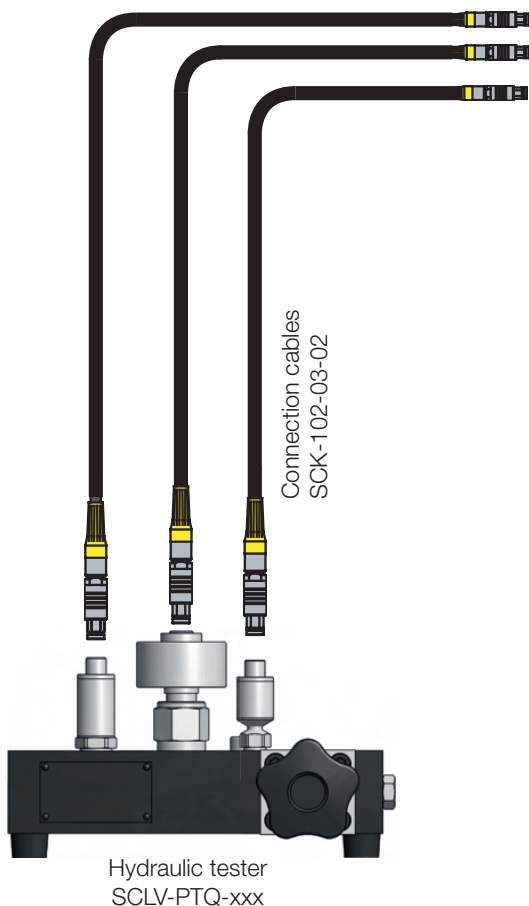


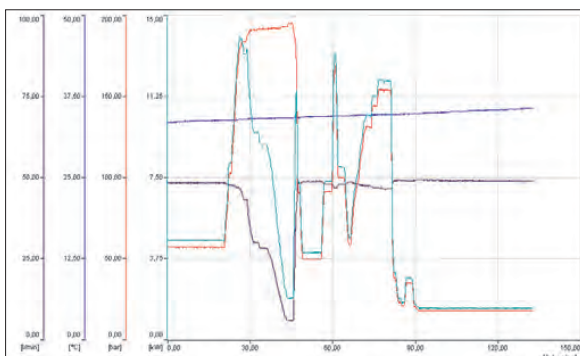
17 Hydraulic testers SCLV analogue and CAN

Function specifications

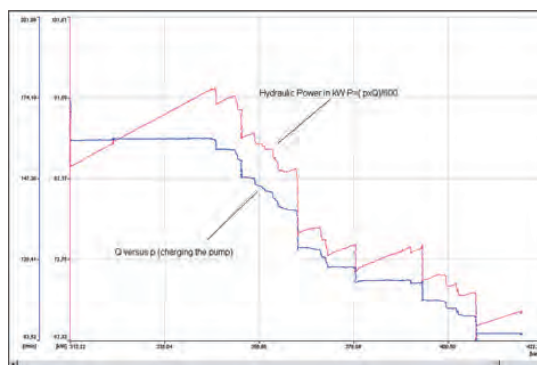


Sensors

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.



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 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.

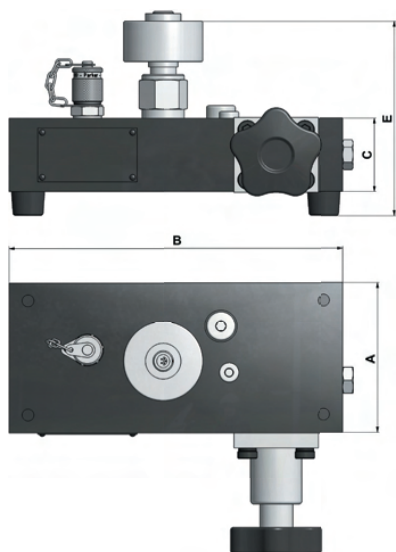
In the evaluation, power is calculated from the flow volume and pressure of the pump.



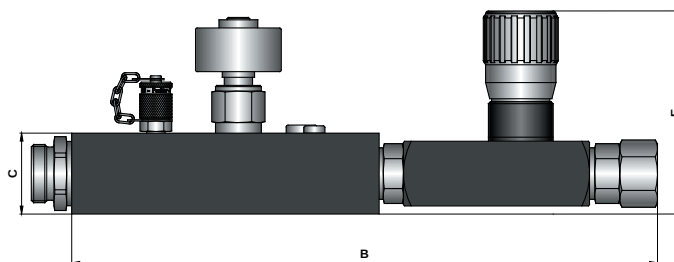
17 Hydraulic testers SCLV analogue and CAN

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 ($\pm$ %) IR** @ 21cSt.	1.0	1.0 (> 20 l/min)	1.0 (> 25 l/min)
Operating pressure P_N (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 ΔP_{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}	$Q_N \times 1.1$ l/min
Overload pressure P_{max}	$P_N \times 1.2$ bar
Ports:	
Temperature port (SCT-190)	M10x1
Pressure port (EMA3 port)	M16x2
Pressure port (VSTI)	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 (μ m)	25 μ m
Viscosity range (cSt.) (calibrated at 21 cSt., other viscosities on request)	10..100

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.	