

# LXSG(R)-13D<sub>1</sub>~25D<sub>1</sub>

## Single Jet Dry Water Meter

### OPERATION:

The water enters the meter from the inlet of the meter body and impacts the vane wheel at the tip of the vane blades to make it rotate. The water flows out from the outlet of the body. The rotation of the vane wheel (proportional to the velocity of water flow) is transmitted directly to the central gear in the vacuum-sealed register by the magnetic coupling. The sealed register totalizes and indicates the water volume passing through the meter.

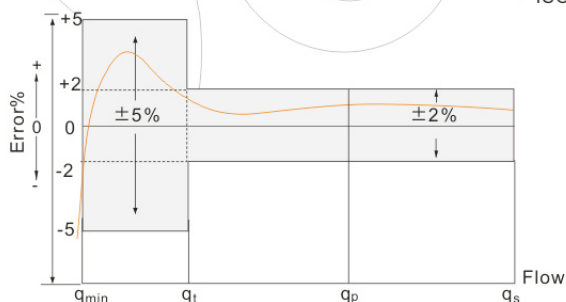
### WORKING CONDITION:

- Water temperature  $\leq 50^{\circ}\text{C}$  (Hot water meter  $\leq 90^{\circ}\text{C}$ )
- Water pressure  $\leq 1\text{MPa}$  (PN: 1.6MPa/16bar)
- $\Delta P \leq 0.1\text{MPa}$  (q<sub>3</sub>)  
 $\Delta P \leq 0.063\text{MPa}$  (Q<sub>3</sub>)

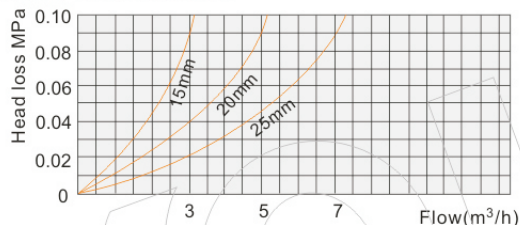
### ACCURACY:

- From minimum flow-rate (q<sub>min</sub> / q<sub>1</sub>) inclusive, to transitional flow-rate (q<sub>t</sub> / q<sub>2</sub>), exclusive:  $\pm 5\%$
- From transitional flow-rate (q<sub>t</sub> / q<sub>2</sub>) inclusive, to overload flow-rate (q<sub>s</sub> / q<sub>4</sub>), exclusive:  $\pm 2\%$  (Hot water meter:  $\pm 3\%$ )

### ERROR CURVE



### HEAD LOSS CURVE



### TECHNICAL DATA:

DN/Q	Q <sub>4</sub> =1.25Q <sub>3</sub> Q <sub>3</sub>		R=Q <sub>3</sub> /Q <sub>1</sub>	Q <sub>2</sub> =1.6Q <sub>1</sub> Q <sub>1</sub>		R=Q <sub>3</sub> /Q <sub>1</sub>	Q <sub>2</sub> =1.6Q <sub>1</sub> Q <sub>1</sub>	
	l/h			l/h			l/h	
15	3125	2500	80	50	31.25	100	40	25
20	5000	4000	80	80	50	100	64	40
25	7875	6300	80	126	78.75	100	100.8	63

Nominal size DN(mm)	Class of measurement	Overload flow-rate q <sub>s</sub> (m³/h)	Permanent flow-rate q <sub>p</sub> (m³/h)	Transitional flow-rate q <sub>t</sub> (l/h)	Minimum flow-rate q <sub>min</sub> (l/h)
15	B	3	1.5	120	30
20	B	5	2.5	200	50
25	B	7	3.5	280	70

### OVERALL DIMENSIONS AND WEIGHT

Type	Size (mm)	Length (mm) L	Width (mm) W	Height (mm) H	Connecting Thread D	Weight (kg)
LXSG(R)-13D <sub>1</sub>	15	110	78	65	G 3/4" B	0.45
LXSG(R)-20D <sub>1</sub>	20	130	78	69	G 1" B	0.53
LXSG(R)-25D <sub>1</sub>	25	160	77	75	G 1 1/4" B	0.76

### FEATURES:

- Dry register, 5 or 8 numbered roller
- For hot or cold water
- Small, light
- Brass body or plastic body, optional
- Brass body can be painted or nickel coated
- High accuracy
- 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 B
- ISO4064:2005 R80

