

### GENERAL CHARACTERISTICS

In a full stainless steel enclosure a stainless steel turbine arranged in sapphire cups provides flow-proportional revolutions which are detected by a pre-triggered Hall sensor.

- \* high accuracy
- \* no magnetic bearings in the wetted chamber
- \* high pressure duty

Male thread G1/2A to G2A stainless steel



RT-020AK004P

### TECHNICAL DATA

	G	Type	PN bar	Qmax. recom. m <sup>3</sup> /h H <sub>2</sub> O	metering range m <sup>3</sup> /h (1-5mm <sup>2</sup> /s)	H mm	L mm	X mm	weight kg
stainless steel	G 1/2 A	RT-015AK001.	250	1.32	0.11 - 1.1	71	64	19	0.30
	G 3/4 A	RT-020AK002.	250	2.64	0.22 - 2.2	74	64	19	0.40
	G 3/4 A	RT-020AK004.	250	4.8	0.40 - 4.0	74	64	19	0.40
	G 3/4 A	RT-020AK008.	250	9.6	0.80 - 8.0	74	83	22	0.40
	G 1 A	RT-025AK016.	250	19	1.60 - 16.0	78	88	23	0.60
	G 1 1/2 A	RT-040AK034.	250	40	3.40 - 34.0	84	114	28	1.40
	G 2 A	RT-050AK068.	250	80	6.80 - 68.0	89	132	29	1.90

tolerance                      ±1% of full scale  
    <10 to 100% of metering range  
    inclusive linearitaty and repeatability

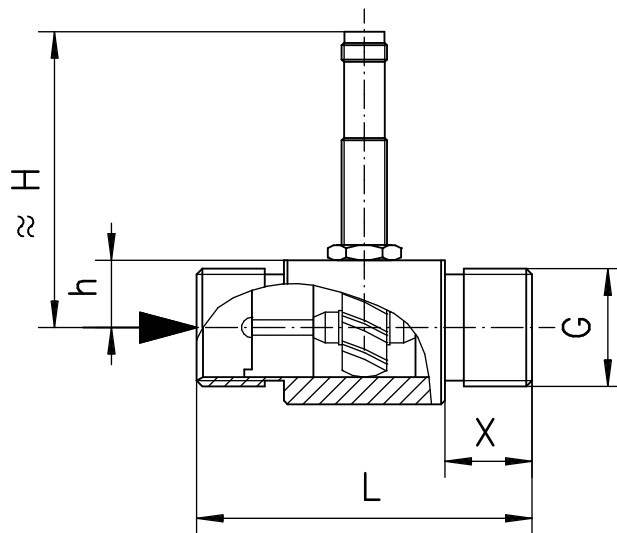
media temperature            max. 85°C

tolerated particles            0.5mm

average pressure loss        0.3bar at Qmax.

### OPTION

media temperatuer 150°C compatible to all  
 Honsberg-electronics sensors or electronics heads



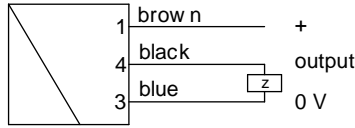
### MATERIALS

housing                      stainless steel  
 turbine                      stainless steel  
 bearings                    wolfram carbit  
 ball bearings              stainless steel

**ELECTRICAL DATA**

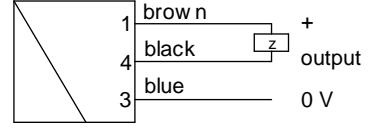
hall sensor, pre-triggered  
voltage range 10-30 V DC  
current 20 mA without load  
max. load 100 mA  
contact for locking plug M12x1 , 4-pole  
protection class IP 67

wiring 0.319  
PNP

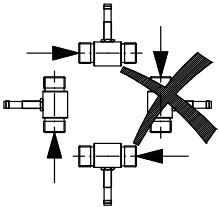


z=load

NPN



**MOUNTING POSITION**



10 x diam. as smoothing section on inlet and outlet

**METERING SUBSTANCES**



water



aggressive liquids



oil up to 5mm<sup>2</sup>/s

**NOMENCLATURE**

For combinations see table "technical data".

RT-	015	A	K	001	P	basic type specification
	015				●	nominal d DN 15 - G1/2A
	020				●	DN 20 - G3/4A
	025				●	DN 25 - G1A
	040				●	DN 40 - G1 1/2A
	050				●	DN 50 - G2A
		A			●	male thread
			K		●	stainless steel design
				001	●	0.11 - 1.1 m <sup>3</sup> /h
				002	●	0.22 - 2.2 m <sup>3</sup> /h
				004	●	0.40 - 4.0 m <sup>3</sup> /h
				008	●	0.80 - 8.0 m <sup>3</sup> /h
				016	●	1.60 - 16.0 m <sup>3</sup> /h
				034	●	3.40 - 34.0 m <sup>3</sup> /h
				068	●	6.80 - 68.0 m <sup>3</sup> /h
					P ●	PNP
					N ●	NPN
					E ●	exit by local electronic (e.g. omni-TTH)
Programme option					○	flange design
BASIC						temperature max. 120°C (NPN)
Special option					□	DN 80-300 PN16
VARIO						design for air/gas range from 0.05 m <sup>3</sup> /h
Accessories					⊕	EX amplifier EEV1 product information 80.1.EEV1. Counter EEZ904 product information 83.1.EEZ904.

special applications: Switching output, frequency converter, current output and omni/flex processor

**COMBINATIONS**

**omni-RT**

local electronic unit,  
2xNPN and PNP switch  
4(0)..20mA output  
graphical LCD display  
with flashing LED  
program ring



**further transformers**

- Flex switching and frequency exit, 0..10V or 4..20mA, pnp, npn
- ESA1 electronic monitoring unit
- ESK2 2 switchpoints - supply 24 V DC
- ESK3 1 switchpoint - supply 230 V AC  
conceived for safety-relevant applications
- EFFS switch output
- EFFI current output 4(0)..20mA
- EFFF frequency output



All technical changes reserved

●BASIC Standard ○BASIC Programme option □VARIO Special option ⊕ PLUS Accessories ✗ not recommendable