

### ServiceJunior test kit

- Easy generation of pressures for testing and adjusting:
  - Pressure meters
  - Pressure sensors
  - Pressure switches
  - Safety valves
- Also suitable for mobile use
- Pneumatic version from -0.95 - 60 bar and hydraulic version from 0 - 700 bar
- No additional power supply necessary
- Includes large set of adapters



### Hand pump + reference = test kit

Whether in industry, mobile hydraulics, service or repair: the pressure value is decisive for ensuring the functioning and productivity of machines and plants. The pressure transmitters, sensors and pressure switches used here can suffer from ageing, wear or other influences, leading to incorrect measured values or switching points.

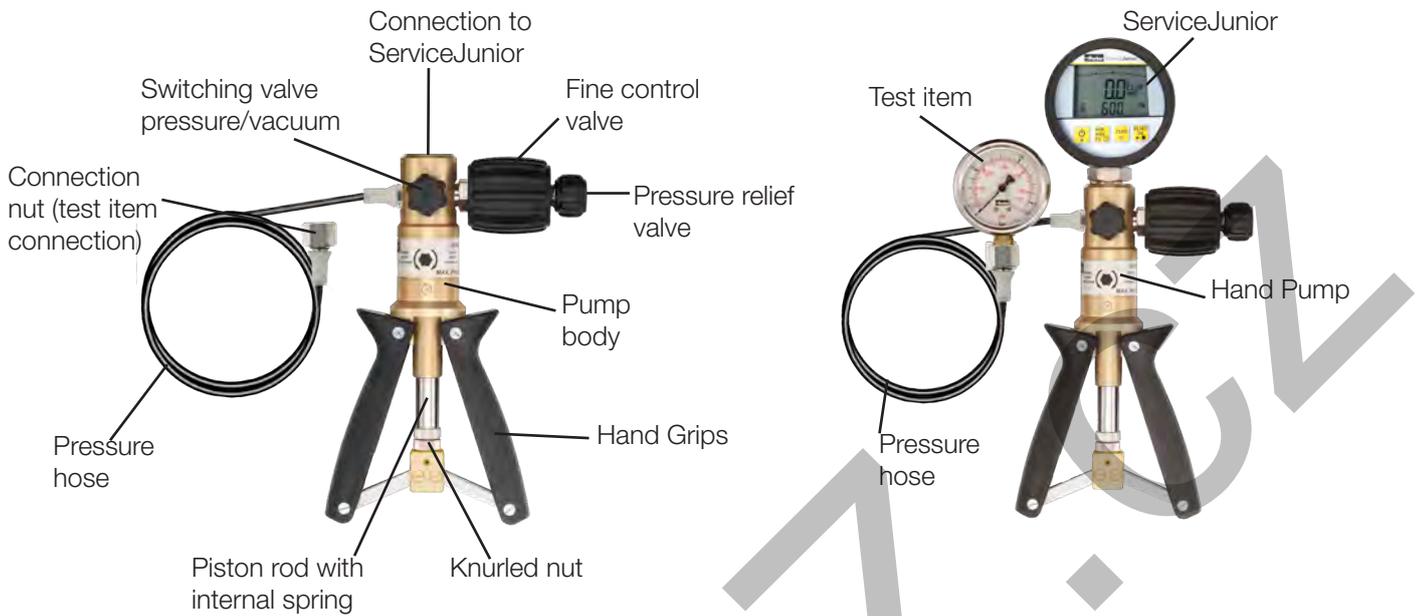
The ServiceJunior Test kit makes it easy to test manometers and pressure sensors, set pressure switches and more. The kit consists of a hydraulic or pneumatic hand pump used to generate a defined test pressure, plus a Service Junior as the reference device. Air, water or oil is used as the pressure medium.

Simply connect the unit to be tested to the hand pump. The connection hose and a large set of adapters are included in the supply package.

The required test pressure is generated by pumping and precisely set using the regulating valve. The proven ServiceJunior acts as a reference and pressure display with an accuracy of up to 0.1 %. By comparing the pressure display with the measured value of the test item, the test item is checked and can be adjusted if necessary.

# 5 ServiceJunior Test kit

## Functional description



## Pressure measurement

1. Connect the test item to the pressure hose using a suitable adapter.
2. Generate test pressure by pressing the handles together.
3. Set the test pressure exactly via the fine adjustment valve.
4. If necessary, reduce the test pressure via the pressure relief valve.
5. Compare the measured value of the test item with the reference value of the highly accurate ServiceJunior.

