

26/04/2024



Qttec Fire Services

VDAS STANDARD LOP & ROP COMPONENT MANUAL





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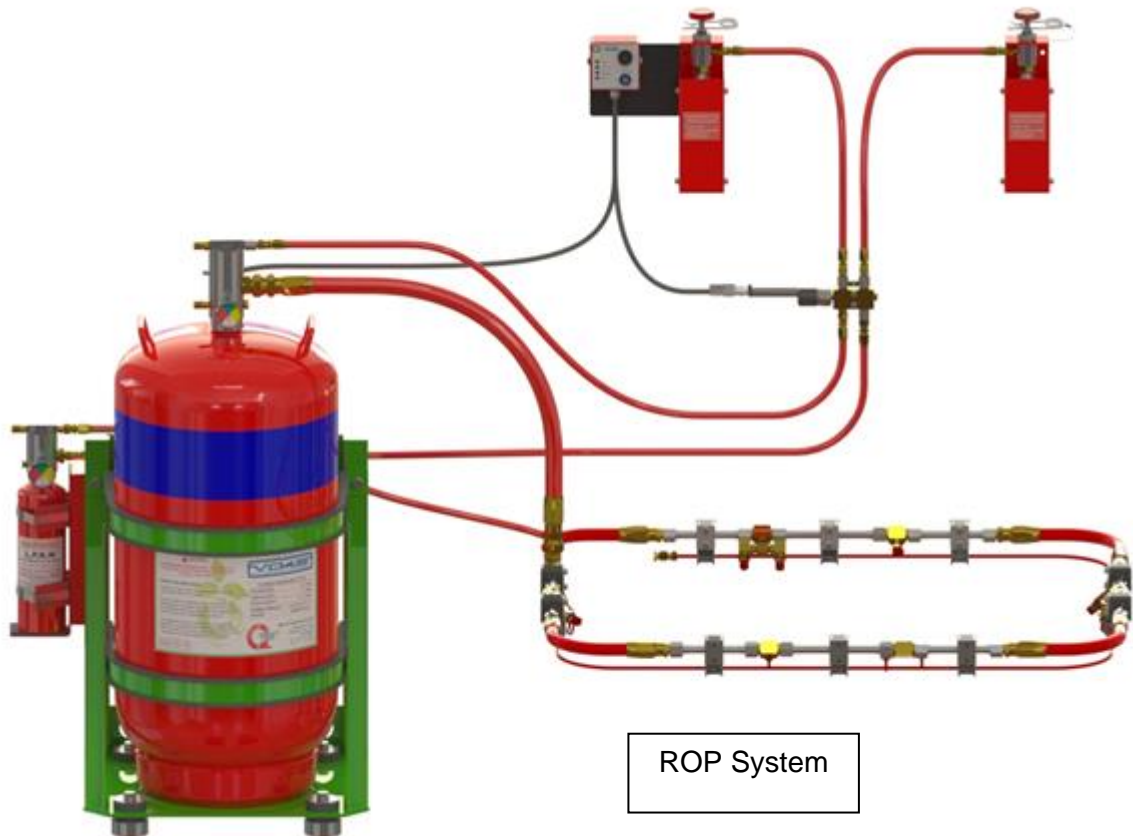
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Section 1: History


Revision 1	Original document	23-08-2012
Revision 2	Second release all pages updated	02-12-2015
Revision 3	Third release all parts updated	23-06-2016
Revision 4	Fourth release last page removed; page 8 modified	17-07-2017
Revision 5	Fifth release VDASF3 Foam, VDASF3 labels, new look LOP valve, Brass fittings.	16-03-2018
Revision 6	Sixth release New ROP-M Valve update some part numbers & pictures	10-01-2019
Revision 7	Update whole Manual—ECO Friendly components	03-09-2019
Revision 8	Update the headers and page 4 typical system design	29-01-2021
Revision 9	Update Front Page, Page QTB 608 Remote, Page 15 Labels, Page 26 Nozzles assemblies.	11-06-2021
Revision 10	Change document to word doc format and add push on hose and fittings, add some brackets.	26-04-2024


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Basic Designs — VDAS LOP & ROP




