

Quality System



Quality
Endorsed
Company
ISO 9002 Lic 3765
Standards Australia



®



Flowtell

In-line
FLOW MONITORS
&
CONTROLLERS

Quality and Service
worldwide

STAUFF



Walter Stauffenberg GmbH & Co. KG

P.O.Box 1745 · D-58777 Werdohl
Im Ehrenfeld 4 · D-58791 Werdohl
Tel. : + 49 (0) 2392 916-0
Fax: + 49 (0) 2392 2505
e-mail: sales@stauff.com
Internet: http://www.stauff.com

Australia:

Stauff Corporation (Pty.) Ltd.
P.O. Box 227
24-26 Doyle Avenue, Unanderra
Wollongong, N.S.W.
AUS-2526 Unanderra
Tel. : + 61 2 42 71 18 77
Fax: + 61 2 42 71 84 32

Brazil:

Stauff Brasil Ltda.
Avenida Gupe 10.767
Galpa" o 2, Bloco A
WT – Empresarial Parque Castelo Branco
BRA-Barueri – SP
CEP: 06422-120
Tel: +55 1147899020
Fax: +55 1147899021

China:

Stauff International Trading (Shanghai) Co., Ltd.
Shangdian Mansion, Pudong
331, Binzhou Road
CHN-200126 Shanghai
Tel. : + 86 21 58 45 65 60
Fax: + 86 21 58 45 66 80

France:

Stauff s.a.
230, Avenue du Grain d'Or
Z.I. de Vineuil-Blois Sud
F-41354 Vineuil-cedex
Tel. : + 33 2 54 50 55 50
Fax: + 33 2 54 42 29 19

India:

Stauff India Pvt. Ltd.
Gat. No. 2340
Pune-Nagar Road, Wagholi
IND-Pune - 412207
Tel. : + 91 20 705 19 90
Fax: + 91 20 705 19 89

Italy:

Stauff Italia s.r.l.
Via Pola 21/23
I-20034 Birone di Giussano
Tel. : + 39 0362 31 21 13
Fax: + 39 0362 33 55 36

Japan:

Ohtsuka Tec. Co. Ltd.
1-7-19 Minami Shinagawa
Shinagawa-Ku
JPN-Tokyo 140
Tel. : + 81 3 34 72 12 01
Fax: + 81 3 34 72 12 09

Canada:

Stauff Canada Ltd.
866 Milner Avenue
CAN-Scarborough, Ontario M1B 5N7
Tel. : + 1 416 282 46 08
Fax: + 1 416 282 30 39

USA:

Stauff Corporation
7 Wm. Demarest Place
USA-Waldwick, N.J. - 07463
Tel. : + 1 201 444 78 00
Fax: + 1 201 444 78 52

United Kingdom:

Stauff UK
332, Coleford Road
Darnall
GBR-Sheffield, S 9 5 P H
Tel. : + 44 1142 518 518
Fax: + 44 1142 518 519

Oil Solutions

PO Box 653 Castlemaine 3450

Phone 0421 336 009

Fax 03 9012 4332

sales@oilsolutions.com.au

www.oilsolutions.com.au

Stauff Test

Test Points

A complete range of test point connectors - adaptors - hoses and ancillary equipment for instant connection under pressures up to 630 Bar

- Diagnostic/pressure testing - venting - sampling
- Screw in or plug in versions compatible with all standard systems
- Ball seat or poppet seat style
- Carbon or stainless steel materials
- Widest possible thread and style connections
- Suitable for temporary or permanent system installation
- Microbore hoses 2mm - 4mm with wide selection of end thread/style connectors

Test Kits

- Digital pressure gauges
- Analogue dual scale pressure gauges
- Wide range of individual pressure gauges

Diagnostics

- PPC electronic tester - digital readout for pressure - peak pressure - differential pressure - flow - RPM
- Data Loggers
- Flow Testers
- Temperature Sensors
- Particle Monitors

In-Line Flow Monitors

Stauff's "FLOWTELL" in-line flow monitors and controllers offer a range of rugged flow rate gauges that are accurate and economical and are the perfect instruments for fixed in-line monitoring or for use as service tools for system commissioning.

