



Check on every drop



APPROVALS

1. BUREAU OF INDIAN STANDARDS
2. FLUID CONTROL RESEARCH INSTITUTE, KERALA.
3. SCIENTIFIC & INDUSTRIAL TESTING & RESEARCH CENTRE, COIMBATORE
4. NATIONAL TEST HOUSE, GHAZIABAD
5. NATIONAL PHYSICAL LABORATORY, DELHI
6. MUNICIPAL CORPORATION OF GREATER MUMBAI
7. MAHARASHTRA JEEVAN PRADHIKARAN
8. CIDCO
9. DELHI JAL BOARD
10. MUNICIPAL CORPORATION CHANDIGARH
11. MUNICIPAL CORPORATION NASHIK
12. KARNATAKA WATER SUPPLY SEWERAGE & DRAINAGE BOARD
13. GOVERNMENT OF MIZORAM
14. PUBLIC HEALTH ENGINEERING DEPARTMENT JAMMU & KASHMIR
15. PUBLIC HEALTH ENGINEERING DEPARTMENT, GOA
16. HARYANA WATER SUPPLY & SEWERAGE BOARD
17. MUNICIPAL CORPORATION SHIMLA
18. U.P. JAL NIGAM
19. PUBLIC HEALTH ENGINEERING DEPARTMENT, RAJASTHAN
20. PUNJAB WATER SUPPLY & SEWERAGE BOARD
21. ALL MUNICIPAL CORPORATIONS PUNJAB
22. TAMILNADU WATER SUPPLY & SEWERAGE BOARD

BECAUSE ...EVERY DROP COUNTS

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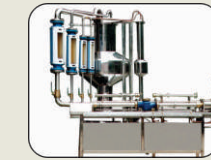
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Check on every drop

Features

- Inferential Type Dry Dial Mechanical Driven, Non Magnetic Drive.
- Straight Reading Cyclometer Type, 7-inline consecutive Digits with one central pointer for easy reading.
- Innovative Design with Wiper for Clear Reading.
- Wide Range of products 15mm to 50mm.

Applications



Domestic, Agriculture and Industrial use.



Standards
IS 779:1994



IS 779:1994
CLASS-A
CM/L-1298460

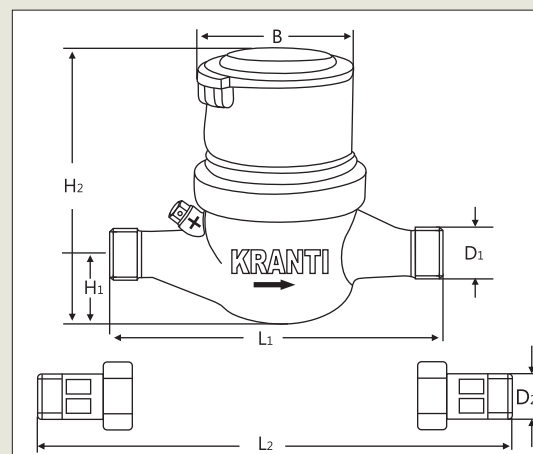
Water meters using the multi-jet principle are the best cost/performance, long life, flow measurement instruments.

PERFORMANCE DATA

Nominal Sizes	Metero-logical	Q _{max} Minimum Flow Rate (m ³ /h)	Q _n Nominal Flow Rate (m ³ /h)	Q _t Transitional Flow Rate (L/h)	Q _{min} Minimum Flow Rate (L/h)	Maximum Register Capacity (m ³)	Minimum Register Capacity (L)	Accuracy Between Q _{max} & Q _t	Accuracy Between Q _t & Q _{min}
15 1/2"	Class-A	3	1.5	150	60	99999.999	0.1	± 2%	± 5%
20 3/4"	Class-A	5	2.5	250	100	99999.999	0.1		
25 1"	Class-A	7	3.5	350	140	99999.999	0.1		
40 1 1/2"	Class-A	20	10	1000	400	99999.999	0.1		
50 2"	Class-A	30	15	1500	600	99999.999	0.1		

DIMENSIONS

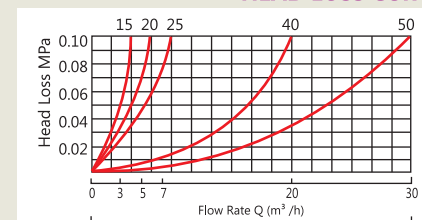
Model	KAM-G	KAM-G	KAM-G	KAM-G	KAM-G
Nominal Size (mm)	15	20	25	40	50
(Inches)	1/2	3/4	1	1 1/2	2
D1 - Meter Connection Thread ISO 228/1	G3/4 B	G1 B	G1 1/4 B	G2 B	G2 1/2 B
D2 - Meter Connection Pipe ISO 7/1	R 1/2	R 3/4	R1	R1 1/2	R2
L1 - Length without Couplings (mm)	165	190	260	300	330
L2 - Length with Couplings (mm)	250	290	380	430	470
B - Width (mm) (Max.)	100	130	170	210	270
H1 - Centerline Height (Max.)	50	60	65	75	115
H2 - Overall Height (Max.)	180	240	260	300	300



