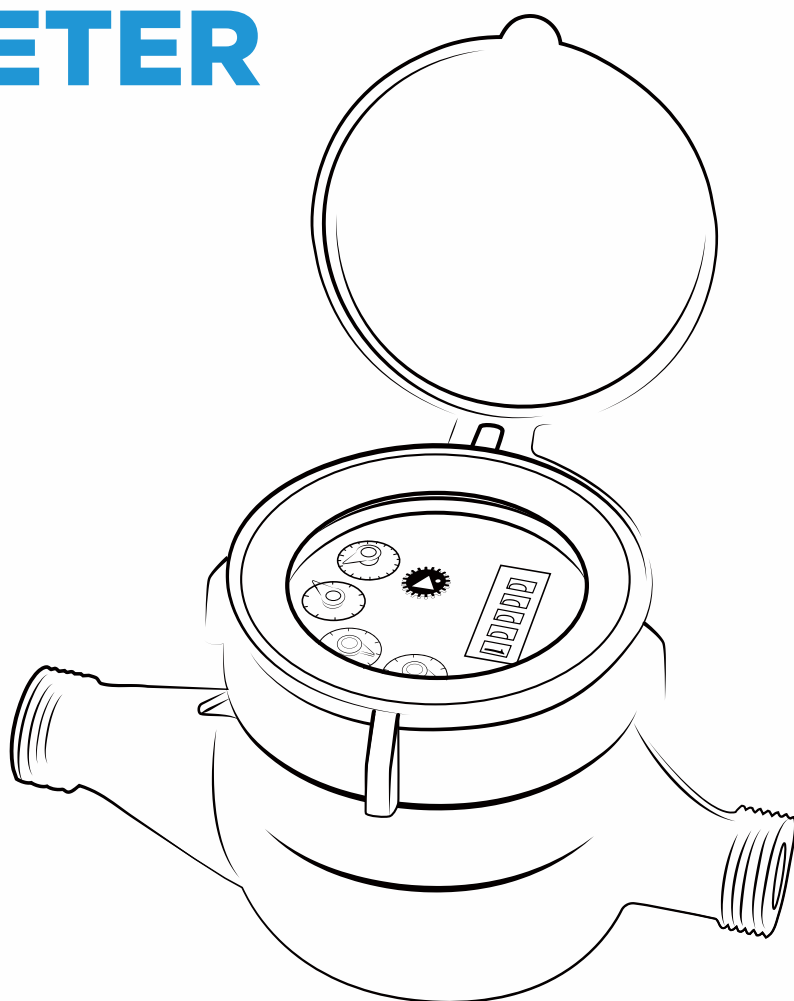


WATER METER

CATALOGUE

- Multi Jet
- Single Jet
- Volumetric
- Pulse Output
- Woltman



Model: LXSG-15E-50E

Multi Jet Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Gray cast iron / Ductile cast iron
- Size: DN15 to DN50mm, (1/2"-2")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B / Class C



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

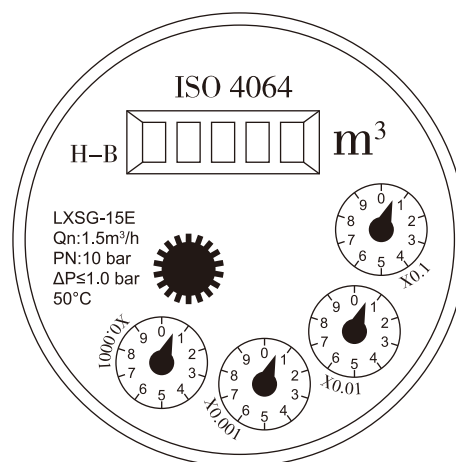
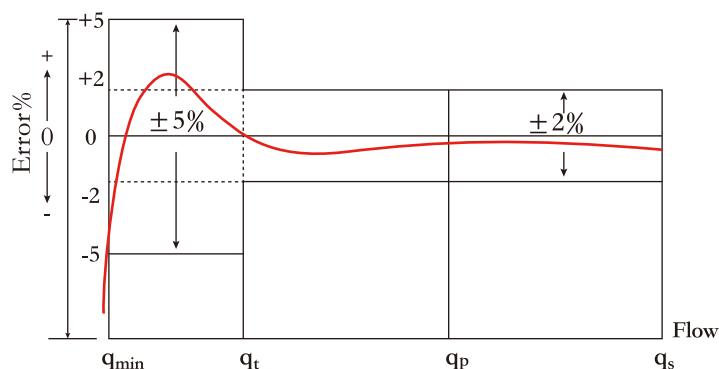
Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

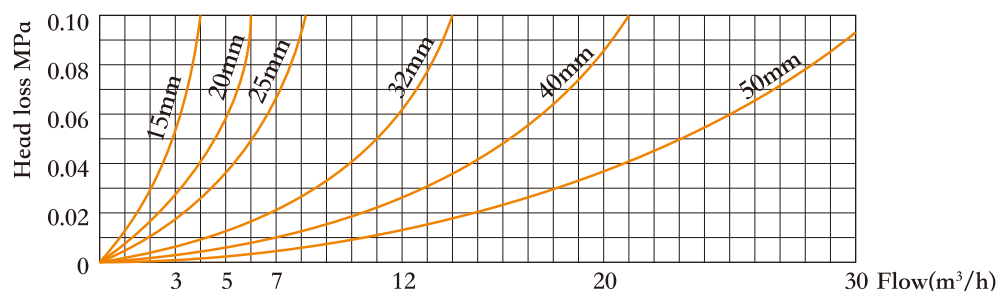
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSG-15E-50E

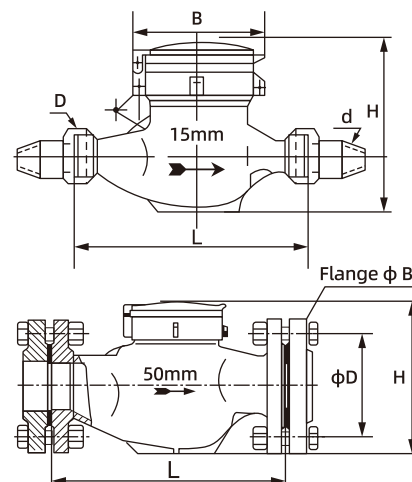


Head Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	104	G 3/4B	1.5
20	190	99	106	G 1B	1.7
25	225	104	120	G1 1/4B	2.4
32	230	104	120	G1 1/2B	2.7
40	245	125	155	G 2B	4.5
50	300	125	155	G2 1/2B	7.2
	280	165	175	FLANGE CONNECTING CONFORM TO GB4216.4 D=165 D1=125	14



WORKING CONDITION:

Water temperature: ≤50°C for cold water meter

Water temperature: ≤90°C for hot water meter

Working pressure: ≤1.6Mpa



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Model: LXSG1-15E-25E

Multi Jet Water Meter

Feature:

- Multi jet, Dry-dial, Vertical type
- Material body: Gray cast iron / Ductile cast iron
- Size: DN15 to DN25mm, (1/2"-1")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B



Main Technical Data:

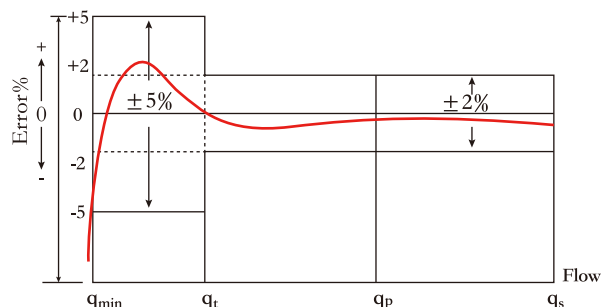
According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		

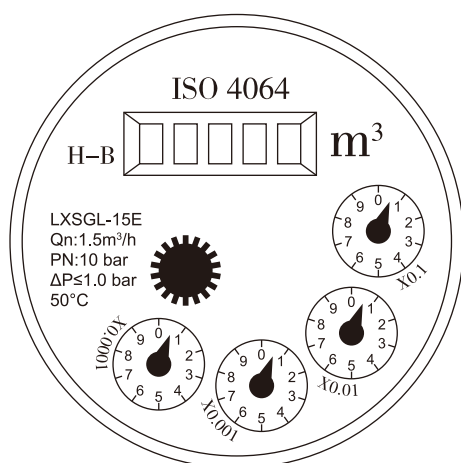
INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