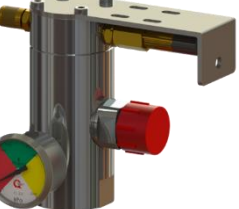



Section 2: Cylinder Assemblies

Picture	Part #	Description – LOP Assemblies
	QTA 19/25-L	19L Cylinder Assy Complete-LOP
	QTA 26/35-L	26L Cylinder Assy Complete-LOP
	QTA 34/45-L	34L Cylinder Assy Complete-LOP
	QTA 34/45NT-L	34L New Tall Cylinder Assy Complete-LOP
	QTA 50/65-L	50L Cylinder Assy Complete-LOP
	QTA 66/88-L	66 Lt Cylinder Assembly-LOP
	QTA 80/106-L	80L Cylinder Assy Complete-LOP

Picture	Part #	Description – ROP Assemblies
	QTA 19/25-R	19L Cylinder Assy Complete-LOP
	QTA 26/35-R	26L Cylinder Assy Complete-ROP
	QTA 34/45NT-R	34L New Tall Cylinder Assy Complete-ROP
	QTA 34/45-R	34L Cylinder Assy Complete-ROP
	QTA 50/65-R	50L Cylinder Assy Complete-ROP
	QTA 66/88-R	66L Cylinder Assy Complete-ROP
	QTA 80/106-R	80L Cylinder Assy Complete-ROP

Picture	Part #	Description – LPRM
	QTB 904/A	1lt LPRM C/W Bracket
	QTB 904/B	2lt LPRM C/W Bracket




Section 3: Cylinder Valves


Picture	Part #	Description - Valves
	QTB 917	LOP Valve
	QTB 917-M	LOP Valve Complete with C3 / METRON
	QTB 917-SB	LOP Valve Complete with 12V Solenoid & SS Bracket
	QTB 950	LPRM Valve
	QTB 2012	ROP Valve

Section 4: Brackets & Mounts

Picture	Part #	Description - Brackets
	QTB 448	2lt LPRM Bracket
	QTB 449	1lt LPRM Bracket
	QTB 450-PC	19 / 25 Lt Bracket Powder Coated Green
	QTB 456-PC	26/35Lt Bracket NRPC Powder Coated
	QTB 452-PC	34/45 - 50/65 Lt Bracket
	QTB 453-PC	66/88 - 80/106Lt Heavy Duty Powder Coated
	QTB 400	Weld on Bracket Lug 60mm X 12mm
	QTB 401	Vibration Bottle Mount Assembly
	QTB 401-WL	Vibration Isolator for Weld Lug
	QTB 0177-PC	LPRM 90° Support Bracket
	QT 0244	Cab Plate LOP Remote
	QT 0245	Cab Plate Small Alarm Panel

Section 5: Remote Actuators


Picture	Part #	Description – LOP Remotes
	QTB 611	LOP Remote External Bulkhead
	QTB 613	LOP Remote complete with Cover
	QTB 608	LOP Remote Twist Handle type

Picture	Part #	Description – ROP Remotes
	QTB 602	STD ROP Remote Actuator
	QTB 602/NC	ROP Actuator - No Cartridge
	QTB 603	ROP Bulkhead Complete with Cartridge
	QTB 603/NC	ROP Bulkhead Complete N/C

Section 6: Nozzle Assemblies

Picture	Part #	Description – Nozzle Assemblies
	QTB 040	Nozzle Assembly Single Straight
	QTB 041	Nozzle Assy - Single Angled 90
	QTB 041-45	Nozzle Assy - Single Angle 45
	QTB 042	Nozzle Assy - Single End 90
	QTB 043	Nozzle Assy - Single End 180
	QTB 053	Nozzle Assy - Compact 90/90
	QTB 054	Nozzle Assy - Compact 90/45
	QTB 055	Nozzle Assy - Compact End 90/90
	QTB 056	Nozzle Assy - Compact End 90/45
	QTB 057	Nozzle Assy - Compact 45/45
	QTB 058	Nozzle Assy - Compact End 45/45
	QTB 059	Tee, 3/4 JIC m x 1/2 BSP f
	QTB 059/A	Nozzle Tee Assembly & Bracket Complete
	QTB 233-ZP	Tube Nozzle Drill Guide - Plated
	QTB 091	Single Tube Nozzle Assy Suit 1/2" Tube (No Tip or Dust Cap)
QTB 855	Aluminium Multi Nozzle Assy, For VDAS Standard systems complete with 3/4" JICM nipples. (Nozzle tips sold separately)	