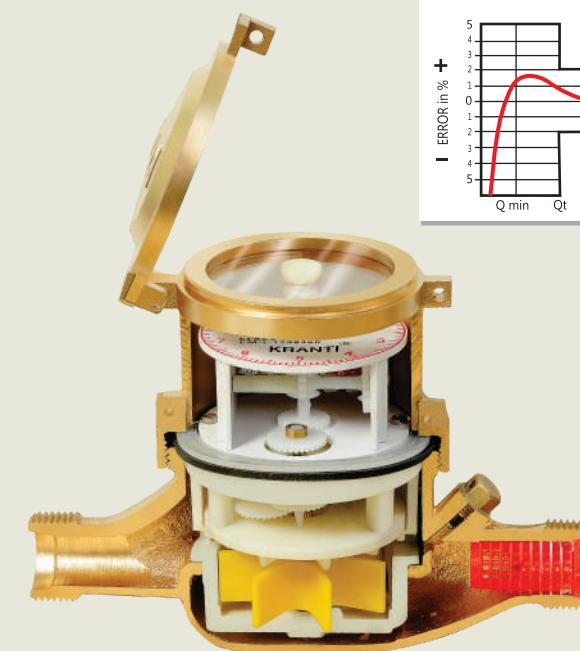
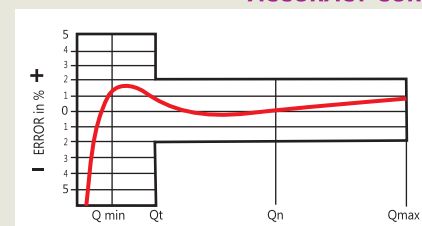
Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss ΔP < 0.1MPa at Q_{max}
ΔP < 0.025MPa at Q_n
- ▶ Maximum Pressure-16 Bar

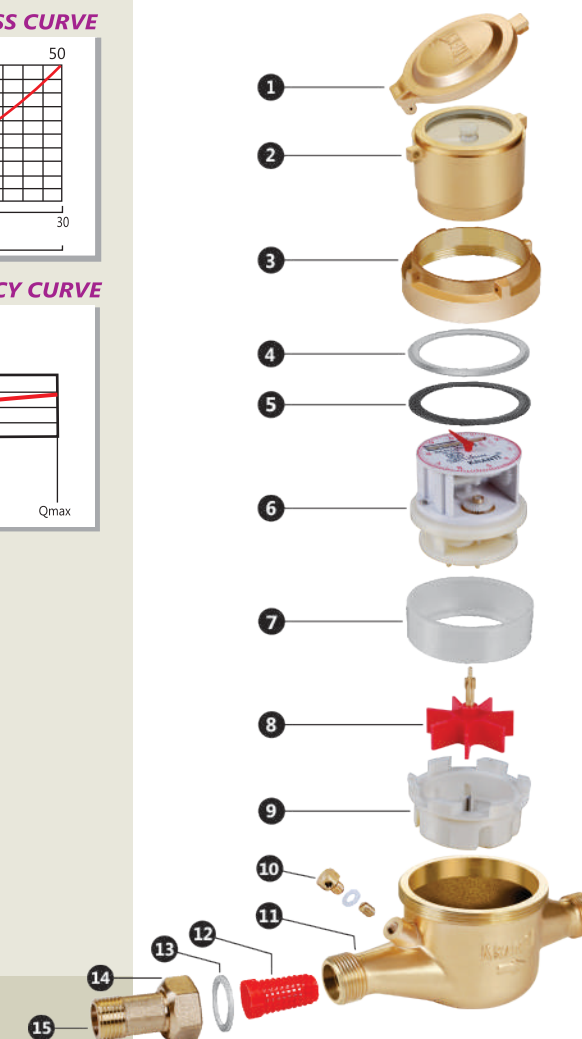
HEAD LOSS CURVE



ACCURACY CURVE



Dry Dial WATER METER



KAM-G

Check on every drop

Features

- Inferential Type Dry Dial, Multi Jet, Magnetic Transmission.
- Straight Reading Cyclometer Type register for the most comfortable reading position of 7 rollers & 2 pointers.
- Only one moving part - the impeller - in contact with the water for minimum wear & utmost reliability.
- All the materials in contact with water, consciously selected by the known resistance to corrosion.
- Wide Range of products 15mm to 50mm.

Standards

IS 779:1994
ISO 4064:1993



IS 779:1994
CLASS-B
CM/L-1298460

Applications



Domestic, Agriculture and Industrial use.

KRANTI Class-B is impeller (Turbine) Multi Jet Water meter with magnetic transmission. After entering the meter, the water flow is split into several smaller flows by the vane wheel case, that are going to hit the turbine simultaneously in various points keeping it perfectly balanced.

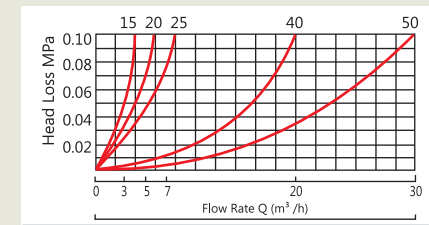
PERFORMANCE DATA

Nominal Sizes	Metero-logical	Q _{max} Minimum Flow Rate (m ³ /h)	Q _n Nominal Flow Rate (m ³ /h)	Q _t Transitional Flow Rate (L/h)	Q _{min} Minimum Flow Rate (L/h)	Maximum Register Capacity (m ³)	Minimum Register Capacity (L)	Accuracy Between Q _{max} & Q _t	Accuracy Between Q _t & Q _{min}
15 1/2"	Class-B	3	1.5	120	30	99999.9999	0.05	± 2%	± 5%
20 3/4"	Class-B	5	2.5	200	50	99999.9999	0.05		
25 1"	Class-B	7	3.5	280	70	99999.9999	0.05		
40 1 1/2"	Class-B	20	10	800	200	99999.9999	0.05		
50 2"	Class-B	30	15	1200	300	99999.9999	0.05		