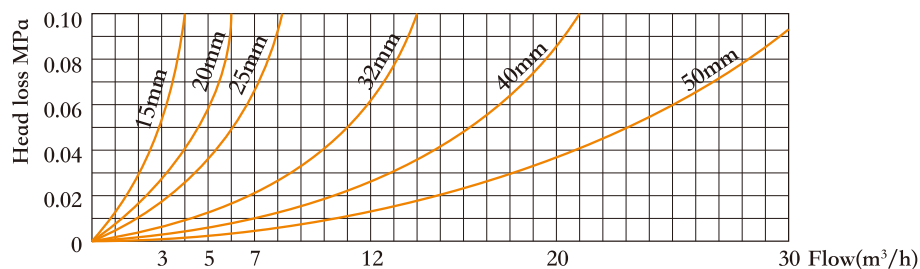
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)



Model: LXSGL-15E-25E

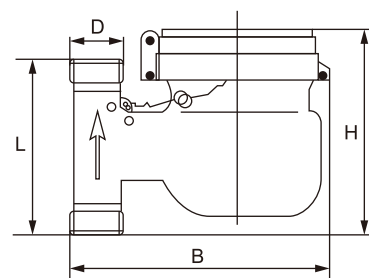


Head Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	95	135	120	G 3/4B	1.5
20	99	150	130	G 1B	1.7
25	110	160	130	G1 1/4B	3.0



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSG-15E1-50E1

Multi Jet Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Brass
- Size: DN15 to DN50mm, (½"-2")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B / Class C / R160



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

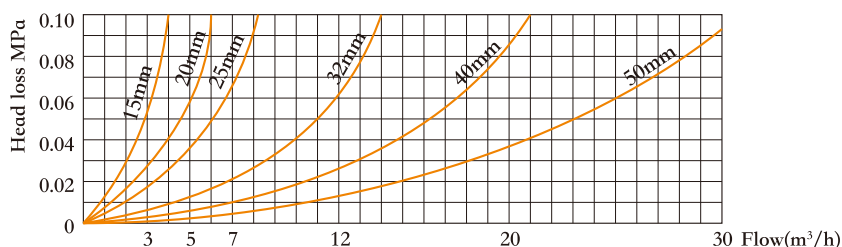
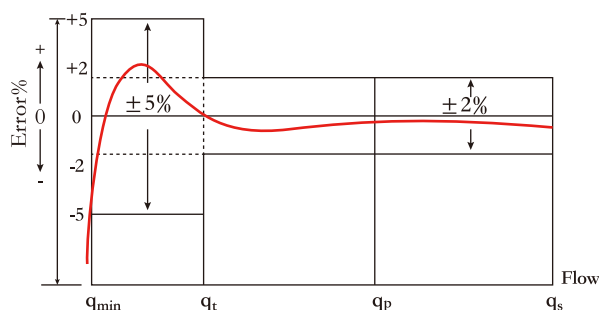
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSG-15E1-50E1

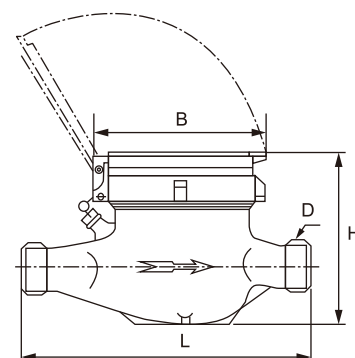
According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	108	G 3/4B	1.4
20	190	99	108	G 1B	1.7
25	225	104	114	G1 1/4B	2.4
32	230	104	117	G1 1/2B	2.7
40	245	128	158	G 2B	4.5
50	280	128	183	G2 1/2B	7.2



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSGY-15E1-50E1

Multi Jet Water Meter

Feature:

- Pre-equipped for Pulse emitter
- Multi jet, Dry-dial
- Material body: Brass
- Size: DN15 to DN50mm, (1/2"-2")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B / Class C / R160



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

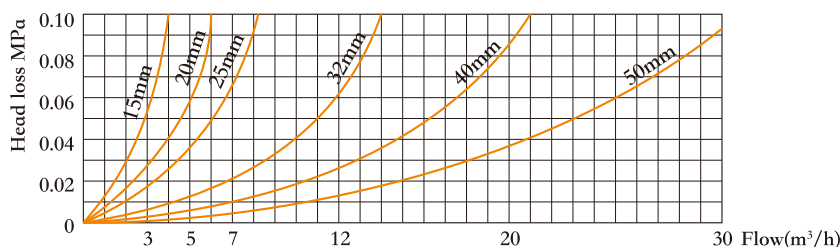
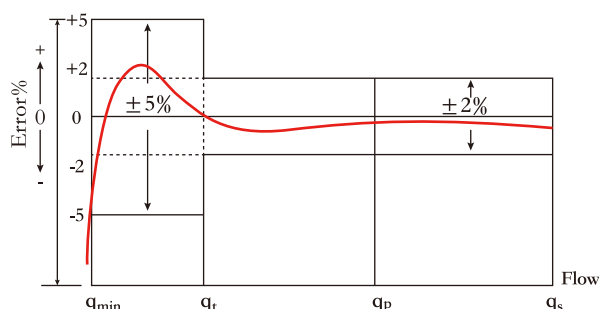
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSGY-15E1-50E1

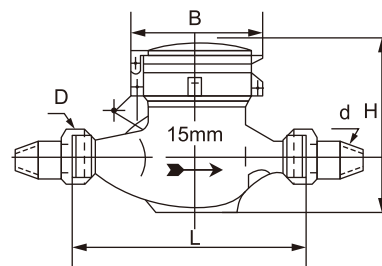
According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	108	G 3/4B	1.4
20	190	99	108	G 1B	1.7
25	225	104	114	G1 1/4B	2.4
32	230	104	117	G1 1/2B	2.7
40	245	128	158	G 2B	4.5
50	280	128	183	G2 1/2B	7.2



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSG-15S2-50S2

Multi Jet Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Nylon plastic
- Size: DN15 to DN50mm, (½"-2")
- Available for cold water (50°C)
- Accuracy: Class B / Class C / R160



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

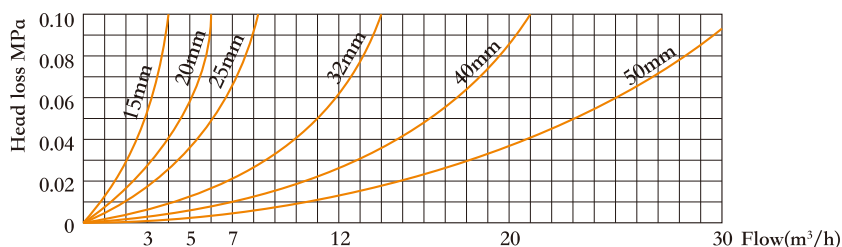
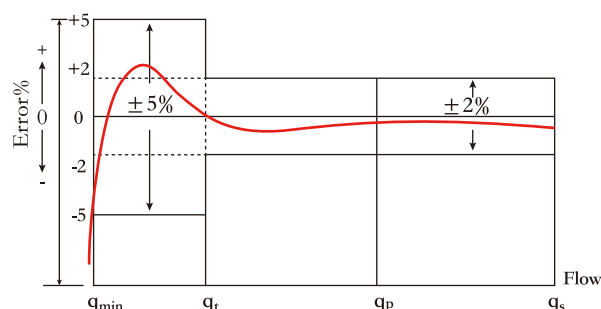
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSG-15S2-50S2

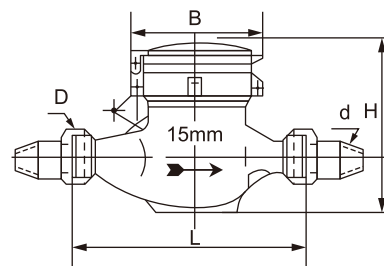
According to ISO4064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	104	G 3/4B	0.53
20	190	99	125	G 1B	0.6
25	260	106	132	G1 1/4B	0.78
32	230	104	120	G1 1/2B	0.82
40	245	128	150	G 2B	1.2
50	300	130	150	G2 1/2B	1.46



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSGY-15S2-50S2

Multi Jet Water Meter

Feature:

- Pre-equipped for Pulse emitter
- Multi jet, Dry-dial
- Material body: Nylon plastic
- Size: DN15 to DN50mm, (1/2"-2")
- Available for cold water (50°C)
- Accuracy: Class B / Class C / R160



