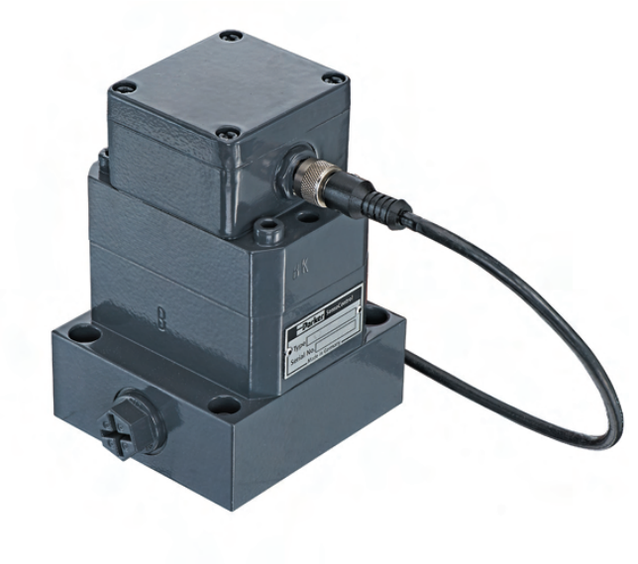
19 Volume meter SCVF

Volume meter SCVF

- Volume meter
- 4 measuring ranges of up to 300 l/min
- Measuring accuracy ± 0.5 % FS
- Pressure resistant up to 400 bar
- High viscosity range
- Low noise level



Volume meter for high-precision flow measurement in hydraulic plants

Function

The SCVF is a volume meter. The fluid flow drives a precision-manufactured pair of gearwheels.

The SCVF operates in a wide viscosity range. A variety of seals make many applications possible.

Applications

The high viscosity range enables measuring of all fluids that are pumpable and have a certain degree of lubricity:

- Mineral oils
- Hydraulic oils
- Greases
- Brake fluids (EPDM sealing)
- Skydrol (special version)

The volume meter SCVF is the ideal solution for accurately measuring flow across a large viscosity range.

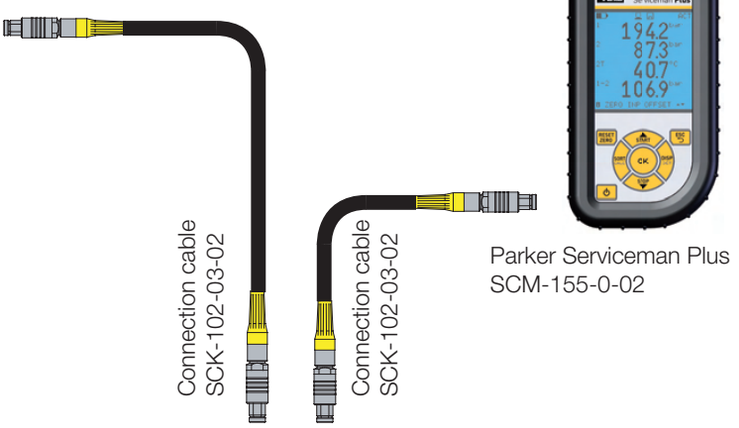
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19 Volume meter SCVF

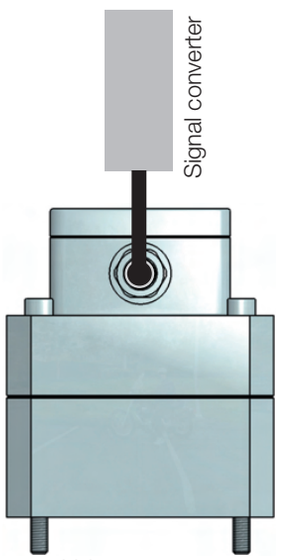
Function specifications



The Parker Service Master *Plus*
SCM-500-01-xx or
The Parker Service Master *Easy*
SCM-330/340



