

Irrigation & Agriculture



Water Meter, Model IRT



Special design with free water passage allows measurement of water with high contents of impurities.



• Applications

Irrigation and sewerage metering

• Available Sizes

3" - 10" (80mm - 250mm)



Features:

- Negligible head loss
- Simple maintenance
- Field replaceable measuring unit
- Hermetically sealed register with glass lens
- Bearings are constantly flushed during operation to eliminate deposit of solids
- Optional electrical output: EV (Volume) or EF (Rate of Flow)
- Compatible with Dialog automatic reading system

Technical Specifications

Maximum Working Pressure	16 bar
Maximum Liquid Temperature	60°C
Body	Cast iron, polyester coated
Connection	Flanges according to ISO, BS 10, ANSI 150 or others
Register	M3, U.S. Gallon, cu.ft, ML Central pointer or 3 pointers



IRT type dial

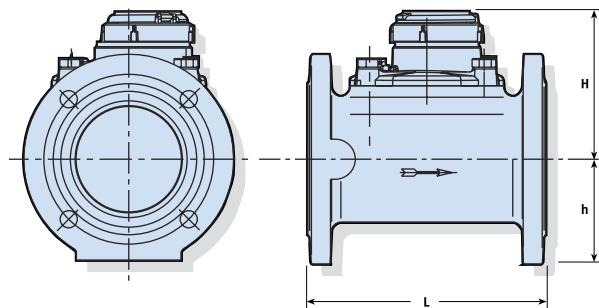
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Dimensions

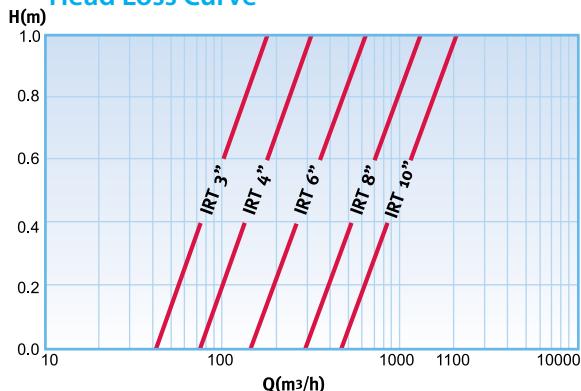
Model		80	100	150	200	250
Nominal size	(mm)	80	100	150	200	250
	(inch)	3	4	6	8	10
L – Length without couplings (mm)		230	250	300	350	400
B – Width (mm)		240	260	310	315	438
H – Height (mm)		90	110	129	160	258
h – Height (mm)		16.5	19	32	45	55.5
Weight (kg)		15.5	19	35	47	75



Performance data:

Model IRT		Q _{max} Maximum flowrate (m ³ /h)	Q _n Nominal Flowrate (m ³ /h)	Q _t Transitional Flowrate (m ³ /h)	Q _{min} Minimum Flowrate (m ³ /h)	Maximum register capacity (m ³)	Smallest readable unit (liter)	Accuracy between Q _{max} & Q _t	Accuracy between Q _t & Q _{min}
Nominal size	(mm) (inch)								
80	3	150	90	10	5	10 ⁷	10	±2%	±5%
100	4	250	125	11	7	10 ⁷	10		
150	6	500	250	15	10	10 ⁷	10		
200	8	900	450	30	18	10 ⁷	10		
250	10	1400	750	70	20	10 ⁸	100		

Head Loss Curve



Installation Requirements

- The meter can be installed in any position (horizontal, vertical or inclined)
- The meter must be always full of water while operating
- Prior to the installation of a new meter, the pipeline must be flushed out
- Straight pipe section of the same diameter D as the meter, having length of 10D and 5D shall be installed upstream and downstream of the meter respectively