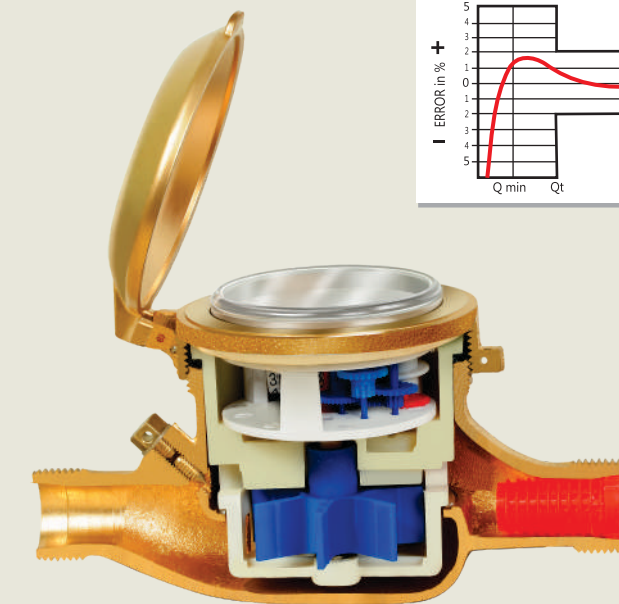
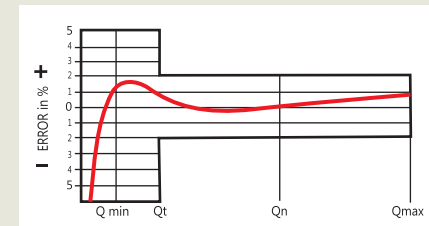
Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss ΔP < 0.1MPa at Q_{max}
ΔP < 0.025MPa at Q_n
- ▶ Maximum Pressure-16 Bar

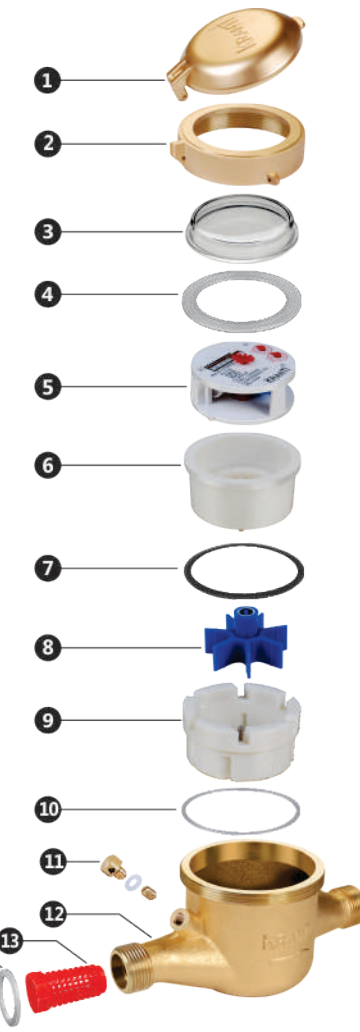
HEAD LOSS CURVE



ACCURACY CURVE

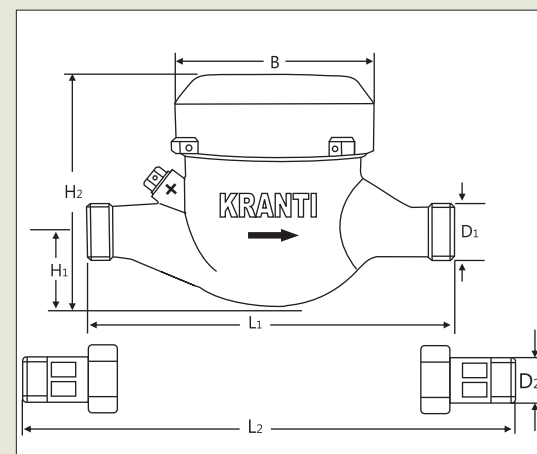


Dry Dial WATER METER



DIMENSIONS

Model	KBM-G	KBM-G	KBM-G	KBM-G	KBM-G
Nominal Size (mm)	15	20	25	40	50
(Inches)	1/2	3/4	1	1 1/2	2
D1 - Meter Connection Thread ISO 228/1	G3/4 B	G1 B	G1 1/4 B	G2 B	G2 1/2 B
D2- Meter Connection Pipe ISO 7/1	R 1/2	R 3/4	R1	R1 1/2	R2
L1 - Length without Couplings (mm)	165	190	260	300	330
L2 - Length with Couplings (mm)	250	290	380	430	470
B - Width (mm) (Max.)	100	130	170	210	270
H1 - Centerline Height (Max.)	50	60	65	75	115
H2 - Overall Height (Max.)	180	240	260	300	300



Check on every drop

Features

- State-of-art design with German technology.
- Magnetic Transmission, Dry type register.
- Only one moving part - the impeller - in contact with the water for minimum wear & utmost reliability.
- International Designed indicator register with 5 rollers & 4 pointers.
- The inlet filter at the inlet of the meter body permit cleaning it without breaking the meteorological seal.
- Glass window is unconditionally guaranteed for best visibility.
- Wide Range of products 15mm to 50mm.



Standards
IS 779:1994
ISO 4064:1993

Applications



Domestic, Agriculture and Industrial use.



IS 779:1994
CLASS-B
CM/L-1298460

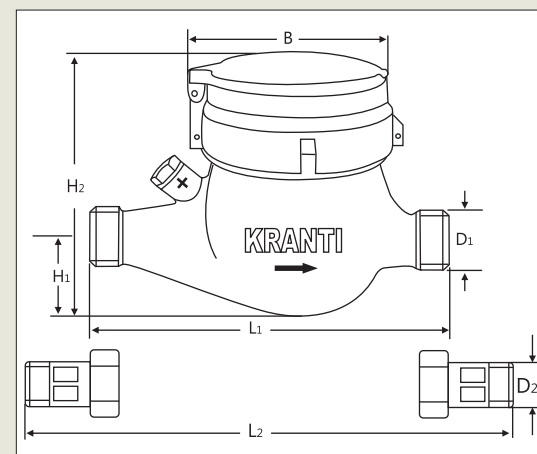
Wide Clearances in the measuring chamber and negligible area of contact between static and moving parts are the main reasons for the high reliability of this design even in hard water.

