

- **Measurement principle:**  
flow turbine
- **6 flow ranges up to 750 l/min**
- **Simple installation**
- **Resistant to high pressure**  
up to 480 bar
- **Low flow resistance**
- **Built-in pressure and temperature measurement points**
- **Suitable for reverse operation**



### Flow measurement with low flow resistance combined p/T/Q measurement

#### Function

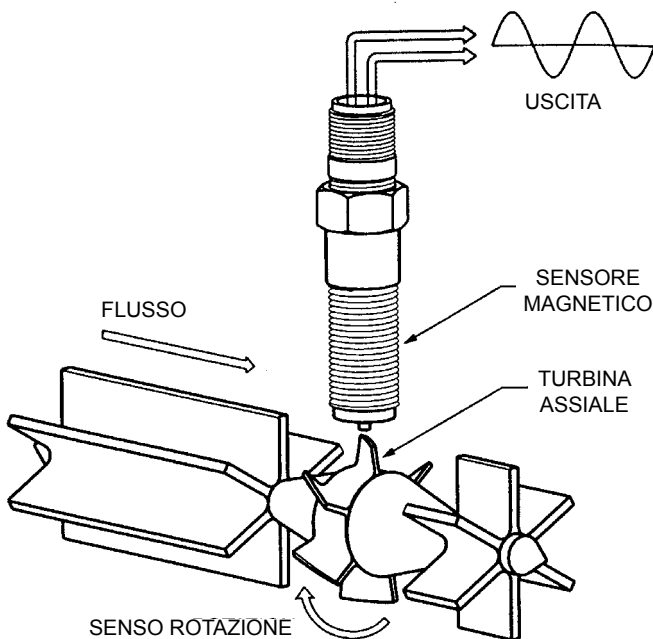
A turbine wheel is driven by the oil flow. The frequencies thus produced are processed by digital electronics. The influence of turbulent flow effects is compensated for. Because of the low flow resistance  $Q_R$  the hydraulic circuit operates with very low losses.

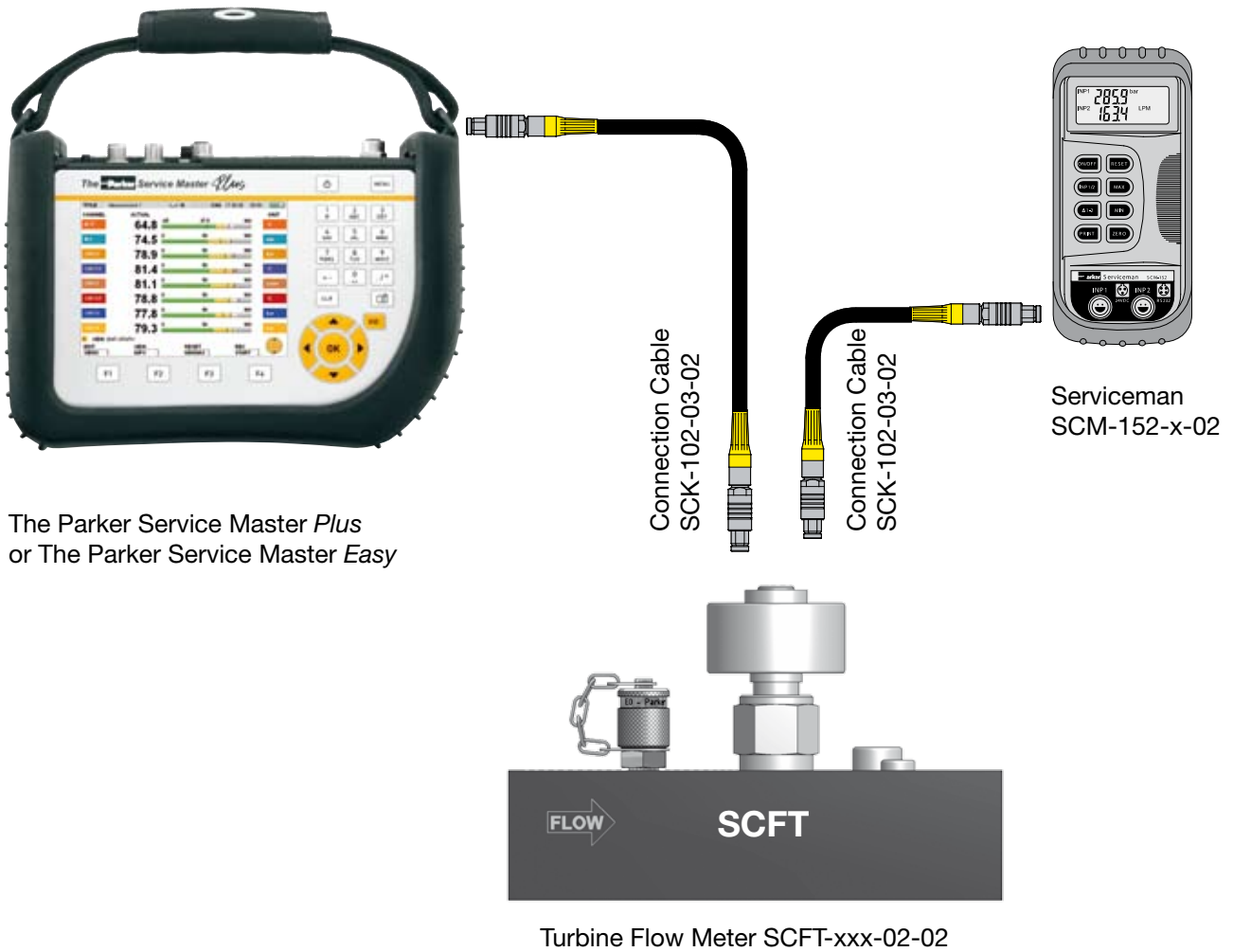
For pressure measurement the turbine is equipped with an EMA-3 test point.

