

Hydraulic High-Pressure Generator

Type 6906

Portable pressure generator for calibrating pressure sensors ranging from 500 to 10 000 bar. In combination with the reference sensors and evaluating devices offered by Kistler, a complete calibration system can be assembled for calibrating piezoelectric pressure sensors.

The hydraulic pressure generator makes it possible to generate extremely high pressures of up to 10 000 bar. The pressure created can be maintained over a long period of time. For safety reasons, the pressure generator is provided with a swiveling safety hood.

- For pressures up to 10 000 bar
- With swivelling safety hood
- Highly stable pressure



Technical data

bar	0 10 000
	0 10 000
mm	6
mm	76
mm	1.75
cm ³	2.14
Oil	Typ 1053
cm ³	22
kg	15
	2 x M10x1
bar/min	<u>a</u> 0
	mm mm mm cm³ Oil cm³

(Depending on the volume of air enclosed, the pressure drops slightly before it stabilizes)

Description

Spindle rotation can generate a pressure of up to 10 000 bar, and the pressure created can be maintained for up to five minutes. Depending on the volume of air enclosed, the pressure drops slightly at the start. A swivelling safety hood ensures optimum protection for the user without restricting operation of the pressure generator.

Application

The pressure generator is used for the testing or comparative calibration of dynamically measuring high-pressure sensors. It is possible to maintain the pressure generated over a period of up to 5 minutes (e.g. for calibrating a measuring chain).

Operation

The high-pressure generator can be fixed to a workbench with screws, or with the screw clamps provided. The reference sensor and the sensor to be tested are installed using an adapter (see accessories). The piston is then retracted so that oil is drawn from the oil reservoir.

After the piston has been fully retracted, the valve to the oil reservoir is closed and the safety hood swivelled over the sensors. The piston is now moved forward with the spindle until the required pressure is obtained.



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Reference sensors

Sensors which are used as a reference for a comparison measurement must be checked by means of a standard of a higher category within defined time intervals.

Types 6962B.../6963A...

These types consist of a pressure sensor which is mounted into a special calibrating adapter and which has been calibrated and sealed by an accredited calibrating authority (SCS). The type is approved by all national calibrating laboratories and is especially used as a reference standard.

Type 6229AK

The sensor has an excellent linearity of $\leq \pm 0.3$ %. The remaining technical data correspond to the standard type. The sensor is used together with the corresponding adapter as a working standard.

Important:

Prior to operating, the reference sensor Type 6229AK must be calibrated as a unit together with the adapter in order to rule out sensitivity changes due to mounting. We recommend to order the reference sensors together with the corresponding adapters so that they can be calibrated as a unit at Kistler.

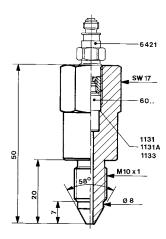
Pressure range	Sensor Type
0 5 000 bar	6229AK
0 8 000 bar	6963AB
0 2 000 bar	6962B2000

Sensor Type	Tightening torque
6213B	40 N⋅m
6215	20 N⋅m
6963AB	10 N·m
6962B2000	10 N·m

Adapters

Adapters are available for all Kistler pressure sensors which are suitable for calibration with the pressure generator.

All adapters with conical sealings (e.g. 6919) must be tightened exclusively with the specified torque of 10 N·m. For higher tightening torques the sealing part may be damaged. For sealing of the sensor in the adapter the original sealing ring appertaining to the sensor must be used.



Type 6919

Pressure Sensor Type
60, 4065A
6201 6211, 6227
6213BK, 6213B
6215, 6229AK, 6229A, 4067A
70

For the adapters Type 6919 and Type 7913 the corresponding connecting nipple must be ordered separately.