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- Bronze Multi Jet Meter • Polyethylene Multi Jet Meter • Bronze Volumetric Vertical Meter • Woltman Water Meter
- Ultrasonic Water Meter • Bulk Ultrasonic Water Meter • LoRa Wireless Multijet Water Meter • Electromagnetic Flowmeter
- Gate valve • Anti-fraud valve • Check Valve (Soft seal) • Ball Valve • Tankless Electric Water Heaters • Gas regulator



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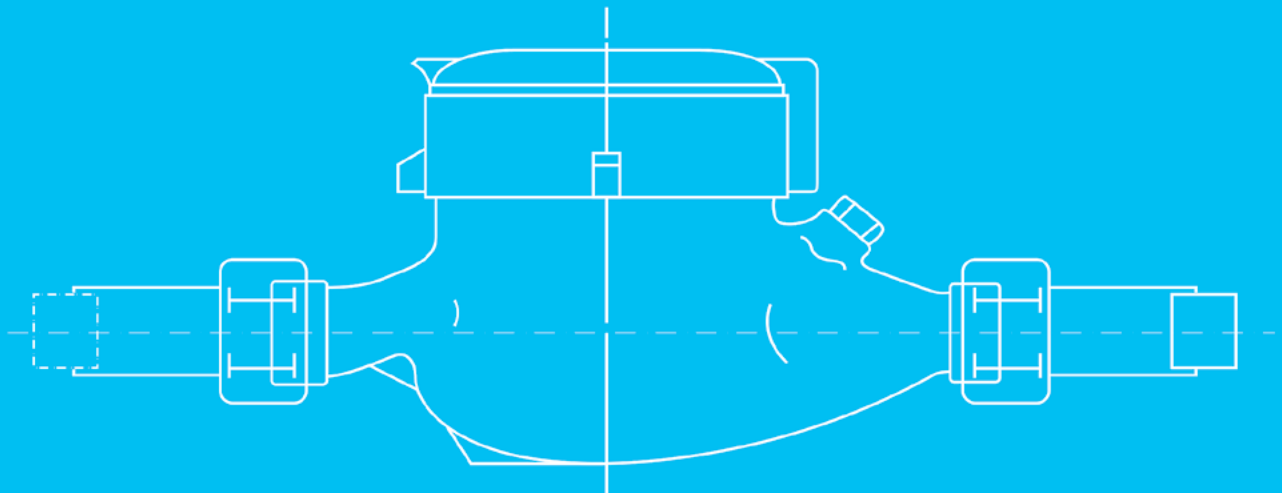
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International
certifications



Water Meters



MULTI JET WATER METER LXSG-15~ LXSG-50

DRY-DIAL BRASS • PLASTIC BODY WATER METERS

Multi-jet dry-type water meter for residential applications in sizes 15 mm to 50 mm, for cold or hot water.

Features

- Magnetic drive for lower transmission resistance
- Magnetic shield for external magnetic field protection
- Sealed dry register ensures long-term clear reading
- External regulating device

Accessories included: 2 couplings, 2 coupling nuts, and 2 washers

Optional Features

- Register types: dry, semi-dry, or super-dry
- Accuracy: R80, R100, R125, R160
- Size: 15~50mm
- Cold or hot water versions
- Non-return valve
- Reed switch option
- Several lengths and connection types available upon request
- Thread types: BSP / NPT

Maximum Permissible Error

- (1) In the lower zone, from q_{min} (inclusive) up to but not including q_t : $\pm 5\%$
- (2) In the upper zone, from q_t (inclusive) up to q_s : $\pm 2\%$ ($\pm 3\%$ for hot water meters)

Standards Compliance

Technical data conform to international standard ISO 4064

Working Conditions

- Water temperature: 0.1°C to 40°C for cold-water meters
- 0.1°C to 90°C for hot-water meters
- Water pressure: <1.6 MPa (16 bar)



Magnet Position	Liter / Pulse
* 0.0001	1
* 0.001	10
* 0.01	100
* 0.1	1000

Main Technical Data

Model	LXSG-15	LXSG-20	LXSG-25	LXSG-32	LXSG-40	LXSG-50
DN (mm)	15	20	25	32	40	50
Size (inch)	1/2"	3/4"	1"	1 - 1/4"	1 - 1/2"	2"
Q4 (l/h)	3125	5000	7875	12500	20000	31250
Q3 (l/h)	2500	4000	6300	10000	16000	25000
R=80	Q2 (l/h)	50	80	126	200	320
	Q1 (l/h)	31.25	50	78.75	125	200
R=100	Q2 (l/h)	40	64	100.8	160	256
	Q1 (l/h)	25	40	63	100	160
R=125	Q2 (l/h)	32	51.2	80.64	128	204.8
	Q1 (l/h)	20	32	50.5	80	128
R=160	Q2 (l/h)	25	40	63	100	160
	Q1 (l/h)	15.62	25	39.37	62.5	100
Max. Reading (m³)	99,999	99,999	99,999	99,999	99,999	99,999
Min. Reading (Liter)	0.05	0.05	0.05	0.05	0.05	0.05
Max. Pressure (Bar)	16	16	16	16	16	16
Pressure Loss (ΔP)	63					
Max. Temperature	T=50 / 90					
Pulse Output Option	Vmax=24V					
	Imax=100mA					
	Pmax=2W					
Bronze body Weight (kg)	1.65	1.79	1.85	2.68	5.25	8.5
Reinforced Plastic body Weight (kg)	0.695	0.806	0.99	-	-	-



Water temperature

0.1°C ~ 50°C
(Cold water meter) / 1.0°C ~ 90°C
(Hot water meter)

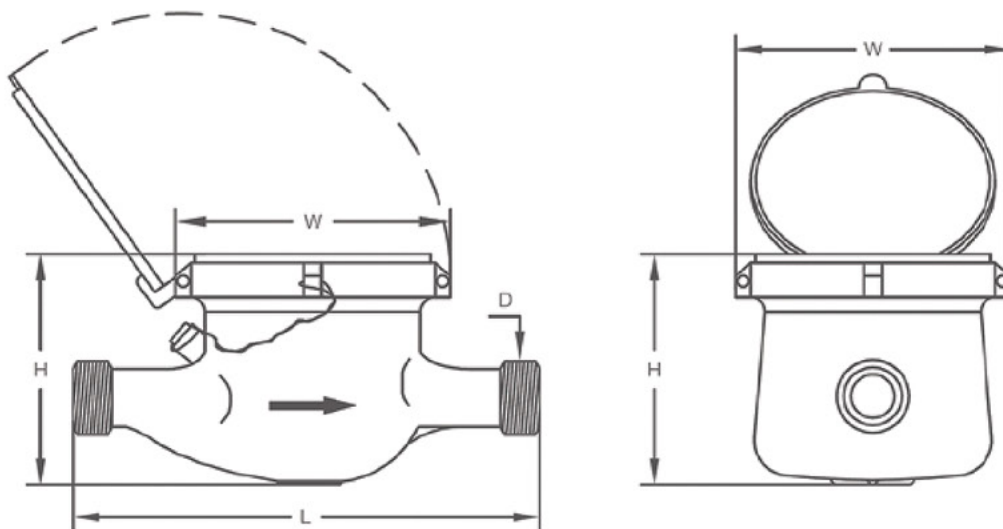
Water pressure

1.0 MPa or 1.6 MPa

Manufacturing standard

ISO 4064 / ISO 9001
Class B

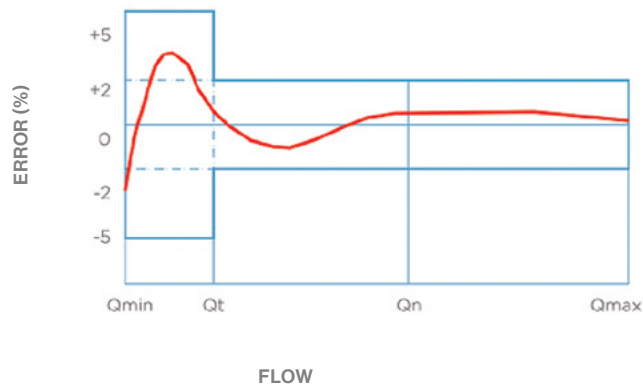
Dimensions Picture



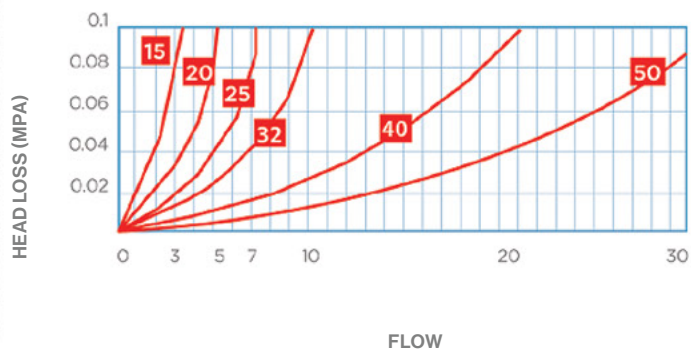
Dimensions and weight

Model	LXSG-15	LXSG-20	LXSG-25	LXSG-32	LXSG-40	LXSG-50
DN (mm)	15	20	25	32	40	50
Size (inch)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Length (L)	165/190	190	260	260	300	280
Width (W)	99/104	98	103.5	103.5	125	160
Height (H)	116/121	117	124	124	162	187.5
Connecting Thread D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2B	Flange end
Weight (Kgs)	1.65	1.79	1.85	2.68	5.25	

Flow Error Curve



Head Loss Curve



WOLTMAN WATER METER LXLC-50 ~ LXLC-300

Application

Measure the volume of cold (hot) water passing through the pipeline.