Oil temperatures are measured direct in the oil flow. Consequently all the important measurement parameters are available at one measuring location.

#### Applications

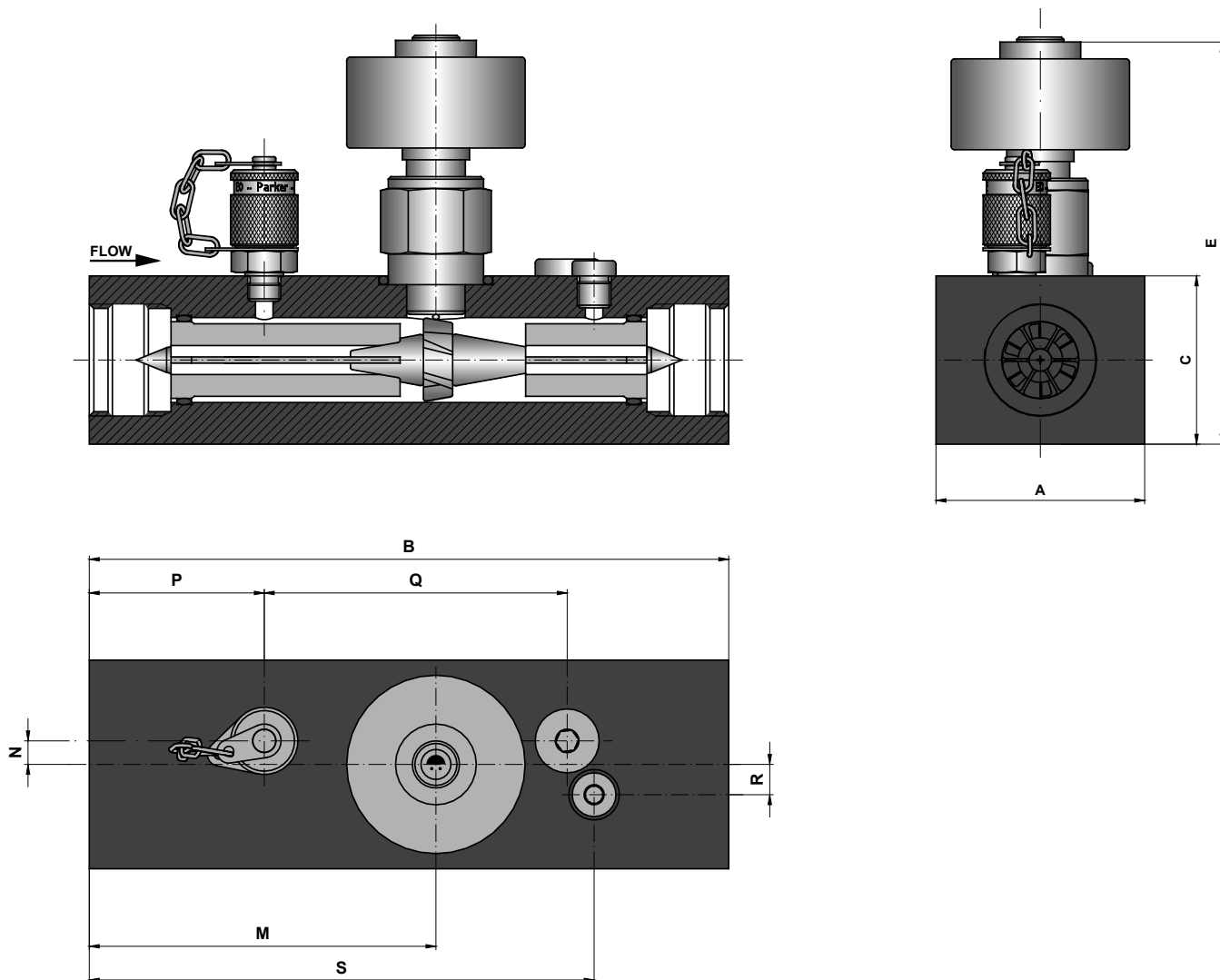
- mobile diagnosis
- p-Q measurement in construction and agricultural machines
- hydraulic tests with load valves
- automatic scaling





