2012



QT B950



LPRM

QT B917	LOP Valve
QT B2012	ROP Valve
QT B950	LPRM Valve

6.1 ELECTRONIC SOLENOID VALVE



QTB917-SB



QTB918-SB

QTB918-S Cap only



QTB469

QTB917-SB	LOP Valve Complete with 12V Solenoid & Stainless Steel Bracket
QTB918-SB	LOP Cap Complete with 12V Solenoid & Stainless Steel Bracket
QTB918-S	LOP Cap for Solenoid & Stainless Steel Bracket
QTB469	LOP Valve Solenoid Stainless Steel Bracket

7 VALVE & TANK — Accessories



QTB906	ROP Valve stem assembly
QTB913	ROP Valve Service Kit
QTB607	LOP valve Piston
QTB905	LPRM Valve Piston
QTB911	LPRM valve Service Kit
QTB912	LOP valve Service Kit
QT 216	Siphon Tube O-Ring
QTB301	Relief Valve
QTB303	Fill Plug

8 MANIFOLDS, SCHRADER VALVES, GAUGES, & CHECK VALVES



QT B251



QT B250



QT B263
QT B264



QT B253/B
QT B253P
QT B254/B
QT B254P
QT B280



QT B411
QT B411/B



QT B411-90



QT B412
QT B412LP



QT B252

QT B251	Manifold, Small 4 Port
QT B250	Manifold, Large 6 Port
QT B263	Plug 1/8 NPT
QT B264	Plug 1/4 NPT
QT B253/B	Brass Nipple 1/8 NPT x 7/16 JIC
QT B253P	Plated Nipple 1/8 NPT x 7/16 JIC
QT B254/B	Brass Nipple 1/4 NPT x 7/16 JIC
QT B254P	Plated Nipple 1/4 NPT x 7/16 JIC
QT B280	Nipple 1/8 NPT x 7/16 JIC
QT B411	Schrader Valve c/w Brass Cap (1/8NPTm-7/16 JICm)
QT B411/B	Schrader Valve c/w Brass Cap (1/4NPTm-7/16 JICm)
QT B411-90	Schrader Valve, 90° c/w Brass Cap (1/8NPTm-7/16 JICm)
QT B412	BOTTLE & ACTUATORS — Liquid Filled Gauge 900 — 1500 kPa
QT B412LP	LPRM — Liquid Filled Gauge 800 — 1200 kPa
QT B252	ROP Check Valve

9 SIPHON TUBES & LABELS



Old Style Siphon Tubes		New Style Siphon Tubes	
QTB460-35	35Lt Siphon Tube 5/8" Dia	QTB461-35	35Lt Siphon Tube 3/4" Dia
QTB460-45	45Lt Siphon Tube 5/8" Dia	QTB461-45	45Lt Siphon Tube 3/4" Dia
QTB460-65	65Lt Siphon Tube 5/8" Dia	QTB461-45/Long	45Lt Siphon Tube Long 3/4" Dia
QTB460-88	88Lt Siphon Tube 5/8" Dia	QTB461-65	65Lt Siphon Tube 3/4" Dia
QTB460-106	106Lt Siphon Tube 5/8" Dia	QTB461-88	88Lt Siphon Tube 3/4" Dia
		QTB461-106	106Lt Siphon Tube 3/4" Dia



CAUTION

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



SERVICE AND MAINTENANCE

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: QTB705/F3

STORED PRESSURE TYPE

CYLINDER SIZE	106 Litres
FOAM CAPACITY	2.5 Litres
WATER CAPACITY	77.5 Litres
WORKING PRESSURE	1,350 kPa @ 20' +/- 2°C
CONTENT	VDASF3 Foam



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AUSTRALIA
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QTB705/F3	VDAS - Cylinder Label 106Lt
QTB706/F3	VDAS - Cylinder Label 88Lt
QTB707/F3	VDAS - Cylinder Label 65Lt
QTB708/F3	VDAS - Cylinder Label 45Lt
QTB709/F3	VDAS - Cylinder Label 35Lt