Features

- Removable element structure, easy installation and maintenance
- Detachable without removing the meter from the pipeline
- Dry-dial, magnetic drive sensitive action, small pressure loss
- Vacuum sealed register ensures the dial keeps free from fog and ensures a clear reading
- High quality materials for steadiness and reliability
- Technical data conform to international standard ISO 4064

Working Condition

- Water temperature: 0.1°C ~ 50°C (0.1°C ~ 90°C for hot water meter)
- Water pressure: PN10/16/25

Maximum Permissible Error

- In lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$
- In upper zone from q_t inclusive up to and including q_s is $\pm 2\%$ ($\pm 3\%$ for hot water meter)

Flow Technique Specification



Common plastic register



Copper register



Full glass register

Nominal Flow		Overload Flow Q ₄	Permanent Flow Q ₃	Q ₃ / Q ₁	Q ₂ / Q ₁	Transitional Flow Q ₂	Minimum Flow Q ₁	Minimum Reading		Maximum Reading	
								Full Glass Seal	Common Seal	Full Glass Seal	Common Seal
Model	DN (mm)	m ³ /h				m ³ / h		m ³			
LXLC-50	50	31.25	25	50	1.6	0.8	0.5	0.0005	0.0002	999,999	999,999
LXLC-65	65	50	40	50	1.6	1.28	0.8	0.0005	0.0002	999,999	999,999
LXLC-80	80	78.75	63	50	1.6	2	1.3	0.002	0.002	999,999	9,999,999
LXLC-100	100	125	100	50	1.6	3.2	2	0.002	0.002	999,999	9,999,999
LXLC-125	125	200	160	50	1.6	5.12	3.2	0.002	0.002	999,999	9,999,999
LXLC-150	150	312.5	250	50	1.6	8	5	0.002	0.002	999,999	9,999,999
LXLC-200	200	500	400	50	1.6	12.8	8	0.002	0.002	999,999	9,999,999
LXLC-250	250	787.5	630	50	1.6	20.16	12.6	0.02	0.02	9,999,999	99,999,999
LXLC-300	300	1250	1000	50	1.6	32	20	0.02	0.02	9,999,999	99,999,999

Water temperature

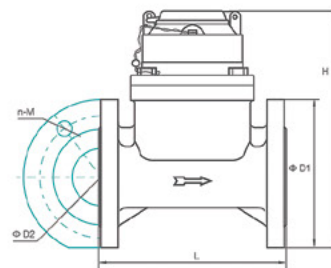
0.1°C ~ 50°C
(Cold water meter) / 1.0°C ~ 90°C
(Hot water meter)

Water pressure

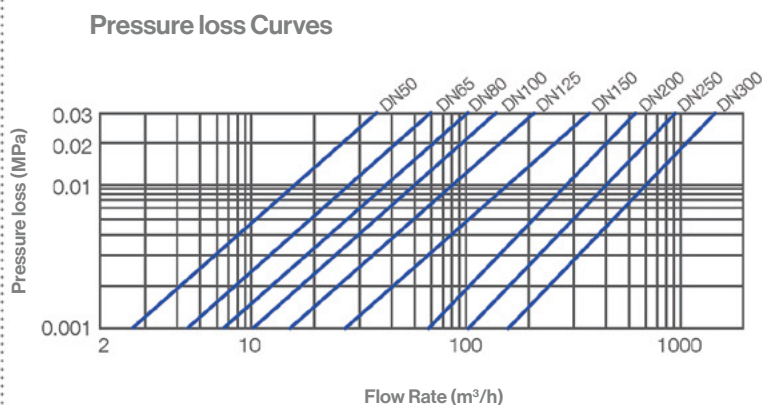
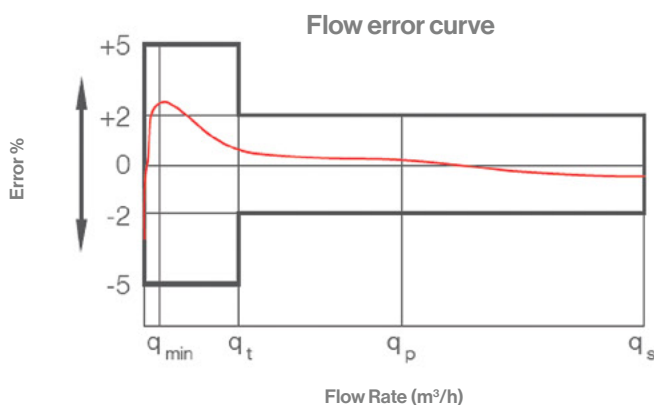
1.0 MPa or 1.6 MPa

Dimensions

Model	DN (mm)	Size	L Length	H Height	Connecting Flange		
		mm			Φ D1 Outside Diameter	Φ D2 Bolt Circle Diameter	Connecting Bolts (n-M)
LXLC-50	50	50	200	214	165	125	4-M16
LXLC-65	65	65	200	224	185	145	4-M16
LXLC-80	80	80	225	279	200	160	8-M16
LXLC-100	100	100	250	289	220	180	8-M16
LXLC-125	125	125	250	299	250	210	8-M16
LXLC-150	150	150	300	319	285	240	8-M16
LXLC-200	200	200	350	346	340	295	8-M20(1.0DE)
							8-M20(1.0DE)
LXLC-250	250	250	450	434	395(1.0MPa)	350(1.0MPa)	12-M20(1.0MPa)
					405(1.6MPa)	355(1.6MPa)	12-M24(1.6MPa)
LXLC-300	300	300	500	480	445(1.0MPa)	400(1.0MPa)	12-M20(1.0MPa)
					460(1.6MPa)	410(1.6MPa)	12-M24(1.6MPa)



NOTE: The flange dimension conforms to ISO7005-1:1988 standard. Flange standard can be customized. Order for products of special requirements is also accepted.



MULTI JET VERTICAL BRASS WATER METER

LXSG-15V ~ LXSG-50V

Application: Multi jet dry type water meter for vertical application in sizes 15mm-50mm for cold / hot water.

Features

- Magnetic Drive, lower transmission resistance
- Magnetic shield, for external magnetic field protection
- Sealed dry register ensures long time clear reading
- External regulating device

Accessories included: 2pcs coupling, 2pcs coupling nuts and 2pcs washers

Standards Compliance

Technical data conform to international standard ISO 4064

Working Conditions

- Water temperature: 0°C ~ 40°C for cold water meter
0°C ~ 90°C for hot water meter
- Water pressure: <1.6MPa (16 bar)

Maximum permissible error

- In lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$
- In upper zone from q_t inclusive up to and including q_s is $\pm 2\%$ ($\pm 3\%$ for hot water meter)

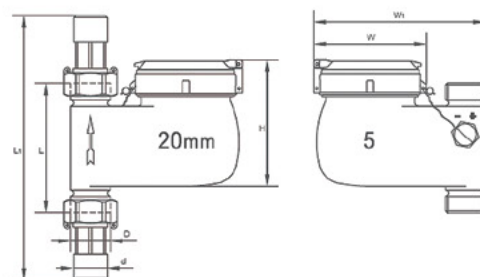
Technical Data

Model	LXSG-15V	LXSG-20V	LXSG-25V	LXSG-32V	LXSG-40V	LXSG-50V
DN	15	20	25	32	40	50
Size (inch)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Q4 (l/h)	3125	5000	7875	12500	20000	31250
Q3 (l/h)	2500	4000	6300	10000	16000	25000
R=80	Q2 (l/h)	50	80	126	200	320
	Q1 (l/h)	31.25	50	78.75	125	205
Max. Reading (m³)	99,999	99,999	99,999	99,999	99,999	99,999
Min. Reading (Liter)	0.05	0.05	0.05	0.05	0.05	0.05
Max. Pressure (Bar)	16	16	16	16	16	16
Pressure Loss (P)	63					
Max. Temperature	T=50 /90					
Pulse Output Option	Vmax=24V					
	Imax=100mA					
	Pmax=2W					

Model	LXSG-15V	LXSG-20V	LXSG-25V	LXSG-32V	LXSG-40V	LXSG-50V
Size (inch)	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
L1	194	204	228	274	278	280
L	100	100	108	150	150	160
H	99.5	99.5	122.6	133.6	133.6	187.5
W1	133	137	166	220	228	
Connecting Thread D	G3/4B	G1B	G1 1/4B	G1 1/2B	G2	Flange connect
d	R1/2	R3/4	R1	R1 1/4	R1 1/2	



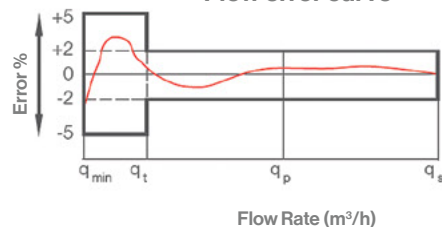
Overall dimension and weight



Pressure loss curves



Flow error curve



LXDG-15M~20M

SINGLE-JET, VANE WHEEL, DRY-DIAL WATER METER (MINITYPE WITH EIGHT NUMBER WHEELS)

Application: Measuring the volume of cold potable water passing through the pipeline.

Features

- Single-jet, dry-dial, free rotating register, small in size and light in weight.
- Magnetic drive.
- Resistance to exterior magnet interference.
- Keep the reading clear in a long term service.

Note

Measuring accuracy conform to ISO 4064 class B standard.

Working condition

- Water temperature: 32.18 °F ~ 86 °F.
- Water pressure : ≤1.0Mpa.

Maximum Permissible Error

- 1) in the lower zone from q_{min} inclusive up to but excluding q_t is $\pm 5\%$.
- (2) in the upper zone from q_t inclusive up to and including q_s is $\pm 2\%$.