The Parker Service Master *Plus*  
or The Parker Service Master *Easy*

Turbine Flow Meter SCFT-xxx-02-02



#	SCFT-015	SCFT-060	SCFT-150	SCFT-300	SCFT-600	SCFT-750
A	37	62	62	62	62	100
B	136	190	190	190	212	212
C	37	50	50	50	75	75
E	117	130	130	134	150	154
M	70	103	103	103	127	126
N	0	5	5	7	9	10
P	25	50	50	52	62	60
Q	N/A	92	92	90	106	104
R	0	5	5	9	11	10
S	115	157	157	150	168	181

#	SCFT-015	SCFT-060	SCFT-150	SCFT-300	SCFT-600	SCFT-750
Flow Range QN (l/min)	1...015	3...060	5...150	8...300	15...600	20...750
Accuracy (± %) FS/IR @ 21cSt.	1,0 FS	1,0 IR*	1,0 IR*	1,0 IR*	1,0 IR*	1,0 IR*
Operating Pressure PN (bar)	350	350	350	350	290	400
Ports (A - B)	1/2" BSPP	3/4" BSPP	3/4" BSPP	1" BSPP	1-1/4" BSPP	1-7/8" UNF
Pressure Drop $\Delta P_{max}$ (bar) @ FS, 21cSt	1,5	1,5	1,5	4	5	5
Weight (g)	650	750	750	1200	1800	2100

FS = FullScale

IR = Indicated Reading

\* = for measurements ≥ 15 % FS, for measurements < 15 % FS accuracy 0.15 % FS

Response Time (ms)	50
$Q_{max}$ (l/min)	QN x 1,1
Overload Pressure $P_{max}$ (bar)	PN x 1,2
Ports: Temperature Port (SCT-150) Pressure Port (EMA3 Fitting) Pressure Port (VSTI)	M10x1 OR M16x2 1/4" BSPP
Housing	Aluminium
Sealing	FKM
Parts in Contact with Media	Aluminium, Steel, FKM

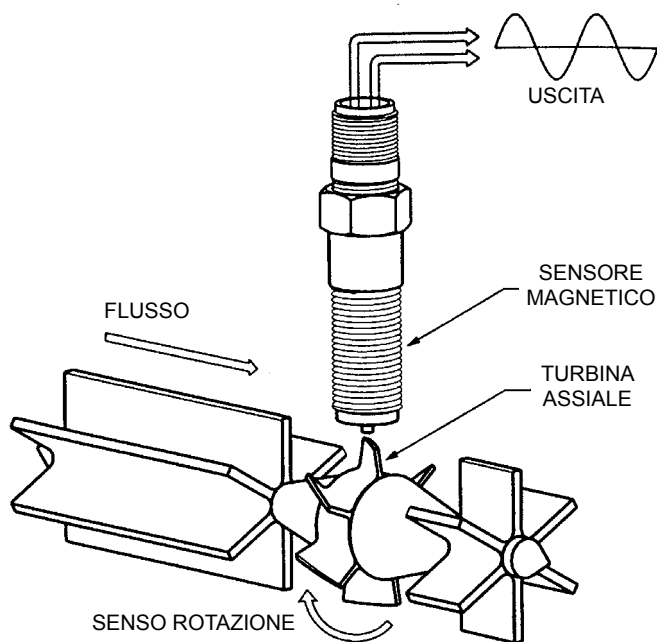
Ambient Temperature (°C)	-10...+50
Storage Temperature (°C)	-20...+80
T Fluid (°C)	-20...+90
Filtration (µm)	25 (10 µm for SCFT-015)
Viscosity Range (cSt.)*	10...100