10 LABELS



QTB 414



QTB 712



QTB 720



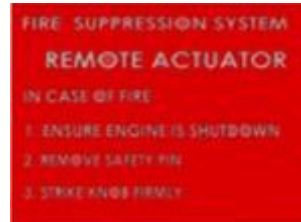
QTB 720-S



QTB 721



QT 0038-A



QT 0090/1



QTB 772

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 — 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)
QTC0325	25	V1061-84	4	6	768	904	216
QTC0235	35	V881-82	2.2	3.3	543	679	318
QTC0245	45	V881-82	2.2	3.3	685	821	318
QTC0145	45	V376-84	2.2	3.6	566	734	360
QTC0165	65	V376-84	2.2	3.6	766	913	360
QTC0188	88	V376-84	2.2	3.6	1021	1172	360
QTC01106	106	V376-84	2.2	3.6	1181	1361	360

11.1 VDAS — CYLINDER ASSEMBLIES



LOP	
QTA19/25-L	25 ltr Cylinder assembly complete-LOP
QTA26/35-L	35 ltr Cylinder assembly complete-LOP
QTA34/45NT-L	45 ltr Slim Tall Cylinder assembly complete-LOP
QTA34/45-L	45 ltr Cylinder assembly complete-LOP
QTA50/65-L	65 ltr Cylinder assembly complete-LOP
QTA66/88-L	88 ltr Cylinder assembly complete-LOP
QTA80/106-L	106 ltr Cylinder assembly complete-LOP

ROP	
QTA19/25-R	25 ltr Cylinder assembly complete-ROP
QTA26/35-R	35 ltr Cylinder assembly complete-ROP
QTA34/45-R	45 ltr Cylinder assembly complete-ROP
QTA34/45NT-R	45 ltr Slim Tall Cylinder assembly complete-ROP
QTA50/65-R	65 ltr Cylinder assembly complete-ROP
QTA66/88-R	88 ltr Cylinder assembly complete-ROP
QTA80/106-R	106 ltr Cylinder assembly complete-ROP

12 BRACKETS & MOUNTS



QTB453-PC



QTB452-PC



QTB456-PC



QTB450-PC



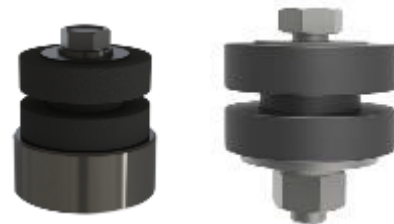
QTB448
QTB449



S-EXB-FLS-WVBPC9



QTB400



QTB401 - WL QTB401

QTB453-PC	66/88-80/106 litre
QTB452-PC	34/45-50/65 litre
QTB456-PC	35 litre and 45 Tall
QTB450-PC	19/25 litre
QTB 448	2Ltr LPRM Cylinder Bracket
QTB 449	1Ltr LPRM Cylinder Bracket
S-EXB-FLS-WVBPC9	12 litre Cylinder Bracket
QTB400	Weld Lug bracket lug 60mm x 12 mm
QTB401 - WL	Vibration bottle mount assembly (with short bolt for weld lug, weld lug not included)
QTB401	Vibration bottle mount assembly (with long bolt)

