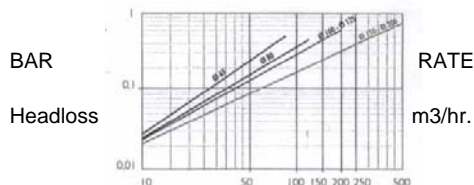


SIM - IRRIMAG proportional water flowmeter

with pulse output. Sizes 65, 80, 100, 125 & 150 mm

FEATURES

- Wide range of flow rates.
- Mechanical running totaliser and pulse output fitted as standard.
- Ideal as a resettable meter when connected to ManuFlo Indicators e.g. ME5.
- Accuracy $\pm 5\%$.
- Can pass particles without jamming. Recommended for untreated water applications (raw water, water containing solid particles).
- Low headlosses - ideal for gravitational flows.
- Flanged ends for process applications.



SIM IRRIMAG proportional single jet water flowmeters operate on the bypass velocity principle. They have few parts, all of which are easily accessible. The meter mechanism is outside the "full flow" area and has the added protection of a deflector (2) which allows particles to pass through the Irrimag without any damage to it. The proportional meter (3) is a single jet meter, with extra dry register and a self-flushing turbine. The meter has a brass body with a lid which can be padlocked (4). In addition, the Irrimag has low headloss.

All Irrimags can optionally be fitted or retro-fitted with a removable pulse output volt-free contact closure reed switch probe with a 2 metre lead. The output can then be fed to a range of **ManuFlo** external resettable counters e.g. ME5.

All these features make the Irrimag ideal for applications such as Water Extraction, Irrigation or for installation after a pump.

SPECIFICATIONS

Model Number	SIM65	SIM80	SIM100	SIM125	SIM150
Size (mm)	65	80	100	125	150
Pulse output rate (Litres/pulse)	10 or 100	10 or 100	10 or 100	10 or 100	100 or 1000
Maximum flow $\pm 5\%$ (m ³ /h)	80	120	200	200	500
Minimum accurate $\pm 5\%$ (m ³ /h)	2.5	4.8	8.0	8.0	20
Starting flow $\pm 5\%$ (m ³ /h)	0.8	1.8	3.0	3.0	7.5
Δp at permanent flow rate (bar)	0.5	0.44	0.58	0.58	0.75
Max. volume per 24 hours (m ³ /day)	1900	2800	4800	4800	12000
Max. operating pressure bar	20	20	20	20	20
Max. water temperature °C	80	80	80	80	80
Minimum reading Litres	0.5	5	5	5	5
Maximum indication m ³	10 ⁶	10 ⁷	10 ⁷	10 ⁷	10 ⁷
Connection	60 x 65 PN16 4 oblong holes	80 PN16 8 holes	100 PN16 8 holes	125 PN16 8 holes	150 PN16 8 holes

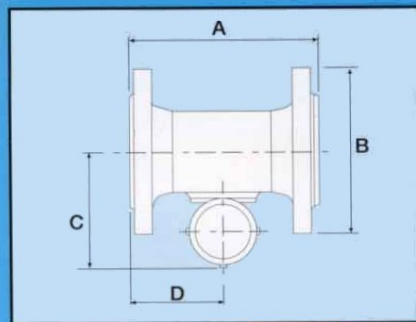
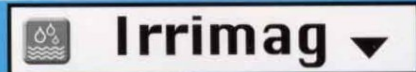
Reed switch pulse Vmax: 24V, Imax: 200mA, Pmax: 4W, pulse cable 2 core termination.

COMMISSIONING

Purge the pipework before installation. Slowly increase the water flow, in order to purge all the air from the system.

To protect meters installed outside from frost damage, it is essential to drain the meters before winter.

The Irrimag does not require any particular maintenance, except where the water is exceptionally highly loaded with fine solid particles, mud or silt.



Technical characteristics

Dimensions

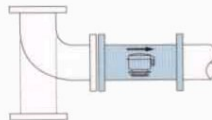
Nominal diameter	mm	65	80	100	125	150
A	mm	255	255	255	255	255
B	mm	185	200	220	250	285
C	mm	170	181	191	191	215
C (with valve)	mm	172	183	193	193	217
D	mm	155	155	135	135	135
Weight	kg	8	13	17	20	27

Installation

schematics for Irrimag proportional meters used for metering untreated water.

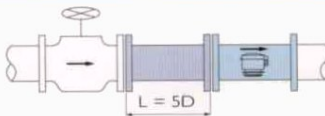
Disturbing elements located upstream

90° Elbow
90° Elbow and cone
45° Elbow
T piece



Accuracy maintained irrespective of the upstream element

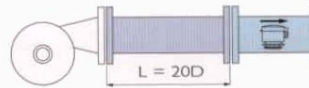
Valve



Accuracy maintained irrespective of the degree of opening of the valve by introducing a 5 D upstream straight length

D = nominal diameter of the meter

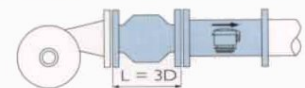
Pump



Optimal accuracy by introducing a 20 D upstream straight length

D = nominal diameter of the meter

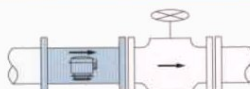
OR



a 3 D type flow straightener reducing the overall length

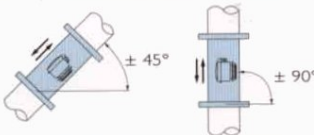
Disturbing elements located downstream

Diverging cone
Valve
Non-return valve



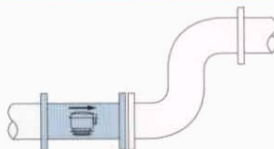
Accuracy maintained irrespective of the degree of opening of the valve

Inclined



Accuracy maintained irrespective of the angle of inclination

General conditions



- Install the meter at a low point of the pipework
- Raise the upstream pipework in case of free water flow
- Protect the meter against frost by installing a stop valve upstream and a drain point downstream
- All elements, other than those described above, have no influence on the meter accuracy.

Rev: 1104/1

Due to continuous product improvement, specifications may change without prior notice.

ManuFlo®™

Flow Measurement & Control Products

a division of

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