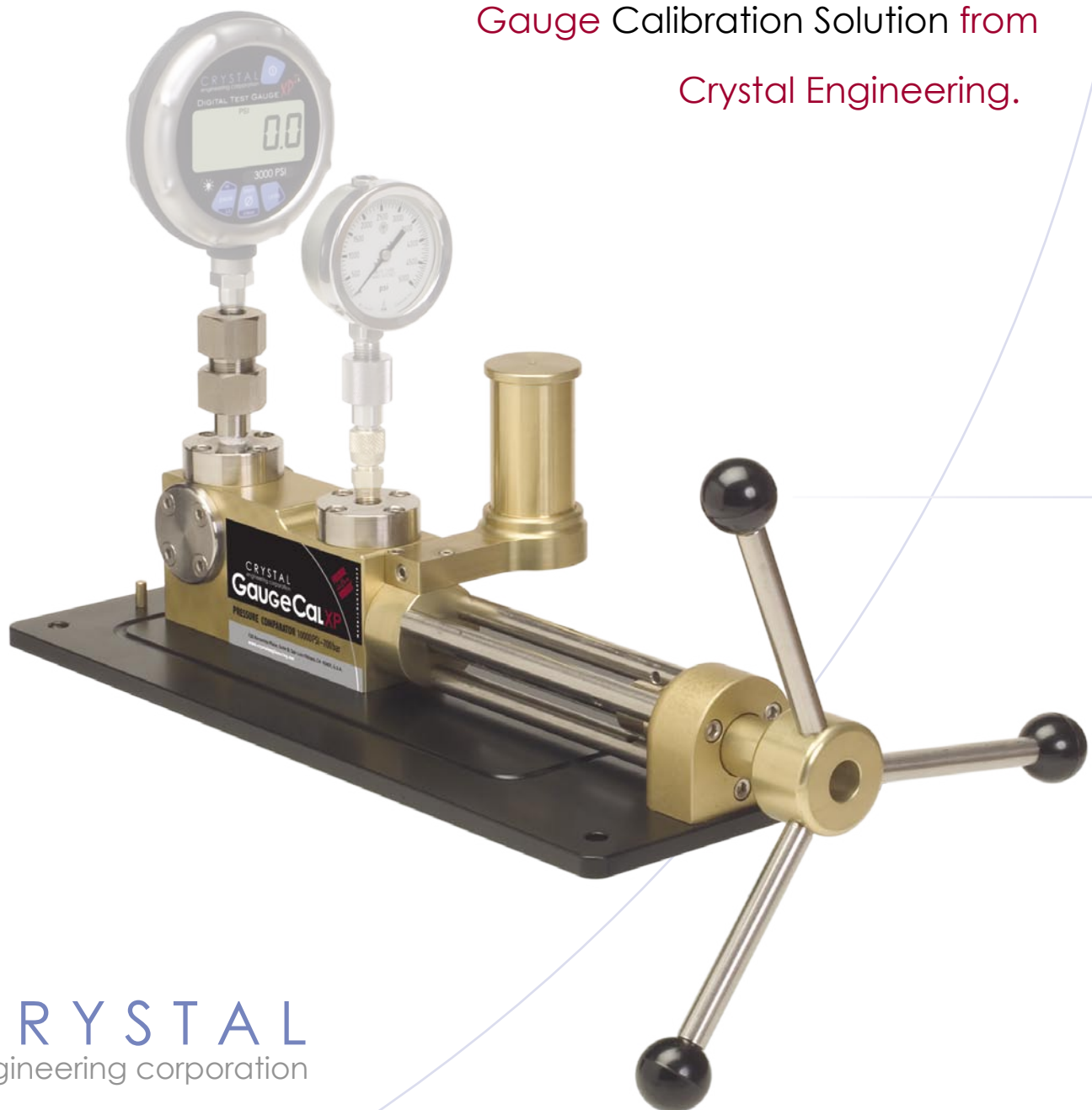
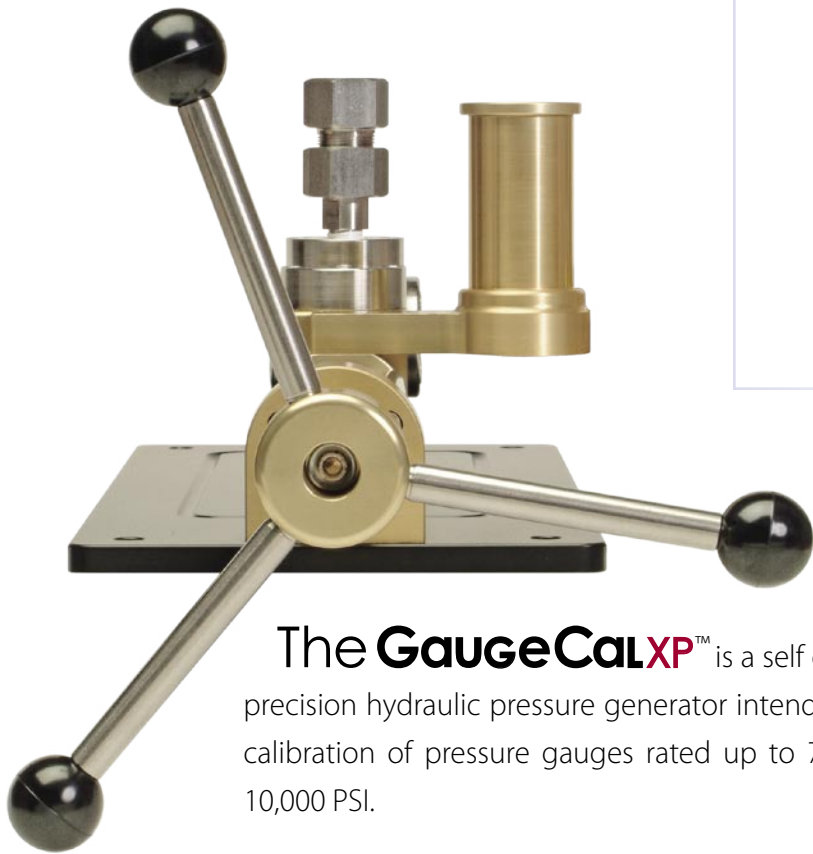