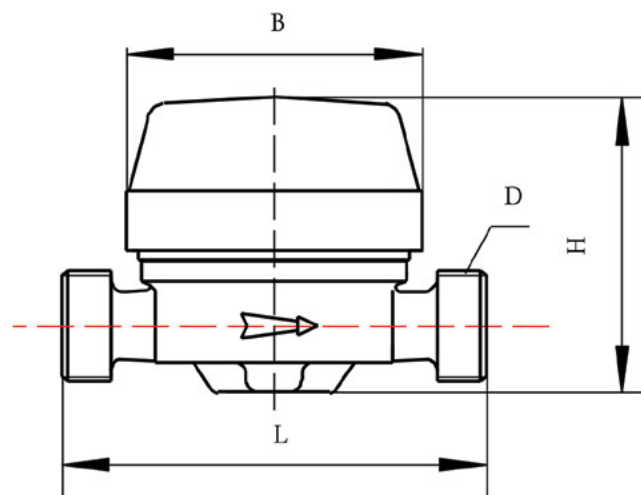


MAIN TECHNICAL SPECIFICATIONS

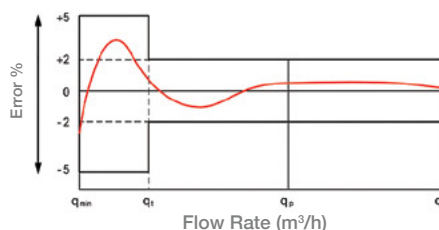
Type	Size (mm)	Class	q_s Overload Flow	q_p Permanent Flow	q_t Transitional Flow	q_{min} Minimum Flow	Minimum Reading	Maximum Reading
LXDG-15M	15	B	3.0	1.5	120	30	0.0001	99,999
LXDG-20M	20	B	5.0	2.5	200	50	0.0001	99,999

DIMENSIONS

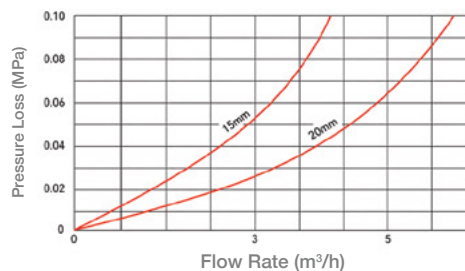
Type	Size	L Length	B Width	H Height	D Connecting Thread
		mm			
LXDG-15M	15	110	67.5	72	G3/4B
LXDG-20M	20	130	67.5	73.5	G1B



Flow Error Curve



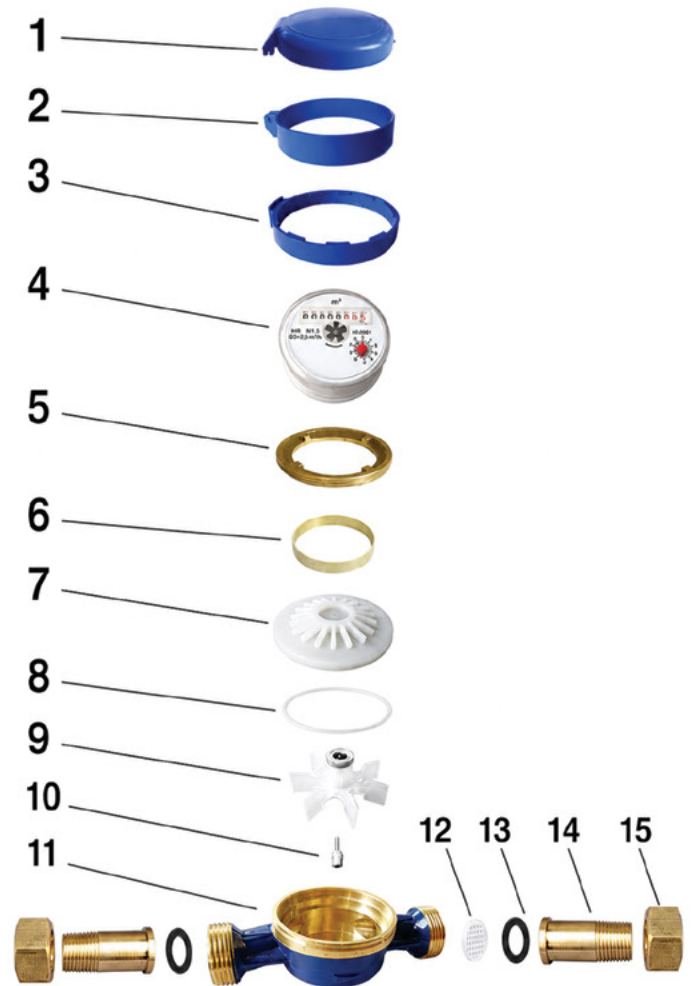
Pressure Loss Curve



Component List

LXDG-15M ~ 20M SINGLE-JET, VANE WHEEL, DRY-DIAL WATER METER

Code	Description	Material	QTY
1.	Lid	PP	1
2.	Mantle	ABS	1
3.	Retaining Ring	ABS	1
4.	Sealed Register	Assembly	1
5.	Fixing Ring	Brass	1
6.	Magnetic Shield Ring	Iron	1
7.	Separating Plate	PPO	1
8.	O-ring	Silicon Rubber	1
9.	Complete Turbine	Assembly	1
10.	Counter Pivot	Component	1
11.	Body	Brass	1
12.	Inlet Strainer	POM	1
13.	Coupling gasket	Rubber	2
14.	Coupling Tail Piece	Brass	2
15.	Coupling Nut	Brass	2





ULTRASONIC WATER METER LXSG-15U ~ LXSG-40U

Features

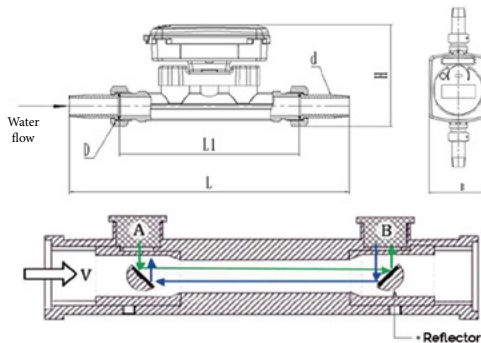
- Low starting rate ($0.005\text{m}^3/\text{h}$), able to accurately measure
- Flow rate as low as $0.0125\text{m}^3/\text{h}$
- Dynamic range (Q_3/Q_1) achieved 200:1
- No mechanical moving parts, no abrasion, allowing long-lasting lifetime
- Leak detection
- No measurement of air
- Installation in any position
- Displaying of error and alarm codes
- Optional battery provision
- Support RS-485, Pulse, LoRaWAN, GPRS, NB, concentrated management
- Suitable for outdoor installation



Outline dimension

Model	LXSG-15U	LXSG-20U	LXSG-25U	LXSG-32U	LXSG-40U
Length L (mm)	165	195	225	180	200
Length L1 (mm)	260	300	346	305	330
Width B (mm)	95	95	95	95	95
Height H (mm)	86	86	89	100	120

Dimensional drawing schemel



Technical parameter

Nominal diameter (mm)	15	20	25	32	40
Maximum flow Q_4 (m^3/h)	3.125	5	7.875	12.5	20
Permanent flow Q_3 (m^3/h)	2.5	4	6.3	10	16
Transitional flow Q_2 (m^3/h)	0.02	0.032	0.05	0.08	0.128
Minimum flow Q_1 (m^3/h)	0.0125	0.02	0.0315	0.05	0.08
Start-up flow (m^3/h)	0.005	0.005	0.008	0.01	0.015
Maximum reading	99999.999				
Measuring range	Q_3/Q_1 , R200 (R250 customizable)				
Accuracy class	Class 2				
Pressure loss class	<0.04MPa				
Working pressure	1.6 MPa				
Temperature class	T50				
Temperature range	(5 ~55) $^{\circ}\text{C}$				
Environment class	Indoor, Class B				
Electromagnetic class	E1 (Residential, Commercial and Industrial)				
Power supply	Built-in lithium battery DC 36V				
Battery life	8 - 10 years				
Installation position	Any angle				
Display	LCD, 8 digits + additional characters				
Installation pitch	U10/D5				
Communication interface	RS485 modbus/LoRa/NB-IOT/LoRaWAN				
Protection class	IP68				

BULK ULTRASONIC WATER METER

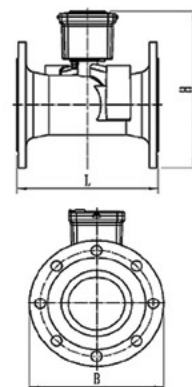
LXSG-50BU ~ LXSG-300BU

Features

- Low starting rate (0.033m³/h), able to accurately measure
- Flow rate as low as 0.0625m³/h
- Dynamic range (Q₃/Q₁) achieved 400:1 (better than Class D)
- No mechanical moving parts, no abrasion, allowing long-lasting lifetime.
- No measurement of air
- Installation in any position
- Displaying of error and alarm codes
- Optional battery provision
- Support RS-485(Modbus protocol), Pulse, LoRa/LoRaWAN, e GPRS, NB-IoT, concentrated management
- Suitable for outdoor installation
- Resistant to impurities



Outline dimensional drawing



Model	LXSG-50BU	LXSG-65BU	LXSG-80BU	LXSG-100BU	LXSG-125BU	LXSG-150BU	LXSG-200BU	LXSG-250BU	LXSG-300BU
DN (mm)	50	65	80	100	125	150	200	250	300
Length L (mm)	200	200	225	250	250	300	350	450	500
Width B (mm)	170	185	200	220	250	285	340	405	460
Height H (mm)	215	220	235	255	285	335	405	470	525

Technical parameter

Nominal diameter (mm)	50	65	80	100	125	150	200	250	300
Maximum flow Q ₄ (m ³ /h)	3.125	50	7.875	125	200	312.5	500	787.5	1250
Permanent flow Q ₃ (m ³ /h)	2.5	40	6.3	100	160	250	400	630	1000
Transitional flow Q ₂ (m ³ /h)	0.16	0.256	0.403	0.64	1.024	1.6	2.56	4.032	6.4
Minimum flow Q ₁ (m ³ /h)	0.1	0.16	0.252	0.4	0.64	1	1.6	2.52	4
Start-up flow (m ³ /h)	0.033	0.06	0.09	0.14	0.21	0.31	0.56	0.88	1.2
Maximum reading	99999.999								
Reverse flow	99999.999								
Measuring range	Q ₃ /Q ₁ , R250 (R400 customizable)								
Accuracy class	Class 2								
Pressure loss class	<0.025MPa								
Working pressure	1.6 MPa								
Temperature class	T50								
Temperature range	(5 -55)°C								
Environment class	Indoor, Class B								
Electromagnetic class	E1 (Residential, Commercial and Industrial)								
Power supply	Built-in lithium battery DC 36V								
Battery life	8 - 10 years								
Installation position	Any angle								
Display	LCD, 8 digits + additional characters								
Installation pitch	U10/D5								
Communication interface	RS485 modbus/Pulse output/GPRS/NB-IOT								
Protection class	IP68								

