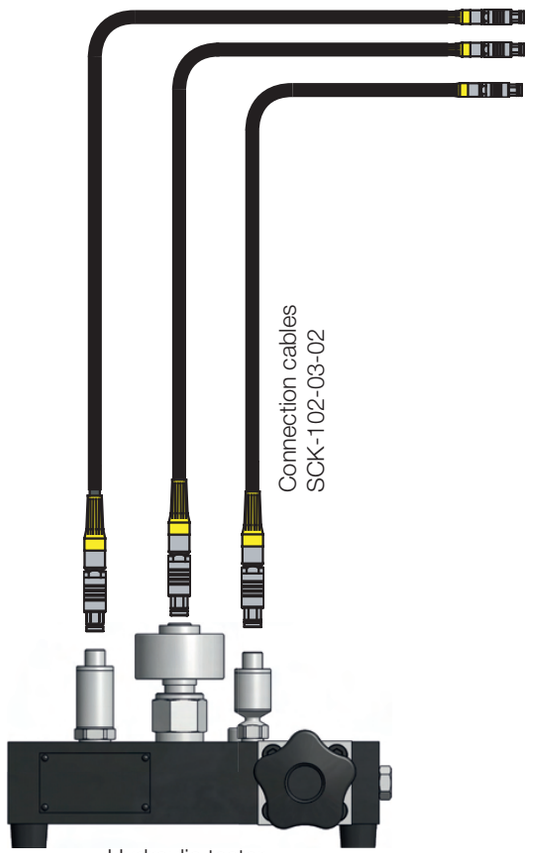
17 Hydraulic testers SCLV analogue and CAN

Function specifications

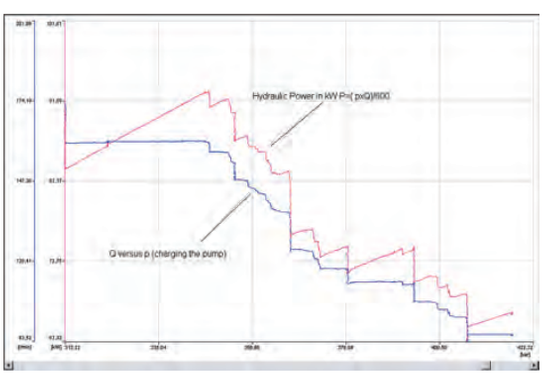


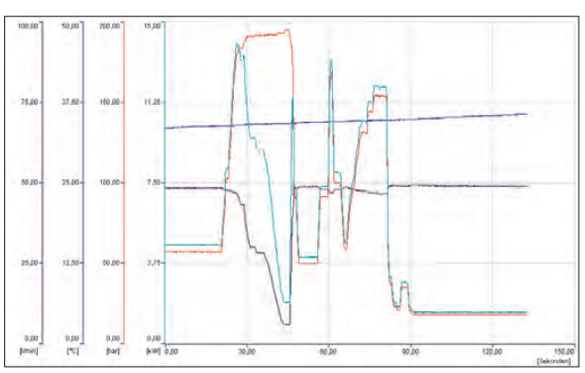
Hydraulic tester
SCLV-PTQ-xxx



Pressure, volume flow and temperature measurement with the Parker Serviceman Plus, The Parker Service Master ***Easy*** SCM-330/340 or Service Master ***Plus*** SCM-500-01-xx and the HydraulicTester SCLV-PTQ

The p-Q diagram (right) shows the power determined. Especially in hydraulic pump (load sensing) systems, this analysis is necessary for rotational-speed-dependent loads. The evaluation with the PC software **SensoWin®** is quick and easy.





The hydraulic power of a system can be analysed by a combined measurement of pressure and volume flow (left).

The graph shows an application with a hydraulic tester SCLV-PTQ. Pressure is generated in the system with the installed pressure load valve.

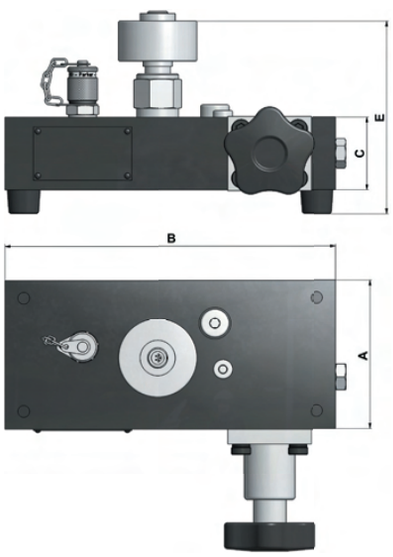
In the evaluation, power is calculated from the flow volume and pressure of the pump.