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

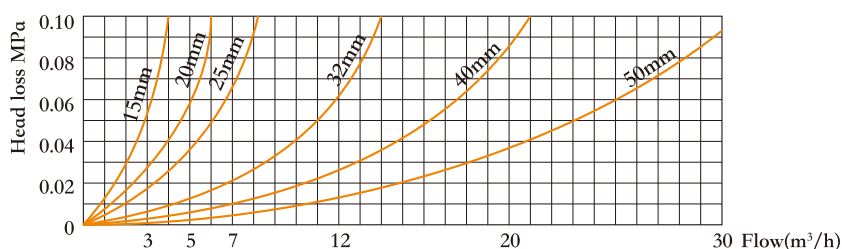
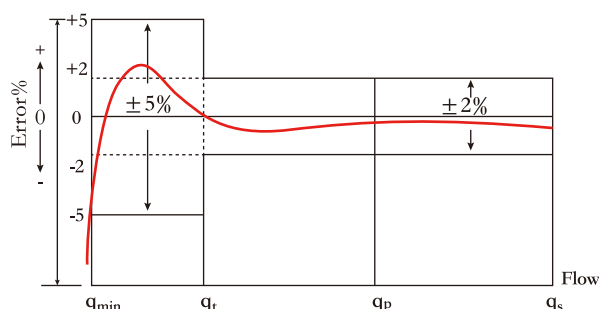
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSGY-15S2-50S2

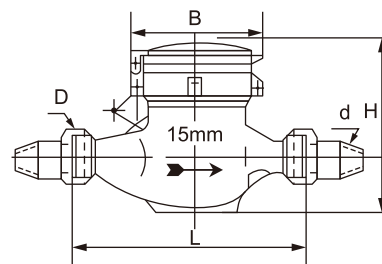
According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	104	G 3/4B	0.53
20	190	99	125	G 1B	0.6
25	260	106	132	G1 1/4B	0.78
32	230	104	120	G1 1/2B	0.82
40	245	128	150	G 2B	1.2
50	300	130	150	G2 1/2B	1.46



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSG-15E3-20E3

Multi Jet Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Brass
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B / R80 / R100



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h		L/h		m ³	
15	1/2"	A	3	1.5	150	60	0.0001	9999
		B			120	30		
20	3/4"	A	5	2.5	250	100	0.0001	9999
		B			200	50		

According to IS04064(GB/T778.1-2007) Standard

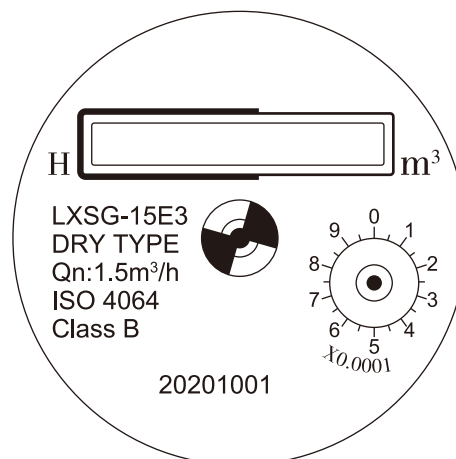
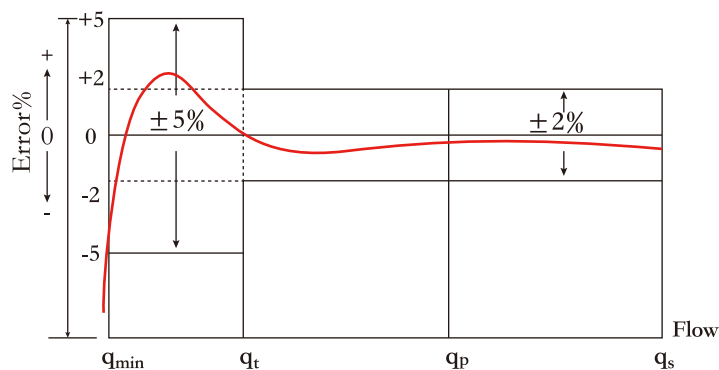
DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m ³ /h)		3.125	5
Q3(m ³ /h)		2.5	4
R80	Q2(L/h)	50	80
	Q1(L/h)	31.25	50
R100	Q2(L/h)	40	64
	Q1(L/h)	25	40
Min reading(m ³)		0.0001	0.0001
Max reading(m ³)		9999	9999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

Model: LXSG-15E3-50E3

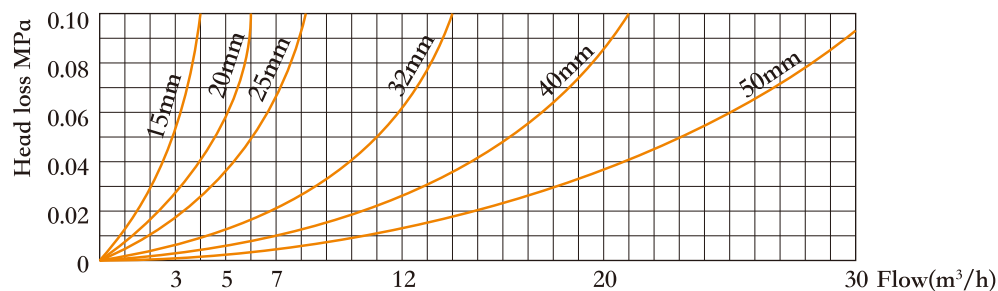
INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

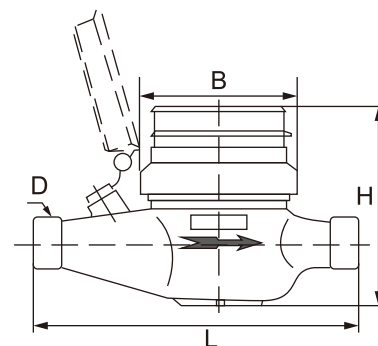


Head Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	80	102	G 3/4B	1.1
20	190	80	105	G 1B	1.4



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXDG-13B-25B

Single Jet Water Meter

Feature:

- Single jet, Dry-dial
- Material body: Brass
- Size: DN15 to DN25mm, (1/2"-1")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class C / R160

Main Technical Data:

According to ISO4064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	C	3	1.5	22.5	15	0.0001	99999
20	3/4"	C	5	2.5	37.5	25	0.0001	99999
25	1"	C	7	3.5	52.5	35	0.0001	99999

According to ISO4064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"
Q4(m³/h)		3.125	5	7.875
Q3(m³/h)		2.5	4	6.3
R160	Q2(L/h)	25	40	63
	Q1(L/h)	15.625	25	39.375
Min reading(m³)		0.0001	0.0001	0.0001
Max reading(m³)		99999	99999	9999
Max pressure(MAP)		16	16	16
Max loss(Δ P)		63	63	63
Max temperature		T50	T50	T50

INDICATING ERROR

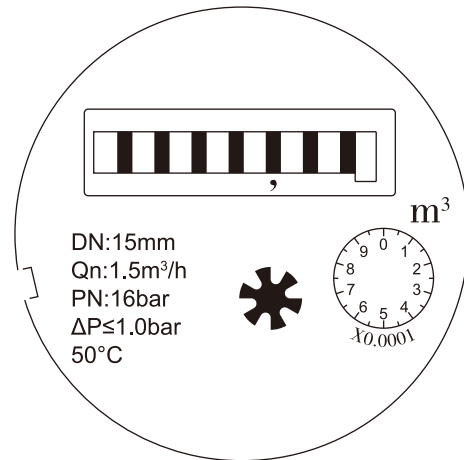
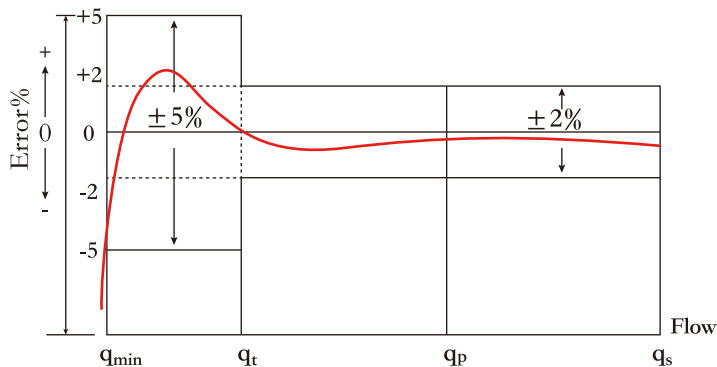
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