\* (calibrated at 21 cSt, other viscosities on request)

SCFT Turbine Flow Meter	#
1,0...15/3...60/5...150/8...300/15...600/20...750 l/min	SCFT-xxx-02-02

SCK Connection Cables	#
Serviceman/The Parker Service Master <i>Family</i>	
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

- Flow turbine with CAN bus technology
- 6 flow ranges up to 750 l/min
- Simple installation
- Resistant to high pressure up to 480 bar
- Low flow resistance
- Built-in pressure and temperature measurement points
- Suitable for reverse operation
- Simple wiring with SPEEDCON®
- Long cable lengths up to 100 m



### Flow measurement with low flow resistance combined p/T/Q measurement

#### Function

A turbine wheel is driven by the oil flow. The frequencies thus produced are processed by digital electronics. The influence of turbulent flow effects is compensated for. Because of the low flow resistance  $Q_R$  the hydraulic circuit operates with very low losses.

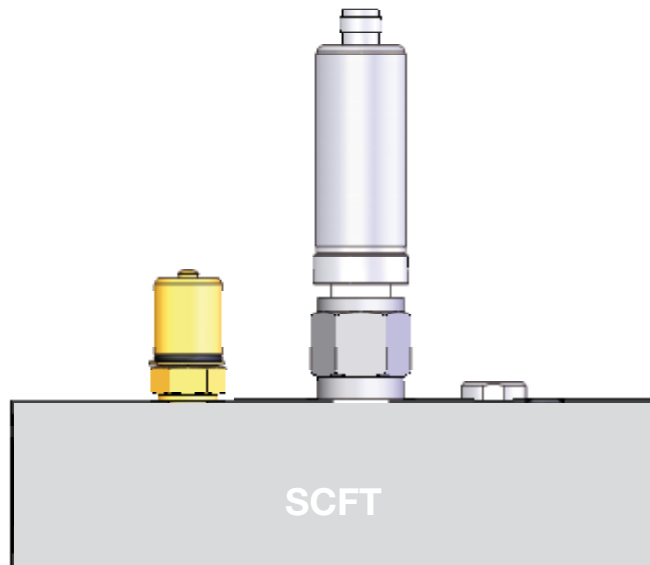
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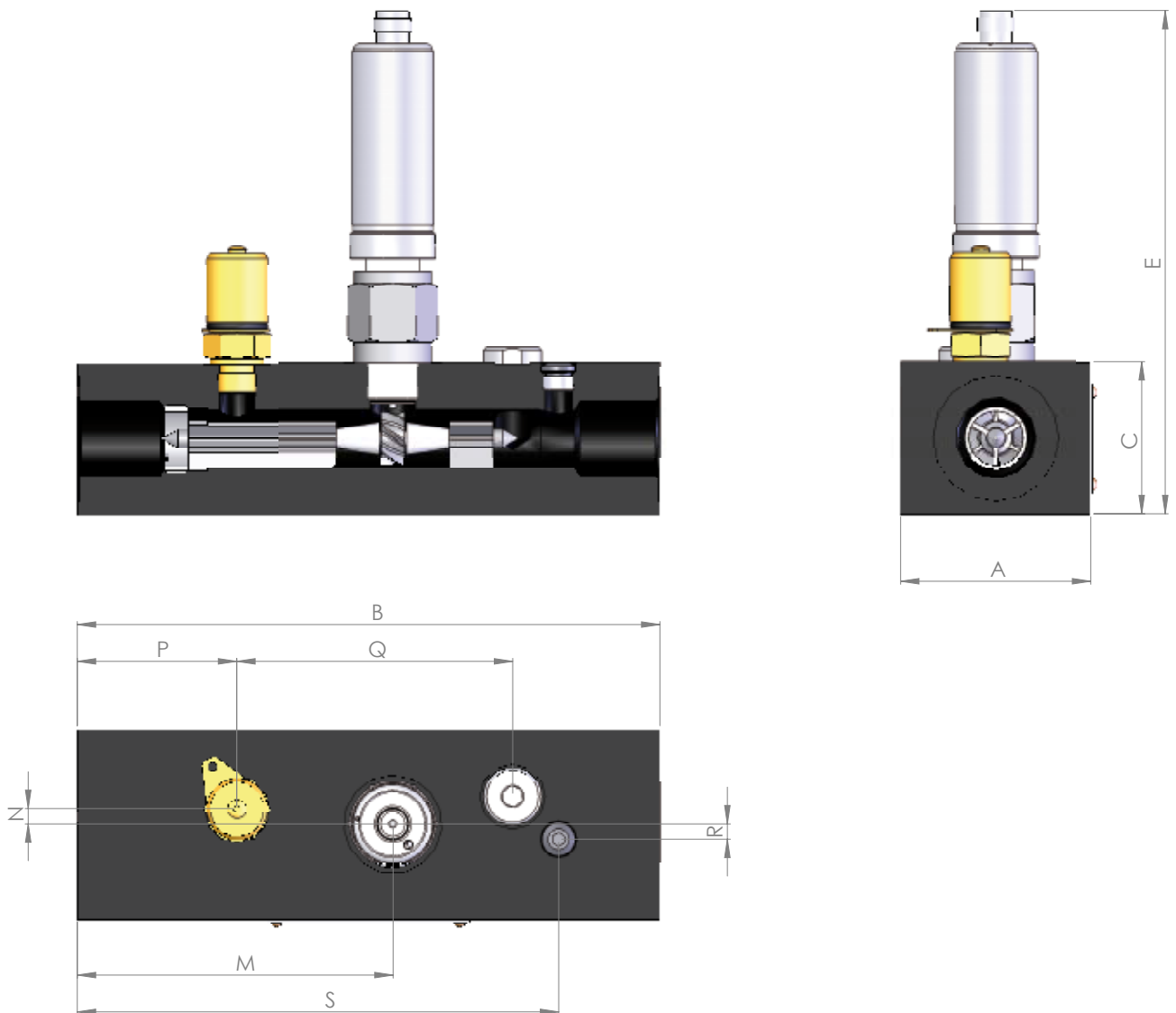
#### Applications