PERFORMANCE DATA

Nominal Sizes	Metero-logical	Q _{max} Minimum Flow Rate (m ³ /h)	Q _n Nominal Flow Rate (m ³ /h)	Q _t Transitional Flow Rate (L/h)	Q _{min} Minimum Flow Rate (L/h)	Maximum Register Capacity (m ³)	Minimum Register Capacity (L)	Accuracy Between Q _{max} & Q _t	Accuracy Between Q _t & Q _{min}
15 1/2"	Class-B	3	1.5	120	30	99999.9999	0.05	± 2%	± 5%
20 3/4"	Class-B	5	2.5	200	50	99999.9999	0.05		
25 1"	Class-B	7	3.5	280	70	99999.9999	0.05		
40 1 1/2"	Class-B	20	10	800	200	99999.9999	0.05		
50 2"	Class-B	30	15	1200	300	99999.9999	0.05		

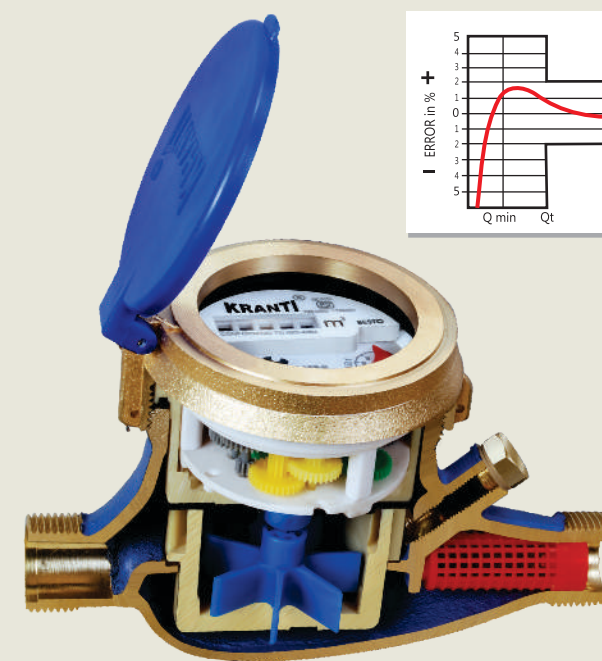
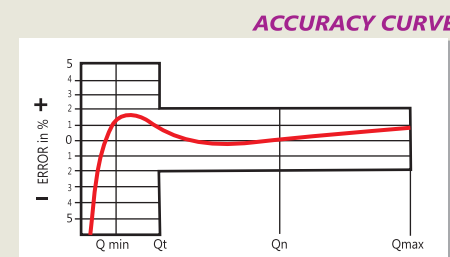
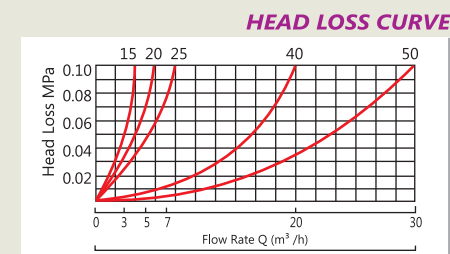
DIMENSIONS

Model	BESTO	BESTO	BESTO	BESTO	BESTO
Nominal Size (mm)	15	20	25	40	50
(Inches)	1/2	3/4	1	1 1/2	2
D1 - Meter Connection Thread ISO 228/1	G3/4 B	G1 B	G1 1/4 B	G2 B	G2 1/2 B
D2- Meter Connection Pipe ISO 7/1	R 1/2	R 3/4	R1	R1 1/2	R2
L1 - Length without Couplings (mm)	165	190	260	300	270/330
L2 - Length with Couplings (mm)	250	290	380	430	470
B - Width (mm) (Max.)	100	130	170	210	270
H1 - Centerline Height (Max.)	50	60	65	75	115
H2 - Overall Height (Max.)	180	240	260	300	300



Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss $\Delta P < 0.1 \text{ MPa}$ at Q_{max}
 $\Delta P < 0.025 \text{ MPa}$ at Q_n
- ▶ Maximum Pressure-16 Bar



Dry Dial WATER METER



BESTO

f eatures

- Magnetic Transmission, Dry type register.
- Compact design & Light weight.
- Register can be rotated in any direction for convenient reading.
- Vacuum Sealed Register, frost resistant, keeps clear reading for long time.
- Only one moving part - the impeller - in contact with the water for minimum wear & utmost reliability.
- Straight Reading Cyclometer type register for the most comfortable reading position of 7 rollers & 2 pointers.

S tandardS
IS 779:1994
ISO 4064:1993



A pplications



Domestic, Agriculture and Industrial use.

f eatures

- Vacuum Sealed Register, frost resistant, keeps clear reading for long time.
- Cost Effective - High Performance.
- Magnetic Transmission, Dry type register.
- Register can be rotated in any direction for convenient reading.
- Only one moving part - the impeller - in contact with the water for minimum wear & utmost reliability.
- Available in 15mm & 20mm.

S tandardS
IS 779:1994
ISO 4064:1993



A pplications



Domestic, Agriculture and Industrial use.