"FLOWTELL" employs the well-established and reliable 'variable area orifice' measurement method together with a unique 'sharp edge technology' that ensures low pressure drops and high tolerance levels to changes in viscosity, resulting in repeatable flow rate measurements for both liquids and gases.

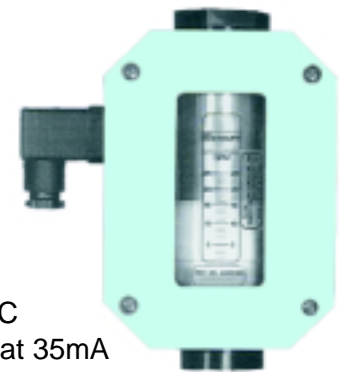
The product range is suitable for measuring Hydraulic Oils, Water and Air or Gas mediums and includes models for Phosphate Ester. A special range is also available for High Temperature applications. "FLOWTELL" is also available with the option of field-adjustable single or twin switches for High and Low flow rate alarms, or as a Transmitter giving a 4 - 20mA signal for system control capability.

To suit varying system demands, "FLOWTELL" monitors are available in a choice of materials comprising Aluminium, Brass or Stainless Steel with wetted parts materials to suit the fluid type.

"FLOWTELL" is capable of working in any plane and is read against the Dual Scale on the outer sleeve by the external magnetically coupled non-invasive annular cursor.

PERFORMANCE SPECIFICATIONS

Measuring Accuracy:	better than 4% Full Scale	
Repeatability:	1% of Full Scale	
Flow Range:	Fluids	0.5 to 550 l/min (0.05 to 150 GPM)
	Gases	1.5 to 1300 scfm (0.5 to 600 l/sec)
Normal Viscosity Range:	1 to 150 cSt (mm ² /sec)	
Working Pressures:	Alu. & Brass	240 bar
	St. Steel	410 bar
Temperature Range:	Standard	116°C
	High Temp.	204°C (Ultra high on request - 315°C)
Pressure Differentials:	Refer to ΔP graphs on Page 3	
Standard Calibration:	Oil: 40 cSt and 0.873 SG Water: tap water at 20°C and 1.0 SG Gas: air at 21°C and 7 bar	
Enclosure Rating:	IP 65	
Electric Specifications:		
Flow Rate Alarm	SPDT switch	10A 250VAC 0.5A 125VDC 0.25A 250VDC 3A 125VAC bulb load
Flow Rate Transmitter	Power	12 - 35 VDC
	Output	4 - 20mA, 0 - 5 VDC, 1 - 5 VDC
	Over-current protection	self-limiting at 35mA
	Resolution	10bit (0.1%)
	Isolation	Inherently isolated from the process
	Response Time	< 100 milliseconds



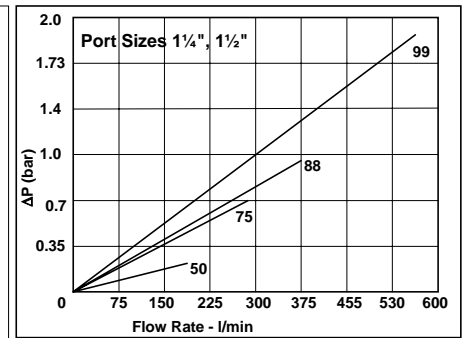
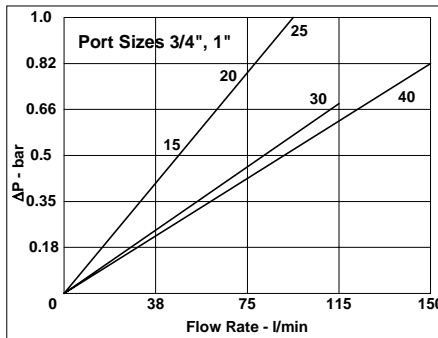
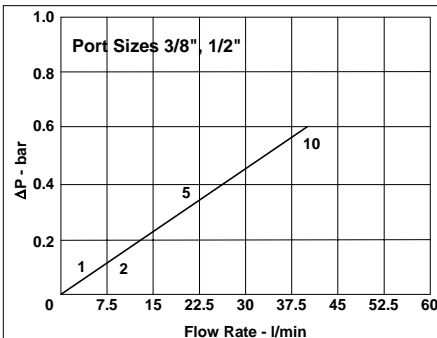
Part Number Build for Ordering