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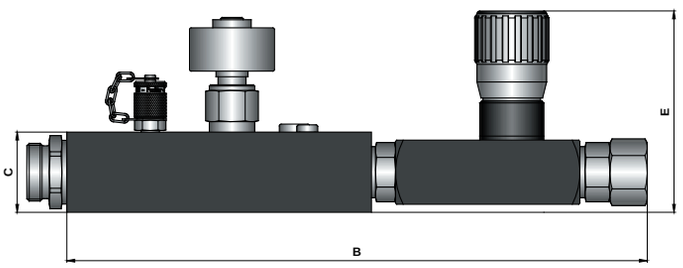
17 Hydraulic testers SCLV analogue and CAN

Technical data

Hydraulic tester
SCLV-PTQ-xxx



Turbine flow meter incl. throttle check valve
SCFT-150-DRV



Type	SCFT-150-DRV	SCLV-PTQ-300	SCLV-PTQ-750
A	62	98	117
B	370	222	235
C	50	50	75
E	130	135	150

Type	SCFT-150-DRV	SCLV-PTQ-300	SCLV-PTQ-750
Flow range Q_N (l/min)	6…150	10…300	20…750
Accuracy (± %) IR** @ 21cSt.	1.0	1.0 (> 20 l/min)	1.0 (> 25 l/min)
Operating pressure PN (bar)	350	350	400
Safety shut-off (Blow-out disc)	–	420 bar	480 bar
Ports (A - B)	3/4“ BSPP	1“ BSPP	1-7/8“ UNF
Pressure drop Δ P_{max} (bar) @ (FS*) 21cSt.	15	4	5
Weight (kg)	4.2	5.5	8.9

* FS = Full Scale (measuring range end value)
** IR = Indicated Reading (measured value displayed)

Response time	50 ms
Accuracy of temperature measurement only with CAN	± 2 K
Q_{max}	Q_N x 1.1 l/min
Overload pressure P_{max}	P_N x 1.2 bar
Ports: **Temperature port (SCT-190)** **Pressure port (EMA3 port)** **Pressure port (VSTI)**	 M10x1 M16x2 1/4“ BSPP
Housing	Aluminium
Seal	FKM
Parts in contact with media	Aluminium, steel, FKM

Ambient temperature (°C)	-10...+50
Storage temperature (°C)	-20...+80
Media temperature (°C)	-20...+90
Filtration (µm)	25 µm
Viscosity range (cSt.) (calibrated at 21 cSt., other viscosities on request)	10..100

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17 Hydraulic testers SCLV analogue and CAN

Supply range and accessories

SCLV-PTQ hydraulic tester with pressure load valve	Order code
10…300 l/min, P_{max} = 420 bar	SCLV-PTQ-300
10…300 l/min, P_{max} = 420 bar, with CAN bus connection	SCLVT-PTQ-300-C2-05
20...750 l/min, P_{max} = 480 bar	SCLV-PTQ-750
20...750 l/min, P_{max} = 480 bar, with CAN bus connection	SCLVT-PTQ-750-C2-05

SCLV-PTQ blow-out discs	Order code
for 10…300 l/min, P_{max} = 420 bar (4 blow-out discs)	SCLV-DISC-300
for 20...750 l/min, P_{max} = 480 bar (4 blow-out discs)	SCLV-DISC-800

SCFT turbine flow meter incl. throttle check valve	Order code
6...150 l/min, P_{max} = 400 bar	SCFT-150-DRV
6...150 l/min, P_{max} = 400 bar, with CAN bus connection	SCFTT-150-DRV-C2-05

SCK analogue connection cables	Order code
3 m (male 5 pin - male 5 pin)	SCK-102-03-02
5 m (male 5 pin - male 5 pin)	SCK-102-05-02
5-m extension cable (male 5 pin - female 5 pin)	SCK-102-05-12

SCK connection cables CAN*	Order code
0.5 m (male 5 pin - female 5 pin)	SCK-401-0.5-4F-4M
2 m (male 5 pin - female 5 pin)	SCK-401-02-4F-4M
5 m (male 5 pin - female 5 pin)	SCK-401-05-4F-4M
10 m (male 5 pin - female 5 pin)	SCK-401-10-4F-4M
20 m (male 5 pin - female 5 pin)	SCK-401-20-4F-4M
CAN Y-junction	SCK-401-Y
CAN Y-junction incl. 0.3-m cable	SCK-401-0.3-Y
CAN T-junction	SCK-401-T
Terminating resistor** CAN (female 5 pin - female 5 pin)	SCK-401-R

* Other lengths available on request
** Each CAN network requires a terminating resistor.

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