

Part No.

# QTVC-1KPSIG-FL

Calibration kit, QTVC volume controller, 1000 psi / 70 bar / 7 MPa FieldLab (0.1% of Reading Accuracy)

Connect to and calibrate both very low or high pressure instrumentation using included volume controller and pressure gauge



QTVC-1KPSIG-FL

## Included Items

- Volume Controller - QTVC Volume Controller (QTVC)
- Pressure Reference - Pressure FieldLab, 1000 psi / 70 bar / 7 MPa, Female Quick-test bottom connection (FLP1-GP-QF)
- Process Connection 1 - 1/4" male NPT x male Quick-test, no check-valve, brass (QTHA-2MB0)
- Process Connection 2 - 1/4" male NPT x male Quick-test, no check-valve, brass (QTHA-2MB0)
- Hose 1 - Quick-test 6900 psi hose, brass hose ends, 6 ft (1.83 m) long (QTQT-HOS-6ft)
- Hose 2 - Quick-test 6900 psi hose, brass hose ends, 3 ft (92 cm) long (QTQT-HOS-3ft)

## Specs/Attributes

Materials	Anodized Aluminum, Brass, Powder Coated Steel, Stainless Steel
Seal Materials	Buna-N, Delrin, Teflon
Max Pressure	3000 PSI / 200 bar / 20 MPa
Max Vacuum	10 InHg / 33.9 kPa
Min Operating Temperature	0 °F / -18 °C
Max Operating Temperature	130 °F / 54 °C
Hose 1	Quick-test Hose, Brass ends, 6ft / 1.9m long
Hose 2	Quick-test Hose, Brass ends, 3ft / 0.9m long
Pressure Reference	Pressure FieldLab, 1000 psi / 70 bar / 7 MPa

## Specs/Attributes

Process Connection	1/4" Male NPT
Country of origin	USA
Weight	7.71 lbs / 3.50 kg
Dimensions	H: 14 in (35.56 cm) x W: 8.5 in (21.59 cm) x D: 9 in (22.86 cm)

## Volume Controller QTVC

Harmonized Code	9032.81.0060
Inlet Port	Male Quick-test
Outlet Port	Male Quick-test, Male Quick-test with cap and chain
Max Pressure	3000 PSI / 200 bar / 20 MPa
Max Vacuum	10 InHg / 33.9 kPa
Min Operating Temperature	0 °F / -18 °C
Max Operating Temperature	130 °F / 54 °C
Pressure Media	Nitrogen, inert gas
Fine Adjustment Resolution	0.00 PSI / 0.00 mbar / 0.00 kPa
Mechanical Rotation	42 turns (pressure balanced)
Materials	Anodized Aluminum, Brass, Powder Coated Steel, Stainless Steel
Media Compatibility	Air, Inert Gas, Natural Gas
Seal Materials	Buna-N, Delrin, Teflon
Country of origin	USA
Weight	3.70 lbs / 1.68 kg
Dimensions	H: 6.8 in (17.27 cm) x W: 8.5 in (21.59 cm) x D: 6.6 in (16.76 cm)

## Pressure Reference FLP1-GP-QF

Battery Count	1
Battery Life	1000 Hours
Battery Type	Lithium Ion rechargeable, 4.8 Ah Capacity
Burst Pressure	4000 PSI / 275 bar / 28 MPa
Calibration Certificate	NIST traceable (included)
Certifications	Certified to CSA Standard C22.2 No. 61010-1, Conforms to UL / IEC / EN / AS Standard No. 61010-1, North America - Class 1 Division 1 Groups A-D, T4, (-10 < Ta < 50 °C), ATEX - Ex II 1 G Ex ia IIC T4 Ga (-10 < Ta < 50 °C), IECEx - Ex ia IIC T4 Ga (-10 < Ta < 50 °C), UN/DOT 38.3 (Lithium Batteries), Complies with Pressure Equipment Directive 2014/68/EU, Complies with Low Voltage Directive 2014/35/EU, Complies with Electromagnetic Compatibility Directive 2014/30/EU
Country Adapters	North America, Europe, United Kingdom, Australia, China
Country of origin	USA
Engineering Units	atm, bar, cmH2O @4°C, inH2O @39°C, kPa, MPa, mbar, psi, inHg @39°F, kgf / cm <sup>2</sup> , mmHg @0°C, Torr, mmH2O @4°C, ftH2O @39°F, cmHg @ 0°C, oz / in <sup>2</sup>
Harmonized Code	9026.20.0000
LCD Display	3.5 in / 90mm Color TFT LCD Display