Nozzles

Picture	Part #	Description – Nozzles
	QTB 065	Nozzle Tips (4.8 Nozzle) (BIM 8)
	QTB 066	Nozzle Tips (9W Nozzles) (BIM 16W)
	QTB 061	Nozzle Tips (9.5 Nozzle) (BIM 17)
	QTB 062	Dust Cap Brass with wire retainer
	QTB 083	Silicone Dust Cap







Section 7: Manifolds

Picture	Part #	Description – Manifolds
	QTB 250	Manifold, Large 6 Port
	QTB 251	Manifold, Small 4 Port
	QTB 263	BRASS Plug 1/8 NPT
	QTB 264	BRASS Plug 1/4 NPT
	QTB 253/B	BRASS 1/8NPT x 7/16 JIC Nipple
	QTB 254/B	BRASS Nipple 1/4 NPT x 7/16 JIC
	QTB 280	BRASS Nipple 1/8 NPT
	QTB 290/B	BRASS Elbow 1/8 NPT x 7/16 JIC M/M 90 Degree
	QTB 252	Check Valve


Section 8: LOP Detection

Picture	Part #	Description – Detection
	QTB 281	LOP Tube Fitting Kit x 5 Metre
	QTB 281/A	LOP Tube / M
	QTB 281/B	LOP Fittings Kit
	QTB 275	Pyro-tube Rubber Grommet
	QTB 284	Detection Tube Tee
	QTB 285	Detection Tube Joiner
	QTB287	Tee 1/4 Detection - 7/16 JIC m







Section 9: Head to Ring Main

Picture	Part #	Description – 3/4" Supply
	QTB 234	BRASS Nipple 1 1/6" JIC x 3/4" BSP
	QTB 224	BRASS Blk Hd 1 1/6" JIC
	QTB 214/B	BRASS Tee 1 1/16" JICM x 3/4" JICM x 3/4" JICM
	QTB 228	BRASS Elbow 1 1/6" JIC MF 90
	QTB 231	BRASS Elbow 1 1/16" JIC MF 45
	QTB 236	BRASS Tee 3/4" JICM x 3/4" JICF x 1 1/6" JICM


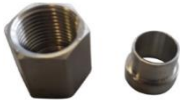
Head to Ring Main

Picture	Part #	Description – ½” Supply
	QTB 235	BRASS Nipple 3/4" JIC x 3/4" BSP
	QTB 225	BRASS Blk Hd 3/4" JIC
	QTB 202/B	BRASS Nipple 3/4 JIC
	QTB 203/B	BRASS Tee JIC - 3/4 M/M/M
	QTB 229	BRASS Elbow 3/4" JIC MF 90
	QTB 232	BRASS Elbow 3/4" JIC MF 45
	QTB 206/B	Elbow 3/4 - JIC M/M 90
	QTB 207/B	BRASS Tee 3/4 JIC M/M/F
	QTB 209/B	BRASS Adaptor 11/16 5F x 3/4 JICM Reducer
	QTB 219/B	BRASS 3/4 JIC Tee, M/F/M
	QTB 220	3/4 JIC Cap Nut








Activation Circuit Fittings

Picture	Part #	Description – 7/16" Activation Circuits
	QTB 256/BS	Elbow M / F JIC 7/16 90 Brass & Stainless Steel
	QTB 257/BS	Elbow M / F JIC 7/16 45 Brass & Stainless Steel
	QTB 226	BRASS Blk Hd 7/16" JIC
	QTB 261/B	BRASS Tee run M/M/M 7/16 JIC
	QTB 289/BS	Tee run M / M/ F 7/16 JIC Brass & Stainless Steel
	QTB 262/BS	Tee - M / F / M 7/16 JIC Brass & Stainless Steel
	QTB 290/B	BRASS Elbow 1/8 NPT x 7/16 JIC M/M 9






Section 10: Stainless Steel Tube

Picture	Part #	Description – Tube
	QTB 141	1/2 S/Steel Tube in 2M Lengths
	QTB 211/SS	1/2 Tube Nut & Sleeve, SS

