

Part No.

# QTHP-1KPSIG-FL

5kpsi / 35 MPa Hydraulic hand pump, 1,000 psi FieldLab

5kpsi / 35 MPa Hydraulic hand pump, 1,000 psi FieldLab



QTHP-1KPSIG-FL

## Included Items

- Hand Pump - QTHP Hydraulic Hand Pump (QTHP)
- Pressure Reference - Pressure FieldLab, 1000 psi / 70 bar / 7 MPa, Female Quick-test bottom connection (FLP1-GP-QF)
- Process Connection - 1/4" male NPT x male Quick-test, no check-valve, brass (QTHA-2MB0)
- Hose - Quick-test 6900 psi hose, brass hose ends, 3 ft (92 cm) long (QTQT-HOS-3ft)
- Bottle - Bottle with flip top for Hydraulic pump fluid, empty (QTHP-BOTL)

## Specs/Attributes

|                      |                                                                  |
|----------------------|------------------------------------------------------------------|
| Hose 1               | Quick-test Hose, Stainless Steel ends, 3ft / 0.9m long           |
| Reference Connection | None                                                             |
| Pressure Reference   | Pressure FieldLab, 1000 psi / 70 bar / 7 MPa                     |
| Country of origin    | USA                                                              |
| Weight               | 3.25 lbs / 1.47 kg                                               |
| Dimensions           | H: 5.7 in (14.48 cm) x W: 6 in (15.24 cm) x D: 8.6 in (21.84 cm) |

## Hand Pump QTHP

|                            |                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Burst Pressure             | 20000 PSI / 1380 bar / 140 MPa                                                                                                                                                      |
| Country of origin          | USA                                                                                                                                                                                 |
| Fine Adjustment Resolution | 0.01 psi / 70 Pa                                                                                                                                                                    |
| Harmonized Code            | 8413.20.0000                                                                                                                                                                        |
| Materials                  | Anodized Aluminum, Brass, Stainless Steel, Polysulfone                                                                                                                              |
| Max Operating Temperature  | 140 °F / 60 °C                                                                                                                                                                      |
| Max Pressure               | 5000 PSI / 350 bar / 35 MPa                                                                                                                                                         |
| Media Compatibility        | Alcohol, Antifreeze, Ethylene Glycol, Hydraulic Oil, Light motor oil, Mineral Oil, Petroleum Based Oil, Ralston Calibration Oil, Transmission fluid, Water, Windshield washer fluid |
| Min Operating Temperature  | -29 °F / -34 °C                                                                                                                                                                     |
| Outlet Port                | Male Quick-test, Male Quick-test                                                                                                                                                    |
| Piston Displacement        | 0.017 Cu In                                                                                                                                                                         |
| Pressure Media             | Liquid                                                                                                                                                                              |
| Reservoir Volume           | 4.2 fl. oz                                                                                                                                                                          |
| Seal Materials             | Buna-N, Teflon                                                                                                                                                                      |
| Weight                     | 2.93 lbs / 1.33 kg                                                                                                                                                                  |
| Dimensions                 | H: 5.7 in (14.48 cm) x W: 6 in (15.24 cm) x D: 10.6 in (26.92 cm)                                                                                                                   |

## Pressure Reference FLP1-GP-QF

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Accuracy - Pressure Measurement | +/- 0.02% of Full Scale (0-20% of Full Scale), +/- 0.1% of Reading (20-100% of Full Scale)                                                                                                                                                                                                                                                                                                                                                                                        |
| 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         | ISO 17025:2017 Accredited                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 |

## Pressure Reference FLP1-GP-QF

|                           |                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Country Adapters          | North America, Europe, United Kingdom, Australia, China                                                                                                                |
| Country of origin         | USA                                                                                                                                                                    |
| Data Logging              | 2 million points (onboard)                                                                                                                                             |
| 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                                                                                                                                    |
| 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                                                                                                                                                   |
| 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                                                                                                                                                    |
| USB Connection            | USB (Type B)                                                                                                                                                           |
| Wetted Materials          | 316 Stainless Steel                                                                                                                                                    |
| Wireless                  | None                                                                                                                                                                   |
| Connector End 1           | Female Quick-test                                                                                                                                                      |
| 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 QTHA-2MB0

|                   |                                |
|-------------------|--------------------------------|
| Burst Pressure    | 20000 PSI / 1380 bar / 140 MPa |
| Country of origin | USA                            |
| Materials         | Brass                          |

## Process Connection QTHA-2MB0

|                           |                                                                    |
|---------------------------|--------------------------------------------------------------------|
| 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<br>15 mm                                                   |
| Connector End 1           | 1/4" Male NPT (ASME B1.20.1)                                       |
| Connector End 2           | Male Quick-test                                                    |
| Weight                    | 1.09 oz / 31 grams                                                 |
| Dimensions                | H: 1.29 in (3.28 cm) x W: 0.56 in (1.42 cm) x D: 0.56 in (1.42 cm) |

## Hose 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 |
| Hose Length               | 3ft / 0.91 m                                            |
| Inner Diameter            | 0.08 In / 3.00 mm                                       |
| Length                    | 3 ft / 92 cm                                            |
| Materials                 | Brass                                                   |
| Max Operating Temperature | 140 °F / 60 °C                                          |
| Max Pressure              | 6900 PSI / 475 bar / 48 MPa                             |
| Max Vacuum                | -30.00 InHg / -101.6 kPa                                |
| Media Compatibility       | Air, Inert Gas, Natural Gas, Petroleum Based Oil, Water |
| 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                                                      |
| Weight                    | 2.68 oz / 76 grams                                      |

## Bottle QTHP-BOTL

|                   |                                                                     |
|-------------------|---------------------------------------------------------------------|
| Materials         | Nylon                                                               |
| Country of origin | USA                                                                 |
| Weight            | 1.26 oz / 36 grams                                                  |
| Dimensions        | H: 7.25 in (18.42 cm) x W: 2.32 in (5.89 cm) x D: 2.32 in (5.89 cm) |