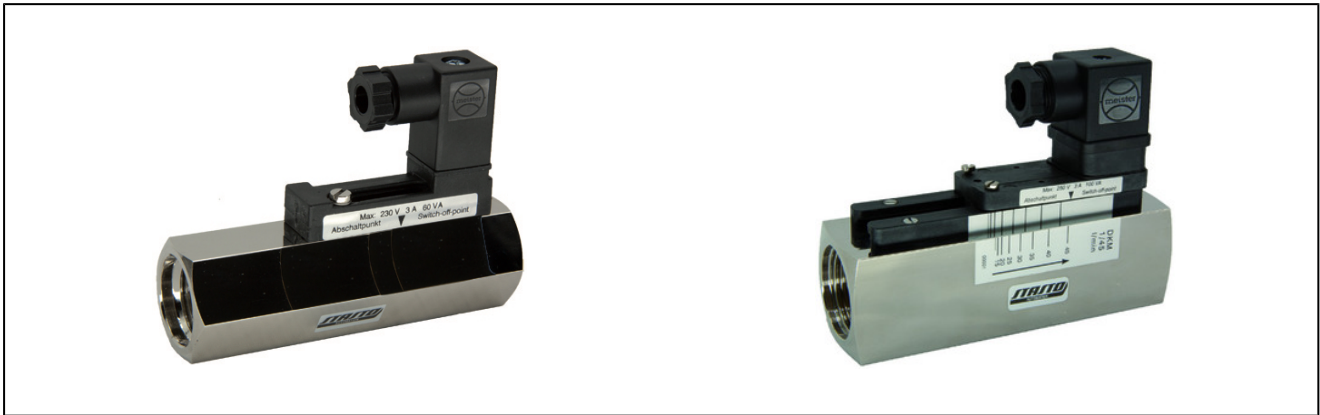
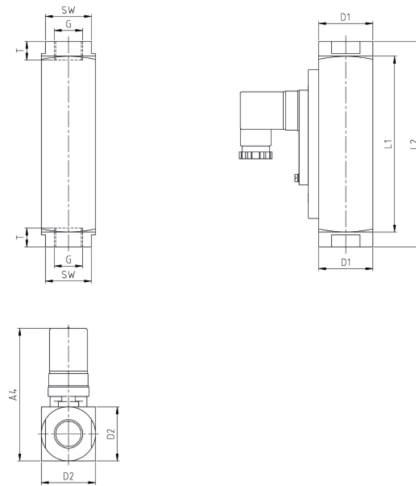


flow monitors made of brass for oils series FM03-N



design	flow monitors with reed switch, solid metall version, float measure principle, pressure independend, viscosity compensated
connection	G1/4" ... G1"
materials	body nickel plated brass, inner parts brass, spring stainless steel AISI 316Ti, magnet hard ferrite, seals FKM
application	oil without solid or magnetic particles
viscosity	30...600cSt
medium temperature	-20...+120°C
ambient temperature	-20...+120°C
switch unit	NO contact (change-over contact as special version)
pressure setting	adjustment of the switch point is made by sliding the switch contact
accuracy	±10% from full scale
max. operating pressure	250 respectively 300bar see table
pressure drop	see table
max. voltage	see table
max. current	see table
power	see table
protection class	IP65 according to EN 60529 by correctly mounted cable inlet (protection against dust and splash water)
bracket	installed into rigid pipework
mounting position	any
scope of supply	including connector
special version	seals NBR or EPDM, electric contact for media temperatures up to 160°C, more contacts, change-over contact, switches in ATEX, switches with UL-certificate, IP67 with molded cable 1m respectively reed switch with M12 connection
direction for use	a moderating section has to be installed - 10xDN before and 5xDN after the unit. it is not allowed to reduce the tube diameter before the unit. the used reed switches are very sensitive in case of overload. it is not allowed to pass over the limits of voltage, current or power. appropriate contact protection measures are to be implemented depending on the electrical load.

