

26/04/2024



Qttec Fire Services

VDAS COMPACT LOP & ROP COMPONENT MANUAL





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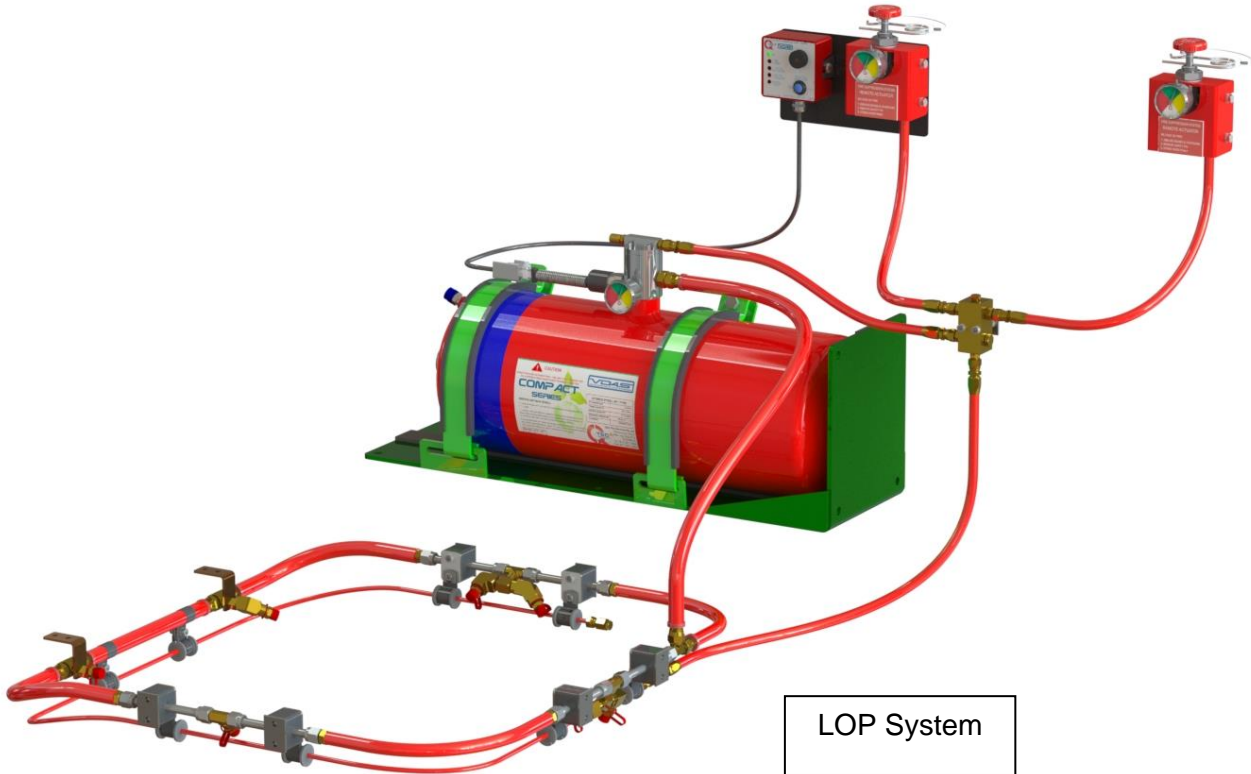
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Section1: History

