FORCE MEASUREMENT
HYDRAULIC FORCE GAUGE

PCE-HFG SERIES

For the measurement of compression forces in mechanical systems

The hydraulic force transducer PCE HFG series is used for the absorption of static pressure forces and is made of stainless steel. The force transducer can measure forces over a long period of time due to its independence from power sources. With the integrated drag indicator the respective PEAK value is stored for later read out. The force transducer uses the measuring principle of hydraulic transmission of forces. The forces applied to the plunger are transmitted to the dial gauge via the medium and are displayed on the Newton scale [N]. Due to the 27 mm ring opening, it is also possible to use the force transducer axially and to determine axial shaft forces, for example.

ISO cal option

- measurement of static pressure forces
- for stationary maintenance measurements and adjustment work
- independent of power sources
- analogue meter scale
- compact for small installation spaces
- pressure force display in kilonewtons [kN]
- stainless steel
- integrated drag indicators

APPLICATION

TECHNICAL SPECIFICATIONS

Models of the PCE-HFG series:

Measured value: Force [N]

Measuring range	
PCE-HFG 1K	0... 1000 N
PCE-HFG 2.5K	0... 2500 N
PCE-HFG 10K	0... 10000 N
PCE-HFG 25K	0... 25000 N

Models with 1 m long hydraulic hose	
PCE-HFG 1K E100	0 ... ..1000 N
PCE-HFG 2.5K E100	0 ... 2500 N
PCE-HFG 10K E100	0 ... 10000 N
PCE-HFG 25K E100	0 ... 25000 N

Resolution:	
PCE-HFG 1K	20 N
PCE-HFG 2.5K	100 N
PCE-HFG 10K	200 N
PCE-HFG 25K	1000 N

Accuracy:	±(1.6 % pressure gauge +0.25 % reading error) from measuring range
Temperature range:	0... 50 °C
weight:	1.6 kg
Mounting holes:	2 x M6
Inner diameter of the ring:	Ø 27 mm
Display dimensions:	Ø 55 mm

Subject to change without notice