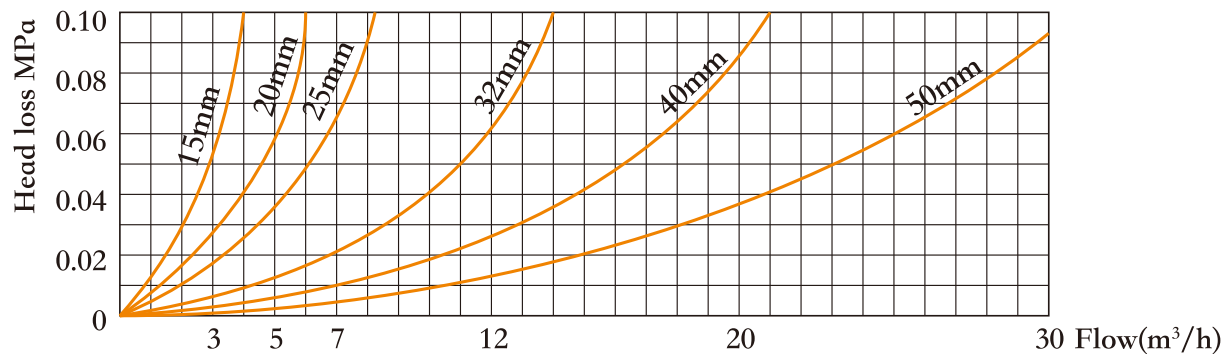


Model: LXDG-13B-25B

Error Curve:

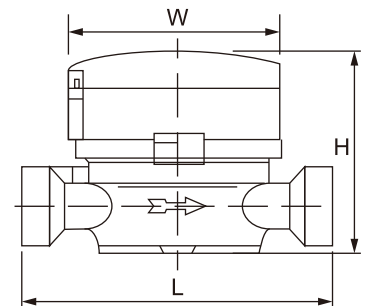


Head Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	W Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	110	77	80	G 3/4B	0.57
20	130	77	80	G 1B	0.67
25	160	77	85	G1 1/4B	0.91



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXDG-13C-20C

Single Jet Water Meter

Feature:

- Single jet, Dry-dial
- Material body: Nylon plastic
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C)
- Accuracy: Class C / R160

Main Technical Data:

According to ISO4064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h		L/h		m ³	
15	1/2"	C	3	1.5	22.5	15	0.0001	99999
20	3/4"	C	5	2.5	37.5	25	0.0001	99999

According to ISO4064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m ³ /h)		3.125	5
Q3(m ³ /h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
Min reading(m ³)		0.0001	0.0001
Max reading(m ³)		99999	99999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

INDICATING ERROR

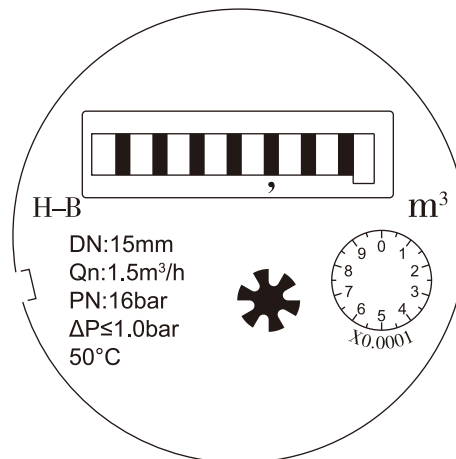
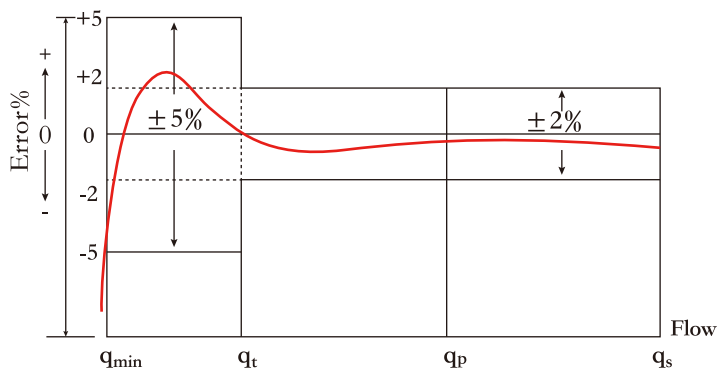
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

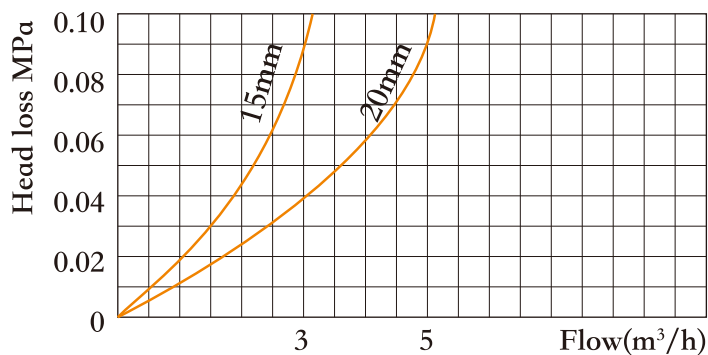


Model: LXDG-13C-20C

Error Curve:

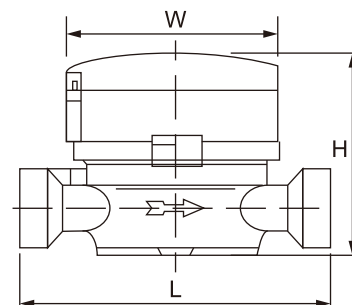


Head Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	W Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	110	77	80	G 3/4B	0.35
20	130	77	80	G 1B	0.45



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: ≤ 1.6 Mpa



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Model: LXH-15A1-20A1

Volumetric Water Meter

Feature:

- Volumetric piston type
- Material body: Brass
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C)
- Accuracy: Class C / R160 / R200



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h		L/h		m ³	
15	1/2"	C	3	1.5	22.5	15	0.0001	9999
20	3/4"	C	5	2.5	37.5	25	0.0001	9999

According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m ³ /h)		3.125	5
Q3(m ³ /h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
R200	Q2(L/h)	20	32
	Q1(L/h)	12.5	20
Min reading(m ³)		0.0001	0.0001
Max reading(m ³)		9999	9999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

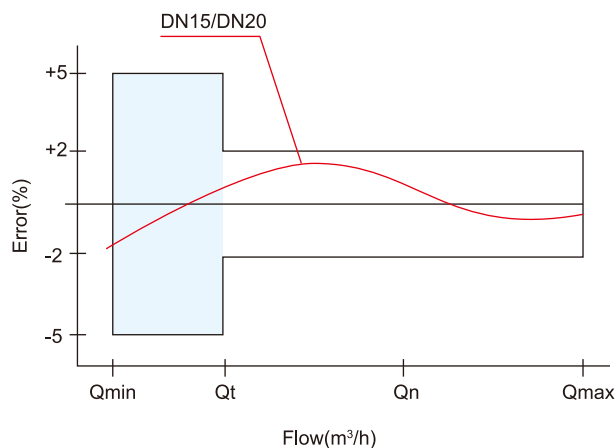
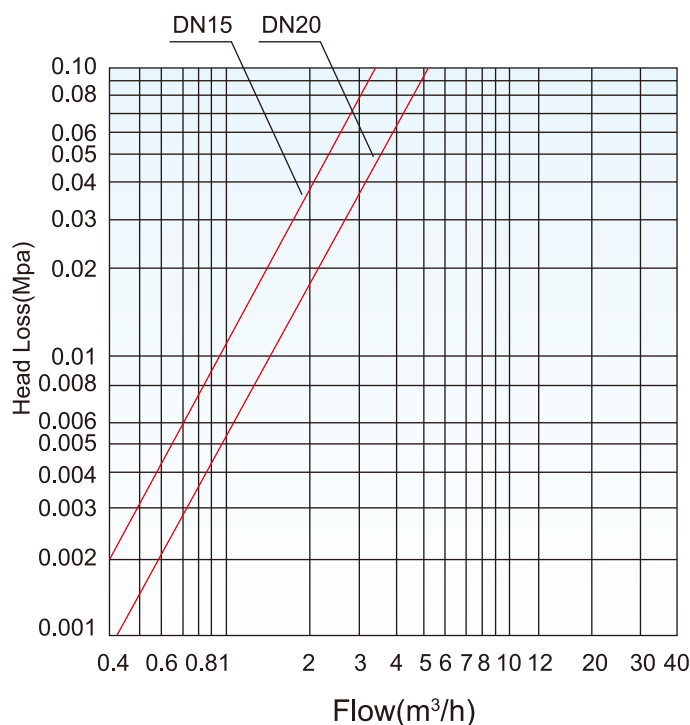
Model: LXH-15A1-20A1

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

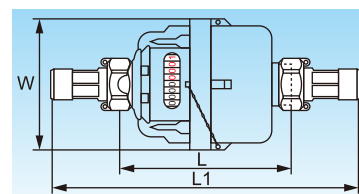
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

Head Loss and Error Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	L1 Width	W Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	115	191	86	G 3/4B	1.00
20	130	228	86	G 1B	1.20



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXH-15A2-20A2

Volumetric Water Meter

Feature:

- Pre-equipped for Pulse emitter
- Volumetric piston type
- Material body: Brass
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C)
- Accuracy: Class C / R160 / R200



Pre-equipped For
Pulse- emitter



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h		L/h		m ³	
15	1/2"	C	3	1.5	22.5	15	0.0001	9999
20	3/4"	C	5	2.5	37.5	25	0.0001	9999

According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m ³ /h)		3.125	5
Q3(m ³ /h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
R200	Q2(L/h)	20	32
	Q1(L/h)	12.5	20
Min reading(m ³)		0.0001	0.0001
Max reading(m ³)		9999	9999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

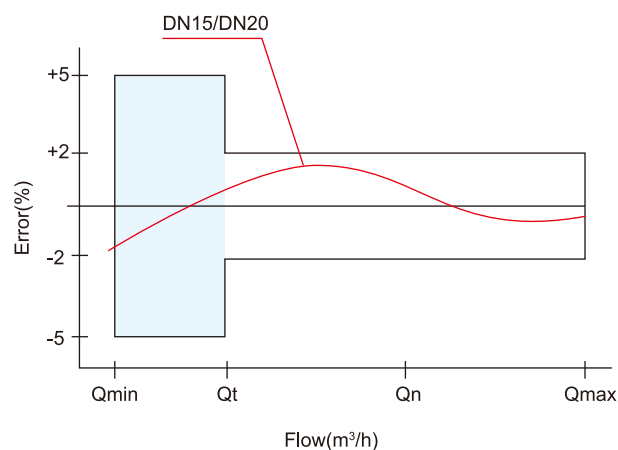
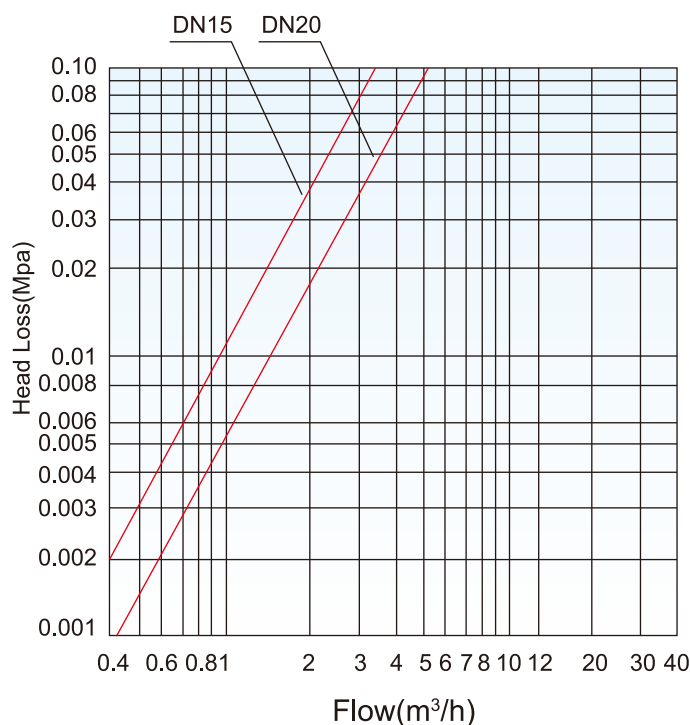
Model: LXH-15A2-20A2

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

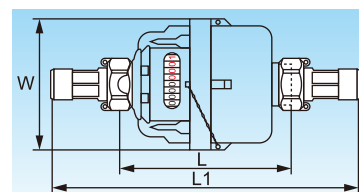
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

Head Loss and Error Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	L1 Width	W Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	115	191	86	G 3/4B	1.00
20	130	228	86	G 1B	1.20



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXH-15A-20A

Volumetric Water Meter

Feature:

- Pre-equipped for Pulse emitter
- Volumetric piston type
- Material body: Nylon plastic
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C)
- Accuracy: Class C / R160 / R200



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	C	3	1.5	22.5	15	0.0001	9999
20	3/4"	C	5	2.5	37.5	25	0.0001	9999

According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m³/h)		3.125	5
Q3(m³/h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
R200	Q2(L/h)	20	32
	Q1(L/h)	12.5	20
Min reading(m³)		0.0001	0.0001
Max reading(m³)		9999	9999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

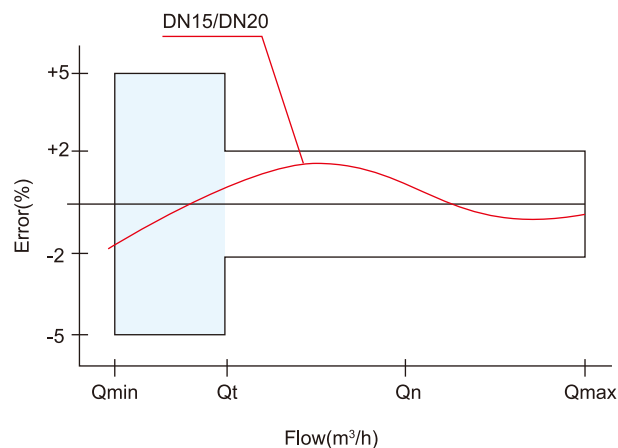
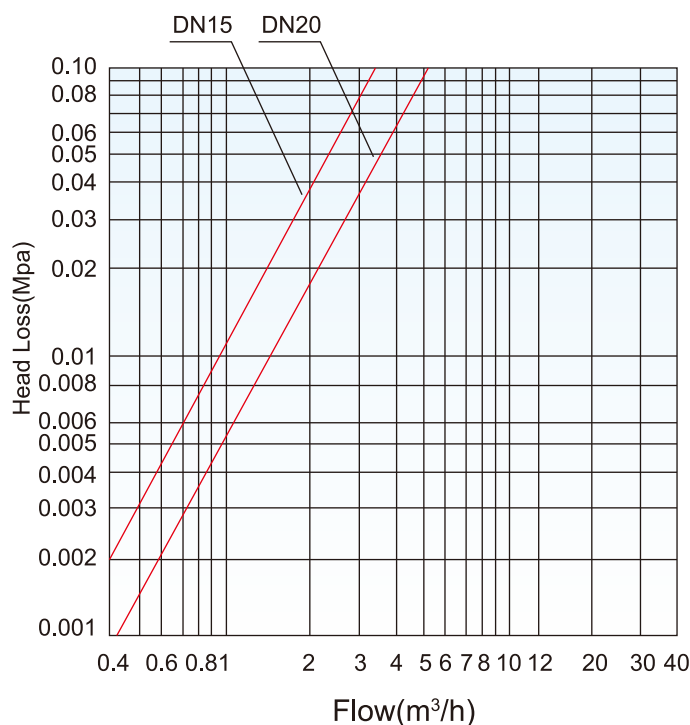
Model: LXH-15A-20A

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

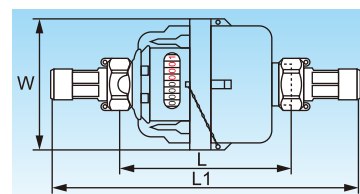
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

Head Loss and Error Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	L1 Width	W Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	110	191	86	G 3/4B	0.46
20	130	228	86	G 1B	0.70



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXH-15A4-20A4

Volumetric Water Meter

Feature:

- Volumetric piston type
- Material body: Brass
- Size: DN15 to DN20mm, ($\frac{1}{2}$ "- $\frac{3}{4}$ ")
- Available for cold water (50°C)
- Accuracy: Class C / R160 / R200



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h		L/h		m ³	
15	1/2"	C	3	1.5	22.5	15	0.0001	99999
20	3/4"	C	5	2.5	37.5	25	0.0001	99999

According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m ³ /h)		3.125	5
Q3(m ³ /h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
R200	Q2(L/h)	20	32
	Q1(L/h)	12.5	20
Min reading(m ³)		0.0001	0.0001
Max reading(m ³)		99999	99999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