dimensions, reed switch 30x70, connector acc. to EN175301-803-form A



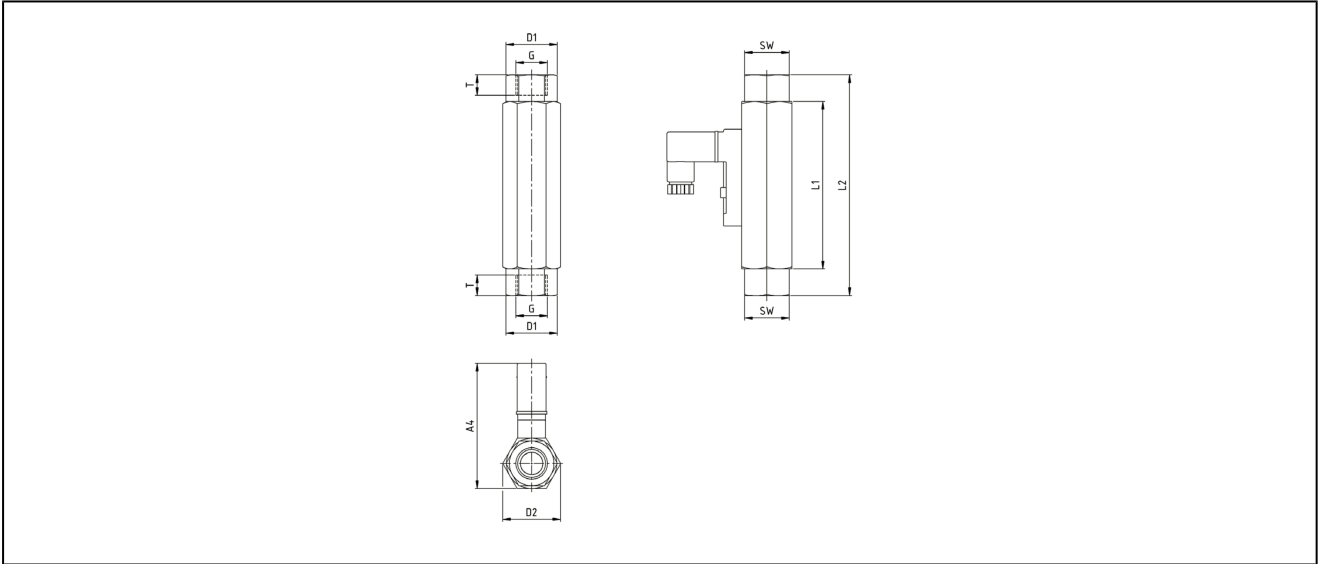
connection G	nominal diameter DN[mm]	A4	D1	D2	L1	L2	T	SW	weight [app. g]
G1/4"	8	98	40	40	130	152	10	34	1500
G1/2"	15	98	40	40	130	152	14	34	1425
G3/4"	20	98	40	40	130	152	15	34	1340
G1"	25	98	40	40	17	130	18,5	40	1160

