

Flow Monitor

DUM



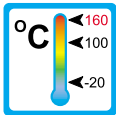
Operation

The flow monitors type DUM operate with the float measuring principle



Application

The flow monitors type DUM are used for monitoring volumeflow of liquid media.



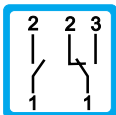
Areas of application:



– Mechanical Engineering e.g. Weldingmachinery and Laserplants



– Medicine technology



– Pharma industry

– Chemical industry

– Research and development



Features

The DUM series proves itself through reliable function and easy handling. Further characteristics of this sturdy type are:

- universal orientation
- high reliability
- high switch accuracy
- wide switch range
- infinitely variable switchpoint adjustment through user
- EX-version to ATEX available
- high pressure resistance
- Threaded connection
Special threads on request

Installation hints

The installation of the flow monitor can be done in any way in the system. The flow direction must be observed.

The flow monitor must not be used as a supporting part in a pipeconstruction!

The medium must not contain any solid particles! We recommend the installation of strainers type SFD or SFM.

External magnetic fields influence the switch contact. Keep adequate distance to those magnetic fields (e.g. electromotors)!

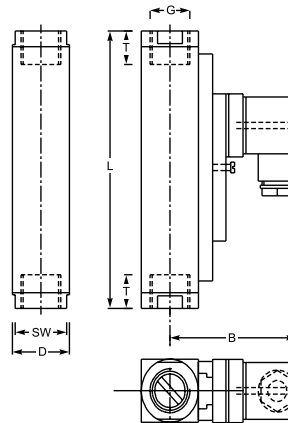
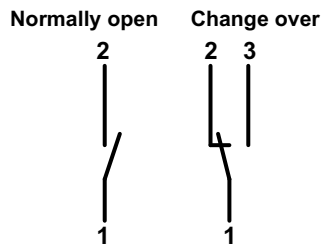
The operating instruction for DUM must be observed under any circumstances!

DUM 1 0002 10-04 E M



Measuring Ranges, Technical Data

Connection diagram



Summary of types DUM

Type	Switch range* H ₂ O [l/min]	Overall dimensions mm							Weight approx. [g]				
		SW	D	B	G	DN	T	L					
DUM - 4	0,2 - 4	27	30	71	1/4"	8	14	130	850				
DUM - 5	0,6 - 5				3/8"								
DUM - 8	0,5 - 8				1/2"								
DUM - 14	1 - 14												
DUM - 28	1 - 28												
DUM - 40	2 - 40	27	30	71	1/2"	15	14	148	900				
DUM - 55	4 - 55				3/4"								
DUM - 70	1 - 70	34	40	76	3/4"	20	18	152	1400				
DUM - 90	8 - 90				1"					25	19	156	1100
DUM - 110	5 - 110												
DUM - 150	10 - 150	40	40	76	1 1/4"	32	21	200	2750				
DUM - 220	35 - 220	50	50	81	1 1/4"	32	21	200	3000				
DUM - 250	35 - 250	60	60	82	1 1/2"	40	24	200	3800				

* Other media on request

Operating data	DUM	
Operating pressure:	PN 200 bar (Brass)	PN 300 bar (Stainless Steel)
Pressure drop:	0,02 - 0,8 bar	
Maximum temperature:	100 °C (optional 160 °C)	
Accuracy:	± 5% of full scale	
Electrical data	Normally open	Change over
IP 65 (plug connection DIN 43650)	max. 250V • 3A • 100VA	max. 250V • 1,5A • 50VA
IP 67 (1 m sealed in cable)		
Atex II 2G EEx m II T6 (2 m sealed in cable)	max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx m II T6 (2 m sealed in cable)	max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx ia IIC T6 (2 m sealed in cable)	max. 45V • 1A	max. 45V • 1A
Output signal:	The contact opens / changes, when the flow falls below the set point.	
Power supply:	Not required (potentialfree reed contact)	
Other plug types or cable lengths on request		
Material	Brass	Stainless Steel
Wetted parts:	Brass nickel-plated	1.4571
Spring: (wetted part)	1.4571	1.4571
Gaskets: (wetted part)	Perbunan (optional Viton, EPDM)*	Viton (optional Perbunan, EPDM)*

* Other gasket materials on request

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