Parker Serviceman Plus
SCM-155-0-02



Volume meter
SCVF-xxx-00-02

19 Volume meter SCVF

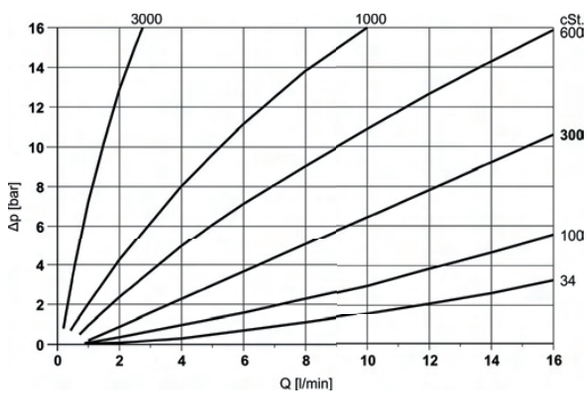
Technical data

Type	SCVF-015	SCVF-060	SCVF-150	SCVF-300
Flow range Q_N (l/min)	0.2…15	0.4…60	0.6…150	1.0…300
Maximum measuring range Q_{max} (l/min)	16.5	66	165	330
Operating pressure P_N (bar)	400	400	315	315
Overload pressure P_O (bar)	480	480	350	350
Connection	G3/8 BSPP	G1/2 BSPP	G1 BSPP	G1 BSPP
Weight (kg)	3.8	8.1	23	27

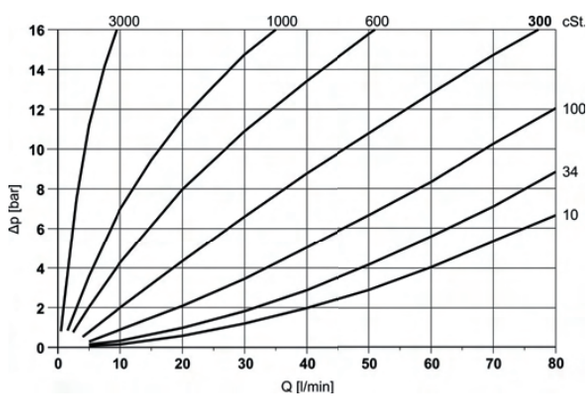
Accuracy	
Deviation from characteristic curve	± 0.5 % FS from 20 cSt.
Response time	after 400 ms
Material	
Housing	Casting GGG40
Seal	FKM
Parts in contact with media	FKM, steel, GGG40
Type of protection	IP65 EN 60529

Ambient conditions	
Ambient temperature (°C)	-15…+80
Storage temperature (°C)	-15…+80
Media temperature (°C)	-15...+120
Viscosity range	from approx. 1 cSt.
Filtration	20 µm