Type		Material	Pressure	Fluid	Port Size	Scale	
FT	B	A	6	H	3	20	
Type		Materials		Pressure		Fluid Medium	
B	Fluid Monitor	A	Aluminium	4	600psi (Gas, Alu. & Brass)	A	Air / Gas
G	Gas Monitor	B	Brass	5	1000psi (Gas, Stain. Steel)	H	Oil / Hyd. Fluid
H	High Temp.	S	Stainless Steel	6	3500psi (Fluids, Alu. & Brass)	W	Water
M	Single Switch						
N	Twin Switch						
P	Phosphate Est.						
R	Transmitter						

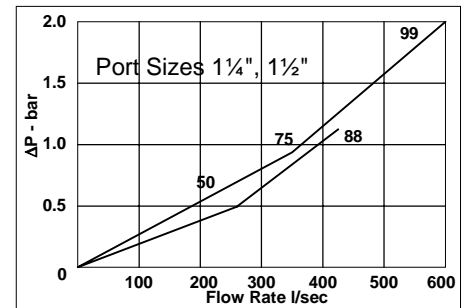
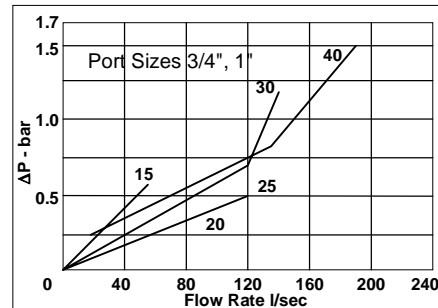
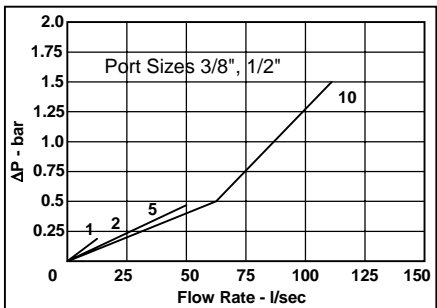
Scale	Port Size BSPP	Flow Range Fluids		Flow Range Air	
		GPM	l/min	SCFM	l/sec
01	3/8"	0.05 - 1	0.5 - 4	1.5 - 12	0.5 - 5.5
02	3/8"	0.2 - 2	1 - 8	4 - 23	2 - 10
05	1/2"	0.5 - 5	2 - 19	5 - 50	2.5 - 25
10	1/2"	1 - 10	4 - 38	10 - 100	5 - 45
15	3/4"	1 - 15	4 - 56	15 - 150	8 - 56
20	3/4"	2 - 20	0 - 75	20 - 215	10 - 100
25	3/4"	2 - 25	10 - 100	20 - 250	10 - 120
30	1"	3 - 30	10 - 115	30 - 330	15 - 140
40	1"	4 - 40	15 - 150	30 - 400	15 - 190
50	1 1/4"	5 - 50	20 - 190	30 - 470	15 - 220
75	1 1/4"	8 - 75	30 - 280	30 - 750	20 - 350
88	1 1/4"	10 - 100	50 - 375	150 - 900	75 - 425
99	1 1/2"	20 - 150	10 - 550	150 - 1300	70 - 600

Port Sizes	
1	3/8" BSPP
2	1/2" BSPP
3	3/4" BSPP
4	1" BSPP
5	1 1/4" BSPP
6	1 1/2" BSPP