PERFORMANCE DATA

Nominal Sizes	Metro-logical	Qmax (m ³ /h)	Qn (m ³ /h)	Qt (L/h)	Qmin (L/h)	Maximum Reading (m ³)	Minimum Reading (L)
mm	Inch.	Class					
15	1/2"	Class-B	3	1.5	120	30	99999.9999
							0.05

IS 779:1994



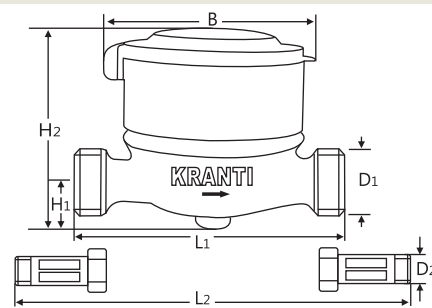
CLASS-B
CM/L-1298460

Accuracy :

- ▶ From minimum flow rate (**Qmin**) inclusive, to transitional flow rate (**Qt**), exclusive : ± 5%
- ▶ From transitional flow rate (**Qt**) inclusive, to maximum flow rate (**Qmax**), exclusive : ± 2%

Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss ΔP < 0.1MPa at Q_{max}
ΔP < 0.025MPa at Q_n
- ▶ Maximum Pressure-16 Bar



DIMENSIONS

Model	K B S
Nominal Size (mm)	15
(Inches)	1/2
D1 - Meter Connection Thread ISO 228/1	G3/4 B
D2- Meter Connection Pipe ISO 7/1	R½
L1 - Length without Couplings (mm)	110
L2 - Length with Couplings (mm)	250
B - Width (mm) (Max.)	100
H1 - Centerline Height (Max.)	50
H2 - Overall Height (Max.)	180



PERFORMANCE DATA

Nominal Sizes	Metro-logical	Qmax (m ³ /h)	Qn (m ³ /h)	Qt (L/h)	Qmin (L/h)	Maximum Reading (m ³)	Minimum Reading (L)
mm	Inch.	Class					
15	1/2"	Class-B	3	1.5	120	30	99999.9999
20	3/4"	Class-B	5	2.5	200	50	99999.9999
							0.05

IS 779:1994



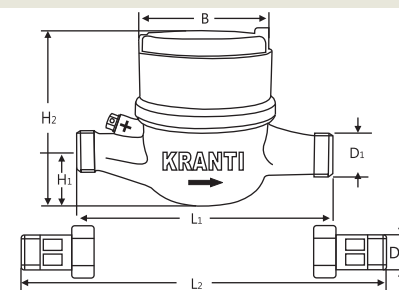
CLASS-B
CM/L-1298460

Accuracy :

- ▶ From minimum flow rate (**Qmin**) inclusive, to transitional flow rate (**Qt**), exclusive : ± 5%
- ▶ From transitional flow rate (**Qt**) inclusive, to maximum flow rate (**Qmax**), exclusive : ± 2%

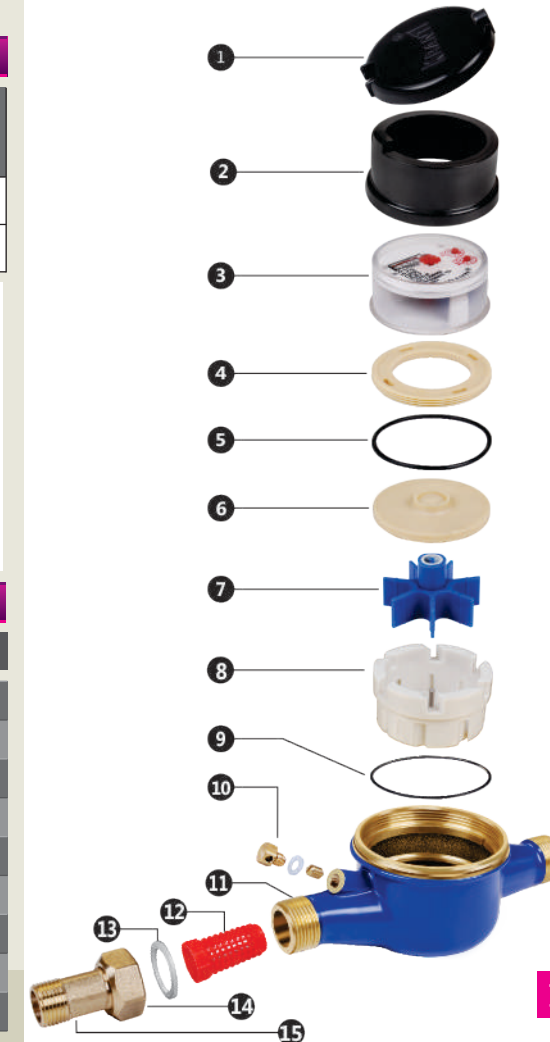
Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss ΔP < 0.1MPa at Q_{max}
ΔP < 0.025MPa at Q_n
- ▶ Maximum Pressure-16 Bar



DIMENSIONS

Model	K B M	K B M
Nominal Size (mm)	15	20
(Inches)	1/2	3/4
D1 - Meter Connection Thread ISO 228/1	G3/4 B	G1 B
D2- Meter Connection Pipe ISO 7/1	R½	R¾
L1 - Length without Couplings (mm)	165	190
L2 - Length with Couplings (mm)	250	290
B - Width (mm) (Max.)	100	130
H1 - Centerline Height (Max.)	50	60
H2 - Overall Height (Max.)	180	240



Volumetric Rotary Piston Water Meter

Features

- Ensure high sensitivity & accurate registration throughout a wide flow range.
- Mechanical transmission movement equates to maximum reliability.
- Corrosion resistant body.
- Liquid - Sealed register.
- Easy Reading & Long term Clear reading.
- Low starting flow rate.
- Internal Non-Return Valve.
- Internal Strainer.
- Can be equipped with read switch option.

Applications



Domestic, Agriculture and Industrial use.



