

LXH-15~40

Rotary Piston Water Meter (Volumetric Meter)

WORKING CONDITION:

- Water temperature 50°C
- Water pressure $\leq 1\text{MPa}$
(PN: 1.6MPa/16bar)
- $\Delta P \leq 0.1\text{MPa}(q_s)$
 $\Delta P \leq 0.063\text{MPa}(Q_3)$

ACCURACY :

- From minimum flow-rate (q_{\min} / q_1) inclusive, to transitional flow-rate (q_t / q_2), exclusive: $\pm 5\%$
- From transitional flow-rate (q_t / q_2) inclusive, to overload flow-rate (q_s / q_4), exclusive: $\pm 2\%$

OPERATION:

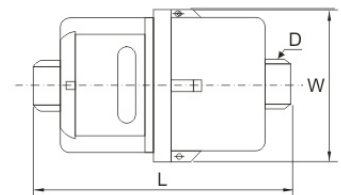
A volumetric meter is the device fitted into a closed conduit, which consists of chambers of known volume and a mechanism driven by the flow, whereby these chambers are successively filled with water and then emptied. The water to be measured enters the inlet of the body and its pressure sets the piston into rotation. Every rotational cycle of the piston discharge a fixed volume of water to the meter of body. The number of rotation of the piston is totalized through a reduction gear, to totalize in the register, when the total volume of water is registered.

WORKING PRINCIPLES:

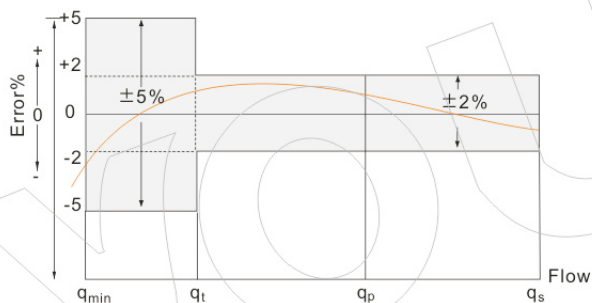
A certain amount of water as defined by meter body passing through makes piston move. The measuring structure records its movements. Movements times defined amount making total amount of water passed registered.

FEATURES:

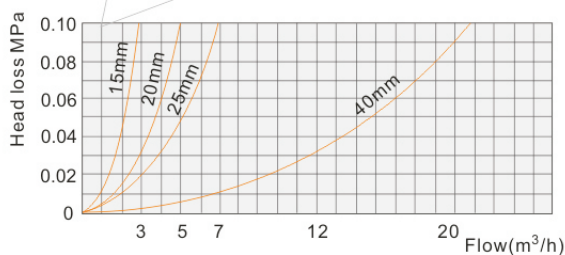
- Rotary piston system, long service life
- Dry-dial or liquid sealed register, keeps clear reading for long time
- High measuring accuracy, the starting flow of the meter is 2 l/h or less
- LXH-15-40 can be installed in any position
- Brass body or engineering plastic body, optional
m³ or gal, optional
- Remote transmission device can be added upon request
- Many kinds of sensors, such as Reed Switch, Hall and Weagand can be supplied upon request
Pulse output may be 1l/pulse, 10l/pulse
- ISO4064:1993 Class C or Class D
ISO4064:2005 R160/R200



ERROR CURVE



HEAD LOSS CURVE



TECHNICAL DATA:

DN/Q	Q ₄ =1.25Q ₃ Q ₃		R=Q ₃ /Q ₁	Q ₂ =1.6Q ₁ Q ₁		R=Q ₃ /Q ₁	Q ₂ =1.6Q ₁ Q ₁	
	l/h			l/h			l/h	
15	3125	2500	160	25	15.625	200	20	12.5
20	5000	4000	160	40	25	200	32	20
25	7875	6300	160	63	39.375	200	50	31.5
40	20000	16000	160	160	100	200	128	80

Nominal size DN(mm)	Class of measurement	Overload flow-rate q _s (m ³ /h)	Permanent flow-rate q _p (m ³ /h)	Transitional flow-rate q _t (l/h)	Minimum flow-rate q _{min} (m ³ /h)	Minimum reading M _{in} (m ³)	Maximum reading M _{ax} (m ³)
15	$\frac{C}{D}$	3	1.5	$\frac{22.5}{17.5}$	$\frac{15.0}{11.25}$	0.0001	9999
20	$\frac{C}{D}$	5	2.5	$\frac{37.5}{28.75}$	$\frac{25}{18.75}$	0.0001	9999
25	$\frac{C}{D}$	7	3.5	$\frac{52.5}{40.25}$	$\frac{35}{26.5}$	0.0001	9999
40	$\frac{C}{D}$	20	10	$\frac{150}{115}$	$\frac{100}{75}$	0.0001	9999

OVERALL DIMENSIONS AND WEIGHT

Type	Size (mm)	Length (mm) L	Width (mm) W	Height (mm) H	Connecting Thread D	Weight (kg)
LXH-15	15	115	85	90	G 3/4" B	1.1
LXH-20	20	130	86	90	G 1" B	1.8
LXH-25	25	175	112	106	G 1 1/4" B	2.5
LXH-40	40	300	175	152	G 2" B	4