connection	switching range [l/min]*	pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	type
G1/4"	0,5...1,5	0,02...0,4	250	250	3	100	FM03-14-N-1,5
G1/4"	1...4	0,02...0,4	250	250	3	100	FM03-14-N-4
G1/2"	0,5...1,5	0,02...0,4	250	250	3	100	FM03-12-N-1,5
G1/2"	1...4	0,02...0,4	250	250	3	100	FM03-12-N-4
G1/2"	2...8	0,02...0,4	250	250	3	100	FM03-12-N-8
G1/2"	3...10	0,02...0,4	250	250	3	100	FM03-12-N-10
G1/2"	5...15	0,02...0,4	250	250	3	100	FM03-12-N-15
G1/2"	8...24	0,02...0,4	250	250	3	100	FM03-12-N-24
G3/4"	0,5...1,5	0,02...0,4	250	250	3	100	FM03-34-N-1,5
G3/4"	1...4	0,02...0,4	250	250	3	100	FM03-34-N-4
G3/4"	2...8	0,02...0,4	250	250	3	100	FM03-34-N-8
G3/4"	3...10	0,02...0,4	250	250	3	100	FM03-34-N-10
G3/4"	5...15	0,02...0,4	250	250	3	100	FM03-34-N-15
G3/4"	8...24	0,02...0,4	250	250	3	100	FM03-34-N-24
G3/4"	10...30	0,02...0,4	250	250	3	100	FM03-34-N-30
G3/4"	15...45	0,02...0,4	250	250	3	100	FM03-34-N-45
G3/4"	20...60	0,02...0,4	250	250	3	100	FM03-34-N-60
G1"	0,5...1,5	0,02...0,4	250	250	3	100	FM03-10-N-1,5
G1"	1...4	0,02...0,4	250	250	3	100	FM03-10-N-4
G1"	2...8	0,02...0,4	250	250	3	100	FM03-10-N-8
G1"	3...10	0,02...0,4	250	250	3	100	FM03-10-N-10
G1"	5...15	0,02...0,4	250	250	3	100	FM03-10-N-15
G1"	8...24	0,02...0,4	250	250	3	100	FM03-10-N-24
G1"	10...30	0,02...0,4	250	250	3	100	FM03-10-N-30
G1"	15...45	0,02...0,4	250	250	3	100	FM03-10-N-45
G1"	20...60	0,02...0,4	250	250	3	100	FM03-10-N-60
G1"	30...90	0,02...0,4	250	250	3	100	FM03-10-N-90
G1"	35...110	0,02...0,4	250	250	3	100	FM03-10-N-110

* the indicated switching values apply with decreasing flow, for oils with a density of 0.9kg/dm³ and with flow direction from bottom to top. other densities or other installation situations reduce the accuracy. special scales for different media, operating conditions and installation situations are available on request.

** switching capacity change-over contact: 250V, 1,5A, 3...50VA

dimensions, reed switch 15x50, connector acc. to EN175301-803-form C



connection G	nominal diameter DN[mm]	A4	D1	D2	L1	L2	T	SW	weight [app. g]
G1/4"	8	67	27,7	31,2	90	98	10	24	350
G3/8"	10	67	27,7	31,2	90	118,6	11	24	350
G1/2"	15	67	-	31,2	90	-	14	27	350

connection	switching range [l/min]*	pressure drop [bar]	max. operating pressure [bar]	max. voltage [V]**	max. current [A]**	max. power [VA]**	type
G1/4"	0,5...1,6	0,02...0,2	300	230	3	60	FM03-14-N-1,6
G3/8"	0,5...1,6	0,02...0,2	300	230	3	60	FM03-38-N-1,6
G1/2"	0,5...1,6	0,02...0,2	300	230	3	60	FM03-12-N-1,6
G1/2"	0,8...3	0,02...0,2	300	230	3	60	FM03-12-N-3
G1/2"	0,8...7	0,02...0,2	300	230	3	60	FM03-12-N-7

* the indicated switching values apply with decreasing flow, for oils with a density of 0.9kg/dm3 and with flow direction from bottom to top. other densities or other installation situations reduce the accuracy. special scales for different media, operating conditions and installation situations are available on request.

** switching capacity change-over contact: 250V, 1,5A, 3...50VA

electrical connection

NO contact	change-over contact
Diagram of a normally open (NO) contact. It shows a vertical line with a small gap in the middle, representing the switch. The terminals are labeled 1 at the bottom and 2 at the top.	Diagram of a change-over contact. It shows a vertical line with a small gap in the middle, representing the switch. The terminals are labeled 1 at the bottom, 2 at the top left, and 3 at the top right.

illustrations are non-binding

all designs, configurations, measurements and materials are subject to change without prior notice