Introducing  
the **GaugeCalXP™**  
PRESSURE COMPARATOR 10000PSI-700bar

The Fast, Portable,  
Low Cost, Easy-to-Operate,  
Gauge Calibration Solution from  
Crystal Engineering.



**CRYSTAL**  
engineering corporation



The **GaugeCalXP™** is a self contained, precision hydraulic pressure generator intended for the calibration of pressure gauges rated up to 700 bar or 10,000 PSI.

Two pressure ports are provided. Connect a reference grade gauge on one port (we recommend an **XP2i** from Crystal Engineering) and the gauge to be tested on the second port. Rotate the handle clockwise until the desired pressure is generated. Then, compare the displayed pressure values between the reference gauge and the gauge under test.

Pressure can be set very quickly and precisely. Gauges can be calibrated in less than ten minutes—5 to 10 test points, increasing and decreasing pressure. The comparator can be filled with your choice of fluid: water, oil, or isopropyl alcohol.

The **GaugeCalXP** is much, much faster to use than a deadweight tester, and it's also faster than most automated pressure controllers, but it costs much less than either. It's so quick and easy to use, it's ideal to calibrate those low cost gauges that are often overlooked for ISO9000 compliance. The features and performance of the **GaugeCalXP** make it the perfect solution for even your most demanding gauge calibration requirements.

