



SISMA

# G. GIOANOLA

METERING EFFICIENCY

## WOLTMANN MID REMOVABLE MECHANISM



DN mm. – inches

50 – 2"	65 – 2" 1/2	80 – 3"
100 – 4"	125 – 5"	150 – 6"
200 – 8"	250 – 10"	300 – 12"

- ❖ Helical vane water meter, high capacity, straight reading
- ❖ Mod. WARF Interchangeable mechanism, dry dial, measuring range from R50H to R100H, temperature class T50
- ❖ Mod. WALF Interchangeable mechanism, dry dial, **pre-set** or **fitted with** Reed and inductive remote reading and for radio modules with **LoRaWAN** protocol for fixed network and **LoRA** for walk-by/drive-by, **W-Mbus OMS** 868Mhz, **NB-Iot**, measuring range from R50H to R100H, temperature class T50
- ❖ High protection against external magnetic fields
- ❖ It has the advantage that the measuring element may be quickly removed and replaced on-site avoiding removal of the full meter
- ❖ It may be installed in any position (for non-horizontal installation, flow must be upwards); in any case, the meter must be always full of water to ensure proper functioning
- ❖ **MID** approved according to European Directive 2014/32CE (module B + D) in compliance with the norms **ISO 4064**, **EN 14154** and **OIML R49**
- ❖ All models are certified for use with potable water in accordance with the Italian ministerial decree **D.M. 174** in compliance with the European Directive 98/83CE (Drinking Water Directive)
- ❖ Mod. WARF-P Interchangeable mechanism, **pre-equipped to retrofit an inductive sensor for remote reading**

DN size mm			50	65	80	100	125	150	200	250	300
Q <sub>3</sub>	Permanent flow rate	m <sup>3</sup> /h	40	63	100	160	160	250	400	1000	1000
Q <sub>4</sub>	Overload flow rate	m <sup>3</sup> /h	50	78,80	125	200	200	312,5	500	1250	1250
Q <sub>2</sub>	Transitional flow rate [MPE ±2%]	m <sup>3</sup> /h	0,8	1.2	2	3.2	3.2	5	8	20	20
Q <sub>1</sub>	Minimum flow rate [MPE ±5%]	m <sup>3</sup> /h	0,5	0.78	1.25	2	2	3.125	5	12.5	12.5
S	Starting flow	m <sup>3</sup> /h	0,15	0,15	0,25	0,3	0,5	0,8	2	3	4
MAP	Max allowed working pressure	bar	16	16	16	16	16	16	16	16	16
	Max. possible reading	m <sup>3</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup>	10 <sup>6</sup> / 10 <sup>7</sup>	10 <sup>8</sup>	10 <sup>8</sup>	10 <sup>8</sup>
	Minimum reading unit	l	0,5	0,5	0,5	5	0,5	5	50	50	50
	Total length L	mm	200	200	225	250	250	300	350	450	500
	Height H	mm	209	218	249	258	271	316	345	463	505
	Diameter B	mm	165	185	200	220	250	285	340	405	489
	Height h	mm	77	86	95	104	117	133	162	203	245
	Weight	kg	10	11,2	15,2	17,2	22,4	29	42,6	80	95

**MODELS:**

**Temperature Class T50**

WARF/50 DN 50  
 WARF/65 DN 65  
 WARF/80 DN 80  
 WARF/100 DN 100  
 WARF/125 DN 125  
 WARF/150 DN 150  
 WARF/200 DN 200  
 WARF/250 DN 250  
 WARF/300 DN 300

WALF/50 DN 50  
 WALF/65 DN 65  
 WALF/80 DN 80  
 WALF/100 DN 100  
 WALF/125 DN 125  
 WALF/150 DN 150  
 WALF/200 DN 200  
 WALF/250 DN 250  
 WALF/300 DN 300

R160H/R160V and R250H/160V  
 Available on request

**REED SWITCH PULSE EMITTER TECHNICAL DATA**

- Contact ratings: 24V-0,2A
- Standard length of cable supplied: 2mt

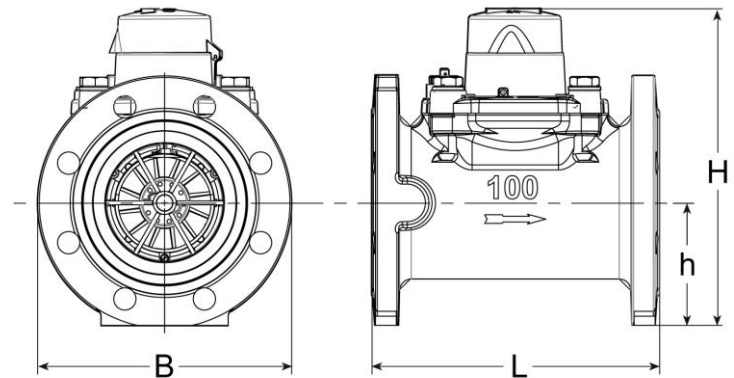
**M-BUS OPTION**

Mod. ADAPTO (to purchase separately): adapter to convert the signal generated by the reed sensor into a M-Bus signal (refer to page. 38).

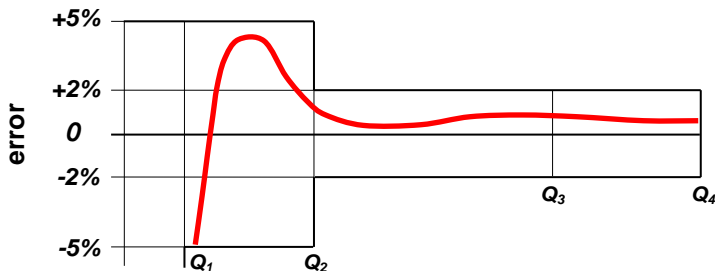
PULSE OUTPUT	for meters	Pulse rate
Reed Switch	DN50-65-80	10 / 100 / 1000
Inductive contact	DN50-65-80	10
Digital contact Optoelectronic	DN50-65-80	1
Reed Switch	DN100	100 / 1000
Inductive contact	DN100	10
Digital contact Optoelectronic	DN100	10
Reed Switch	DN125	100 / 1000
Inductive contact	DN125	10
Digital contact Optoelectronic	DN125	10
Reed Switch	DN150	100 / 1000
Inductive contact	DN150	100
Digital contact Optoelectronic	DN150	10
Reed Switch	DN200-250-300	1000/10000
Inductive contact	DN200	100 (DN200)
Digital contact Optoelectronic	DN200-250-300	100



The Company's policy is one of continuous product improvement and the right is reserved to modify the specification contained herein without notice. Illustrations are not binding 06-22



**TYPICAL ERROR CURVE**



**HEAD LOSS DIAGRAM**

