

Product Description

The Stauff SGF positive displacement flow meter and display units offer a comprehensive solution for high accuracy and high pressure flow monitoring. Units are available for flow ranges from 0.0005 to 138 GPM, and are suitable for pressures to 450 bar (6500 PSI). Media specific models are available for applications such as; hydraulic test stands, greases, ink, lubrication systems, diesel fuel, kerosene, and brake fluid.



Available Ranges

Type	Size	Geometric Tooth Volume cm ³	Measuring Range		K-Factor	
			LPM	GPM	Imp/Liter	Imp/Gal
SGF	0.02	0.02	0.002-2	0.0005-0.53	50000	189272
SGF	0.04	0.04	0.004-4	0.0011-1.06	25000	94636
SGF	0.1	0.1	0.01-10	0.0026-2.64	10000	37854.4
SGF	0.2	0.2	0.02-18	0.0053-4.76	5000	18927.2
SGF	0.4	0.4	0.03-40	0.0079-10.57	2500	9463.6
SGF	1	1	0.05-80	0.0132-21.13	1000	3785.44
SGF	2	2	0.1-120	0.0264-31.70	500	1892.72
SGF	4	4	1-250	0.2642-66.00	250	946.36
SGF	10	3.33	1.5-525	0.39-138.00	300	1135

Order Code

SGF - 0.04 - M - C - 1 - V - XX

Type	
SGF	Flow Monitoring System

Measuring Range	
See table above / Size column	

Connection Type	
M	Manifold Plate Mount ¹
R	Side Port Connection

Material	
C	Cast Iron ¹
S	Stainless Steel

Special Options	
Contact Stauff for details	

Seals	
V	Viton ¹
B	Buna
T	PTFE
E	EPDM

Bearing Type	
1	Ball Bearing ¹
2	Spindle - Bearing
3	Bronze - Plain Bearing
4	Carbon - Plain Bearing
5	Steel - Plain Bearing

NOTES:

¹ - Standard Stocked Option

Specifications			
Materials	Body	EN-GJS-400-15 (EN 1563) / Stainless steel 1.4305	
	Bearings	Ball / Plain / Bronze / Carbon / Steel	
	Seals	FPM / NBR / PTFE / EPDM	
Accuracy		±0.3% of measured value at > 20 cSt	
Repeatability		±0.05% of measured value at 20 cSt	
Input Voltage	V DC	10-28	
Max. Operating Pressures		PSI	BAR
	Cast Iron Housing	4568	315
	Stainless Steel Housing	6526	450
Medium Temperature		°F	°C
	Standard	-40 to +248	-40 to +120
	Ex-Design	-4 to +212	-20 to +100
	High Temperature	-40 to +410	-40 to +210
Viscosity Range	cSt	1-100,000	
Contact Stauff for full product specifications			

Mounting Plates for SGF Series with Connection Type P

Model "P" Connection	Bottom Port Mounting Plate	Side Port Mounting Plate	Port Connection
SGF-0.02, 0.04, 0.1, 0.2	SGFM-0.2-B-C-15	SGFM-0.2-S-C-15	-8 SAE
SGF-1, 2	SGFM-2-B-C-16	SGFM-2-S-C-16	-12 SAE
SGF-4	SGFM-4-B-C-17	SGFM-4-S-C-17	-16 SAE
SGF-10	SGFM-10-B-C-18	SGFM-10-S-C-18	-20 SAE

NOTE - OTHER CONNECTION AVAILABLE INCLUDE G1/4 UP TO G1-1/2, AND 1/4NPT UP TO 1-1/2NPT

STD1 Flow Rate Measuring Display

Function	Product Characteristics
<ul style="list-style-type: none"> - The STD1 processes incremental input signals from Stauff volume counters and other sensors - The input signals are filtered in the unit, then interpreted, and then converted into values of flow rate - The user may choose to have either flow rate or volume displayed - One analog output is available for further external processing 	<ul style="list-style-type: none"> - Programmable microprocessor - Flow rate and volume measurement - Selectable time basis (sec, min, hrs) - Selectable units for display - Selected analog outputs include ±10V, 0-10V, ±20mA, 0-20mA, and 4-20mA - Power supply voltage options include 230 VAC, 115 VAC, 24 VDC, and 12 VDC - Enclosure dimensions to DIN standard (96 x 48 x 120)
Other display type units are available, please contact Stauff for details	



Area of Application:

Flow and temperature measuring of fluids (mobile and industrial hydraulics and grease systems)

Characteristics:

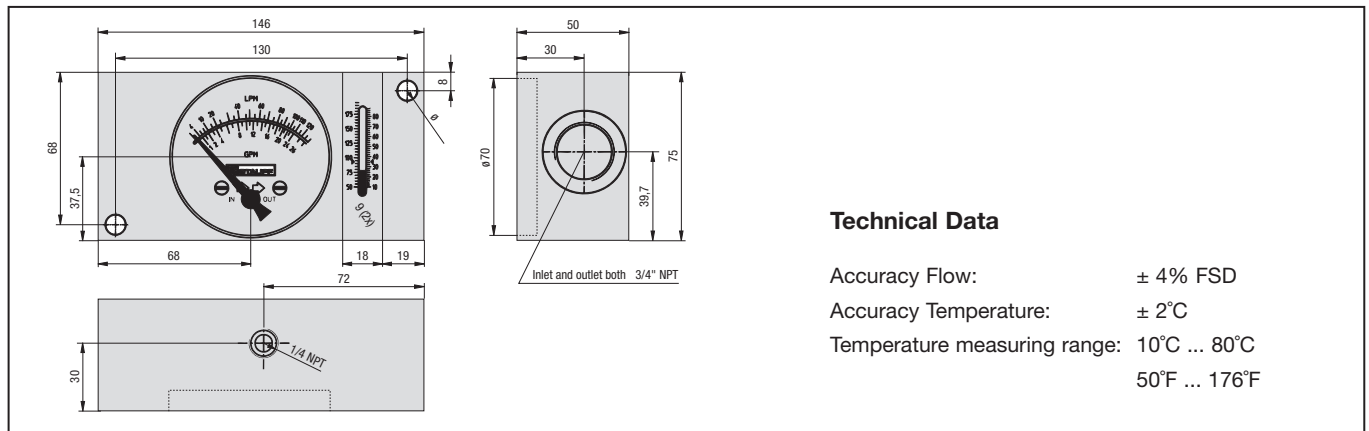
- Aluminum body
- Suitable for mineral oil, HFC fluids
- Designed for in-line installation
- Mechanical process (off the line)
- 1/4 NPT connection for pressure gauge (not included)
- 2 1/2" (63mm) Dial.
- Standard calibration for 150 SSU fluids
- Accuracy within $\pm 4\%$ full scale deflection

SDM indicator can offer a simultaneous measurement of pressure, flow and temperature (dual scale in °C and °F).

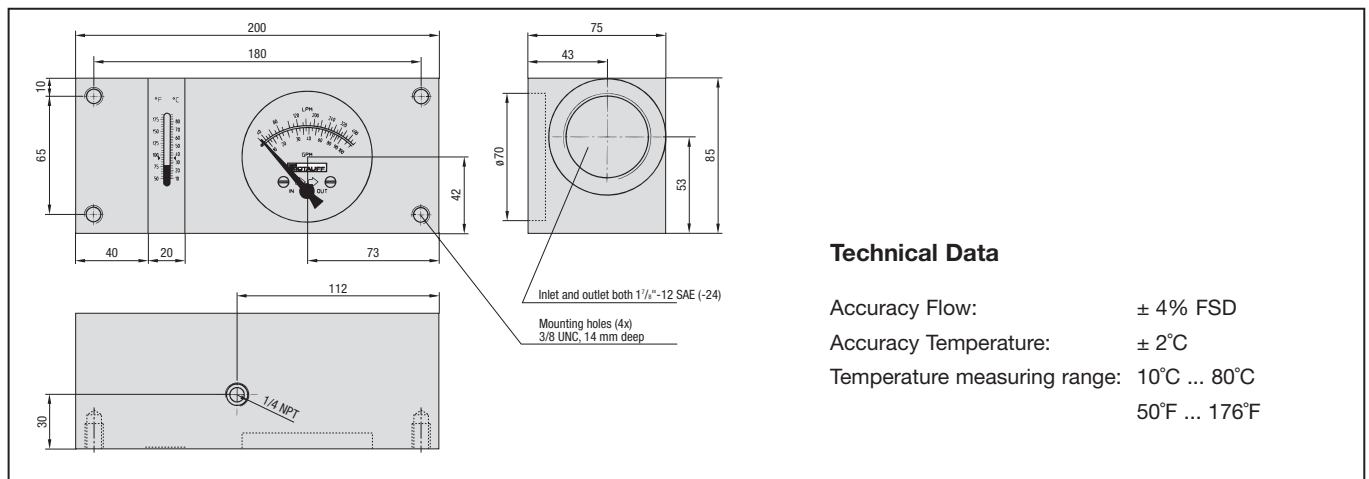
- Bronze versions for water available on request