Section 11: Hose

Picture	Part #	Description – Hoses
	QTB 139	Hose SAE 100RIT x 3/4 (RED) (91.44m Roll)
	QTB 132	Hose SAE 100RIT x 1/2 (RED) (100m Roll)
	QTB 163	3/4 Hose, Push on, RED MSHA2G
	QTB 162	1/2 Hose, Push on, RED MSHA2G
	QTB 134	LOP Hose 3/16 (RED) (304m Roll)
	QTB 134-GB	LOP Barricade Hose 3/16 (RED) (304m Roll)
	QTB 140	Hose SAE 1000RIT 3/16 (RED) (134.11m Roll)

Hose Fittings

Picture	Part #	Description – Hose Fittings
	QTB 109	BRASS Reuse End Female JIC 1 1/16"
	QTB 128/B	BRASS Crimp End Female JIC 1 1/6
	QTB 103	BRASS Reuse End Female 3/4" JIC x 1/2" Hose Fitting
	QTB 107/B	BRASS Reuse End Male JIC 3/4
	QTB 124/B	BRASS Crimp End Female JIC 3/4
	QTB 127/B	BRASS Crimp End Male JIC 3/4
	QTB 115	Reuse End Fem 7/16 JIC x 3/16
	QTB 161	Push-on Fem 1 1/16 x 3/4 JIC
	QTB 159	Push-on Fem 3/4 x 1/2 JIC
	QTB 160	Push-on Male 3/4 x 1/2 JIC

Section 12: Clamps

Picture	Part #	Description – Stauff Clamps
	QTB 001	Clamp Weld On 1/4 Tube Black
	QTB 002	Clamp Weld On 1/4 Hose Black
	QTB 003	Clamp Weld On 1/2 Tube Black
	QTB 004	Clamp Weld On 1/2 Hose Black
	QTB 005	Clamp Weld On 3/4 Hose Black
	QTB 006	Clamp Bolt On 1/4 Tube Blk Hi
	QTB 007	Clamp Bolt On 1/4 Hose Blk Hi
	QTB 008	Clamp Bolt On 1/2 Tube Blk Hi
	QTB 009	Clamp Bolt On 1/2 Hose Blk Hi
	QTB 010	Clamp Bolt On 3/4 Hose Blk Hi

Clamps

Picture	Part #	Description – P Clamps
	QTB 021	P Clamp 3/16 to 1/4 Hose
	QTB 028	P Clamp 3/16 LOP Hose Spiral guard
	QTB 029	P Clamp 1/4 Hose
	QTB 022	P Clamp 1/2 Hose & Rubber Gromets
	QTB 023	P Clamp 3/4 Hose
	QTB 023-PL	P Clamp 3/4 Push Lock Hose
	QTB 031	P-Clamp 0.38 suit cable
	QT 0054/A - ZP	P-Clamp Bracket 10.5mm x 10.5mm elongation
	QT 0054-ZP	P-Clamp Bracket 10.5mm x 7mm elongation
	QT 0192-ZP	P-Clamp Spacer - Large, Zinc Plated
	QT 0193-ZP	P-Clamp Spacer - Small
	QTB 534	DT Clip Stainless Steel

Section 13: Electrical

Picture	Part #	Description – Electrical Components
	QTB 500/16	16mm Cable Gland
	QTB 500/20	20mm Cable Gland
	QTB 500/25	25mm Cable Gland
	QTB 505	Power / Fuse Lead x 5 Metres
	QTB 511/2	Cable / M 2 Core
	QTB 536	4 Core Hi Temp Silicon Cable
	QTB512/12	12 Pin Connector Kit
	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

Electrical

Picture	Part #	Description – Electrical Components
	QTB 550	Alarm Panel Electronic AS5062
	QTB 583	Small Alarm Panel Digital Display
	QTB 554	Small Alarm Panel AS5062
	QTB 517-SS	Pressure Switch N/O-N/C 1100kPa Stainless Steel
	QTB 518-SS	Pressure Switch N/O-N/C 200kPa Stainless Steel
	QTB 520-SS	Pressure Switch N/O-N/C 800 kPa Stainless Steel
	QTB 558-SS	Pressure Switch N/O-N/C 100kPa C/W 4.7ohm Resistor Stainless Steel
	QTB 605	Electrical Remote Complete Bulkhead
	QTB 606	Electrical Remote Complete with Cover