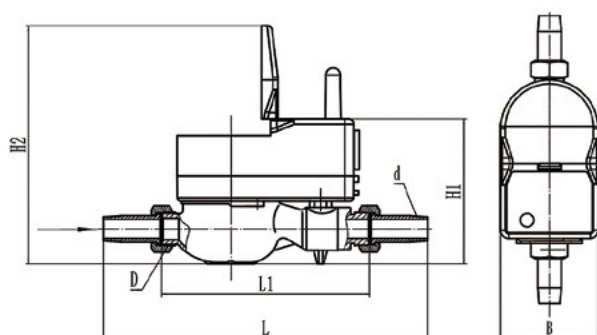
LORA WIRELESS MULTIJET WATER METER LXSG-15LW ~ LXSG-25LW

LoRa wireless water meter adopts advanced wireless transmission technology, which transforms information of a conventional mechanical water meter into electrical signal that stored by micro-electronics control circuit. It is able to automatically read the metering data via wireless remote network and control the opening and closing of the valve.

Benefits

- With anti-magnetic interference function
- With battery voltage detection function
- Module with automatic data storage function when power goes on and off assuring data won't get lost
- The joint of the RF module and the base meter uses the integrated structure with built-in antenna, which reduces the damage the antenna during the process of installation
- Using LoRa transfer mode can drastically extend the communication distance
- The module use of deep dormancy time design is able to completely close the wireless module during the deep dormancy time period (not in operation during night time) which drastically helps reduce power dissipation
- Whole circuit board uses ultra low power consumption design, power supply by high capacity lithium battery with life of over 6 years
- AMI function that supports the system to control the opening and closing of valve in real time

Outline dimensional drawing



Dimension

Model	Length L	Length L1	Width B	Height H1	Height H2	Connecting Thread	
mm						d	D
LXSG-15LW	258	165	90	112	184	R1/2	G3/4B
LXSG-20LW	299	195	90	112	184	R3/4	G1B
LXSG-25LW	345	225	90	114	186	R1	G1 1/4B

Technical Data

Item	Unit	Model		
Model		LXSG-15LW	LXSG-15LW	LXSG-15LW
Nominal diameter	mm	15	20	25
Q3/Q1		R80/R100		
Overload flow (Q4)	m ³ /h	3.125	5	7.875
Nominal flow (Q3)	m ³ /h	2.5	4	6.3
Transitional flow (Q2)	m ³ /h	0.05	0.08	0.13
Minimum flow (Q1)	m ³ /h	0.031	0.05	0.08
Accuracy class		Class 2		
Maximum indication	m ³	99999		
Temperature class		T30,T90		
Pressure class		MAP10/MAP16		
Pressure loss class		p63		
Flow profile sensitivity		U10/D5		
Environmental class		Class B		
Electromagnetic environment class		E1		
Static current	uA	<10		

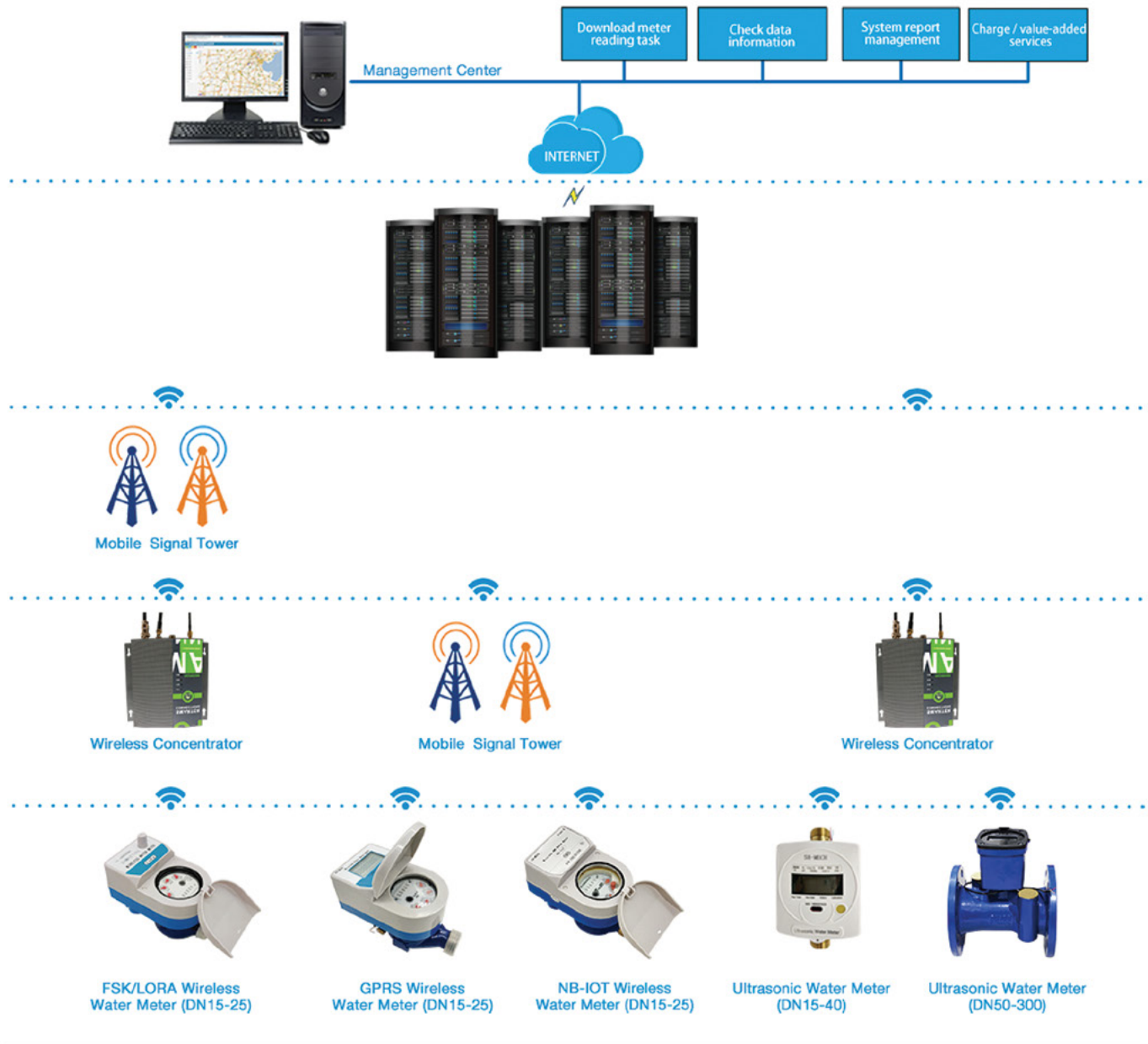
AMI SYSTEM INTRODUCTION... SIMPLE IS SMART

System structure diagram as follows

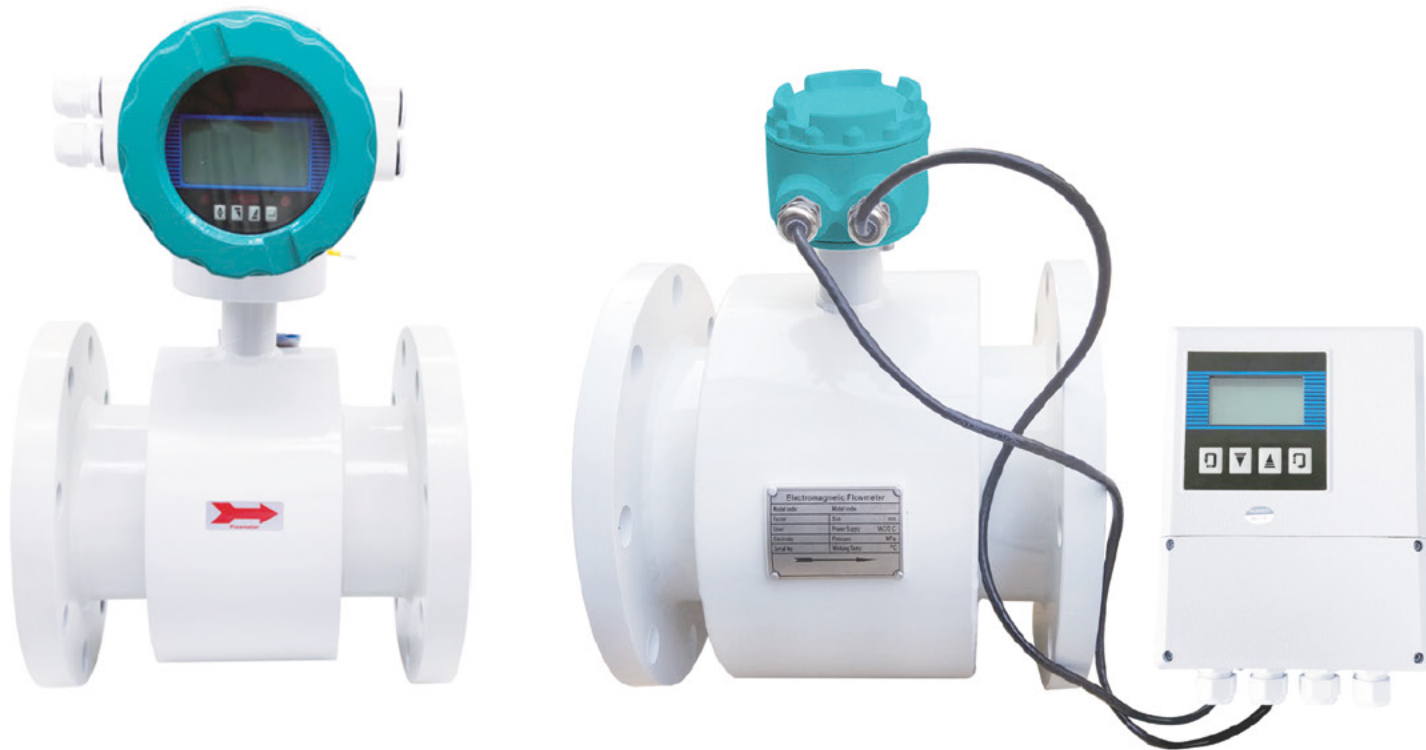
- Server send commands to the data concentrator through network
- Concentrator transforms the received commands into radio signal and send the signal to the water meters
- Water meters respond and execute the commands accordingly
- Water meters deliver the results or data back to the management center as per the original route after the actions finished

Service

- Warranty: 1 year
- Support with installation and testing in site
- Data sheet can be sent to other management systems easily after the actions are finished



ELECTROMAGNETIC FLOWMETER LXSG-30EF ~ LXSG-40EF



Overview

Intelligent electromagnetic flow meter with high accuracy and reliability.