Standards
ISO 4064
Class-C

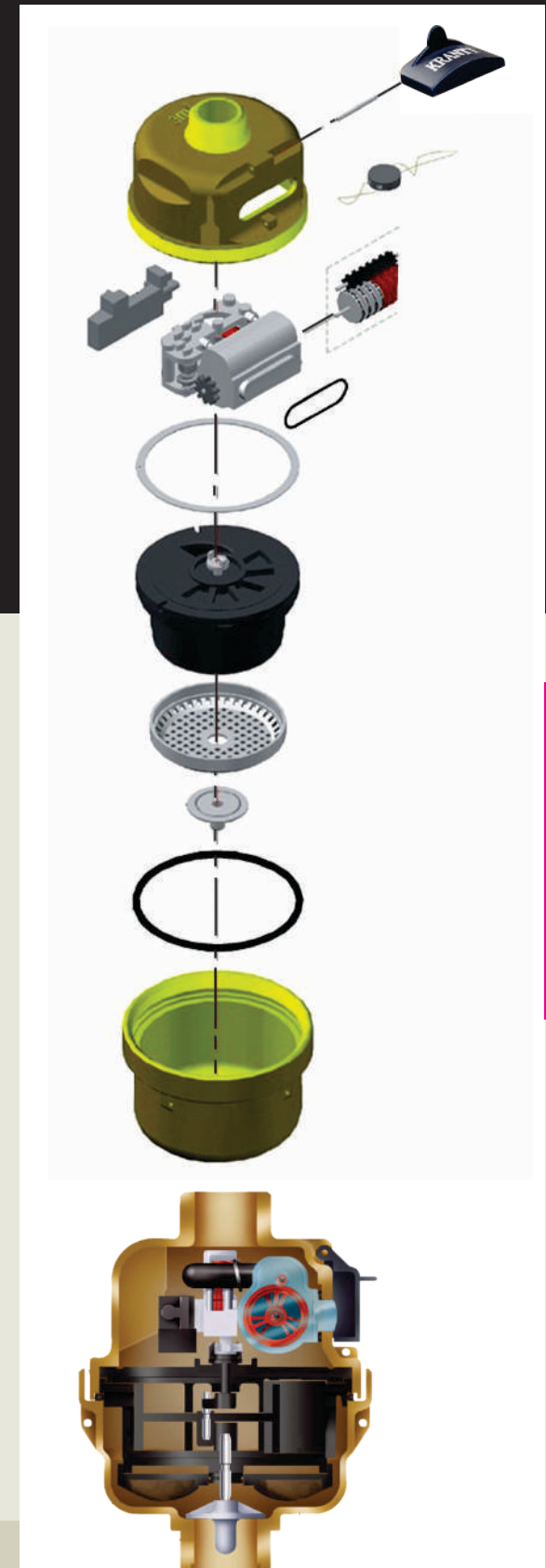


Description of the Register

Nominal diameter	Dn15/ DN20
Number of black numbered roller	4
Number of red numbered roller	4

Installation Requirements

- The meter can be installed in any position.
- Pipeline must be flushed before installation.
- The meter should be constantly full of water during operation.
- The meter must be installed with the direction of the flow as in dicated by the arrow cast in the meter body.



PERFORMANCE DATA

Nominal Sizes	Metero-logical	Qmax	Qn	Qt	Qmin	Maximum Register Capacity	Minimum Register Capacity	Accuracy Between Qmax & Qt	Accuracy Between Qt & Qmin
mm Inches	Class	Minimum Flow Rate (m ³ /h)	Nominal Flow Rate (m ³ /h)	Transitional Flow Rate (L/h)	Minimum Flow Rate (L/h)	(m ³)	(L)		
15 1/2"	Class-C	3	1.5	22.5	15	9999.9999	0.02	± 2%	± 5%
20 3/4"	Class-C	5	2.5	37.5	25	9999.9999	0.02		

Construction :

The meter mainly consists of lower body, a measuring unit, a transmission assembly, a register, a upper body & others. The lower body secures the internal parts

Working Conditions :

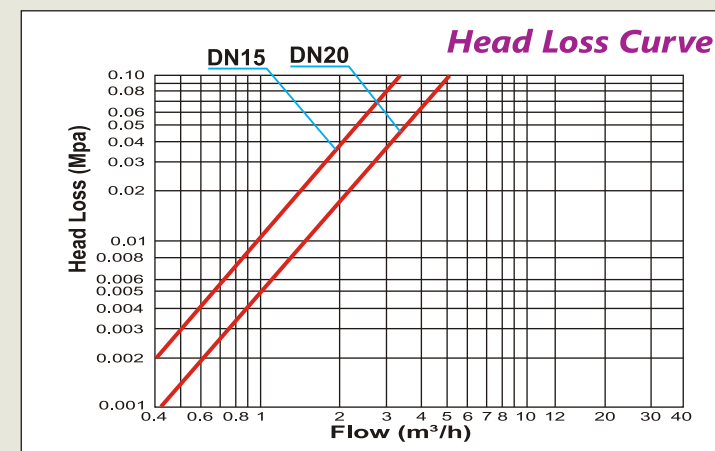
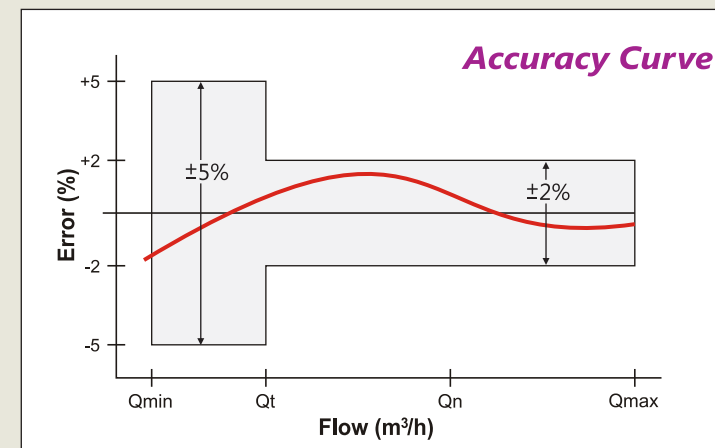
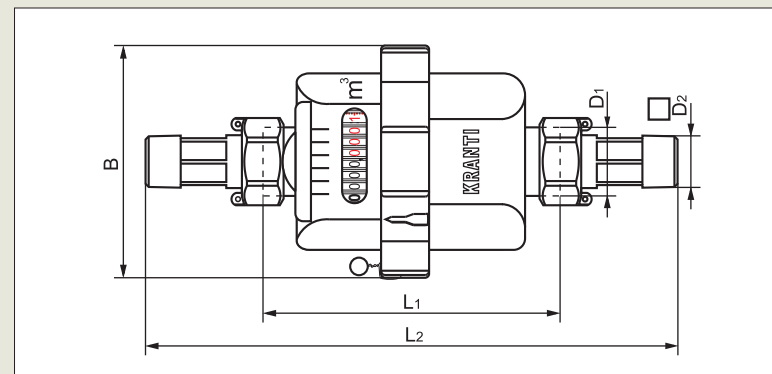
▶ Water Temperature ≤ 40°C ▶ Water Pressure ≤ 1.6MPa

