RW/DKG-1

Operation

- Float/spring measuring principle

Applications

Resistant to contamination

- Mechanical engineering
- Central lubrication
- Transformers

Features

- Any working position
- High reliability
- High switching accuracy
- Viscosity compensation
- Infinitely variable switching point adjustment by operator
- EX-version according to the ATEX directive
- UL versions
- Sight glass scales
- Threaded connections, special threads on request
- IP65 mechanical & elctrical components
- IP50 indication box

SPECIFICATION

Max. operating pressure	10 bar
Pressure drop	0.02 – 0.4 bar
Viscosity range	30 cSt - 600 cSt
Max. temperature	120 °C (optional 160 °C)
Measuring accuracy	±10 % of full scale

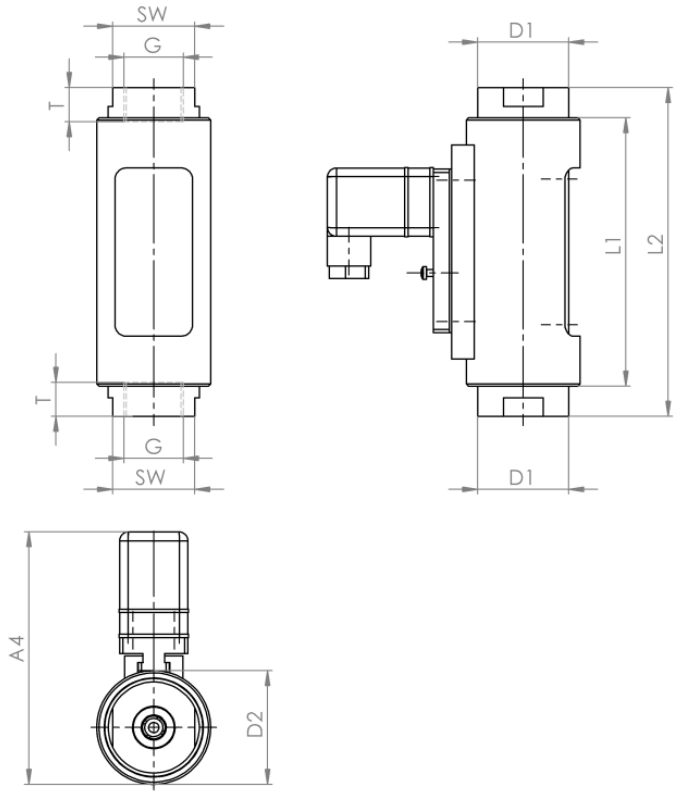
MEASURING RANGES

Type	**Oil, density 0.9 kg/dm³**		
	l/min	**gph**	**gpm**
RW/DKG-1/1	0.1 – 0.8	1.6 – 12.7	
RW/DKG-1/2	0.5 – 1.5	8 – 24	
RW/DKG-1/4	1 – 4	16 – 63	
RW/DKG-1/8	2 – 8	32 – 127	
RW/DKG-1/10	3 – 10	48 – 159	
RW/DKG-1/15	5 – 15	80 – 240	
RW/DKG-1/24	8 – 24	125 – 380	
RW/DKG-1/30	10 – 30	160 – 475	
RW/DKG-1/45	15 – 45	240 – 710	
RW/DKG-1/60	20 – 60	320 – 950	
RW/DKG-1/90	30 – 90		8 – 24

MATERIALS

Wetted brass parts		Wetted stainless steel parts	
Spring	1.4310	Spring	1.4310
Sight glass	SIMAX	Sight glass	SIMAX
Gaskets	NBR (FKM, EPDM)	Gaskets	NBR (FKM, EPDM)
Magnets	Hard ferrite	Magnets	Hard ferrite
All the other wetted parts	Brass, nickel-plated	All the other wetted parts	1.4404
Non-wetted brass parts		Non-wetted stainless steel parts	
Device housing	Aluminium	Device housing	Aluminium/SS steel
Other gasket materials on request			

TECHNICAL DRAWING



SUMMARY OF TYPES

Type	Overall dimensions [mm]												Weight cca.
	G	DN	SW	L1	L2	T	D1	D2	A1	A2	A3	A4	[g]
RW/DKG-1/1	1/4"	8	36	118,5	144,5	10	40	50	/	/	/	~111	1350
RW/DKG-1/2	1/2"	15	36	118,5	144,5	14	40	50	/	/	/	~111	1350
RW/DKG-1/4	3/4"	20	36	118,5	138,5	15	40	50	/	/	/	~111	1350
	1"	25	41	118,5	158,5	17	45	50	/	/	/	~111	1380
RW/DKG-1/8	1/2"	15	36	118,5	144,5	14	40	50	/	/	/	~111	1350
RW/DKG-1/10	3/4"	20	36	118,5	138,5	15	40	50	/	/	/	~111	1350
RW/DKG-1/15	1"	25	41	118,5	158,5	17	45	50	/	/	/	~111	1380
RW/DKG-1/24													
RW/DKG-1/30													
RW/DKG-1/45	3/4"	20	36	118,5	138,5	15	40	50	/	/	/	~111	1350
RW/DKG-1/60	1"	25	41	118,5	158,5	17	45	50	/	/	/	~111	1380
RW/DKG-1/90													