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## Technical data

	SCHP-KIT-060-xx-01	SCHP-KIT-700-xx-01
<b>Hand pump with pressure hose</b>		
Pressure range	- 0.95 ... 60 bar	0 ... 700 bar
Pressure medium	Air	Hydraulic oil (-10 ... 60 °C, non-freezing)* or demineralised water (0 ... 60 °C, non-freezing)
Connection to ServiceJunior	G ¼	G ¼
Connection of test item	Measuring hose M16x2 with connection nut G ¼"	Pressure hose (1 m) with connection nut G ¼"
Dimensions without ServiceJunior	approx. 240 x 170 x 50 mm	approx. 255 x 225 x 85 mm
Weight without ServiceJunior	approx. 1.1 kg	approx. 1.7 kg
<b>Reference</b>		
Measuring range	- 1...60 bar	0 ... 700 bar
Overload pressure	120 bar	1,000 bar
Burst pressure	550 bar	2,000 bar
Accuracy (in % of measuring span)	SCHP-KIT-060-02-01: 0.1 % ±1 digit SCHP-KIT-060-03-01: 0.25 % ±1 digit	SCHP-KIT-700-02-01: 0.1 % ±1 digit SCHP-KIT-700-03-01: 0.25 % ±1 digit
Sample rate	10 ms	10 ms
Process connection	G ¼" stainless steel, seal NBR	G ¼" stainless steel, seal NBR
Display indication	LC text display, 4.5 characters 50 x 34 mm Digit size 13.5 mm Backlight Units: bar, mbar, psi, kPa, Mpa, kg/cm <sup>2</sup> Bar graph (trailing indicator)	LC text display, 4.5 characters 50 x 34 mm Digit size 13.5 mm Backlight Units: bar, mbar, psi, kPa, Mpa, kg/cm <sup>2</sup> Bar graph (trailing indicator)
Functions	Display of MIN, MAX values Battery level indicator Auto Power Off (can be switched off) Zero (zero point adjustment)	Display of MIN, MAX values Battery level indicator Auto Power Off (can be switched off) Zero (zero point adjustment)
Power supply	2 x 1.5 V batteries (AA)	2 x 1.5 V batteries (AA)
Ambient temperature	0 ... 50°C	0 ... 50°C
Storage temperature	- 20 ... + 60 °C	- 20 ... + 60 °C
Rel. Humidity	< 85 %	< 85 %
Protection class	IP 67 EN 60529	IP 67 EN 60529
Vibration	IEC 60068-2-6/10 ... 500 Hz, 5 g	IEC 60068-2-6/10 ... 500 Hz, 5 g
Shock load	IEC 60068-2-29/25 g, 11 ms	IEC 60068-2-29/25 g, 11 ms
Pump weight	approx. 1450 g	approx. 2200 g
Kit weight	approx. 3700 g	approx. 4700 g
*Observe the information in the data sheets for the hydraulic oil used		

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## Supply range and accessories

Type	Pressure range	Accuracy reference
SCHP-KIT-060-02-01	- 0.95 ... 60 bar	± 0.1% of measuring span
SCHP-KIT-060-03-01	- 0.95 ... 60 bar	± 0.25% of measuring span
SCHP-KIT-700-02-01	0 ... 700 bar	± 0.1% of measuring span
SCHP-KIT-700-03-01	0 ... 700 bar	± 0.25% of measuring span

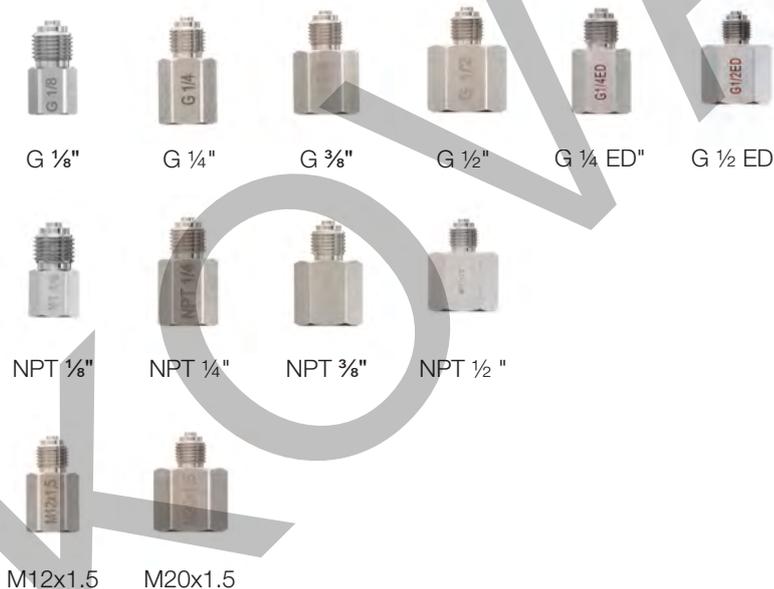
Further pressure levels on request

Scope of delivery	SCHP-KIT-060-xx-xx	SCHP-KIT-700-xx-xx
Service Junior (reference)	K-SCJN-060-02-N (0.1%) K-SCJN-060-03-N (0.25%)	K-SCJN-700-02-N (0.1%) K-SCJN-700-03-N (0.25%)
Hand Pump	SCHP-060-01	SCHP-700-01
Equipment case	SCC-400	SCC-410
Seal set flat seals made of plastic and O-rings	SCHP-SEALSET	SCHP-SEALSET
1 m connection hose	SMA1/4MA-1/8M-1000BLCF	SC-SMA3-1000-1/4F-316L
Spray bottle	—	SCHP-SPFL-01
Stainless steel adapter set G $\frac{1}{4}$ to: G $\frac{1}{8}$ ", G $\frac{1}{4}$ ", G $\frac{3}{8}$ ", G $\frac{1}{2}$ ", G $\frac{1}{4}$ ED", G $\frac{1}{2}$ ED", NPT $\frac{1}{8}$ ", NPT $\frac{1}{4}$ ", NPT $\frac{3}{8}$ ", NPT $\frac{1}{2}$ ", M12x1.5, M20x1.5, G $\frac{1}{8}$ A, G $\frac{1}{4}$ A	SCA-HP-KIT-01	SCA-HP-KIT-01

— not available

### Adapter set

#### Reducers



#### Double nipples