Dimensions SDM-750



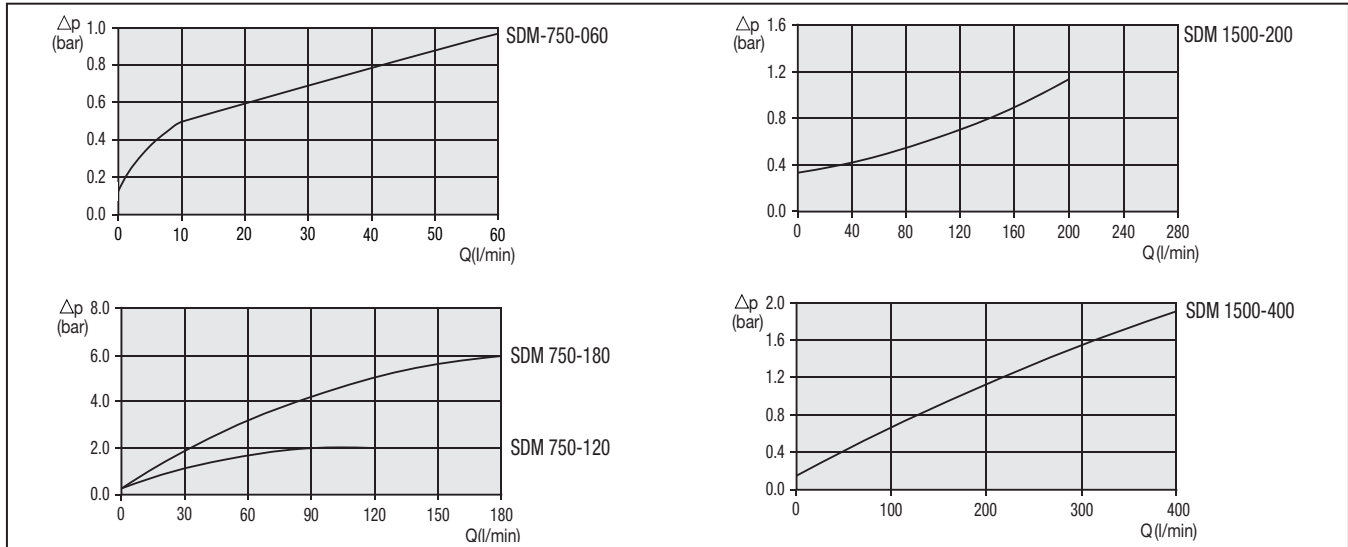
Dimensions SDM-1500



Technical Data

Part Number	Max Working Pressure		Flow Range		Weight		Connection
SDM-750N-A-060-T	6000 PSI	420 BAR	0.8-16 GPM	3 – 60 L/MIN	3 LBS	1.36 KG	3/4 NPT
SDM-750N-A-120-T	6000 PSI	420 BAR	1.3-32 GPM	5 – 120 L/MIN	3 LBS	1.36 KG	3/4 NPT
SDM-750N-A-180-T	6000 PSI	420 BAR	2.6-47 GPM	10 – 180 L/MIN	3 LBS	1.36 KG	3/4 NPT
SDM-1500S-A-200-T	4000 PSI	280 BAR	2.6-53 GPM	10 – 200 L/MIN	6.6 LBS	3.00 KG	1 7/8-12 SAE
SDM-1500S-A-400-T	4000 PSI	280 BAR	8-105 GPM	30 – 400 L/MIN	6.6 LBS	3.00 KG	1 7/8-12 SAE

Flow Curves



Ordering Code

SDM 750N A 120 T

Type	
SDM	Flow Indicator

Size	
750	Size 750N (3/4" NPT)
1500	Size 1500S (1-7/8" - 12 SAE)

Housing	
A	Aluminum
B	Bronze (special order)

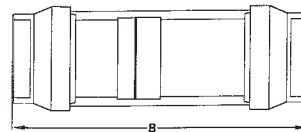
Thermometer	
T	with integrated thermometer (standard)

Flow	
060	0.8 - 16 gpm (3 - 60 lpm) - size 750
120	1.3 - 32 gpm (5-120 lpm) - size 750
180	2.6 - 47 gpm (10-180 lpm) - size 750
200	2.6 - 53 gpm (10-200 lpm) - size 1500
400	8 - 105 gpm (20-400 lpm) - size 1500

Flowtell In-Line Flow Meters

Specifications

- Accuracy Flow: ±2.5% of full scale in mid-third of flow range
±4.0% over entire flow range
- Repeatability: ±1% of full scale
- Max. Operating Pressure: 3500 PSI (240 bar)
- Max. Operating Temperature: 240°F (116°C)
- Material: Aluminum end Caps, Polycarbonate Window
Tube, Buna-N and Teflon Seals
- Suitable for Mineral-Based Hydraulic Fluid



Model No.	Port Size	Flow Range	Dimensions	
			A	B
FTBAGHB-05	1/2" NPT	0.5-5 GPM	1.88" (48 mm)	6.56" (167 mm)
FTBAGHC-30	3/4" NPT	3-30 GPM	2.38" (60 mm)	7.16" (182 mm)
FTBAGHK-75	1 1/4" NPT	8-75 GPM	3.5" (90 mm)	10.13" (258 mm)