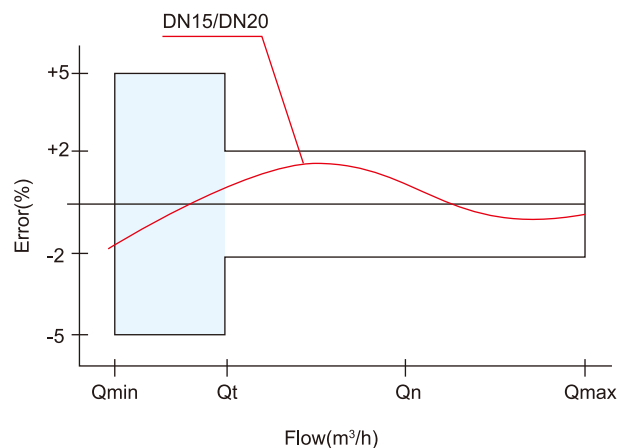
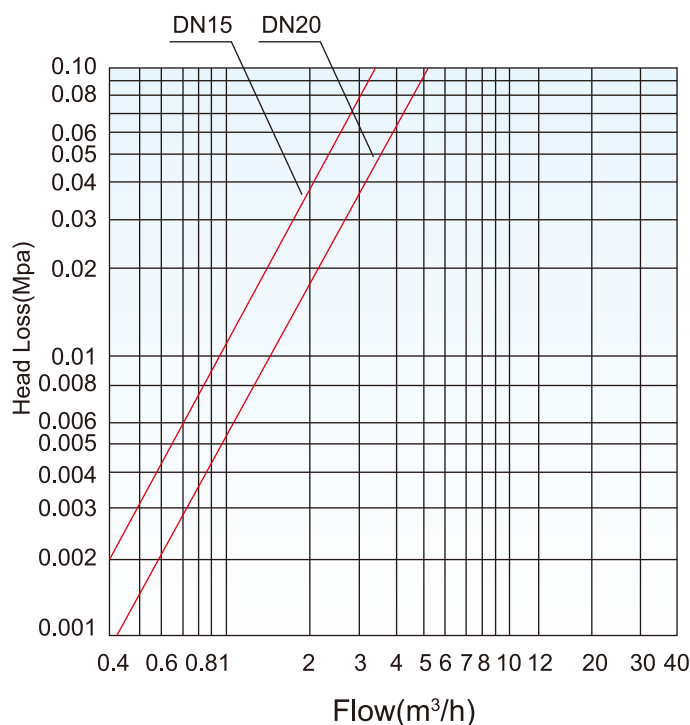
Model: LXH-15A4-20A4

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

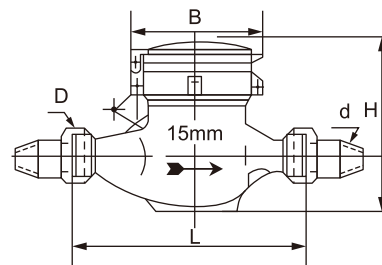
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

Head Loss and Error Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	95	121	G 3/4B	1.4
20	190	95	121	G 1B	1.7



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXH-15A5-20A5

Volumetric Water Meter

Feature:

- Volumetric piston type
- Material body: Nylon plastic
- Size: DN15 to DN20mm, (1/2"-3/4")
- Available for cold water (50°C)
- Accuracy: Class C / R160 / R200



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	C	3	1.5	22.5	15	0.0001	99999
20	3/4"	C	5	2.5	37.5	25	0.0001	99999

According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"
Q4(m³/h)		3.125	5
Q3(m³/h)		2.5	4
R160	Q2(L/h)	25	40
	Q1(L/h)	15.625	25
R200	Q2(L/h)	20	32
	Q1(L/h)	12.5	20
Min reading(m³)		0.0001	0.0001
Max reading(m³)		99999	99999
Max pressure(MAP)		16	16
Max loss(Δ P)		63	63
Max temperature		T50	T50

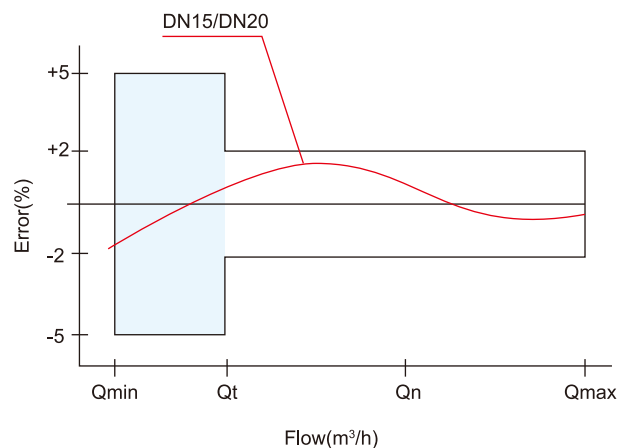
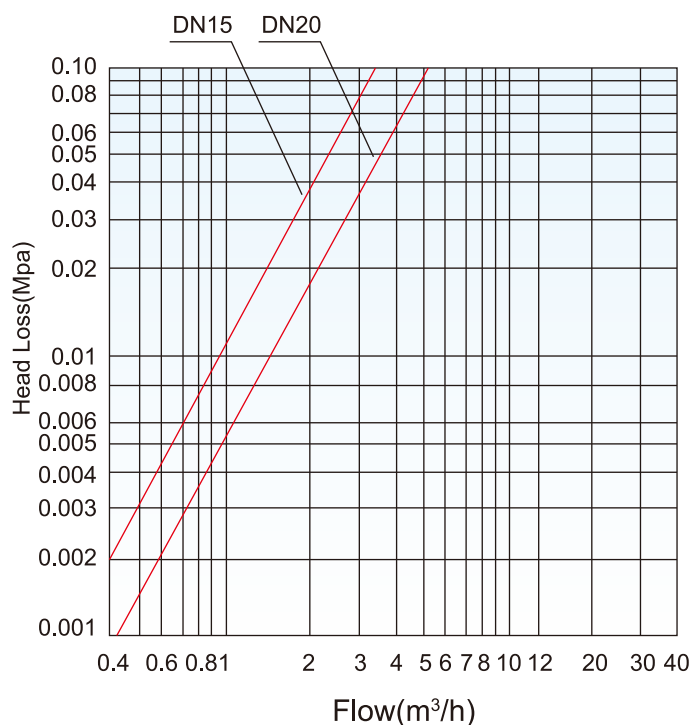
Model: LXH-15A5-20A5

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (q_{min}) to transitional flow rate (q_t) exclusive boundary

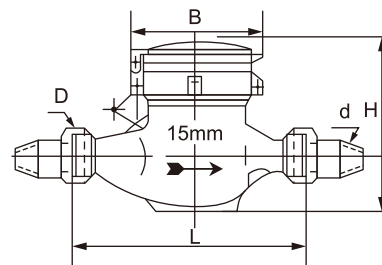
At high zone is $\pm 2\%$ from transitional flow rate (q_t) to overload flow rate (q_s)

Head Loss and Error Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	W Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	95	125	G 3/4B	0.58
20	190	95	125	G 1B	0.65



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSGY-15E-50E

Pulse Output Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Brass
- Size: DN15 to DN50mm, (½"-2")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B / Class C / R160
- Pulse output reading: 1 L/pulse; 10 L/pulse; 0.1 gallon/pulse; 1 gallon/pulse



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

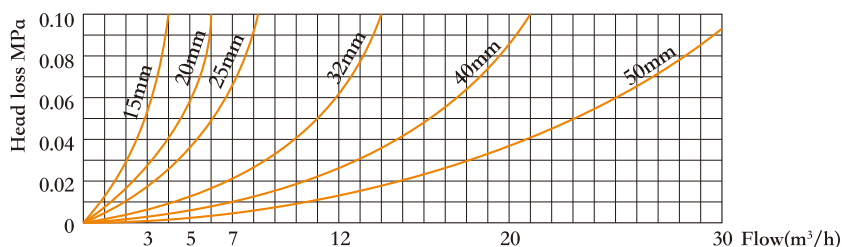
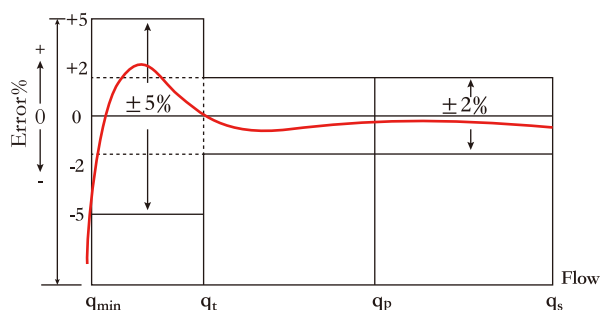
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSGY-15E-50E

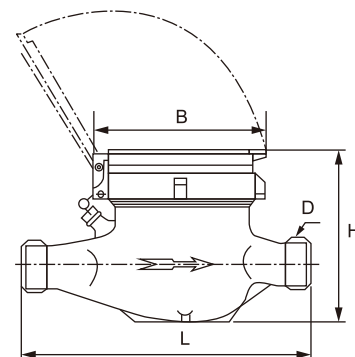
According to IS04064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	108	G 3/4B	1.4
20	190	99	108	G 1B	1.7
25	225	104	114	G1 1/4B	2.4
32	230	104	117	G1 1/2B	2.7
40	245	128	158	G 2B	4.5
50	280	128	183	G2 1/2B	7.2