## Pressure Reference FLP1-GP-QF

Materials	316 Stainless Steel, Reinforced Polyamide
Max Operating Temperature	120 °F / 50 °C
Max Pressure	1000 PSI / 70 bar / 7.00 MPa
Max Storage Temperature	165 °F / 75 °C
Measurement Type	Gauge Pressure
Media Compatibility	Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water
Min Operating Temperature	14 °F / -10 °C
Min Storage Temperature	-20 °F / -29 °C
Mounting Holes	3 x M5 Inserts (10 mm deep)
Operating Altitude (max)	10,000 ft (3050 m)
Power Input	90-264 VAC, 50-60 Hz
Pressure Measurement Uncertainty	+/- 0.02% of Full Scale (0-20% of Full Scale), +/- 0.1% of Reading (20-100% of Full Scale)
Primary Power	Battery Power
Process Connection	Female Quick-test
Protection Class	Pollution Degree 2 (UL / IEC 61010-1)
Relative Humidity	0% to 90% (-10 to 35 °C) , 0% to 70% (35 to 50 °C)
Seal Materials	Teflon, Viton
Sensor Type	High Precision MEMS
Temperature Compensation	14 to 122 °F (-10 to 50 °C)
USB Connection	USB (Type B)
Wetted Materials	316 Stainless Steel
Weight	2.56 lbs / 1.16 kg
Dimensions	H: 9 in (22.86 cm) x W: 5 in (12.7 cm) x D: 2.5 in (6.35 cm)

## Process Connection 1 QTHA-2MB0

Burst Pressure	20000 PSI / 1380 bar / 140 MPa
Country of origin	USA
Materials	Brass
Max Operating Temperature	225 °F / 105 °C
Max Pressure	5000 PSI / 350 bar / 35 MPa
Max Vacuum	0.00 InHg / 0.0 kPa
Min Operating Temperature	0 °F / -18 °C
Seal Materials	Buna-N
Wrench Size	9/16 In 15 mm

### Process Connection 1 QTHA-2MB0

Dimensions	H: 1.29 in (3.28 cm) x W: 0.56 in (1.42 cm)
------------	---

### Process Connection 2 QTHA-2MB0

Burst Pressure	20000 PSI / 1380 bar / 140 MPa
Country of origin	USA
Materials	Brass
Max Operating Temperature	225 °F / 105 °C
Max Pressure	5000 PSI / 350 bar / 35 MPa
Max Vacuum	0.00 InHg / 0.0 kPa
Min Operating Temperature	0 °F / -18 °C
Seal Materials	Buna-N
Wrench Size	9/16 In 15 mm
Dimensions	H: 1.29 in (3.28 cm) x W: 0.56 in (1.42 cm)

### Hose 1 QTQT-HOS-6ft

Burst Pressure	27000 PSI / 1860 bar / 185 MPa
Color	Silver
Country of origin	USA
Fluid Media	Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water
Inner Diameter	0.08 In / 3.00 mm
Length	6 ft / 2.00 m
Materials	Brass
Max Operating Temperature	140 °F / 60 °C
Max Pressure	6900 PSI / 475 bar / 48 MPa
Max Vacuum	0.00 InHg / 0.0 kPa
Min Operating Temperature	-40 °F / -40 °C
Minimum Bend Radius	1.00 In / 26 mm
Outer Diameter	0.20 In / 6.00 mm
Type	QT

### Hose 2 QTQT-HOS-3ft

Burst Pressure	27000 PSI / 1860 bar / 185 MPa
Color	Silver
Country of origin	USA
Fluid Media	Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water
Inner Diameter	0.08 In / 3.00 mm
Length	3 ft / 92 cm
Materials	Brass

**Hose 2** QTQT-HOS-3ft

Max Operating Temperature	140 °F / 60 °C
Max Pressure	6900 PSI / 475 bar / 48 MPa
Max Vacuum	0.00 InHg / 0.0 kPa
Min Operating Temperature	-40 °F / -40 °C
Minimum Bend Radius	1.00 In / 26 mm
Outer Diameter	0.20 In / 6.00 mm
Type	QT