

Flow meters

Especially good value!

PN 1

up to 30 bar

PN 16

Display range 1 - 18 I/min. 2 - 30 l/min. 5 - 45 l/min. 10 - 75 l/min.

Plastic flow indicators

Materials: Body: Polycarbonate, impeller: Polypropylene, filter: Polypropylene 70 to 130 μ m Temperature range: 0°C to max. +55°C

Installation position: Arbitrarily, flow direction, only into one direction

Media: Water

Advantages: • In-built, back flushable filters, economical price, also indicates the lowest flow rates

	Thread	
Туре	internal Installation length	Diameter
DMA 14 K	G 1/4" 58	24



Materials: Body: Brass nickel-plated, impeller: PA 66, inspection glass: Pyrex

Temperature range: Up to max. +90°C Installation position and flow direction: Arbitrary

Media. Aqueous, non-aggressive ilquids						
	Flow H ₂ O	Thread			Operating	Replace.
Туре	[l/min]	internal	Length	Width	pressure	inspection glas
DMA 14 MSV	0.6 - 3	G 1/4"	66	37	30 bar	DMA 14 REP
DMA 38 MSV	1.1 - 5.5	G 3/8"	94	58	30 bar	DMA 38 REP
DMA 12 MSV	1.3 - 6.3	G 1/2"	94	58	30 bar	DMA 12 REP
DMA 34 MSV	1.6 - 17	G 3/4"	105	67	30 bar	DMA 34 REP
DMA 10 MSV	2.2 - 27	G 1"	105	67	30 bar	DMA 10 REP
DMA 114 MSV	9 - 55	G 1 1/4"	156	80	15 bar	DMA 114 REP
DMA 112 MSV	11 - 60	G 1 1/2"	156	80	15 bar	DMA 112 REP



Viscosity compensating flow meters

Application: Flow meters measure the flow quantity at a specific point in a machine or a system. It is read out directly from the device.

Materials: Body: Polysulphone, spring: AISI 301, seal: NBR (for oil: klingerit-Oilit)

Temperature range: 0°C to max. +120°C

Connection: G 1" MT

Measurement principle: Spring-loaded, float, installation position: Arbitrary

Advantages: • Scale does not have to be adjusted to medium and pressure.

Type for water		Type for oil as	
as medium	Display range	medium (100 cSt)	
DM 20 K	2 - 20 l/min.	DM 18 K	
DM 35 K	5 - 35 l/min.	DM 30 K	
DM 50 K	5 - 50 l/min.	DM 45 K	
DM 80 K	10 - 80 l/min.	DM 75 K	
DM 100 K	20 - 100 l/min.		



M 12 - Plug

OIO-Link

Air consumption meter (compressed air meter)

Function: With the compressed air meter, the consumption volume, flow volume, velocity of flow and average tempera ture of compressed air can be obtained and evaluated effectively. Each unit is fitted with two switching outputs, each of which can be programmed as an analogue or pulse output for external recording of the readings. The following readings can be directly read from the device: Peak consumption, total consumption, instantaneous consumption. The display and units can be switched between I/min and m³/min (at STP).

Operating voltage: 18-30V DC

Display unit/measuring unit: NI/min or Nm3/h

Response time: <100 ms

Measurement error: $Air class\ 141:\pm3\%$ of reading or +0.3% of the measuring range end value, $air\ class\ 344:\pm6\%$ of reading or +0.6% of the measuring range end value

Current loading capacity/power input: 2 x 250 mA / < 100 mA

Analogue output: 4-20 mA, max. 500 Ohm

Pulse output: 1 NI or 1 Nm3 per impulse (impulse length 2 or 100 ms adjustable)

Outputs: OUT1: Control output (NC contact/NO contact) PNP, programmable hysteresis or switching range, IO-Link, OUT2: Control output (NC contact/NO contact) PNP, programmable hysteresis or switching range or analogue (4-20 mA) or pulse output (2 or 100 ms pulse duration)

Display: 4 digit LED display

Protection class: IP 65, protection class III

Electrical connection: M12 push-in connector (4-pin)



- · Smallest leaks are identified and can be eliminated early
 - Air consumption quantities can be allocated to production units
 - Display for total consumption or current consumption on site
 - · Switch, pulse or analogue output for external further processing
 - Maintenance intervals can be specified depending on use • Pressure loss-free measurement using special design of the sensor
- · Response time in milliseconds
- \bullet Precise measurement regardless of the pressure and temperature (max. $+60^{\circ}\text{C})$
- Reading and saving of current process values and changing of parameter settings via IO-Link possi-

_	Thread			Height	Measuring range	Measuring range
Туре	male	DN	Length	(incl. tube)	Nm³/h	NI/min
LVM 12	R 1/2"	15	300	77	0.25 - 75	4 - 1250
LVM 10	R 1"	25	475	89	0.75 - 225	12.5 - 3750
LVM 112	R 11/2"	40	475	120	1.3 - 410	22.2 - 6830
LVM 20	R 2"	50	475	133	2.3 - 700	39 - 11670
Accessories						
LVM NETZ	Power supply for air consumption meter (optional to use with LVM without control outputs)					





All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C

Gardena

PE hoses from page 192