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXSGY-15S-50S

Pulse Output Water Meter

Feature:

- Multi jet, Dry-dial
- Material body: Nylon plastic
- Size: DN15 to DN50mm, (½"-2")
- Available for cold water (50°C)
- Accuracy: Class B / Class C / R160
- Pulse output reading: 1 L/pulse; 10 L/pulse; 0.1 gallon/pulse; 1 gallon/pulse



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h		L/h		m³	
15	1/2"	A	3	1.5	150	60	0.0001	99999
		B			120	30		
		C			22.5	15		
20	3/4"	A	5	2.5	250	100	0.0001	99999
		B			200	50		
		C			37.5	25		
25	1"	A	7	3.5	350	140	0.0001	99999
		B			280	70		
32	1 1/4"	A	12	6	600	240	0.0001	99999
		B			480	120		
40	1 1/2"	A	20	10	1000	400	0.001	99999
		B			800	200		
50	2"	A	30	15	1500	600	0.001	99999
		B			1200	300		

INDICATING ERROR

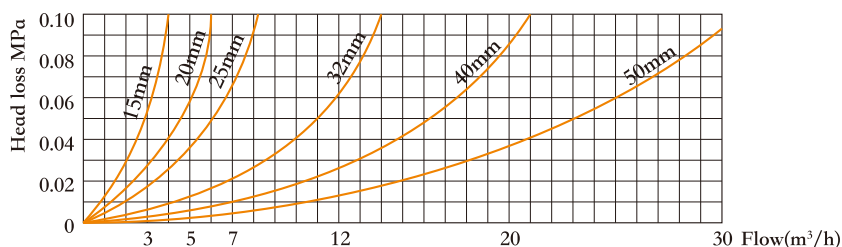
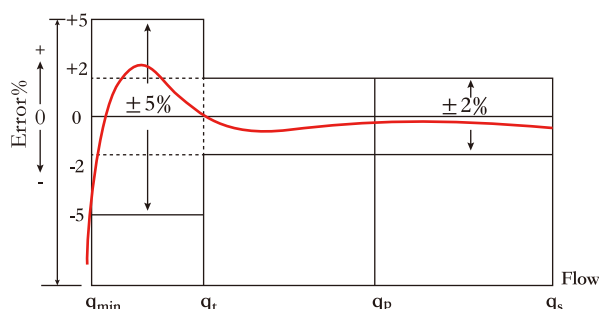
At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

Model: LXSGY-15S-50S

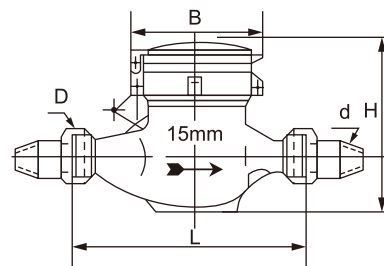
According to ISO4064(GB/T778.1-2007) Standard

DN Size	Mm Inch	15 1/2"	20 3/4"	25 1"	32 1 1/4"	40 1 1/2"	50 2"
Q4(m³/h)		3.125	5	7.875	12.5	20	31.25
Q3(m³/h)		2.5	4	6.3	10	16	25
R80	Q2(L/h)	50	80	126	200	320	500
	Q1(L/h)	31.25	50	78.75	125	200	312.5
R100	Q2(L/h)	40	64	100.8	160	256	400
	Q1(L/h)	25	40	63	100	160	250
R125	Q2(L/h)	32	51.2	80.64	128	204.8	320
	Q1(L/h)	20	32	50.4	80	128	200
R160	Q2(L/h)	25	40	63	100	160	250
	Q1(L/h)	15.625	25	39.375	62.5	100	156.25
Min reading(m³)		0.0001	0.0001	0.0001	0.0001	0.001	0.001
Max reading(m³)		99999	99999	99999	99999	99999	99999
Max pressure(MAP)		16	16	16	16	16	16
Max loss(ΔP)		63	63	63	63	63	63
Max temperature		T50	T50	T50	T50	T50	T50



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread D	Weight Kg
(mm)	(mm)				
15	165	99	104	G 3/4B	0.53
20	190	99	125	G 1B	0.6
25	260	106	132	G1 1/4B	0.78
32	230	104	120	G1 1/2B	0.82
40	245	128	150	G 2B	1.2
50	300	130	150	G2 1/2B	1.46



WORKING CONDITION:

Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Working pressure: $\leq 1.6\text{Mpa}$



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Model: LXLC-50E2-500E2

Woltman Water Meter

Feature:

- Woltman type, Dry-dial
- Material body: Gray cast iron / Ductile cast iron
- Size: DN50 to DN500mm, (2"-20")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B standard



Main Technical Data:

According to ISO4064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m³/h				m³	
50	2"	B	30	15	3	0.45	0.01	999999
65	2.5"	B	50	25	5	0.75	0.01	999999
80	3"	B	80	40	8	1.2	0.01	999999
100	4"	B	120	60	12	1.8	0.01	999999
125	5"	B	200	100	20	3	0.01	999999
150	6"	B	300	150	30	4.5	0.01	999999
200	8"	B	500	250	50	7.5	0.01	999999
250	10"	B	800	400	80	12	0.01	999999
300	12"	B	1200	600	120	18	0.01	999999
400	16"	B	2000	1000	200	30	0.01	999999
500	20"	B	3000	1500	300	45	0.01	999999

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

WORKING CONDITION:

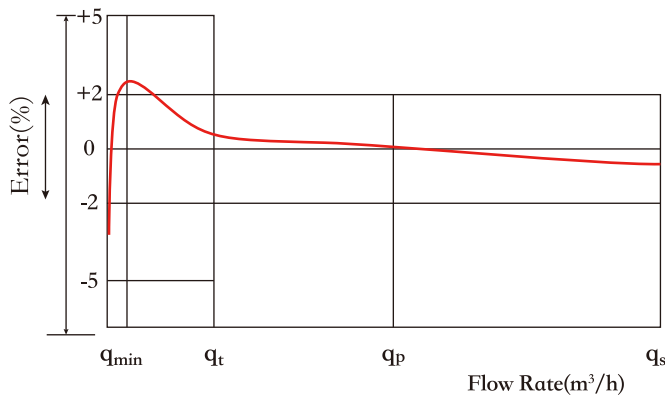
Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

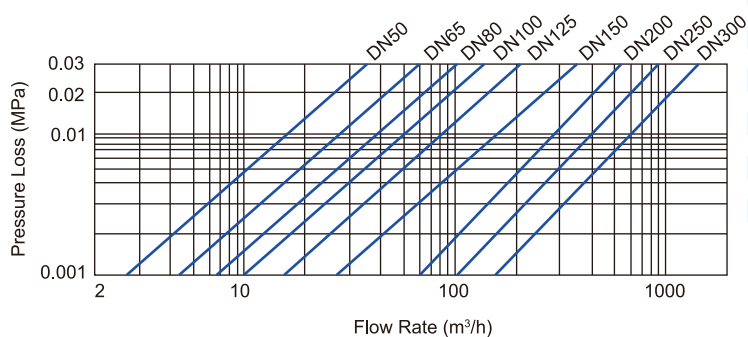
Working pressure: $\leq 1.6\text{Mpa}$

Model: LXLC-50E2-500E2

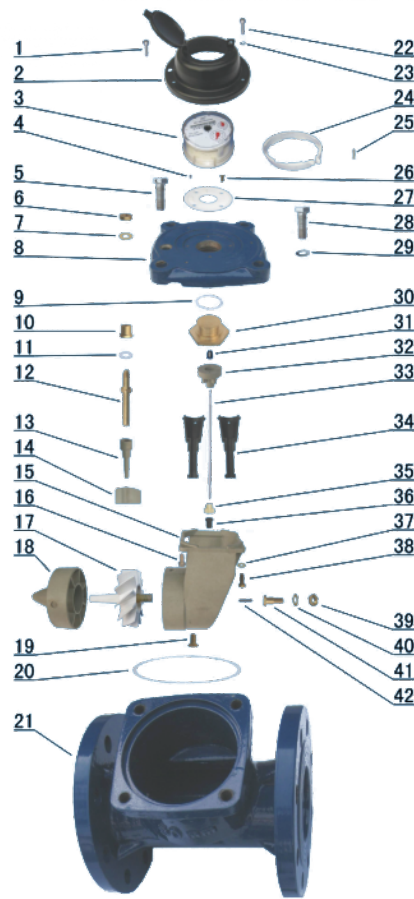
Error Curve:



Pressure Loss Curve:

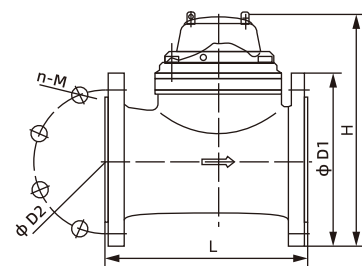


Code	Description	Material	QTY
1	Screw For Sealing	Stainless Steel	2
2	Cover With Lid	Assembly	1
3	Sealed Register	Assembly	1
4	Position Pin	Stainless Steel	1
5	Lead Seal Bolt	Stainless Steel	2
6	Adjusting Nut	Brass	1
7	Gasket	Brass	1
8	Flange Cover	GGG40 ductile Iron	1
9	O-ring	Silicon Rubber	1
10	Bush	Brass	1
11	Gasket	Synthetic Rubber	1
12	Adjusting Lever	Brass	1
13	Connecting Lever	MPPO	1
14	Adjusting Plate	MPPO	1
15	Support	MPPO	1
16	Bolt	Brass	1
17	Turbine Component	Assembly	1
18	Rectifier	MPPO	1
19	Screw	Brass	1
20	O-ring	Synthetic Rubber	1
21	Body	GGG40 ductile Iron	1
22	Screw M4x20	Stainless Steel	2
23	Gasket	Stainless Steel	3
24	Retainer	ABS	1
25	Fixing pin	Brass	1
26	Screw	Brass	4
27	Support	ABS	1
28	Bolt M12x35	Stainless Steel	2
29	Gasket	Stainless Steel	4
30	Upper Bearing Plate	Brass	1
31	Upper Bearing	Nylon With Graphite	1
32	Magnet Component	Component	1
33	Transmission Shaft	Stainless Steel	1
34	Sheath	MPPO	2
35	Bevel Gear	Nylon	1
36	Lower Bearing	Nylon With Graphite	1
37	Gasket	Brass	4
38	Screw	Brass	3
39	Nut	Brass	1
40	Gasket	Brass	1
41	Turbine Shaft Hold	Brass	1
42	Turbine Shaft	Tungsten Steel	1



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread			Weight
(mm)	(mm)			D	Bolt Circle Dia D1	Connecting Bolt	Kg
50	200	175	257	165	125	4xM16	12
65	200	185	267	185	145	4xM16	13
80	225	200	277	200	160	8xM16	15
100	250	220	287	220	180	8xM16	19
125	250	245	297	245	210	8xM16	22
150	250	285	375	285	240	8xM20	47
200	350	345	400	340	295	8xM20	48
250	450	395	484	395	350	8xM20	110
300	450	445	506	445	400	12xM20	115
400	500	565	621	565	515	16xM24	180
500	500	670	725	670	620	20xM24	330



Model: LXLC-50E1-200E1

Woltman Water Meter

Feature:

- Woltman type, Dry-dial
- Material body: Gray cast iron / Ductile cast iron
- Size: DN50 to DN200mm, (2"-8")
- Available for cold water (50°C), hot water (90°C)
- Accuracy: Class B standard



Main Technical Data:

According to IS04064(GB/T778.1-1996) Standard

Size		Class	Qs Overload Flow	Qp Nominal Flow	Qt Transitional Flow	Qmin Min Flow	Min Reading	Max Reading
DN(mm)	Inch		m ³ /h				m ³	
50	2"	B	30	15	3	0.45	0.01	999999
65	2.5"	B	50	25	5	0.75	0.01	999999
80	3"	B	80	40	8	1.2	0.01	999999
100	4"	B	120	60	12	1.8	0.01	999999
125	5"	B	200	100	20	3	0.01	999999
150	6"	B	300	150	30	4.5	0.01	999999
200	8"	B	500	250	50	7.5	0.01	999999

INDICATING ERROR

At low zone is $\pm 5\%$ from minimum flow rate (qmin) to transitional flow rate (qt) exclusive boundary

At high zone is $\pm 2\%$ from transitional flow rate (qt) to overload flow rate (qs)

WORKING CONDITION:

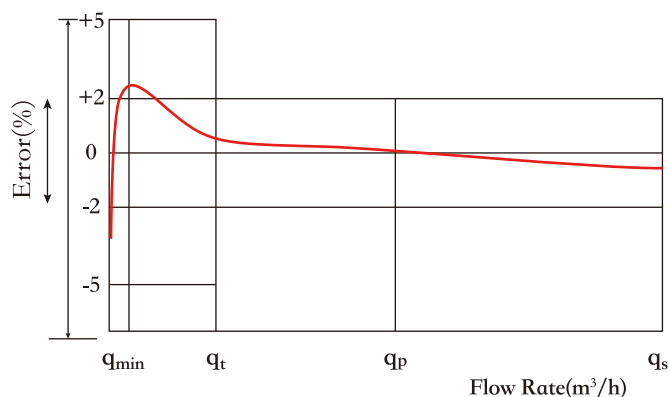
Water temperature: $\leq 50^{\circ}\text{C}$ for cold water meter

Water temperature: $\leq 90^{\circ}\text{C}$ for hot water meter

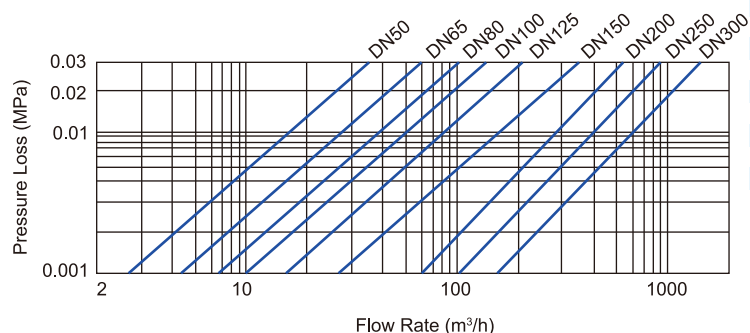
Working pressure: $\leq 1.6\text{Mpa}$

Model: LXLC-50E1-200E1

Error Curve:

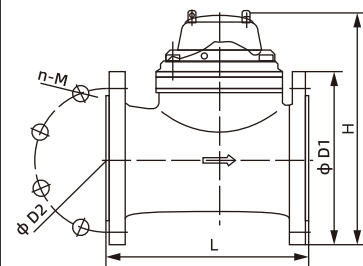


Pressure Loss Curve:



Dimensions and Weight:

Meter Size Dia DN	L Length	B Width	H Height	Connecting Thread			Weight
(mm)	(mm)			D	Bolt Circle Dia D1	Connecting Bolt	Kg
50	200	175	250	165	125	4xM16	12
65	200	185	255	185	145	4xM16	13
80	225	200	265	200	160	8xM16	15
100	250	220	275	220	180	8xM16	19
125	250	245	285	245	210	8xM16	22
150	300	285	375	285	240	8xM20	47
200	350	345	400	340	295	8xM20	48



Code	Description	Material	QTY
1	Screw For Sealing	Stainless Steel	2
2	Cover With Lid	Assembly	1
3	Sealed Register	Assembly	1
4	Position Pin	Stainless Steel	1
5	Lead Seal Bolt	Stainless Steel	2
6	Adjusting Nut	Brass	1
7	Gasket	Brass	1
8	Flange Cover	GGG40 ductile Iron	1
9	O-ring	Silicon Rubber	1
10	Bush	Brass	1
11	Gasket	Synthetic Rubber	1
12	Adjusting Lever	Brass	1
13	Connecting Lever	MPPO	1
14	Adjusting Plate	MPPO	1
15	Support	MPPO	1
16	Bolt	Brass	1
17	Turbine Component	Assembly	1
18	Rectifier	MPPO	1
19	Screw	Brass	1
20	O-ring	Synthetic Rubber	1
21	Body	GGG40 ductile Iron	1
22	Screw M4x20	Stainless Steel	2
23	Gasket	Stainless Steel	3
24	Retainer	ABS	1
25	Fixing pin	Brass	1
26	Screw	Brass	4
27	Support	ABS	1
28	Bolt M12x35	Stainless Steel	2
29	Gasket	Stainless Steel	4
30	Upper Bearing Plate	Brass	1
31	Upper Bearing	Nylon With Graphite	1
32	Magnet Component	Component	1
33	Transmission Shaft	Stainless Steel	1
34	Sheath	MPPO	2
35	Bevel Gear	Nylon	1
36	Lower Bearing	Nylon With Graphite	1
37	Gasket	Brass	4
38	Screw	Brass	3
39	Nut	Brass	1
40	Gasket	Brass	1
41	Turbine Shaft Hold	Brass	1
42	Turbine Shaft	Tungsten Steel	1



NOTE: The flange dimension conforms to ISO7005-2:1988 standard.
Order for products of special requirements is also accepted.



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