12 BRACKETS & MOUNTS



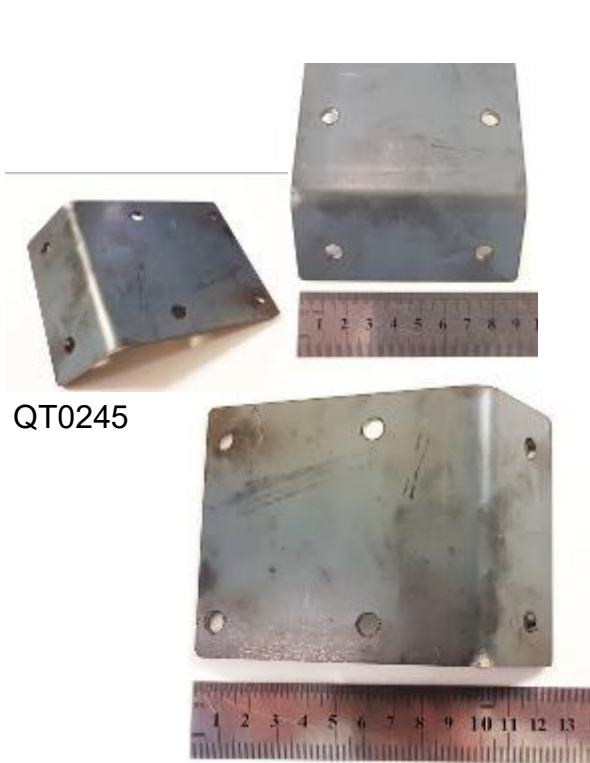
QTB0177-PC



QTB462



QTB463



QT0245



QT0244

QTB0177-PC	LPRM 90o Support Bracket
QTB462	Bracket for ANSUL Cylinder LT-101-30-R
QTB463	Bracket for ANSUL Cylinder LT-30-R
QT0245	Cab Plate Small Alarm Panel (BLACK)
QT0244	Cab Plate LOP Remote (BLACK)

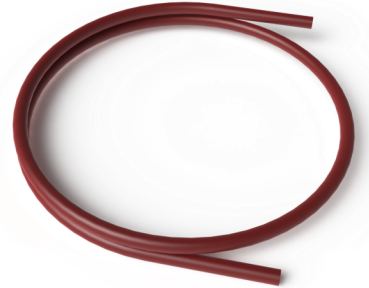
13 LPRM & LOP DETECTION KITS



QTB904/A
QTB904/B



QTB281



QTB281/A



QTB281/B



QTB275



QTB284



QTB287

QTB904/A	1 Ltr LPRM Assy, c/w bracket
QTB904/B	2 Lt LPRM Assy, c/w bracket
QT-Q01	1.1 Ltr Cylinder
QT-Q02	2 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 NOZZLES & DUST CAPS



QT B066



QT B061



QT B065



QT B062



QT B083



QT B211/SS



QT B141



QT 0233-ZP

QT B065	Bim 8 Nozzle tips (Medium Flow 4.8)
QT B066	Bim 16W Nozzle tips (Wide Angle 9W)
QT B061	Bim 17 Nozzle tips (Hi Flow 9.5)
QT B062	Brass Dust caps c/w wire retainer*
QT B063	Dust Cap - Plastic
QT B083	Dust Cap - Hi Temp Silicon
QT B141	1/2" Stainless Steel Tube x 2mtr lengths
QT B211/SS	1/2" Stainless Steel Tube Nut/Sleeve
QT 0233-ZP	Tube Nozzle Drill Guide Plated

15 NOZZLE ASSEMBLIES



QTB040



QTB041



QTB041-45



QTB053



QTB054



QTB057



QTB055



QTB056



QTB058



QTB042



QTB043/B



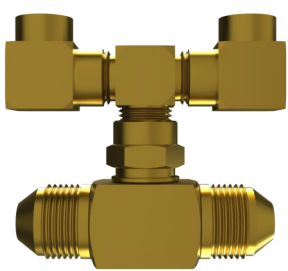
QTB044

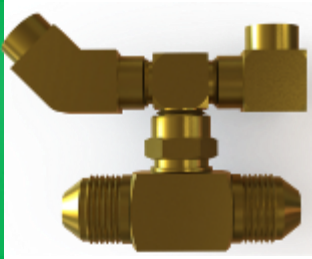


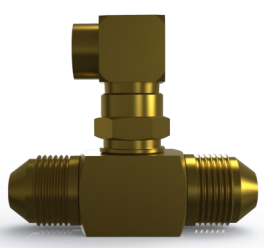
QTB091

QTB040	Brass Nozzle assy, single straight
QTB041	Nozzle assy, single angled 90
QTB041-45	Nozzle assy, single angled 45
QTB053	Nozzle assy, compact 90/90
QTB054	Nozzle assy, compact 90/45
QTB057	Nozzle assy, compact 45/45
QTB055	Nozzle assy, compact end 90/90
QTB056	Nozzle assy, compact end 90/45
QTB058	Nozzle assy, compact end 45/45
QTB042	Brass Nozzle assy, single end 90
QTB043/B	Single End 180° Brass
QTB044	Single End 45°
QTB091	Single Tube Nozzle Assy 1/2" (No Nozzle Tip or Dust Cap)