It is used to measure the volume flow of liquid and slurry in closed pipelines, and is widely used in power, petroleum, chemical, coal, metallurgy, minerals, paper making, water supply and drainage, food, medicine and other industries, etc...

Scope of application

English intelligent display converter adopts 16-bit embedded microprocessor. Full digital processing, with two-way flow measurement function, instantaneous flow and positive and reverse accumulation and difference accumulation, used to measure the volume of conductive medium such as fresh water, sewage, acid, alkali, salt solution or liquid-solid two-phase fluid flow.



Features

- Flow measurement is not affected by changes in fluid density, viscosity, temperature, pressure and conductivity
- There are no obstructing flow parts in the measuring tube, no pressure loss, and low requirements for the straight pipe section
- The converter adopts LCD backlight display, which can make the degree easier under direct sunlight or in a darkroom
- Set parameters by touching the infrared ray button, which can be safely set without opening the cover of the converter in harsh environments
- The flow meter is a two-way measurement system with three integrators: forward total, reverse total and difference total; it can display forward and reverse flow and has multiple outputs: current, pulse, digital communication, HART
- The converter has self-diagnostic alarm output, no-load detection alarm output, flow upper and lower limit alarm output, batch processing control and other functions
- Can be used not only for general process detection, but also suitable for the measurement of ore pulp, paper pulp, and paste liquid
- The high-pressure electromagnetic flowmeter sensor adopts PFA meshing lining technology, which is resistant to high pressure and negative pressure, and is specially used in petrochemical and mineral industries
- Proof instruments can be used in corresponding explosion-proof places

Product parameters

Nominal diameter: DN30-DN40

Nominal pressure: 0.6-4.0MPa (special pressure can be customized)

Accuracy: $\pm 0.5\%$ of the indicated value

Lining material: polyurethane rubber / chloroprene rubber / polytetrafluoroethylene / silicone lining

Electrode form: standard type / scraper type / replaceable type

Electrode material: 316L / Haz alloy B / Haz alloy C / titanium / tantalum / platinum

Medium temperature:

- Integrated type: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Split type: 1. Polyurethane rubber, neoprene, PTFE, silicon-fluorine lining
2. PTFE lining / PFA lining / F46 lining

Ambient temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$

Ambient humidity: 5 ~ 85% RH (relative humidity)

Dielectric conductivity: ≥ 20

Measuring range: 1500:1 Flow setting $<15\text{m} / \text{s}$.

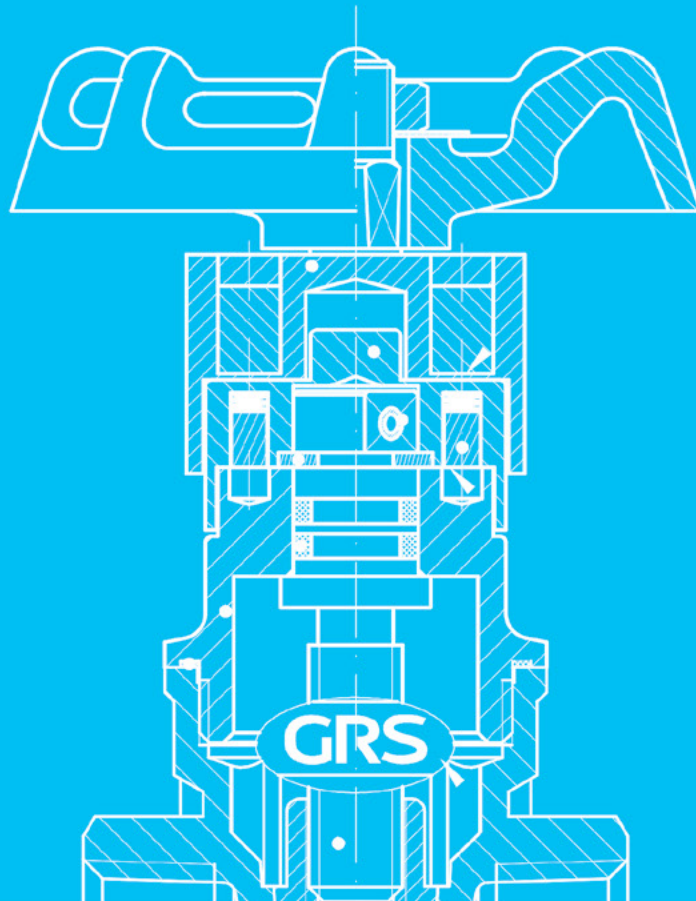
Structure: integrated / split / immersion / explosion proof

Protection grade: IP65 / IP67 / IP68 optional

Explosion-proof grade: Exmd II CT4

Product standard: JB / T9248-1999 electromagnetic flowmeter

Valves

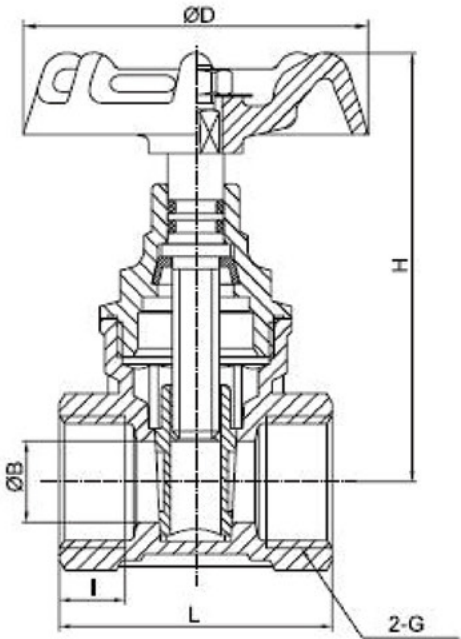


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GATE VALVE VCM-15 ~ VCM 50

Features

Nominal pressure: 150 PSI
Type of fluid in Valve: Water, non-caustic liquid, saturated steam (0.6 Mpa)
Temperature range: -10°C - 110°C
Inlet thread: ISO 228. NPT X NPT



Technical parameter

Model	DN	H	B	L	I	G
VCM-15	15	61.3	10	43	10	1/2
VCM-20	20	70	15	44.5	10.5	3/4
VCM-25	25	79.3	20	49	12	1
VCM-32	32	92.5	25	55	13.5	1 1/4
VCM-40	40	106	32	57	13.5	1 1/4
VCM-50	50	120	39	65	14.5	2

Dimensions expressed in millimeters.

LOCKABLE VALVE VA-15 ~ VA-50

Features

Nominal pressure: 150 PSI
 Type of fluid in valve: Water, non-caustic liquid, saturated steam (0.6 Mpa)
 Temperature range: -10°C - 110°C
 Inlet thread: ISO 228. NPT X NPT
 Hydraulic pressure test 1.6 MPa

Technical parameter

Model	DN (mm)	A	B	C	D	E	G
VA-15	15	43.5	13	75.5	10.5	54	1/2
VA-20	20	47	17	83.2	11	54	3/4
VA-25	25	52	21	90.2	13	54	1

Model	DN (mm)	A	B	C	D	G	CERTIFICATIONS
VA-32	32	57	27	77.5	13.5	1 1/4	ISO 45001: 2018
VA-40	40	60	34	90.3	14	1 1/2	ISO 9001: 2015
VA-50	50	67	45	108.8	15	2	ISO 14001: 2015

Dimensions expressed in millimeters.

Assembly drawing

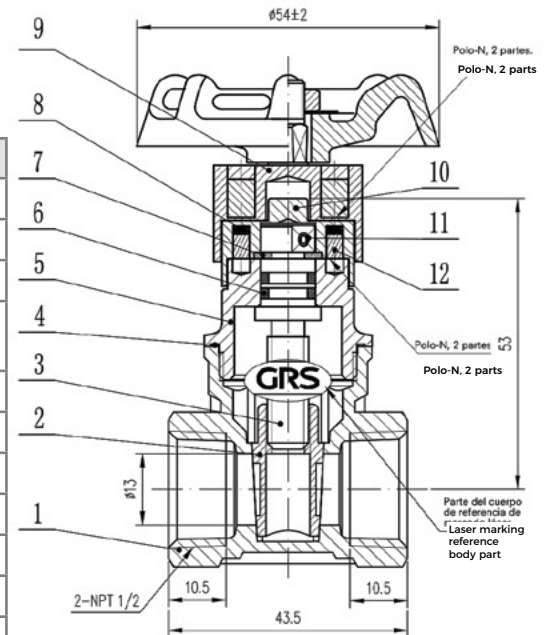
Magnetic lock gate valve 5119.