## Features

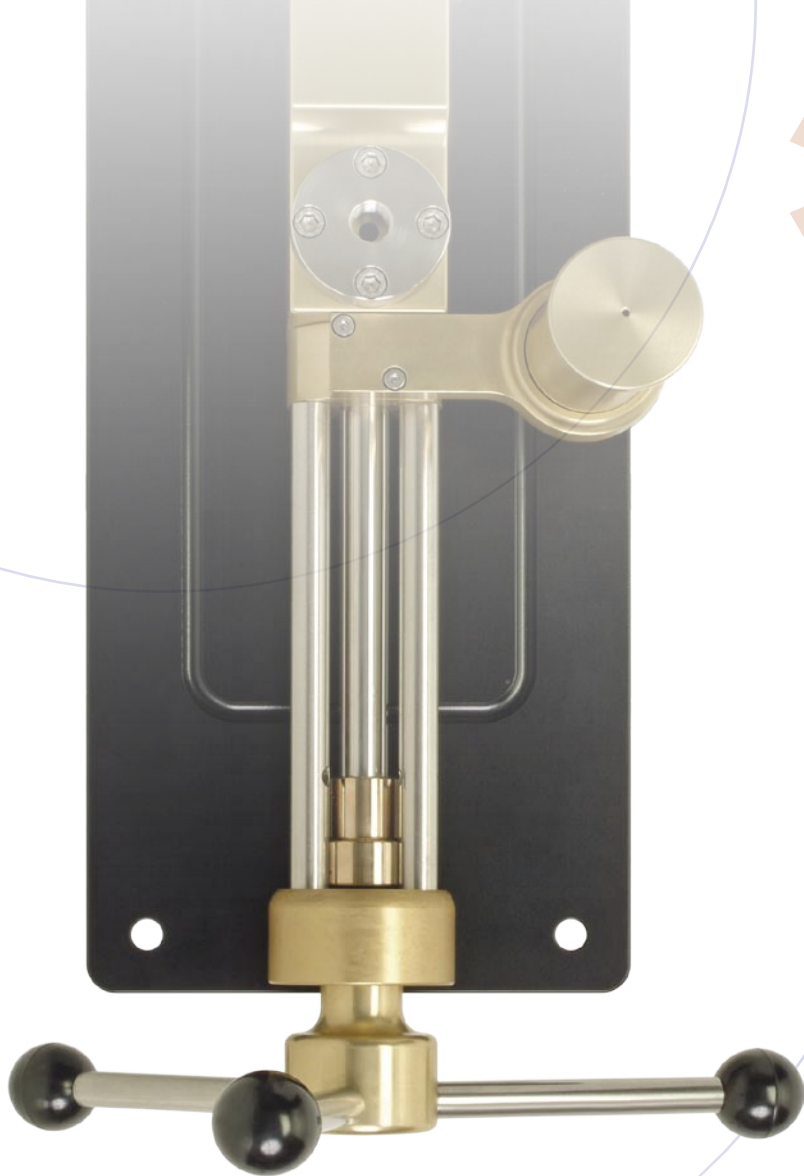
**Portability:** With a small footprint of just 174.9mm x 428.8mm (7" x 17"), the **GaugeCalXP** can be mounted just about anywhere, and easily moved from one location to another.

**Ease of Operation:** Pressure is precisely set with a simple turn of the handle, allowing you to calibrate gauges quickly and accurately.

**Performance:** The **GaugeCalXP** is capable of generating pressures up to 700 bar/10,000 PSI. An optional Fine Adjust accessory is also available from Crystal Engineering.

**Low Cost:** Though it offers fast, easy, and accurate gauge calibration, the **GaugeCalXP** costs much less than deadweight testers and automated pressure controllers.

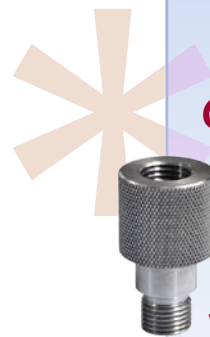
**Flexibility:** The **GaugeCalXP** is suitable for use with not only oil, but also with isopropyl alcohol and water, allowing for the clean and safe calibration of most any type of gauge.



