6 Test kit SCJN

Test Kit SCJN

- 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 plant. The pressure transmitters, sensors and pressure switches used here can suffer from aging, 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.

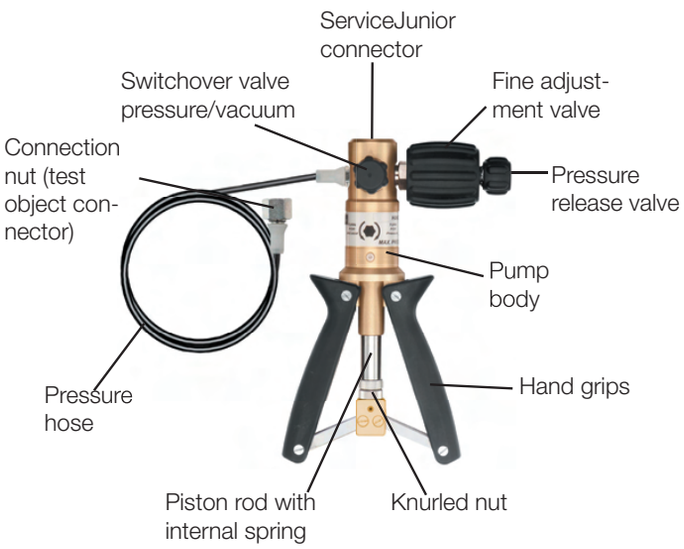
Simply connect the unit to be tested to the hand pump. The connection hose and a large set of adapters are included in the supply package.

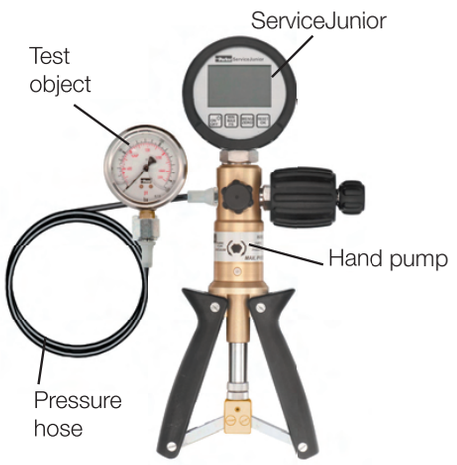
The required test pressure is generated by pumping and precisely set using the regulating valve. The practice-proven ServiceJunior acts as a reference and pressure display with an accuracy of up to 0.1 %. Compare the test object reading to the ServiceJunior display and adjust or correct as needed.

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Function specifications





Pressure measurements

1. Connect test object to pressure hose using suitable adapter.
2. Create test pressure by pressing the hand grips together.
3. Precisely set the test pressure using the fine adjustment valve.
4. If necessary, reduce test pressure using the pressure release valve.
5. Compare measured value of the test object with the reference value of the high-precision ServiceJunior.

Available versions

The SCJN test kit is available for two pressure ranges in two classes of accuracy:

Type	Pressure range	Accurancy reference
SCHP-KIT-060-02-01	- 0.95 … 60 bar	± 0.1% of the measuring span
SCHP-KIT-060-03-01	- 0.95 … 60 bar	± 0.25% of the measuring span
SCHP-KIT-700-02-01	0 … 700 bar	± 0.1% of the measuring span
SCHP-KIT-700-03-01	0 … 700 bar	± 0.25% of the measuring span
Further pressure ranges available on request		

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Technical data

	SCHP-KIT-060-xx-01	SCHP-KIT-700-xx-01
Hand pump with pressure hose		
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 to test object	Pressure hose (1 m) with connection nut G ¼"	M16x2 or measuring hose M16x2
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
Reference		
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 hand pump)	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
Scanning rate	10 ms	10 ms
Process connection	G ¼“ stainless steel, seal NBR	G ¼“ stainless steel, seal NBR
Display	LC text display, 4.5 characters 50 x 34 mm Digit size 13.5 mm Back-lit display Units: bar, mbar, psi, kPa, Mpa, kg/cm²	LC text display, 4.5 characters 50 x 34 mm Digit size 13.5 mm Back-lit display Units: bar, mbar, psi, kPa, Mpa, kg/cm² Bar graph (trailing indicator)
Functions	Display of MIN, MAX values Battery level display Auto Power Off (can be switched off) Zero (zero-point correction)	Display of MIN, MAX values Battery level display Auto Power Off (can be switched off) Zero (zero point correction)
Power supply	2 1.5 V batteries (AA)	2 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 %
Type of protection	IP 67 EN 60529	IP 67 EN 60529
Vibration resistance	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
Weight	approx. 540 g	approx. 540 g

*Please observe instructions in the data sheets of the hydraulic oil used

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Supply range and accessories

Accessories/ spare parts included	SCHP-KIT-060	SCHP-KIT-700
Equipment case	SCC-400	SCC-410
Set of seals flat, plastic seals and O-rings	SCHP-SEALSET	SCHP-SEALSET
1-m connecting hose	SMA1/4MA-1/8M-1000BLCF	SCA-SMA3-1000-1/4MA71
Spray bottle	—	SCHP-SPFL-01
Adapter set stainless steel adapters G¼ to: G **⅛"**, G ¼", G **⅜"**, G ½", G ¼ ED", G ½ ED", NPT **⅛''**, NPT ¼'', NPT **⅜"**, NPT ½'', M12x1,5, M20x1,5, G ⅛ A, G ¼ A	SCA-HP-KIT-01	SCA-HP-KIT-01

— not available

Adapter set

Reducers



G ⅛" G ¼" G ⅜" G ½" G ¼ ED" G ½ ED"



NPT ⅛" NPT ¼" NPT ⅜" NPT ½"



M12x1,5 M20x1,5

Double nipples



G ⅛ A G ¼ A





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