Range	DWG No.	Name	Quantity	Material
12	119-15-07	Magnet	2	38H
11	GB/T 8791.2.5X20	Cylindrical pin	1	Steel
10	119-15-03	Gland	1	HPb58-2A
9	119-15-04	Removable key steering wheel	1	Tin bronze
8	119-15-06	Dock	2	Tin bronze
7	GB 896 6	Retaining ring	1	1Cr18Ni9
6	T05-6.2X1.8	O-Ring	2	NBR
5	9119-15-01	Plug	1	HPb59-2A
4	To7-28X25X1.25	Packing	1	Teflon
3	119-15-05	Bottom	1	HPb59-2A
2	169-15-02	Disk	1	HPb59-2A
1	5119-15-01	Valve body	1	HPb59-2A



Technical parameter

The product test implements the industrial valve GB / T13927-2008.



Warning!

Not recommended for steam service.

CHECK VALVE (SOFT SEAL) VCH-15 ~ VCH-50

Characteristics

Nominal pressure: 150 PSI

Working medium: Water and non-corrosive liquid

Occupational temperature: -10°C to 110°C

Hydraulic pressure test: 2.4Mpa

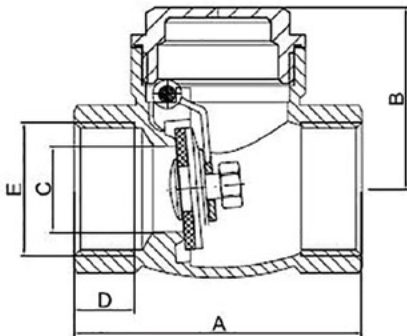
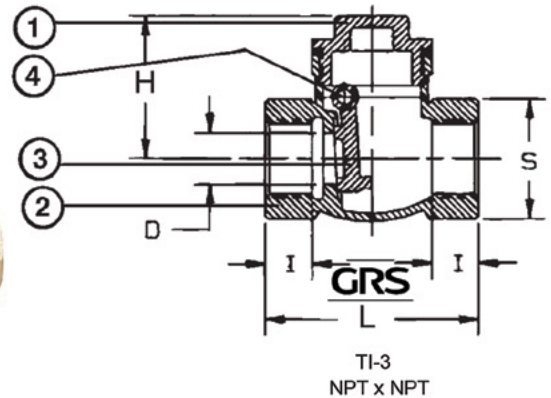
Technical parameter

Part	Specifications
1. Cover	Bronze ASTM B 584 Alloy C85700
2. Body	Bronze ASTM B 584 Alloy C85700
3. Disc	Wrought Brass ASTM B 124 Alloy C37700
4. Pin	Brass ASTM B 16 Alloy C36000
5. Screw	Brass ASTM B 16 Alloy (not shown)



Technical requirements

VCH	DN (mm)	A	B	C	D	E
VCH-15	15	47	31.5	Φ 13	11	1/2
VCH-20	20	57	36.5	Φ 17	12	3/4
VCH-25	25	68	43	Φ 23	13.5	1
VCH-32	32	75	52	Φ 29	14	1 1/4
VCH-40	40	86	57.5	Φ 35	16	1 1/2
VCH-50	50	106	68	Φ 45	17	2



GRS check valves can be installed in both horizontal and vertical lines with upward flow or in any intermediate position. They will work satisfactorily on a downward plane (no more than 15°).

Warning! Not recommended for steam service.

BALL VALVE VB-15 ~ VB-50

Features

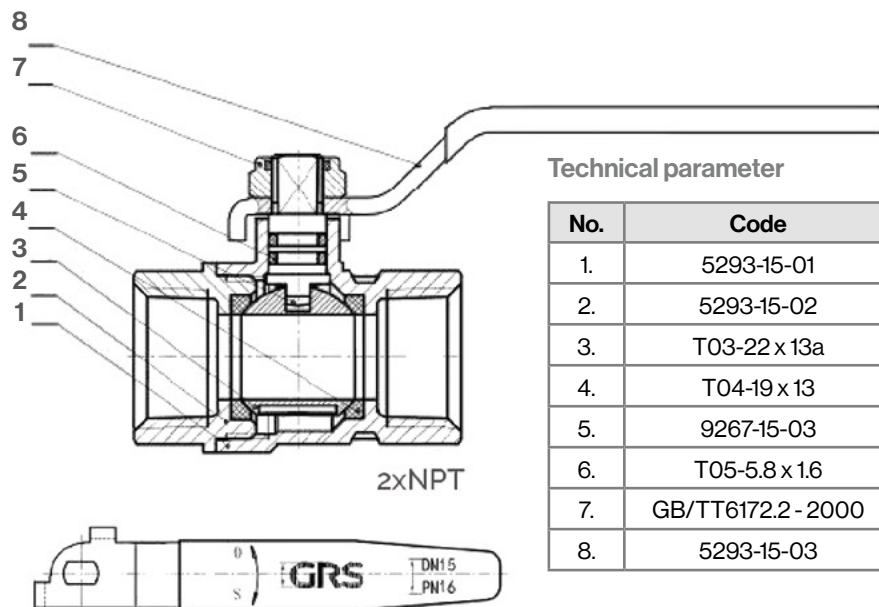
Nominal pressure: 150 PSI

Type of fluid in valve: Water and non-corrosive liquid

Temperature range: -10°C - 110°C

Hydraulic pressure test: 2.4Mpa

Model	DN (mm)	A	B	C	D	E	G
VB-15	15	52	13	39.1	12.5	90	1/2
VB-20	20	59	18	42.4	13.5	90	3/4
VB-25	25	71	24	55.3	14.5	110	1
VB-32	32	81	30	60.8	15.5	140.2	1 1/4
VB-40	40	93.2	37	66.7	16.5	140.2	1 1/2
VB-50	50	111	49.5	78.2	18.5	155.3	2
VB-65	65	132.4	56	92		190	2 1/2
VB-80	80	151	68.5	106		230	3
VB-100	100	190.5	85	117.5		230	4



Technical parameter

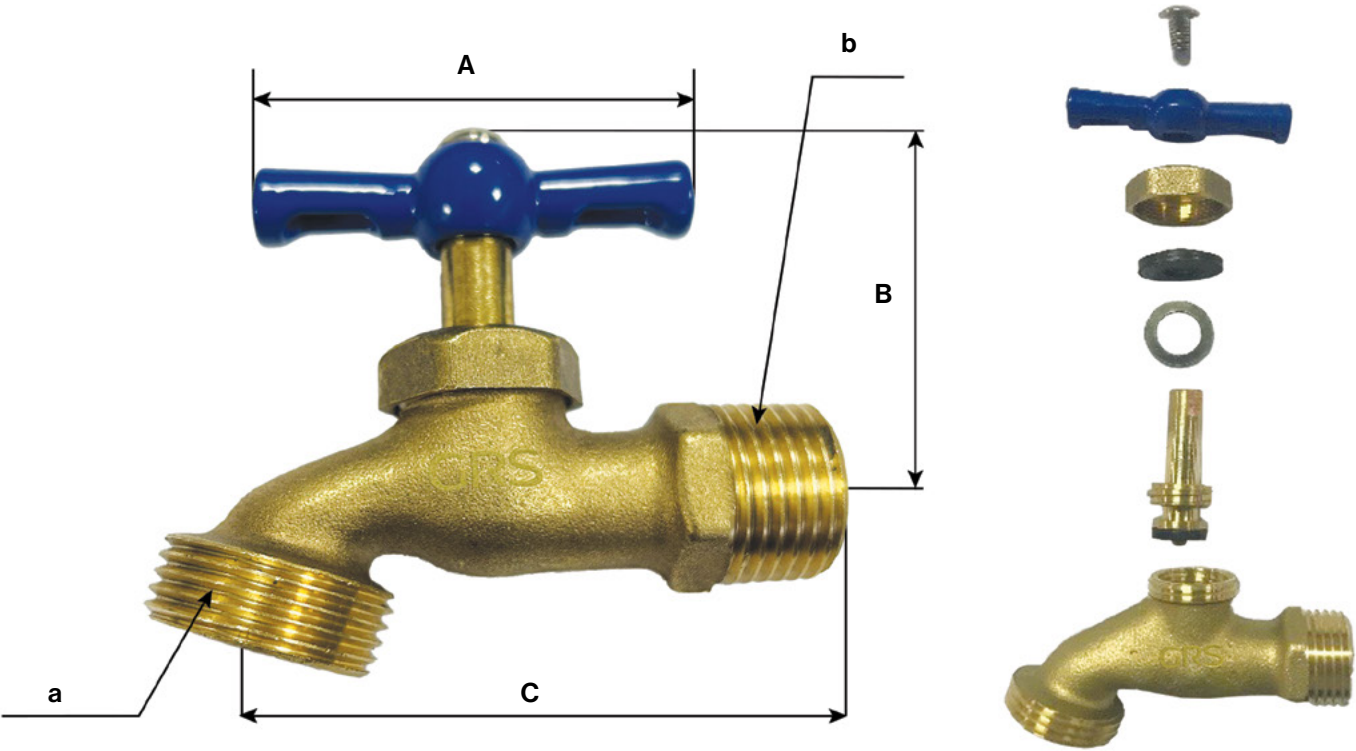
No.	Code	Article	Quantity	Material
1.	5293-15-01	Body	1	HPb59-2A
2.	5293-15-02	Lid	1	HPb59-2A
3.	T03-22 x 13a	Ball	1	HPb58-2A
4.	T04-19 x 13	Packing	2	PTFE
5.	9267-15-03	Stem	1	HPb58-2A
6.	T05-5.8 x 1.6	O-Ring	2	NBR
7.	GB/TT6172.2 - 2000	Nut	1	Acero
8.	5293-15-03	Solve	1	Q235-A+PVC

Normal pressure	1.6 MPa
Pressure testw	2.4 MPa
Seal proof pressure	0.6 MPa
Working medium	Water.
Working temperature	-10°C ≤ t ≤ 120°C

Assembly drawings	Size	Weight (grams)
5293	1/2"	185
	3/4"	270

Warning! Not recommended for steam service.

