

# Flow Monitor Flow Indicator

## DWG



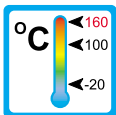
### Operation

The flow monitors and indicators type DWG operate with the float measuring principle



### Application

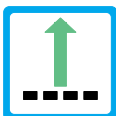
The flow monitors and indicators type DWG are used for indicating and monitoring volumeflow of liquid media.



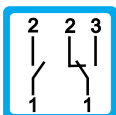
Areas of application:



– Coolingsystems and cooling-circuits



– Mechanical Engineering  
e.g. Weldingmachinery and Laserplants



– Medicine technology

– Pharma industry

– Chemical industry

– Research and development



### Features

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

- high reliability
- high switch accuracy
- wide switch range
- infinitely variable switchpoint adjustment through user
- EX-version to ATEX available
- Scales are burned into the sightglass
- Threaded connection  
Special threads on request

### Installation hints

The instrument must be installed vertically in the system. The flow direction is from bottom to top.

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 strainer type SFD or SFM.

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

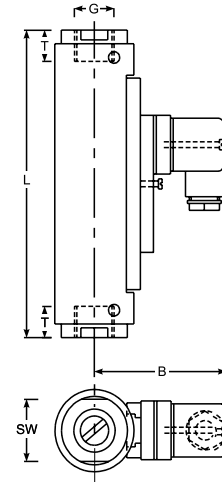
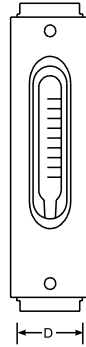
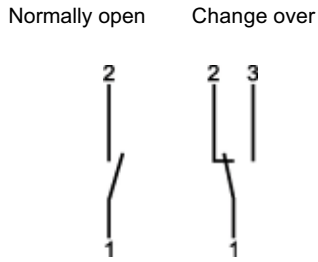
The operating instruction for DWG must be observed under any circumstances!

DWG 1 0002 08-04 E M



# Measuring Ranges, Technical Data

## Connection diagram



## Summary of types DWG

Type	Switch range* H <sub>2</sub> O [l/min]	Overall dimensions mm							Weight approx. [g]
		SW	D	B	G	DN	T	L	
DWG - 1,5	0,1 - 1,5	32	43	73	1/4"	8	14	132	625
DWG - 3	0,2 - 3,0				3/8"	10	14	135	
DWG - 8	0,3 - 8,0				1/2"	15	15	135	
DWG - 12	1 - 12	32	43	73	1/2"	15	15	163	650
DWG - 18	2 - 18				3/4"	20	16	167	
DWG - 35	3 - 35	41	50	76	3/4"	20	18	164	850
DWG - 50	4 - 50				1"	25	19	184	

\* Other media on request

Operating data		DWG	
Operating pressure:		PN 10 bar	
Pressure drop:		0,01 - 0,2 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 (1m sealed in cable)			
Atex II 2G EEx m II T6 (2m sealed in cable)		max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx m II T6 (2m sealed in cable)		max. 250V • 2A • 60VA	max. 250V • 1A • 30VA
EEx ia IIC T6 (2m 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 contacts)	
Other plug type or cable length on request			
Material		Brass	Stainless Steel
Wetted parts:		Brass nickel-plated	1.4571
Float: (wetted part)		Brass nickel-plated	1.4571
Sight glass: (wetted part)		Duran 50	
Gaskets: (wetted part)		Perbunan (optional Viton, EPDM) *	Viton (optional Perbunan, EPDM) *
Housing: (non wetted part)		Aluminium anodized	

\* Other gasket materials on request

DWG 2 0006 08-04 E.M