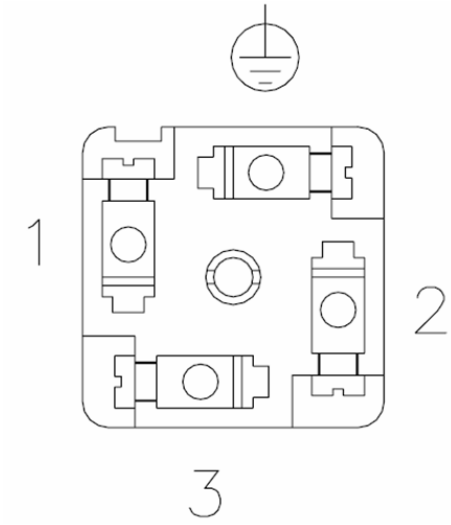
EL. SPECIFICATION

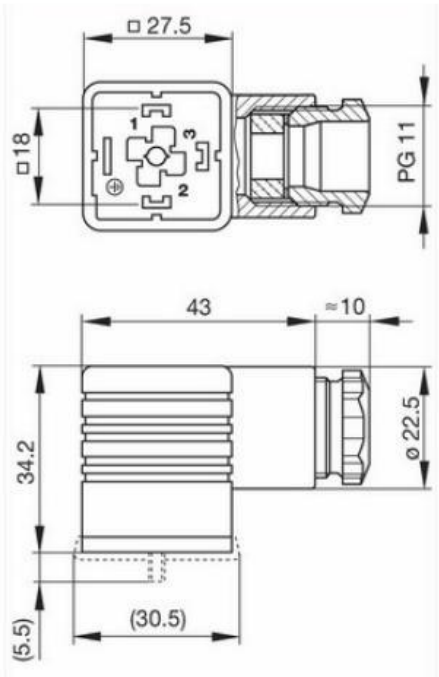
El. Contacts	SPP change-over contact	SP1/SP2 switches
Max. voltage	400 VDC	400 VDC
Max. switching current	2.1 A	2.1 A
Max. contact load	60 W	60 W
Max. temperature	-40 do +150°C	-40 do +150°C

WIRING

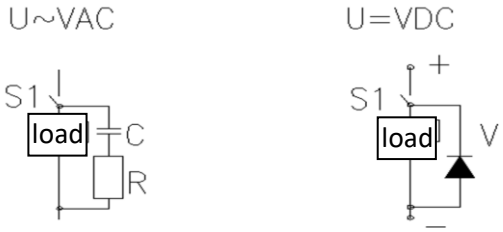
Contacts 1. and 2. closed at the maximum flow rate.
Contacts 1. and 3. closed at the minimum flow rate .

Dimensions and wiring diagram (sensor)

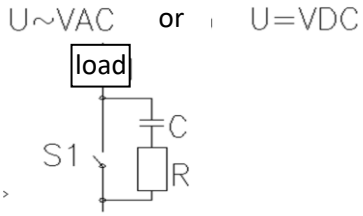




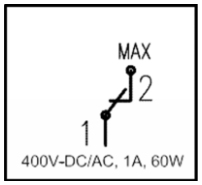
Recommended contact protection under inductive load



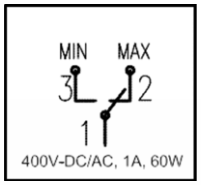
Inductive or resistive load



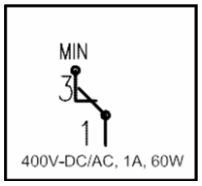
SP1–MAX



SPP



SP2-MIN



MARKING

1. Measuring range	RW/DKG-1/1 RW/DKG-1/2 RW/DKG-1/4 RW/DKG-1/8 RW/DKG-1/15 RW/DKG-1/24 RW/DKG-1/30 RW/DKG-1/45 RW/DKG-1/60 RW/DKG-1/90
2. Connection	DN8 – G1/4“ DN15 – G1/2“ DN20 – G3/4“ DN25 – G1“
3. Mat. of wetted parts	K1 – DIN 1.4404 K2 – DIN 1.4571 K3 – Brass K4 – Other materials on request
4. Housing material	DH1 – Stainless steel DH2 – Aluminium
5. Operating position acc. to the flow range	VB – vertical position, bottom inlet VT – vertical position, top inlet HR – horizontal position, left-to-right inlet HL – horizontal position, right-to-left inlet
6. Senzor type	SP1 – contact closed at minimum flow rate SP2 – contact closed at maximum flow rate SPP – change-over contact

RW/DKG-1/...../...../...../...../...../.....
1. 2. 3. 4. 5. 6.

Example
RW/DKG-1/15/DN15/K1/DH2/VB/SPP