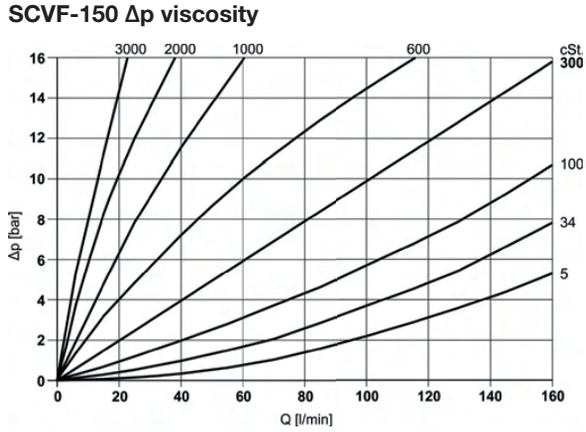
SCVF-015 Δp viscosity



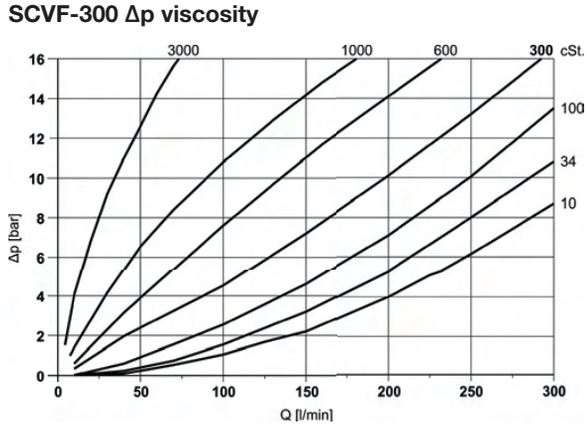
SCVF-060 Δp viscosity



SCVF-150 Δp viscosity



SCVF-300 Δp viscosity

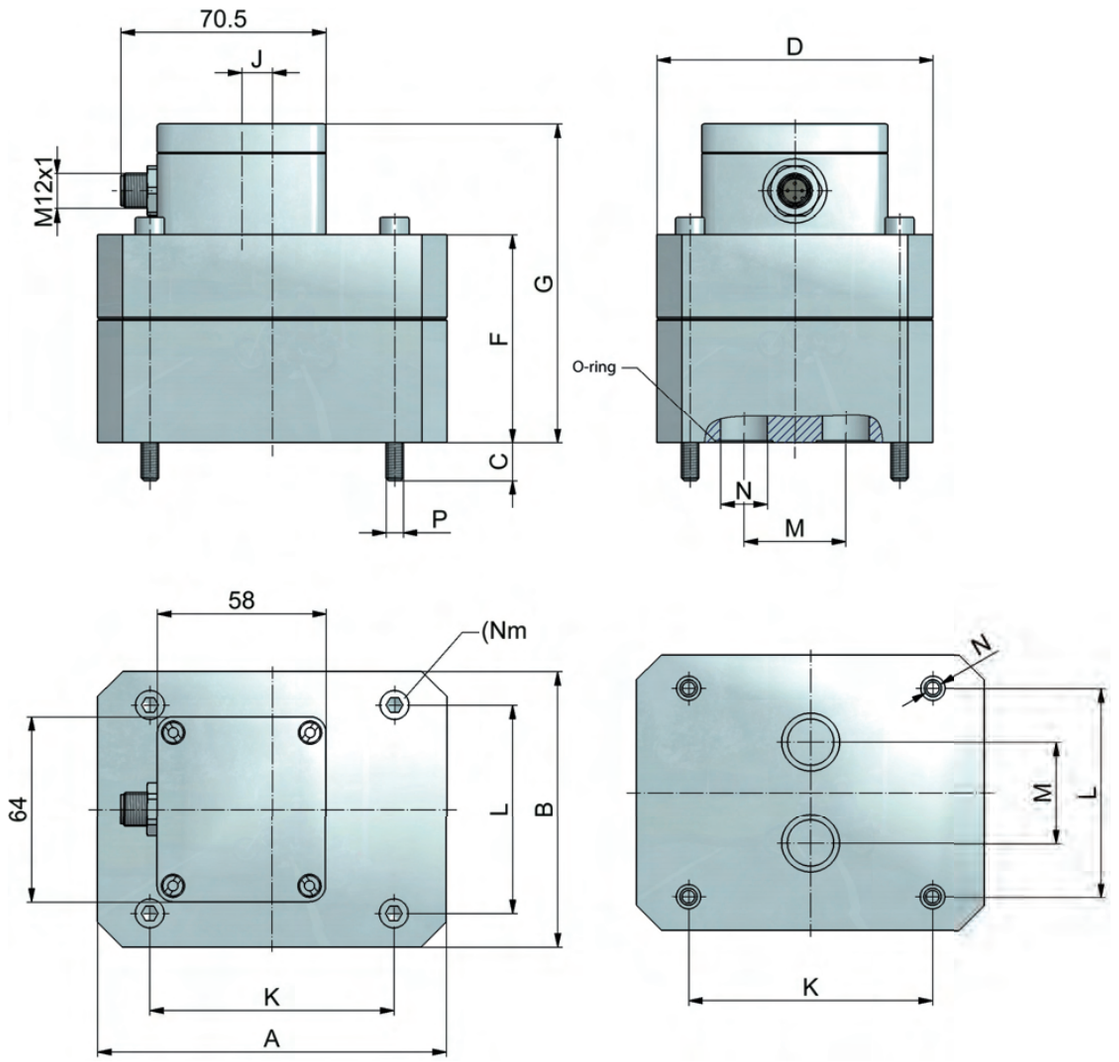


Sensors

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19 Volume meter SCVF

Dimensional drawings



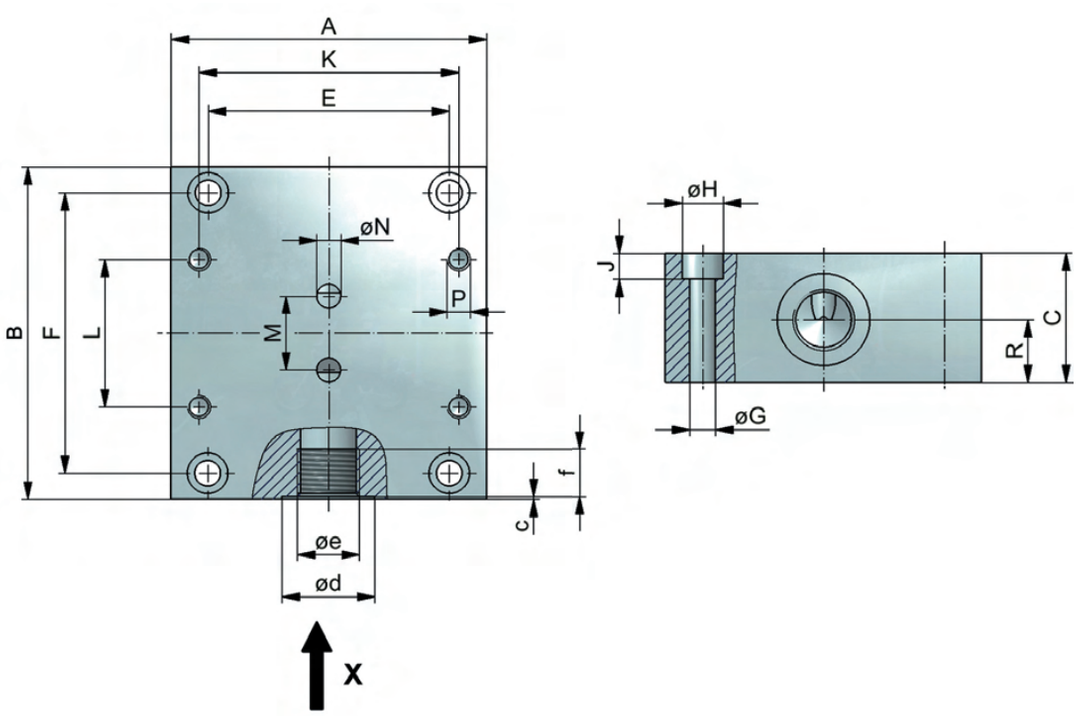
Type	Weight (kg)	Torque (Nm)	A	B	C	D	F	G	J	K	L	M	øN	P
SCVF-015	2	14	85	60	13	60	57	95	-	70	40	20	9	M6
SCVF-060	5.2	35	120	95	13	95	72	110	10,5	84	72	35	16	M8
SCVF-150	9	120	170	120	18	120	89	127	46.5	46	95	50	25	M12
SCVF-300	13	120	170	120	18	120	105	143	40	46	95	50	25	M12

All dimensions in mm

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19 Volume meter SCVF

Dimensional drawings and order codes



Type	(kg)	A	B	C	E	F	øG	øH	J	K	L	M	øN	P	R	C	ød	øe BSPP	F
SCVF-015	1.8	85	90	35	65	76	7	11	7	70	40	20	6.5	M6/t = 14	17	0.7	25	G3/8	13
SCVF-060	2.9	100	120	37	80	106	7	11	7	84	72	35	12	M8/t = 18	17.5	0.7	29	G1/2	15
SCVF-150 SCVF-300	14	160	165	80	140	145	9	15	9	46	95	50	25	M12/t = 24	28	1	42	G1	19

All dimensions in mm

Supply range and accessories

SCVF incl. connection plate with signal converter	Order code
0.1...015 l/min	SCVF-015-00-02
0.4...060 l/min	SCVF-060-00-02
0.4...150 l/min	SCVF-150-00-02
1.0...300 l/min	SCVF-300-00-02

SCK analogue connection cable	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

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