Electrical

Picture	Part #	Description – Electrical Components
	QTB 529	GEM-Solenoid – 12 Volt
	QTB 529-24V	GEM-Solenoid complete - 24 Volt
	QTB 584	C3 Electric Actuator - Metron (includes Metron, Schrader valve, & Adaptor)
	QTB 560	End of Line Resistor (4.7kohm)
	QTB 586	End of Line Resistor (9.1kohm)
	QTB 581	Linear Wire Splicing Kit
	QTB 549	Linear Wire 356F/180OC (green) / metre

Section 14: Labels

Picture	Part #	Description – Labels
	QTB 414	AS5062 Maintenance Record Tag
	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 712	LABEL - Actuator Arrow Label
	QTB705/F3 QTB706/F3 QTB707/F3 QTB708/F3 QTB709/F3 QTB710/F3	VDASF3 Label Cyl. 106Lt VDASF3 Label Cyl. 88Lt VDASF3 Label Cyl. 65Lt VDASF3 Label Cyl. 45Lt VDASF3 Label Cyl. 35Lt VDASF3 Label Cyl. 25Lt
	QTB 772	LABEL — Remote Actuator Rotating Handle
	QT 0038-A	LABEL — Palm Button Label
	QT 0090/1	LABEL — Remote Actuator Push Label

Section 15: Service Parts

Picture	Part #	Description – Service Parts
	QTB412	Liquid Filled Gauge 900-1600 kPa
	QTB412/LP	Liquid Filled Gauge 800-1200KP
	QTB412/BE	Liquid Filled Gauge 900-1600KP - Bottom Entry
	S-FR-VDASF3-20	VDAS-F3 Foam 20Ltr (Fluorine Free)
	S-FR-VDASF3-5	VDAS-F3 Foam 5Ltr (Fluorine Free) With Container
	QTB911	LPRM Service Kit
	QTB912	LOP Valve Service Kit
	QTB905	LPRM Piston Assembly
	QTB607	LOP Piston Complete MK3




Service Parts

Picture	Part #	Description – Service Parts
	QTB913	ROP Valve Service Kit
	QTB906	ROP Valve Stem Assembly
	QT 0214	Palm Button, Red Anodized
	QT 0038-PC	Palm Button Powder Coated
	QT 0038-A	Palm Button Label
	QT 0046-OR	LOP Remote Spindles c/w O-Rings
	QTB909	LOP Remote Service Kit
	QT 0134-OR	ROP Remote Spindles c/w O-Rings
	QTB908	ROP Remote Service Kit

Section 16: Miscellaneous

Picture	Part #	Description – Miscellaneous
	QTB410-12	Spiral Guard 12mm (3/16&1/4) (50Lm roll)
	QTB410-16	Spiral Guard 12mm (3/16&1/4) (20Lm roll)
	QTB410-20	Spiral Guard 20mm (1/2) (20Lm roll)
	QTB410-25	Spiral Guard 25mm (3/4) (20Lm roll)
	QTB 411	Schrader Valve c/w Brass Cap
	QTB 411-90	Schrader Valve 90 Deg c/w Cap
	QTB 411-B	Schrader Valve 1/4 C/W Br Cap
	QTB 461-25	25lt Siphon Tube 3/4
	QTB 461-35	35Lt Siphon Tube 3/4
	QTB 461-45	45lt Siphon Tube 3/4
	QTB 461-45/Long	45lt Siphon Tube 3/4 New Long Cylinder
	QTB 461-65	65lt Siphon Tube 3/4
	QTB 461-88	88lt Siphon Tube 3/4
	QTB 461-106	106lt Siphon Tube 3/4

Miscellaneous

Picture	Part #	Description – Miscellaneous
	QTB 303	Fill Plug
	QTB 914	Service Kit Fill Plug
	QTB 301	Pressure Relief Valve
	QTB 413	Anti-Tamper Tie
	QTB 614	LOP Remote Bung and Cap
	QTB 277-OR	ROP Co2 Cartridge with O-Ring
	QTC0325	25Lt RED Cylinder
	QTC0235	35Lt RED Cylinder
	QTC0145	45Lt RED Cylinder
	QTC0245	45Lt RED Cylinder 318 Dia.
	QTC0165	65Lt RED Cylinder
	QTC0188	88Lt RED Cylinder
	QTC01106	106Lt RED Cylinder

