



On-site Pressure Calibration Solutions

Solution	Reference Picture	Pressure Pump	Pressure Range	Recommend ConST273
ConST113 low pressure solution		ConST113	-40% to 0.4bar	(-20~20)mbar (-100~100)mbar (-400~400) mbar
ConST115 low pressure solution		ConST115	-90% to 4bar	(-1~1) bar (0~1.6) bar (0~4) bar
ConST116 Mid pressure solution		ConST116	-95% to 25bar	(-1~1) bar (0~1.6) bar (0~4) bar (0~10) bar (0~25) bar
ConST117 Mid pressure solution		ConST117	-95% to 40bar	(-1~1) bar (0~2.5) bar (0~6) bar (0~16) bar (0~25) bar (0~40) bar
ConST131 High pressure solution		ConST131	-90% to 600bar	(0~16) bar (0~40) bar (0~100) bar (0~250) bar (0~600) bar
ConST132 High pressure solution		ConST132	-90% to 700bar	(0~16) bar (0~25) bar (0~60) bar (0~160) bar (0~250) bar (0~600) bar

Remark: Above collocated solution is for reference. The end-users need to select the most suitable solution according the different conditions.





Low-pressure pneumatic pump



ConST113 Low-pressure hand pump

The ConST113 is a hand operated pressure pump designed to generate either vacuum to -0.4bar or pressure to 0.4bar. The ConST113 includes a pressure/vacuum selector, a volume control for fine adjustable pressure relief valve to prevent damage to sensitive instruments.

Application: The ConST113 is a primarily intended for low pressure application. It features a fine adjust vernier with 0.01Pa resolution at low pressure. It is a perfect pressure source on the site.

Specification

Pressure

Pressure range.....-40% to 0.4bar
Pressure resolution.....0.0001mbar (0.01Pa)

Material

Ram/Adapters.....316SS
Body.....Stainless Steel/ Aluminum
Seals.....Buna N (nitrile)
Media.....Air

Dimensions

Length (of base).....230mm (9.06")
Width (of base)..... 130mm (5.12")
Height (overall).....125mm (4.92")
Weight.....1.0kg (2.21lbs)



ConST115 Portable low-pressure pump

This pump is an extension version of ConST113. Besides the other components, it adds a pressure lever to generate the pre-pressure.

Application: The ConST115 is a perfect pressure source in the range of (-95% to 4bar), It can use both in-home and on-site.

Specification

Pressure

Pressure range.....-95% to 4bar
Pressure resolution.....0.0001mbar (0.01Pa)

Material

Ram/Adapters.....316SS
Body.....Stainless Steel/ Aluminum
Seals.....Buna N (nitrile)
Media.....Air

Dimensions

Length (of base).....285mm (11.22")
Width (of base)..... 220mm (8.66")
Height (overall).....120mm (4.72")
Weight.....3.8kg (8.38lbs)



Mid-pressure pneumatic pump



ConST116 Pneumatic Hand pump

This novelty is a new air pressure source with own patent right. (Patent#: ZL 2008 2 0123201.0)

ConST116 is attached inner gas-liquid isolator and shut-off valve (for releasing dirt), not only it is totally free from humidity and dirt, but also it can save labor and leakage is the lowest.

Due to it well avoided lots shortcomings caused by the non-return valve, its airtight performance and efficiency is much better than other *pliers type hand pumps*.

Application: A perfect pressure source on-site.

Specification

Pressure.....-95% to 25bar
Pressure resolution.....0.1 mbar (10Pa)
Material.....316SS/Aluminum
Media.....Air
Sizes (L*W*H).....240*120*130mm
Weight.....1.5kg

Accessories

Flexible hose..... 1 pc
Sealing ring.....20pcs
Adapter3pcs
Plug2pcs
Spanner.....1pc



ConST117 Portable Pneumatic Pump

This pump is an extension version of ConST116. It is to calibrate the big size gauges under test, pressure range is -95% vacuum up to 40bar by pneumatic, and the adjusting resolution is 0.1mbar. It is much better than pliers-type hand pumps.

Application: The ConST117 can use in-home or in-field. it is a very good pressure source.

Specification

Pressure.....-95% to 40bar
Pressure resolution.....0.1 mbar (10Pa)
Material.....316SS/Aluminum
Media.....Air
Sizes (L*W*H).....315*198*140mm
Weight.....3.0kg

Accessories

Sealing ring.....20pcs
Plug2pcs



High-pressure hydraulic pump



ConST131 Hydraulic Hand pump

This novelty is a new hydraulic pressure source with patent right. (Patent#: ZL 2008 2 0123141.2)

By using helicoidal pump, it is very easy to pressurize or adjustment. Its durability and airtightness is much better than most pliers type hand pump, this is because pliers hand-pump's check valve is always weaken the airtight effect. However, the ConST131 resolved such problems very well.

Application: It is a perfect pressure source for the range from -90% to 600bar. If it use with pressure calibrator ConST273 together, this combination is really suitable to calibrate pressure gauge, pressure transmitter, pressure switch and other pressure instruments on site.

Specification

Pressure range.....-90% to 600bar
Pressure resolution.....1 mbar (100Pa)
Material.....316SS/Aluminum
Media.....Oil or distilled water
Sizes (L*W*H).....250*140*120mm
Weight.....1.5kg

Accessories

Flexible hose..... 1 pc
Sealing ring.....20pcs
Adapter3pcs
Plug2pcs
Spanner.....1pc



ConST132 Portable Hydraulic Pump

ConST132 is an extension version of ConST131. It is to calibrate the big size gauges under test, the pressure range is -90% vacuum up to 700bar by hydraulic. The adjusting resolution is 1mbar. It is much better than pliers-type hand pumps.

Application: The ConST132 can use in-home or in-field, it is a very good pressure source.

Specification

Pressure range.....-90% to 700bar
Pressure resolution.....1 mbar (100Pa)
Material.....316SS/Aluminum
Media.....Oil or distilled water
Sizes (L*W*H).....290*198*135mm
Weight.....3.0kg

Accessories

Sealing ring.....20pcs
Plug2pcs