## Fast and Easy Operation

Once you have filled the reservoir with the appropriate test fluid and installed the gauges\*, using the GaugeCalXP Pressure Comparator is as **easy as 1-2-3**.

- 1 Turn on the XP21** digital test gauge and select the pressure units required for the gauge you want to test—metric, bar, kPa, or PSI.
- 2 Start the test** by applying pressure to the gauges. To increase pressure, wind the handle in a clockwise direction. To decrease pressure, wind the handle in the opposite direction.
- 3 Compare the pressure readings** on the gauge you are testing, to those on the XP2i test gauge, and then record the results.



### QUICK Change Artist

Optional Quick-Connect fittings allow for **fast and easy gauge changes—without any tools or thread tape!**

Simply **finger tighten**, and the connection will be **leak free, up to 5000 PSI (350 Bar)**.

Available for both NPT and BSPP. Refer to the Optional Accessories chart on the following page.

## Specifications

### Performance

Maximum Pressure..... 10,000 PSI / 700 BAR  
Minimum Pressure ..... 5 PSI / 0.5 BAR  
Burst Pressure..... >20,000 PSI / 1400 BAR

### Materials

Ram/Adapters ..... 316SS  
Body ..... Aluminum  
Seals ..... Buna N (Nitrile)  
Test Media ..... Water or Oil

### Dimensions

Width (of base) ..... 174.8 mm (6.88")  
Length (of base) ..... 428.8 mm (16.88")  
Length (overall) ..... 495.3 mm (19.50")

### Accessories (included)

Adapters..... 1/4 and 1/2 NPT std.  
Wrenches..... 2

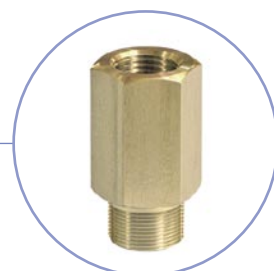
# Ordering Information for the GaugeCal<sup>XP</sup> and related optional accessories

## Kits Individual Components

GaugeCal <sup>XP</sup> Pressure Comparator	
3205	Fine Adjust Kit for GaugeCal <sup>XP</sup>
3143	Rebuild Kit for GaugeCal <sup>XP</sup>



Up to 10,000 PSI—700 bar	GaugeCal <sup>XP</sup> Pressure Comparator	
	3134	1/8" Female NPT Gauge Adapter
	3116	1/4" Female NPT Gauge Adapter
	3117	1/2" Female NPT Gauge Adapter
	3137	1/4" BSPP Gauge Adapter
	3135	1/2" BSPP Gauge Adapter
	3136	3/8" BSPP Gauge Adapter
	3140	1/4" BSPT Gauge Adapter
	3138	1/2" BSPT Gauge Adapter
3139	3/8" BSPT Gauge Adapter	



Up to 5,000 PSI—350 bar	NPT Quick-Connect Gauge Adapter Kit	
	3183	NPT Quick-Connect Gauge Adapter Kit
	3125	Quick-Connect 1/8" Female NPT Gauge Adapter
	3126	Quick-Connect 1/4" Female NPT Gauge Adapter
	3127	Quick-Connect 1/2" Female NPT Gauge Adapter
	2992	1/4" Male NPT Stem Adapter
	BSPP Quick-Connect Gauge Adapter Kit	
	3184	Quick-Connect 1/8" BSPP Gauge Adapter
	3185	Quick-Connect 1/4" BSPP Gauge Adapter
	3186	Quick-Connect 3/8" BSPP Gauge Adapter
3187	Quick-Connect 1/2" BSPP Gauge Adapter	
2992	1/4" Male NPT Stem Adapter	
1810	PTFE Thread Tape, 6mm (1/4") wide	