Hydraulic Force Gauge PCE-HFG Series



PCE-HFG Series

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 the independence from power sources. With the integrated slave pointer the respective PEAK measured value is stored for later reading. 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.

- 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 Newton [N]
- rustproof steel
- integrated slave pointer

General Features PCE-HFG Series	
Measurement range	0 … 25000 N
Measuring accuracy	±1.85 % f. s.
Resolution	20… 1000 N
Units	N, kN
Type of force	Static compressive force
Force application	Axial or vertical application
Material	Stainless steel
Memory	Integrated drag indicator for maximum value recording
Operating time	Permanent, operation without auxiliary power
Display	Analogue force manometer
Mounting aid	2 x M6 screw mounting for axial fixing
Inner ring diameter	ø 27 mm

Main dimensions	180 mm x 105 mm x 35 mm (L x W x H)
Operating conditions	0 °C… +50 °C 20 %... 90 % RH non-condensing
Storage conditions	-10 °C… +60 °C 20 %... 90 % RH non-condensing
Weight	approx. 1.6 kg

Technical specification	
Model	PCE-HFG 1K
Measurement range	0… 1,000 N
Measuring accuracy	±1.85 % f. s.
Resolution	20 N
Unit	N

Model	PCE-HFG 2.5K
Measurement range	0… 2,500 N
Measuring accuracy	±1.85 % f. s.
Resolution	100 N
Unit	N

Model	PCE-HFG 10K
Measurement range	0… 10,000 N
Measuring accuracy	±1.85 % f. s.
Resolution	200 N
Unit	kN

Model	PCE-HFG 25K
Measurement range	0… 25,000 N
Measuring accuracy	±1.85 % f. s.
Resolution	1000 N
Unit	kN

Subject to change

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