15.1 Nozzle Assembly Breakdowns

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

QTB054	Item	Part Number	Description	Qty
		QTB040	Single Straight	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

QTB041	Item	Part Number	Description	Qty
		QTB040	Single Straight	1
		QTB282	1/4" Male, Female 90 Elbow	1

15.2 Nozzle Assembly Breakdowns

QTB057	Item	Part Number	Description	Qty
		QTB040	Single Straight	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB080	1/4" Female, Female 45 Elbow	2

QTB040	Item	Part Number	Description	Qty
		QTB040	Single Straight	1

QTB041- 45	Item	Part Number	Description	Qty
		QTB040	Single Straight	1
		QTB283	1/4" Male, Female 45 Elbow	1

QTB055	Item	Part Number	Description	Qty
		QTB042	Single End 90°	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB079	1/4" Female, Female 90 Elbow	2

15.3 Nozzle Assembly Breakdowns

QTB056	Item	Part Number	Description	Qty
		QTB042	Single End 90°	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

QTB042	Item	Part Number	Description	Qty
		QTB042	Single End 90°	1

QTB044	Item	Part Number	Description	Qty
		QTB084	Elbow, 3/4JICM x 3/4BSPM, 45	1
		QTB077	Reducing Socket, 3/8BSPF x 1/4BSPF	1

QTB043/B	Item	Part Number	Description	Qty
		QTB043/B	Single End 180° Brass Nozzle Assembly 1/4BSPM x 3/4JICM	1

15.4 Nozzle Assembly Breakdowns

QTB058	Item	Part Number	Description	Qty
		QTB042	Single End 90°	1
		QTB078	1/4" Male, Male, Male Tee	1
		QTB080	1/4" Female, Female 45 Elbow	2

QTB 059/A	Item	Part Number	Description	Qty
		QTB059	Tee 3/4 JICm x 1/2BSPf	1
		QT 0009/C-ZP	Nozzle Bracket Large	1
		QT 0189	1/2" - 1/4" Reducing Bush	1

QTB 059/D	Item	Part Number	Description	Qty
		QTB040	Single Straight	1
		QT 0069-ZP	Nozzle Bracket Small	1
		QT 0293	COMPACT Nozzle Washer	1
		QTB854	Adapter 1/4 M/F Brass	1

16 FITTINGS - Brass, 1 1/16 fittings, 3/4 fittings



QTB234



QTB224



QTB214/B



QTB228



QTB231



QTB209



QTB236



QTB235



QTB225



QTB202B



QTB206B



QTB229



QTB232



QTB207B



QTB219B

QTB234	Brass Nipple, 3/4 bsp x 1.1/16 jic
QTB224	Brass Bulkhead, 1.1/16 jic
QTB214/B	Brass Tee In Tee, 1/1/16 jicm x 3/4 jicm x 3/4jicm*
QTB228	Brass Elbow, 1.1/16 jic m/f 90
QTB231	Brass Elbow, 1.1/16 jic m/f 45
QTB209	Brass Adaptor 1.1/16f x 3/4 jicm reducer
QTB236	Brass Tee In Tee, 3/4jicf/3/4jicm/1 1/16jicm
QTB235	Brass Nipple, 3/4 bsp x 3/4 jic
QTB225	Brass Bulkhead, jic 3/4
QTB202B	Brass Nipple, 3/4 jic
QTB206B	Brass Elbow, 3/4 jic m/m 90
QTB229	Brass Elbow, 3/4 jic m/f 90
QTB232	Brass Elbow, 3/4 jic m/f 45
QTB207B	Brass Tee, 3/4 jic mfm
QTB219B	Brass Tee, 3/4 jic mmf

