

Positive Displacement Water Meter (Concentric and Inline)

The Gladiator is Arad's new positive displacement water meter, rotating piston type. The flowing water causes the piston to rotate within its chamber, each piston revolution being equivalent to a known volume of water. The piston movement is transferred by a magnetic coupling to the register which has the appropriate reduction gearing. The Gladiator is tailor made for the UK market and its unique application



- **Applications**
Domestic consumption
- **Available Sizes**
15mm
- **Standards**
ISO 4064 (class D), BS-EN 14154, EEC metrological requirements, WRAS

Features:

- Specially designed for high accuracy and wide measuring range.
- Dialog 3G and optical registers are adaptable to the meter

Technical Specifications

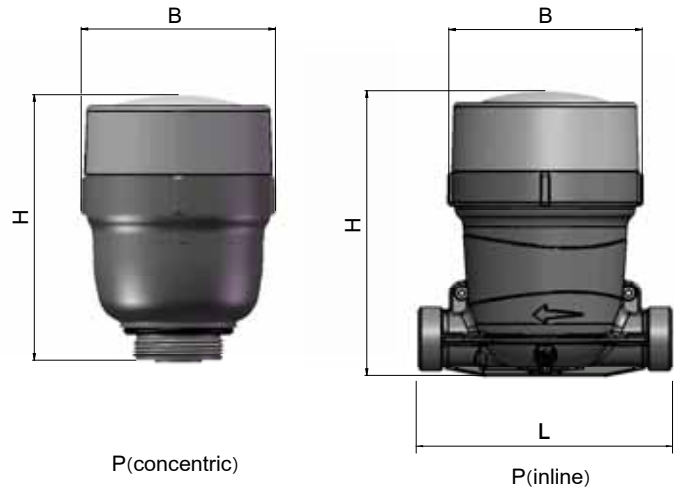
Maximum Working Pressure	16 bar
Maximum Working Temperature	50°C
Body	Highly reinforced composite material
Coupling Threads (For inline)	BSP, NPSM
Inlet / Outlet Threads	3/4" (For pipe line 1/2") 1" (For pipe line 3/4")
Register	IP68



Gladiator type dial

Dimensions

Model		P15 (concentric)	P15 (inline)
Nominal size	(mm)	15	15
	(inch)	½	½
L – Length without couplings (mm)		-	134
L1 – Length without couplings (mm)		-	-
B – Width (mm)		103	103
H – Height (mm)		141	151
Weight (kg)		0.66	0.66

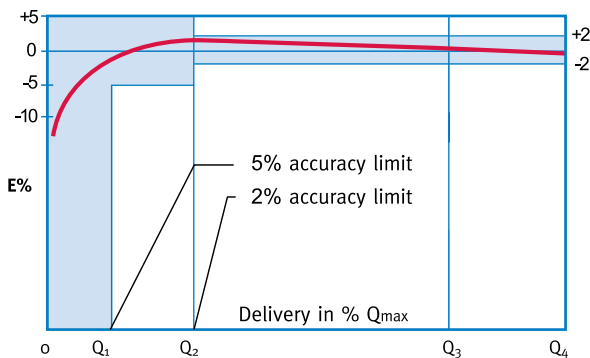


Performance data:

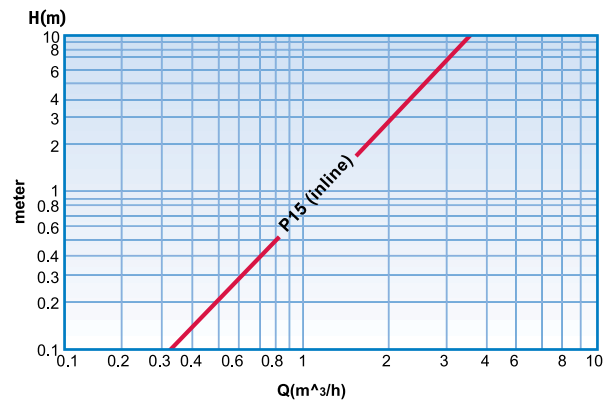
Model	Nominal Size (mm)	Q4 Maximum flowrate (m3/h)	Q3 Nominal flowrate (m3/h)	Q2 Transitional Flowrate (l/h)	Q1 Minimum Flowrate (l/h)	R Q3/Q1	Maximum register capacity (m3)	Minimum register capacity (liter)	Sensitivity (l/h)
P15 (concentric)	15	2	1.6	8	5	315	105	0.1	1
P15 (concentric)	15	2	1.6	10.5	6	250	105	0.1	1
P15 (concentric)	15	2	1.6	13	8	200	105	0.1	1
P15 (inline)	15	2	1.6	8	5	315*	105	0.1	1

* other ratios available under specific request

Accuracy Curve



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.