Working Principle :

- ✓ The working principle is based on a calibrated chamber of known capacity and a rotary piston activated by the energy of the flow passing through.
- ✓ The piston rotates while the chamber fills up and empties. with a constant volume of water. By counting these cycles, the register indicates the total volume that has been register.

DIMENSIONS

Model	KRP-C	KRP-C
Nominal Size (mm)	15	20
(Inches)	1/2	3/4
D1 - Meter Connection Thread ISO 228/1	G3/4 B	G1 B
D2- Meter Connection Pipe ISO 7/1	R½	R¾
L1 - Length without Couplings (mm)	115	130
L2 - Length with Couplings (mm)	209	234
B - Width (mm)	86	86



KRANTI **KHO**
Multi Jet Dry Dial
WATER METER HOT WATER METER

Check on every drop

Rite **RITE**
Multi Jet Dry Dial

Check on every drop

features

- Inferential Type Dry Dial Mechanical Driven.
- Circular Multipointer Pattern type register with all pointers reading clockwise.
- Innovative Design with Wiper for Clear Reading.
- All the materials in contact with Hot water, consciously selected by the known resistance to corrosion.
- Suitable for **HOT WATER** with maximum temperature 90°.
- Wide Range of products 15mm to 50mm.

Standards
as per
IS 779:1994



Applications



features

- Inferential Type Dry Dial, Multi Jet, Magnetic Transmission.
- Straight Reading Cyclometer Type register for the most comfortable reading position of 7 rollers & 2 pointers.
- Only one moving part - the impeller - in contact with the water for minimum wear & utmost reliability.
- All the materials in contact with water, consciously selected by the known resistance to corrosion.
- Size Range 15mm.

Standards
IS 779:1994
ISO 4064:1993



Applications



PERFORMANCE DATA

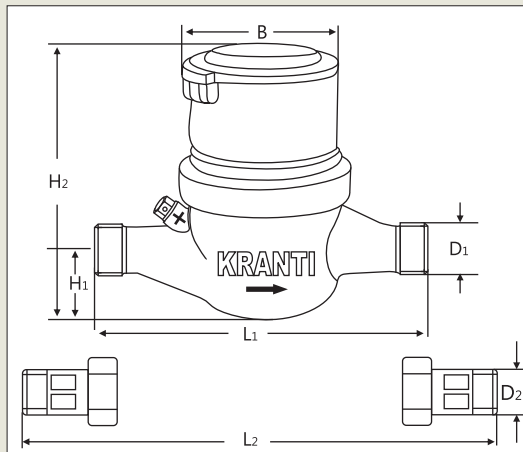
Nominal Sizes	Metero-logical	Q _{max}	Q _n	Q _t	Q _{min}	Maximum Register Capacity	Minimum Register Capacity	Accuracy Between Q _{max} & Q _t	Accuracy Between Q _t & Q _{min}
mm Inches	Class	Minimum Flow Rate (m ³ /h)	Nominal Flow Rate (m ³ /h)	Transitional Flow Rate (L/h)	Minimum Flow Rate (L/h)	(m ³)	(L)		
15 1/2"	Class-A	3	1.5	150	60	9999.99	1.0	± 3%	± 5%
20 3/4"	Class-A	5	2.5	250	100	9999.99	1.0		
25 1"	Class-A	7	3.5	350	140	9999.99	1.0		
40 1 1/2"	Class-A	20	10	1000	400	9999.99	1.0		
50 2"	Class-A	30	15	1500	600	9999.99	1.0		

Working Conditions :

▶ Water Temperature ≤ 90°C ▶ Water Pressure ≤ 1MPa ▶ Pressure Loss (a)ΔP<0.1MPa at Q_{max} (b)ΔP<0.025MPa at Q_n ▶ Maximum Pressure-16 Bar

DIMENSIONS

Model		KHO	KHO	KHO	KHO	KHO
Nominal Size	(mm)	15	20	25	40	50
	(Inches)	1/2	3/4	1	1 1/2	2
D1 - Meter Connection Thread ISO 228/1		G3/4 B	G1 B	G1 1/4 B	G2 B	G2 1/2 B
D2- Meter Connection Pipe ISO 7/1		R 1/2	R 3/4	R1	R1 1/2	R2
L1 - Length without Couplings (mm)		165	190	260	300	330
L2 - Length with Couplings (mm)		250	290	380	430	470
B - Width (mm) (Max.)		100	130	170	210	270
H1 - Centerline Height (Max.)		50	60	65	75	115
H2 - Overall Height (Max.)		180	240	260	300	300