16.1 BRASS HOSE FITTINGS and 7/16 fittings



QTB109



QTB103



QTB107B



QTB115



QTB124/B
QTB127/B



QTB226



QTB261-B



QTB128/B



QTB262-BS



QTB289-BS



QTB257-BS



QTB256-BS

QTB109	Re-use end fem jic 1.1/16
QTB103	Re-use end fem jic 3/4 x 1/2
QTB107B	Re-use end male 3/4 jic x 1/2
QTB115	Re-use end fem 7/16 jic x 3/16
QTB124/B	Brass Crimp end fem jic 3/4
QTB127/B	Brass Crimp end male jic 3/4
QTB128/B	Brass Crimp end fem jic 1.1/16
QTB226	Brass Bulkhead jic 7/16
QTB261-B	Brass Tee run m/m/m 7/16 jic
QTB262-BS	Brass Tee m/f/m jic 7/16 SS Nut
QTB289-BS	Brass Tee m/m/f jic 7/16 SS Nut
QTB257-BS	Brass & Stainless Elbow m/f jic 7/16 45
QTB256-BS	Brass & Stainless Elbow m/f 7/16 90

17 MOUNTS & P-CLAMPS



QTB001
QTB002
QTB003
QTB004
QTB005



QTB006
QTB007
QTB008
QTB009
QTB010



QTB021
QTB029
QTB022
QTB023
QTB028

QTB001	Stauff Clamps, Weld on 1/4"Tube
QTB002	Stauff Clamps, Weld on 1/4"Hose
QTB003	Stauff Clamps, Weld on 1/2"Tube
QTB004	Stauff Clamps, Weld on 1/2"Hose
QTB005	Stauff Clamps, Weld on 3/4"Hose
QTB006	Stauff Clamps, Bolt on 1/4"Tube
QTB007	Stauff Clamps, Bolt on 1/4"Hose
QTB008	Stauff Clamps, Bolt on 1/2"Tube
QTB009	Stauff Clamps, Bolt on 1/2"Hose
QTB010	Stauff Clamps, Bolt on 3/4' Hose
QTB021	3/16" P-Clamp
QTB029	1/4" P-Clamp
QTB022	1/2" P-Clamp
QTB023	3/4" P-Clamp
QTB028	P-Clamp .62 Spiral Guard

17.1 BRACKETS, CLAMPS - GENERAL



QT0054 - ZP
QT0054/A - ZP



QT0192 - ZP



QT0193 - ZP



QTB408



QTB400



QTB059/A



QTB059/D

QT0054 - ZP	P - Clamp Assist L - Bracket Small 7.5mm
QT00054/A - ZP	P - Clamp Assist L - Bracket Large 10.5mm
QT0192 - ZP	P - Clamp Spacer - Large Zinc Plated
QT0193 - ZP	P - Clamp Spacer - Small Zinc Plated
QTB408	Weld on Tapped Block M8
QTB400	Weld on Tapped Block M12 (60mm x 25mm)
QTB059/A	Nozzle / Bracket Tee Assembly Complete LARGE
QTB059/D	Nozzle / Bracket Assembly Complete SMALL

18 FOAM, HOSE, & SPIRAL WRAP



S-FR-VDASF3-20



QTB132
QTB138
QTB139
QTB140



QTB134
QTB134-GB



QTB413



QTB410-12
QTB410-16
QTB410-20
QTB410-25

S-FR-VDASF3-20	VDAS-F3 FOAM 20LTR Pail (Fluorine Free)
QTB132	Hose SAE 100R1T x 1/2 (red) (100 Lm Roll)
QTB138	Hose SAE 100R1T x 1/4 (Red) (134.11 Lm Roll)
QTB139	Hose SAE 100R1T x 3/4 (Red) (91.44 Lm Roll)
QTB140	Hose SAE 100R1T x 3/16 (Red) (134.11 Lm Roll)
QTB134	Hose LOP 3/16 (Qttec 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
QTB410-25	3/4" Red Spiral Guard
QTB413	Tamper Tie