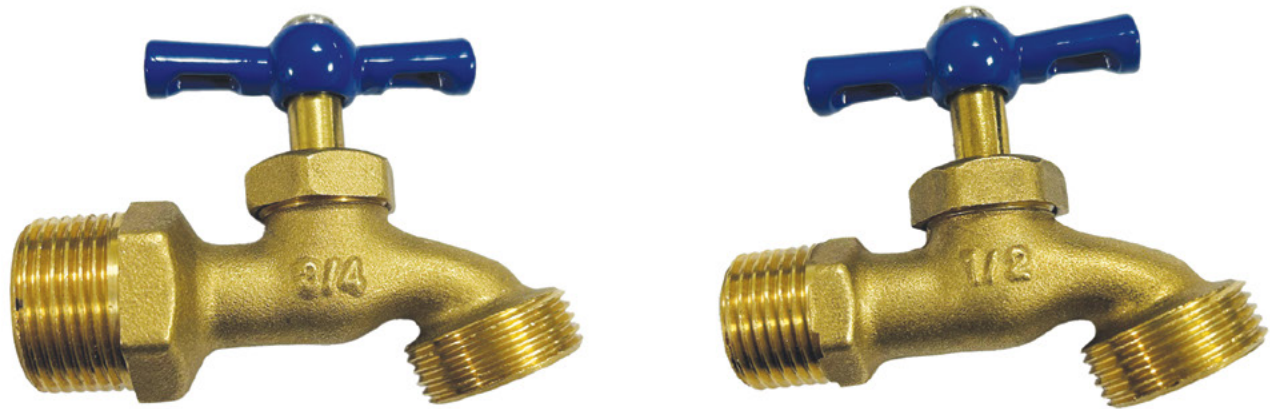
BRASS BIBCOCK VCHR-15 ~ VCHR -20



Model	DN (mm)	Size	A	B	C	a	b	Weight
VCHR-15	15	1/2*3/4	50.5±0.1	(42-47)	63.8±1	NPT3/4	NPT31/2	97g±3g
VCHR-20	20	3/4*3/4	50.5±0.1	(42-47)	68.2±1	NPT3/4	NPT3/4	127g±4g

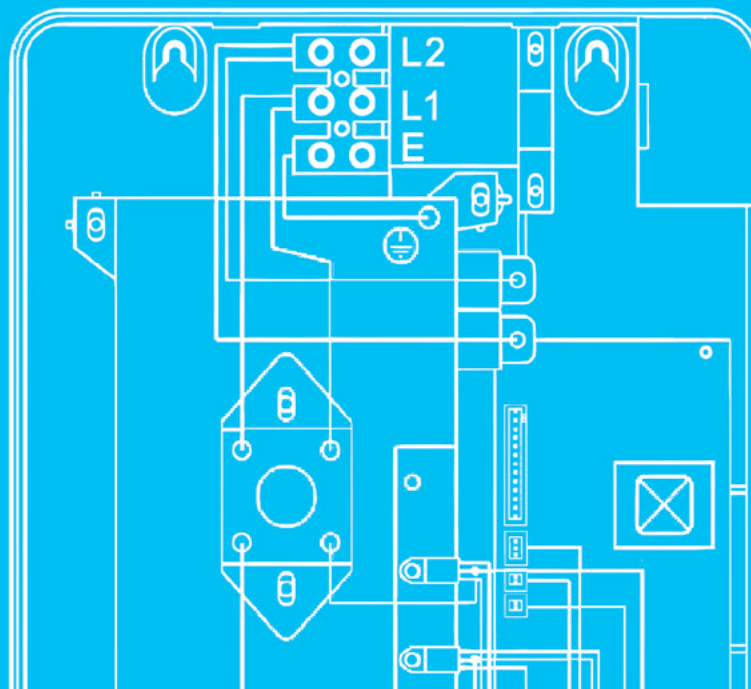
Features

1. The blank of valve body adopts hot forging forming process
2. a and b two threads, only the thread pass gauge inspection can be qualified.
3. Seal test (medium: gas/pressure: 0.6MPa/time: 15s without leakage).
4. Product material is HPb58-2A (valve body, stem, compression nut), handle is aluminum alloy (surface blue paint), gasket is NBR rubber.
5. The surface of the product is clean and free of burrs, bumps and other defects.





Tankless Electric Water Heaters



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CP-11

TANKLESS ELECTRIC WATER HEATER

Product Features

- Transparent cover ABS permeable to light, 5A fire resistant
- Patented aluminum heating technology
- UL499 & NSF standard, ETL approved by INTERTEK
- Compact design with unlimited hot water
- Easy installation with structure for simple wiring connection
- Easy operation, automatic constant temperature and memory
- Conversion between Fahrenheit and Celsius
- Touch screen, digital LED display
- Protection against overheating and dry heating
- Built-in pressure relief valve to prevent explosions
- Automatic fault detection technique, trouble code display



Dimensions	Net weight
360x215x60 mm	5.3 kg



Models	CP-11
Rated voltage	220-240V
Rated power	11kW
Rated current	47.9A
Rated Pressure	0.02-0.6MPa
Efficiency t=25°C	6.3L/min
Safety Class	IP25
Temp. setting range	30°C - 55°C
Overheat protection	67°C
Connecting wires section	3*10mm ²
Thermal cut-off	90°C
Pipe section	G 1/2"
Product size	360*215*60mm
Box size	420*125*280mm
Carton size (4pcs/CTN)	525*295*435mm
Loading Quantity	20 'GP:1552pcs 40 'GP:3104pcs 40 'HQ:3940pcs

Technical data

Voltage	Kilowatts	Circuit breaker required	Minimum water flow to active	Minimum brake required	Net weight	Temperature of overheating	Thermal cut
240v/60Hz	11kW/14.6W	60A/70A	0.53L-G/min	6 AWG	0.02-0.6MPa	149°F	203°F

CP-9US ~ CP-27US

TANKLESS ELECTRIC WATER HEATER

Product Features

- High quality ABS case
- Microcomputer control, adapted with patented heating technology
- Water is completely separated from electricity by multiple layers of nano composite insulation material
- Overheat protection, dry heating protection, automatic fault detection, child lock function, ground connection protection
- Conversion between degrees Celsius and degrees Fahrenheit
- Touch screen control sensor, smart Wi-Fi control and RF remote control available
- Zero cold water function, one of a kind, no need to wait for hot water
- Hot water tank reinforcement to help increase the performance of traditional gas, storage and solar water heaters

Technical data

Subjects / Model ID		CP-9US		CP-11US		CP-13US		CP-18US		CP-24US		CP-27US	
Phase				1		1		1		1		1	
Voltage	V	220	240	220	240	220	240	220	240	220	240	220	240
Wattage	kW	6.7	8.0	9.2	11.0	11.6	13.8	15.1	18	20.2	24	22.7	27
	BTU	22935.36	27304	31536.12	37543	39590.8	47099.4	51638.69	61434	68840.21	81912	77440.97	92151
Amperage	A	31	33	42	46	53	58	69	75	92	100	103	113
Min. Required Circuit Breaker	A	40		50		70		2*40		3*40		3*40	
Recommended Wire Size	AWG	10#		8#		6#		2*8#		3*8#		3*8#	
Max Temp. Rise @Flow Rate (GPM) Temp. Rise = Outlet temp. - Inlet temp.	0.5	126	-	-	-	-	-	-	-	-	-	-	-
	1.0	79	88	97	109	114	129	-	-	-	-	-	-
	1.5	63	69	75	84	86	97	103	116	127	-	-	-
	2.0	56	60	64	71	73	81	85	95	103	116	112	127
	2.5	51	54	58	63	65	71	75	83	89	99	96	108
	3.0	48	51	54	58	59	64	67	74	79	88	85	95
	3.5	46	48	51	54	55	60	62	68	73	80	78	86
	4.0	44	46	48	51	52	56	59	64	67	74	72	79
	4.5	43	45	46	49	50	54	56	60	64	69	67	74
	5.0	41	43	45	47	48	51	53	57	60	66	64	70
	5.5	41	42	44	46	47	50	51	55	58	63	61	67
Temp. Setting Range	°C	30-55											
	°F	86-131											
Min. Activating Water Flow	GPM	0.40		0.53		0.53		0.66		0.79		0.79	
	L/min	1.5		2.0		2.0		2.5		3.0		3.0	
Water Connections	G	1/2"		1/2"		1/2"		1/2"		1/2"		1/2"	
	NPT	1/2"		1/2"		1/2"		3/4"		3/4"		3/4"	
Water Pressure Range	PSI	0-87											
	MPa	0-0.6											



We are

Overall Pick

and

Amazon's **Choice**



in United States of America



& Canadá

CP-11

1 Bath Compact Use
Kitchen or Small
Apartment



CP-13US

1 to 2 Baths
Warm Climates



CP-18US

2 to 2.5 Baths Moderate
Climate **or 3+ Baths**
Warm Climate



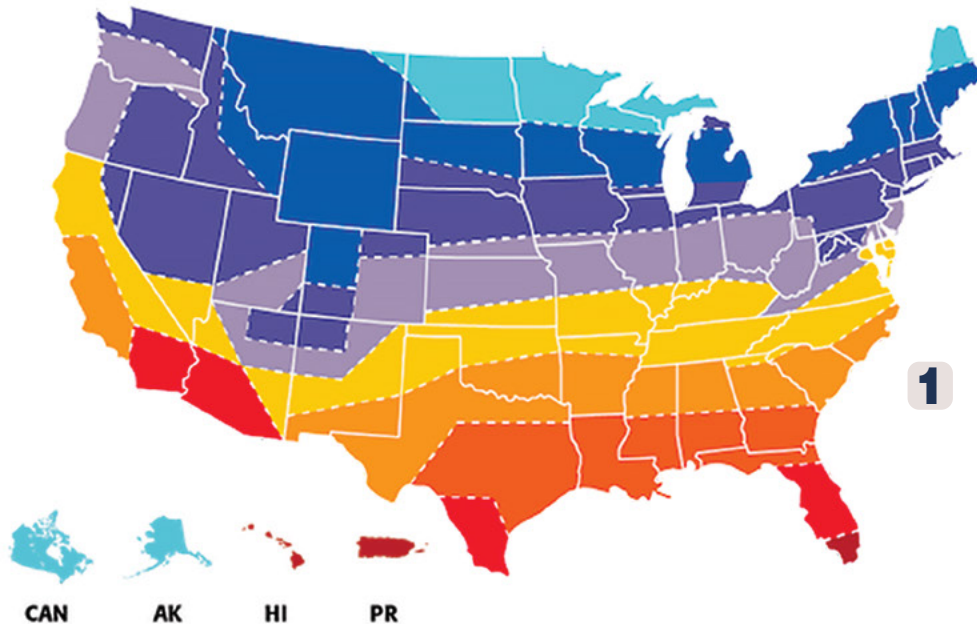
CP-27US

2 Baths Cold Climate
or 3+ Baths Warm
Climate



Required voltage range: 220...240 VAC / 60 Hz

HOW TO CHOOSE YOUR TANKLESS ELECTRIC WATER HEATER?



