Quality System

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Company
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Standards Australia

STAUFF®

STAUFF

Flowtell

In-line FLOW MONITORS & CONTROLLERS

Quality and Service worldwide

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.

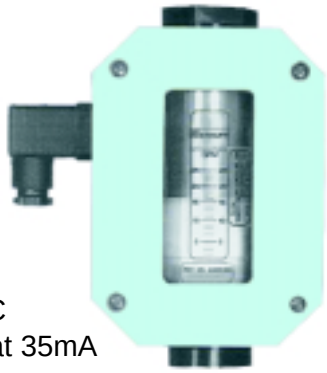
To suit varying system demands, "FLOWTELL" monitors are available in a choice of materials comprising Aluminium, Brass or Stainless Steel with wetted parts materials to suit the fluid type.

"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 to1300 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

B	Fluid Monitor
G	Gas Monitor
H	High Temp.
M	Single Switch
N	Twin Switch
P	Phosphate Est.
R	Transmitter

Materials

A	Aluminium
B	Brass
S	Stainless Steel

Pressure

4	600psi (Gas, Alu. & Brass)
5	1000psi (Gas, Stain. Steel)
6	3500psi (Fluids, Alu. & Brass)
7	6000psi (Fluids, Stain. Steel)

Fluid Medium

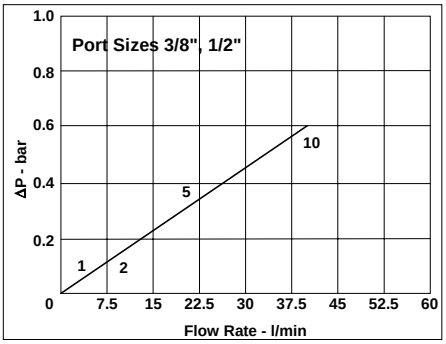
A	Air / Gas
H	Oil / Hyd. Fluid
W	Water

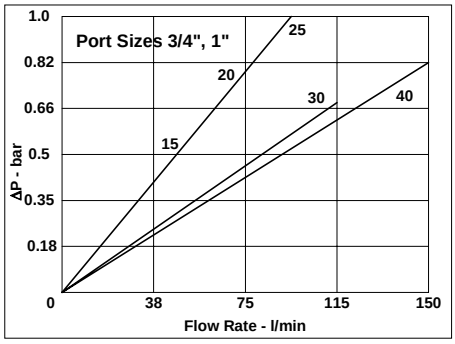
Scale	Port Size BSPP	Flow Range Fluids GPM	Flow Range Fluids l/min	Flow Range Air SCFM	Flow Range Air l/sec
01	3/8”	0.05 - 1	0.5 - 4	1.5 - 12	0.5 - 5.5
02	3/8”	0.2 - 2	1 - 8	4 - 23	2 - 10
05	1/2”	0.5 - 5	2 - 19	5 - 50	2.5 - 25
10	1/2”	1 - 10	4 - 38	10 - 100	5 - 45
15	3/4”	1 - 15	4 - 56	15 - 150	8 - 56
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	1¼”	5 - 50	20 - 190	30 - 470	15 - 220
75	1¼”	8 - 75	30 - 280	30 - 750	20 - 350
88	1¼”	10 - 100	50 - 375	150 - 900	75 - 425
99	1½”	20 - 150	10 - 550	150 - 1300	70 - 600

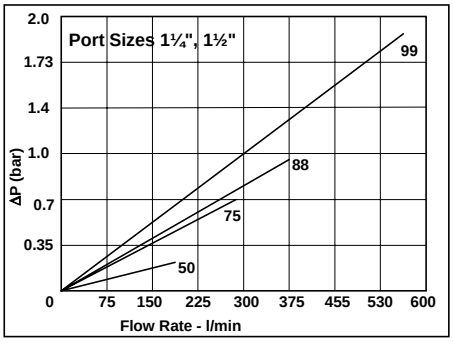
Port Sizes

1	3/8” BSPP
2	1/2” BSPP
3	3/4” BSPP
4	1” BSPP
5	1¼” BSPP
6	1½” BSPP

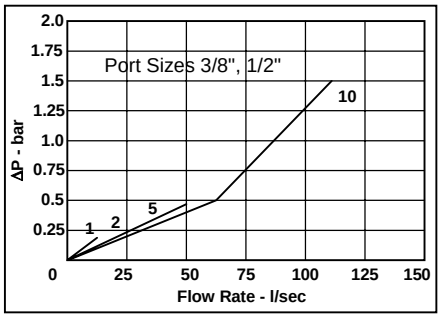
ΔP curves at 40cSt. – Fluid Monitors

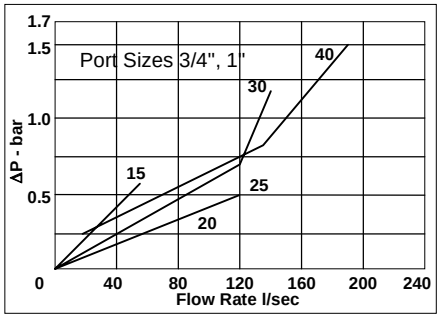


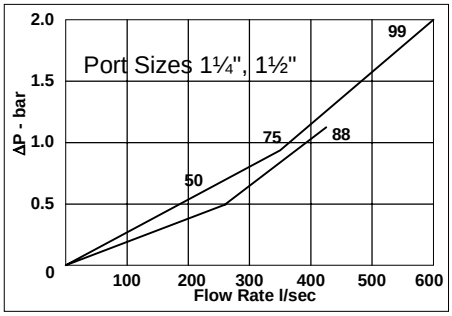




ΔP curves at 7 bar. – Gas Monitors



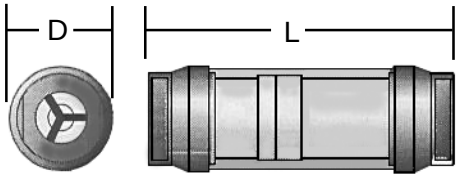




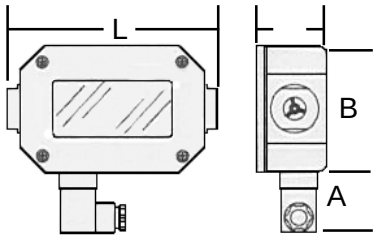
In-Line Flow Monitors

PHYSICAL DETAILS

Monitor



Switch Alarm / Transmitter



Port Size	"D"	"L"
3/8", 1/2"	48	167
3/4", 1"	60	182
1¼",1½"	90	258

Port Size	"L"	"B"	"W"	"A"
3/8", 1/2"	167	101	56	47
3/4", 1"	182	114	75	47
1¼",1½"	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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