- mobile diagnosis with **The Parker Service Master Plus**
  - p-Q measurement in construction and agricultural machines
  - hydraulic tests with load valves
  - automatic scaling

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Turbine SCFT-xxx-C2-05



SCFT-CAN -#	015	060	150	300	600	750
A	36,9	62	62	62	62	100
B	136	190	190	190	212	212
C	36,9	49,6	49,6	49,6	75	75
E	150	164	164	168	183	186
M	69,5	103	103	103	127	125,8
N	0	5	5	7	9	12
P	25	52	52	52	62	60
Q	/	90	90	90	106	104
R	0	5	5	9	11	10
S	115	157	157	152	168	181

SCFT-CAN -#	015	060	150	300	600	750
Flow Range QN (l/min)	1...015	3...060	5...150	8...300	15...600	20...750
Accuracy (± %) FS/IR @ 21cSt.	1,0 FS	1,0 IR*	1,0 IR*	1,0 IR*	1,0 IR*	1,0 IR*
Operating Pressure PN (bar)	350	350	350	350	290	400
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Ambient Temperature (°C)	-10...+50
Storage Temperature (°C)	-20...+80
T Fluid (°C)	-20...+90
Filtration (µm)	25 (10 µm for SCFT-CAN-015)
Viscosity Range (cSt.)*	10..100

\* (calibrated at 21 cSt, other viscosities on request)

SCFT-CAN Turbine Flow Meter	#
1,0...15/3...60/5...150/8...300/15...600 l/min	SCFT-xxx-C2-05
20...750 l/min; $P_{max}$ = 480 bar	SCFT-750-C2-05

SCK Connection Cables CAN	#
The Parker Service Master <i>Plus</i>	
2 m	SCK-401-02-4F-4M
5 m	SCK-401-05-4F-4M
10 m	SCK-401-10-4F-4M