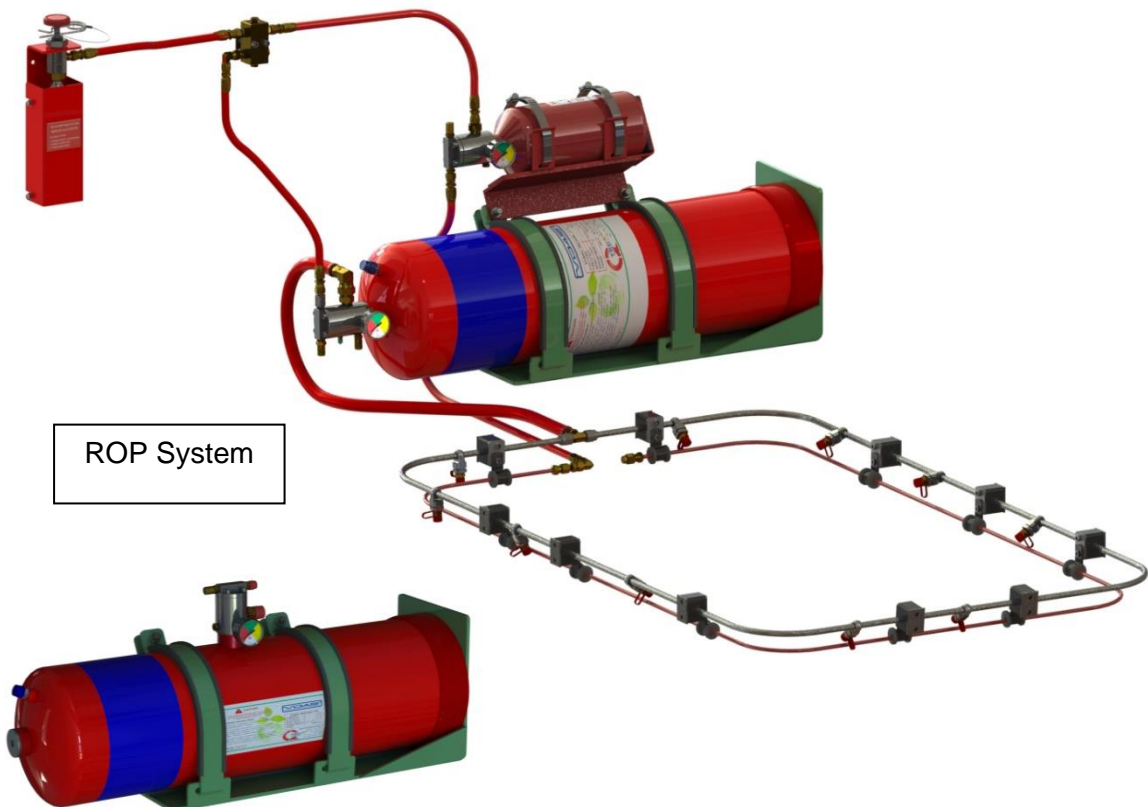
Revision 1	Original document	28-08-2012
Revision 2	Second release all pages updated	02-12-2015
Revision 3	Third release all parts updated	23-06-2016
Revision 4	Fourth release last page removed; page 8 modified	17-07-2017
Revision 5	Fifth release VDASF3 Foam, VDASF3 labels, new look LOP valve, Brass fittings.	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.	26-04-2024

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Basic Designs — VDAS LOP & ROP




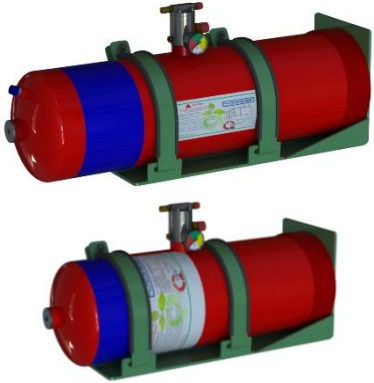
LOP System




ROP System


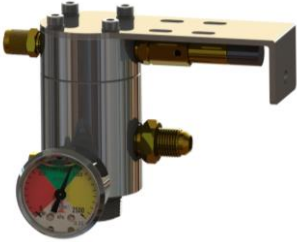



Section 2: Cylinder Assemblies

Picture	Part #	Description – LOP & ROP Vertical Assemblies
	QTA 10/12-L	12L COMPACT Cylinder Assy Complete-LOP
	QTA 16/20-L	20L COMPACT Cylinder Assy Complete-LOP
	QTA 20/25-L	25L COMPACT Cylinder Assy Complete-LOP
	QTA 24/30-L	30L COMPACT Cylinder Assy Complete-LOP
	QTA 10/12-R	12L COMPACT Cylinder Assy Complete-ROP
	QTA 16/12-R	20L COMPACT Cylinder Assy Complete-ROP
	QTA 20/25-R	25L COMPACT Cylinder Assy Complete-ROP
	QTA 24/30-R	30L COMPACT Cylinder Assy Complete-ROP

Picture	Part #	Description – LOP & ROP Horizontal Assemblies
	QTA 10/12-L	12L COMPACT Cylinder Assy Complete-LOP
	QTA 16/20-L	20L COMPACT Cylinder Assy Complete-LOP
	QTA 20/25-L	25L COMPACT Cylinder Assy Complete-LOP
	QTA 24/30-L	30L COMPACT Cylinder Assy Complete-LOP
	QTA 16/20-R	20L COMPACT Cylinder Assy Complete-ROP
	QTA 20/25-R	25L COMPACT Cylinder Assy Complete-ROP
	QTA 24/30-R	30L COMPACT 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 950-1350	Compact LOP Valve
	QTB 950/1350-M	Compact LOP Valve Complete with C3 / METRON
	QTB 950/1350-SB	Compact LOP Valve Complete with 12V Solenoid & SS Bracket
	QTB 950	LPRM Valve
	QTB 940	Compact ROP Valve