1

Use your location on the map to correlate with the legend for average groundwater temperature in the USA

Average inlet water temperature

Results based on outlet temperature of 105°F. Actual inlet temperature may be affected by local variations and seasonal changes.



2 Calculate your desired GPM and find the best model for you



1.5 GPM
Water-Saver
Shower Head



2.0 GPM
Standard
Shower Head



0.5 GPM
Standard
Hand Sink



1-2 GPM
Kitchen Sink



>4 GPM
Bathtub



1-2 GPM
Dishwasher



1-1.5 GPM
Laundry

CP-11 Water flow	37°F	42°F	47°F	52°F	57°F	62°F	67°F	72°F	77°F
	1.4 GPM	1.5 GPM	1.6 GPM	1.7 GPM	1.8 GPM	2.0 GPM	2.2 GPM	2.4 GPM	2.6 GPM
CP-13US Water flow	37°F	42°F	47°F	52°F	57°F	62°F	67°F	72°F	77°F
	1.3 GPM	1.4 GPM	1.5 GPM	1.7 GPM	1.8 GPM	2.0 GPM	2.3 GPM	2.7 GPM	3.1 GPM
CP-18US Water flow	37°F	42°F	47°F	52°F	57°F	62°F	67°F	72°F	77°F
	1.8 GPM	1.9 GPM	2.1 GPM	2.3 GPM	2.5 GPM	2.8 GPM	3.2 GPM	3.7 GPM	4.3 GPM
CP-27US Water flow	37°F	42°F	47°F	52°F	57°F	62°F	67°F	72°F	77°F
	2.7 GPM	2.9 GPM	3.1 GPM	3.4 GPM	3.8 GPM	4.2 GPM	4.8 GPM	5.5 GPM	6.5 GPM

*Average Gallons per Minute (GPM) basing on 2010 Plumbing Standards.

3 Important:

Before making your purchase, make sure the installation location meets the technical and installation requirements for the GRS tankless electric water heater model you plan to buy. You can find all specifications and details in the user manual for each model.

Example 1

You are looking for a GRS tankless electric water heater for a single bathroom.

The shower has a high flow rate (2.4 GPM), and the incoming water temperature is approximately 22 °C (72 °F).

In this case, the best option is the GRS CP-11 model, which is specifically designed to efficiently meet the demands of a shower with these characteristics.



CP-11



1 Bathroom

Example 2

If you live in a city where the incoming water temperature is approximately 22 °C (72 °F) and your home has two bathrooms that are often used at the same time, with each shower averaging a flow rate of 2.0 GPM:

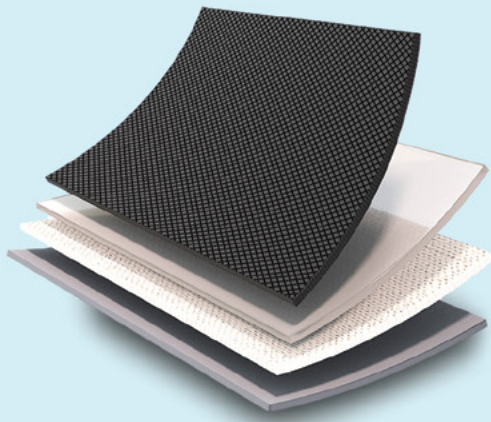
To meet this demand efficiently, you can either install two GRS CP-11 water heaters (one for each bathroom) or choose a single GRS CP-18US, which has sufficient capacity to supply both bathrooms simultaneously.



CP-18US



2 Bathrooms



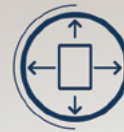
Multi-layers of composite nano insulation

Separating completely water from electricity to prevent hard water build-up and corrosion.



Our Water Heater is corrosion-resistant

Reduces mineral deposits and other issues, providing better overall value and performance for the user.



Saves Space

Eliminating the need of a bulky tank.

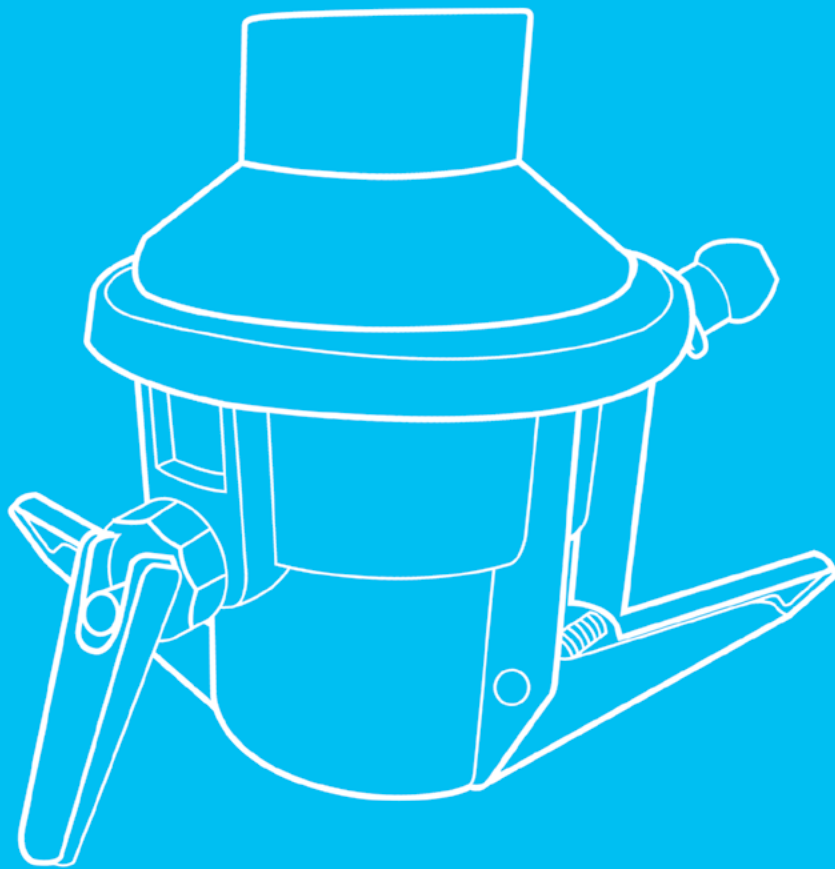


Save energy

and lower your water and energy bills with our ETL-certified tankless water heater, while reducing your carbon footprint.



Gas Regulator



GR-505 GAS REGULATOR

Features

GRS gas regulators reduce high pressure passing to appliances such as gas furnaces, stoves and water heaters, among others. They control the delivery of gas at a constant pressure. This pressure within the gas system does not affect gas flow, but it does help control supply pressure.

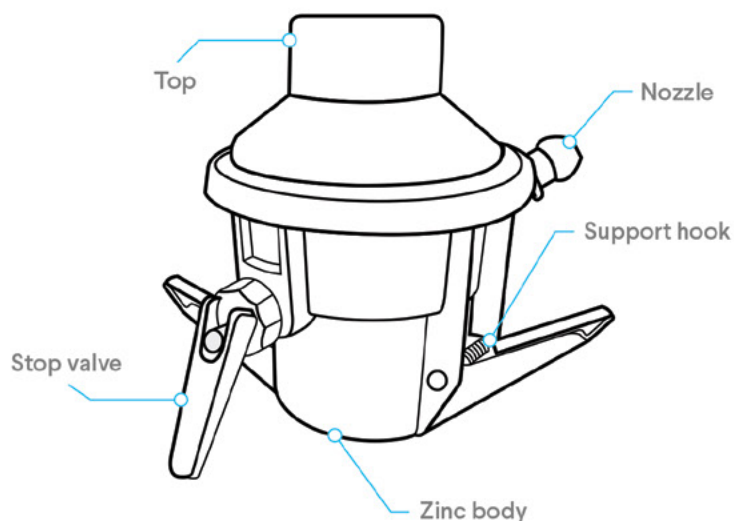
Their design allows easy handling and they are made of a resistant zinc alloy.

Technical Data

- Double clip gas regulator for 3/8" hose
- Body Material: Zinc Alloy
- Colour: blue / green
- Input connection: 35mm
- Hose tail: 3/8"
- Inlet pressure: 0.07-1.56Mpa
- Outlet pressure: 2.75kpa
- Net weight: 210 Grams

Pressures

Inlet pressure 0.3 ~ 1.56 Mps	Outlet pressure 280 mbar
---	------------------------------------





¡BUY ONLINE!
Tankless Electric Water Heaters

amazon



CP-9US ~ CP-27US / CP-11



**Over 15 years in Central America, with unmatched warranty,
local support, and superior service.**



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