ΔP curves at 40cSt. – Fluid Monitors



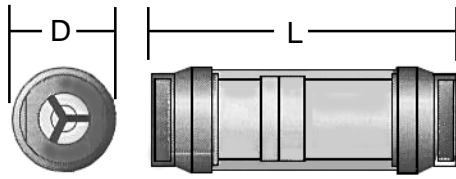
ΔP curves at 7 bar. – Gas Monitors



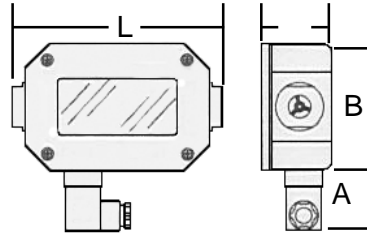
In-Line Flow Monitors

PHYSICAL DETAILS

Monitor



Switch Alarm / Transmitter



Port Size	"D"	"L"	Port Size	"L"	"B"	"W"	"A"
3/8", 1/2"	48	167	3/8", 1/2"	167	101	56	47
3/4", 1"	60	182	3/4", 1"	182	114	75	47
1 1/4", 1 1/2"	90	258	1 1/4", 1 1/2"	258	135	47	47

MATERIAL SPECIFICATIONS

Body Material	Aluminium	Brass	Stainless Steel
Wetted Components			
Casing, Ports & Cone	Aluminium	Brass	Stainless Steel
Seals	Buna-N	Buna-N	Viton with Teflon backup
Transfer Magnet	Teflon coated Alnico	Teflon Coated Alnico	Teflon Coated Alnico
Floating Disc	Stainless Steel	Stainless Steel	Stainless Steel
Other Internal Parts	Stainless Steel	Stainless Steel	Stainless Steel
Non-wetted Components (Flow Monitors)			
Window Tube	Polycarbonate	Polycarbonate	Polycarbonate
Window Seals	Buna-N	Buna-N	Buna-N
(Transmitters and Alarms)			
Enclosure & cover	Aluminium	Aluminium	Aluminium
Seals	Buna-N	Buna-N	Buna-N
Window	Pyrex	Pyrex	Pyrex
DIN connector	Polyamide	Polyamide	Polyamide

N.B. (1) The outer polycarbonate window tube is a replaceable part in case damage or scratching makes visibility difficult. Contact Stauff for specific part numbers.
 (2) A digital readout is available for use with the transmitter to permit remote flow readings.

Additional diagnostic equipment available from Stauff



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STAUFF CORPORATION PTY LTD

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HEAD OFFICE

24 - 26 Doyle Avenue
 UNANDERRA NSW 2526
 P.O. Box 227
 UNANDERRA NSW 2526
 Tel. (02) 4271 1877
 Fax.(02) 4271 8432
 E-mail: sales@stauff.com.au
 http://www.stauff.com

ADELAIDE

1/3 Endeavour Drive
 PORT ADELAIDE SA 5015
 P.O. Box 208
 PORT ADELAIDE SA 5015
 Tel. (08) 8341 2260
 Fax.(08) 8341 1604

BRISBANE

463 Boundary Road
 RICHLANDS QLD 4077
 P.O. Box 20
 RICHLANDS QLD 4077
 Tel. (07) 3217 0444
 Fax.(07) 3217 0300

MELBOURNE

3B 14 - 16 White Street
 OAKLEIGH EAST VIC 3166
 P.O. Box 453
 MULGRAVE VIC 3170
 Tel. (03) 9543 5411
 Fax.(03) 9543 5422

SYDNEY

27B Davis Road
 WETHERILL PARK
 NSW 2164
 P.O. Box 7180
 WETHERILL PARK DC
 NSW 2164
 Tel. (02) 9725 2733
 Fax. (02) 9725 2744

AUCKLAND

STAUFF CORP (NZ) Ltd
 Unit J 150 Harris Road
 EAST TAMAKI
 P.O. Box 58517
 GREENMOUNT
 Tel. (09) 271 4812
 Fax. (09) 271 4832
 E-mail: sales@stauff.co.nz