Section 4: Brackets & Mounts



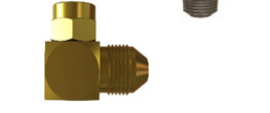







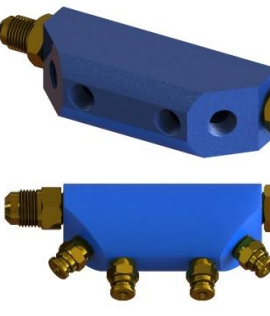
Picture	Part #	Description - Brackets
	QTB 448	2lt LPRM Bracket
	QTB 449	1lt LPRM Bracket
	QTB 450-PC	Bracket Powder Coated Green, for 16/20Ltr, 20/25Ltr, & 24/30Ltr.
	S-EXB-FLS-WVBPC9	10/12Ltr Bracket
	QTB 0177-PC	LPRM 90° Support Bracket
	QTB 400	Weld on Bracket Lug 60mm X 12mm
	QT0244	Cab Plate LOP Remote
	QT0245	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-C	Nozzle Compact Assembly Single Straight
	QTB 041-45C	Nozzle Compact Assy - Single Angle 45
	QTB 042-C	Nozzle Compact Assy - Single End 90
	QTB 043/B-C	Nozzle Compact Assy - Single End 180
	QTB 053-C	Nozzle Compact Assy - Compact 90/90
	QTB 054-C	Nozzle Compact Assy - Compact 90/45
	QTB 057-C	Nozzle Compact Assy - Compact 45/45
	QTB 069/A	Compact Nozzle Tee Assembly & Bracket Complete
	QTB 233-ZP	Tube Nozzle Drill Guide - Plated
	QTB 095	Single Tube Nozzle Assy Suit 1/2" Tube (No Tip or Dust Cap)
	QTB 853	Aluminium Multi Nozzle Assy, For VDAS Compact systems complete with 9/16" 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 Circuit

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


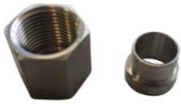
Section 9: Head to Ring Main

Picture	Part #	Description – Hose Fittings
	QTB 155	9/16JICf - 3/8 hose, Push on Hose Tail
	QTB 158	9/16JICm - 3/8 hose, Push on Hose Tail
	QTB 759-B	Brass Nipple, 9/16 jic m/m
	QTB 226	Brass Bulkhead jic 7/16
	QTB 240-B	Brass Bulkhead jic 9/16
	QTB 243-B	Brass Tee run m/m/m jic 9/16





Section 10: Activation Circuit Fittings

Picture	Part #	Description – 7/16” Activation Circuits
	QTB 115	BRASS Re-use end fem 7/16 JIC x 3/16
	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 262/BS	Tee run M / M/ F 7/16 JIC Brass & Stainless Steel
	QTB 289/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 11: Stainless Steel Tube

Picture	Part #	Description – Tube
	QTB 153	3/8 S/Steel Tube in 2M Lengths
	QTB 150	3/8 Tube Nut & Sleeve, SS

Section 12: Hose

Picture	Part #	Description – Hoses
	QTB 154	3/4 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)


Section 13: Clamps

Picture	Part #	Description – P Clamps
	QTB 038	Clamp Weld On 3/8 Tube Black
	QTB 039	Clamp Weld On 3/8 Hose Black
	QTB 021	P Clamp 3/16 to 1/4 Hose
	QTB 022	P Clamp 1/2 Hose & Rubber Gromets
	QTB 028	P Clamp 3/16 LOP Hose Spiral guard
	QTB 031	P-Clamp 0.38 suit cable
	QT 0009/C-ZP	LOP Blk Hd remote bracket LOP
	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 14: 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


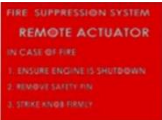
Electrical

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 585-SS	Pressure Switch N/O-N/C 1100kPa C/W 9.1ohm Resistor 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

Section 15: Electrical Activation and Detection Circuit

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/180°C (green) / metre

Section 16: 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
	QTB715/F3 QTB716/F3 QTB717/F3 QTB718/F3	VDASF3 Label Cyl. 12Lt VDASF3 Label Cyl. 20Lt VDASF3 Label Cyl. 25Lt VDASF3 Label Cyl. 30Lt
	QTB 772	LABEL — Remote Actuator Rotating Handle
	QT 0038-A	LABEL — Palm Button Label
	QT 0090/1	LABEL — Remote Actuator Push Label

Section 17: 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	LOP Compact / LPRM Service Kit
	QTB905	LOP Compact / LPRM Piston Assembly










Service Parts

Picture	Part #	Description – Service Parts
	QTB941	Compact ROP Valve Service Kit
	QTB942	Compact 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 18: 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 462-12V	12lt Compact Siphon Tube 5/8"
	QTB 462-20V	20lt Compact Siphon Tube 5/8"
	QTB 462-25V	25lt Compact Siphon Tube 5/8"
	QTB 462-30V	30lt Compact Siphon Tube 5/8"
	QTB 462-SH	20lt, 25lt, & 30lt Compact Horizontal systems only S/S Siphon Tube 5/8"
		

Miscellaneous

Picture	Part #	Description – Miscellaneous
	QTB 321	Compact 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
	QTC0912	12Lt RED Cylinder
	QTC0320-VH	20Lt RED Cylinder Vertical / Horizontal
	QTC0325-VH	25Lt RED Cylinder Vertical / Horizontal
	QTC0330-VH	30Lt RED Cylinder Vertical / Horizontal