PERFORMANCE DATA

Nominal Sizes	Metero-logical	Q _{max}	Q _n	Q _t	Q _{min}	Maximum Reading	Minimum Reading
mm Inch.	Class	(m ³ /h)	(m ³ /h)	(L/h)	(L/h)	(m ³)	(L)
15 1/2"	Class-B	3	1.5	120	30	99999.9999	0.05

IS 779:1994

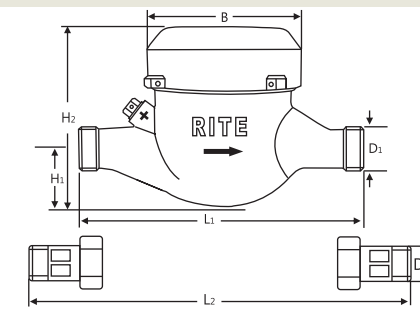


Accuracy :

- ▶ From minimum flow rate (Q_{min}) inclusive, to transitional flow rate (Q_t), exclusive : ± 5%
- ▶ From transitional flow rate (Q_t) inclusive, to maximum flow rate (Q_{max}), exclusive : ± 2%

Working Conditions :

- ▶ Water Temperature ≤ 50°C
- ▶ Water Pressure ≤ 1MPa
- ▶ Pressure Loss ΔP<0.1MPa at Q_{max} ΔP<0.025MPa at Q_n
- ▶ Maximum Pressure-16 Bar



DIMENSIONS

Model		RITE
Nominal Size	(mm)	15
	(Inches)	1/2
D1 - Meter Connection Thread ISO 228/1		G3/4 B
D2- Meter Connection Pipe ISO 7/1		R 1/2
L1 - Length without Couplings (mm)		165
L2 - Length with Couplings (mm)		250
B - Width (mm) (Max.)		100
H1 - Centerline Height (Max.)		50
H2 - Overall Height (Max.)		180





▲ Nipples

▼ Nuts



▼ Filters

Washers ▼

◀ Meter Box ▶

'Y' Type Strainer ▲

TEST BENCH FOR WATER METER (15mm-50mm)



- Stainless Steel Frame:** The frame of the test bench is made from very high grade stainless steel tube to provide strength and durability to the machine.
- Hydro lever*:** This hydro lever is a special purpose pressure lever for conducting pressure tightness test i.e. 1.6Mpa and 2Mpa.
- Hydro Gauges:** To check the pressure of the pump.
- Valves: On/Off Valves** for conducting the test on the water meters.
- Meter locking Cylinder:** To lock the meter or meter tightness.
- Temperature indicator:** To check the temperature of the water. It should be less than or equal to 45 Degree Celsius as per IS779.
- Pressure Gauge:** To check the pressure of line and the pressure for Hydro.
- Water Stabilizer:** Many health and safety problems that we face in our communities are directly attributable to an inadequate water supply. The term "inadequate" is used here to refer not to the quantity of water available, but to its Quality. For years we have had to use more and stronger soaps and detergents to clean the same amount of dirt while our plumbing systems and water heaters slowly close down to a trickle, a drip and then no water at all. The potable water supplied to us is basically electron deficient and not in optimum states of equilibrium. The water stabilizer is employed to fight with this problem. This water stabilizer is made from 2.5mm thickness sheet of stainless steel to provide it the strength and durability. The capacity of the water stabilizer is 1000 liters.
- Water Level Indicator:** To check the level of the water. It should be at its maximum stage with the help of 23.
- Pressure gauge:** To check and control the pressure in the stabilizer.
- Panel Board:** To operate the machine a panel board is provided with three switches i.e. Red, Green, Yellow. Initially while starting the machine Red light appears which means the machine is getting the supply and then it converts into Green light which means that the machine is ready to operate. If there is any kind of fault in the machine then yellow light appears i.e. overload, low voltage, reverse rotation of the pump or any kind of electrical deficiency leads to yellow light and then the necessary steps to be taken to rectify the problem.
- On/Off Valves:** This on/off valve is used to increase the pressure which is needed to test bigger sizes meter otherwise it should be in the on mode.
- Measuring Vessel (0-20L):** To check the quantity of water which had passed through the water meter i.e. 0-10-20L.
- Measuring Vessel (0-300L):** To check the quantity of water which had passed through the water meter i.e. 0-100-300L.
- Water Level Indicator for double vessel:** To check the water level in both the vessels.
- Rotameters:** Four rotameters are provided on the machine to adjust the volumetric flow rate for measurement of the water passed through the water meters.
- Valves:** To adjust the flow on the rotameters with the help of flow valve.
- Open/close lever:** To drain the water from the vessels i.e. one for measuring vessel 0-20L and other for measuring vessel 0-300L.
- Water Tank:** To store the water required for testing of water meters. The capacity of water tank is 100L.
- Pump:** Wilo Germany make servo pump of capacity 5.5KW with a capacity to operate from 10l/h to 30000L/h.
- Tool Box:** Tool box to carry the accessories required for the test bench.
- On/Off hydro lever:** To set the pressure for pressure tightness test i.e. 1.6Mpa and 2.0Mpa.
- Stabilizer air valve**:** To remove the air from the stabilizer. Please do operate it only after starting the pump.
- Open/Close lever:** This lever is used to fix or release the meter on the time by operating the cylinder.
- Water Tank level Indicator:** To check the water level in the main tank.
- Water Hydro master cylinder*:** This cylinder is used for building pressure required for pressure tightness test in combination with point 2.
- On/Off Valve:** To set the flow and then close this valve. After inspection of the water meter again open this valve to release the water without altering the flow valve.