











M.I.D. CERTIFIED













COMPANY



'Kranti' Water Meters are Woltman Type (Removable Mechanism) with Magnetic Drive, Flange end and hermetically sealed as per Class B of ISO: 4064 & ISI Marked SPIRAL Water Meters (Bulk Enclosed Type) IS:2373 and are available from 40mm to 1000 mm. We are also manufacturing 'T' type Strainer (Dirt Box). 'Belanto' make screwed (15mm to 50mm) & flange end (50mm to 300mm) Water Meters.

'Kushal' Flow Meters are Flame proof IP 65/ IP 66, CMRI certified IIA IIB having range Electromagnetic Flow Meters, Turbine Flow Meters, Battery Operated Flow Meters, Oil Flow Meter. Our meters are recommended for Water, Refineries, Petro Chemicals, Sugar Mills, Textile Mills, Paper Mill, ETP plant, Milk Plant, Diesel, Vegetable Oils and other commercial and industrial applications.

Our products are widely marketed and have won wild praise from all over for its achievements & contribution towards developments because we never compromise with the quality. Our Vision is to achieve number one position in Indian as well as in global market and we believe this is achievable by proactive thinking, accurate planning and relentless pursuit of excellence with customer's needs.

PROFILE



B.M. WATER METERS is India's leading and quality oriented company engaged in manufacturing and exporting of Water Meters and Electromagnetic Flow Meters. The company was incorporated in the year 1980 in the field of Water Meters under the brand name of 'KRANTI' and 'BELANTO' has acquired an established reputation and goodwill in every corner of market for its sturdy construction, international quality and allround performance Today, the company is accredited with ISO 9001: 2015, ISO 14000 & ISO 18000, EEPC, NSIC, ISO 4064, ISI certification and crisil rating.

With state of the art manufacturing facility, presently we are manufacturing meters with in-house designing and testing facility and are also in process of adding more lines. We are currently exporting our products to over 15 countries worldwide and our production line confirms to the following standard......



PARTNER'S MESSAGE



It is a moment of pride and privilege for us as we release our 2nd edition of catalogue for the information & reference of all our valued clients and consumers.

Today B.M WATER METERS is recognized as one of the most leading and quality oriented manufactures of Water Meters, Electromagnetic Flow Meters and AMR Water Meters.

MID Certified Water Meters screwed & Flange Ends.

It's my pleasure and pride to state that I floated this company with Quality base foundation. At B.M Water Meters our highly skilled work force not only uses the latest, most promising technologies but they are also consistently encouraged to develop new products, experiment with new processes and think new ideas. Our marketing team is energized by the desire to reach the customer in the most interesting and novel ways. I deem B.M Water Meters is old in years but quite young in attitude. My good wishes and support have always & will continue to remain with all B. M. Water Meters team members.

I believe that the success of B.M Water Meters has only been possible because of team-work. However, I would like to take this opportunity to thank all our worthy dealers, customers, suppliers, business associates, bankers and most important our employees for their continued commitment and support. I wish them all the very best for the next years......

An Institution is a lengthened personality of an individual.

Avinash Sharma
Partner





We offer our B.M. Products to our worthy National and International customers, I am pleased to assure that our unit is working with a mission which covers not only earning profit but also customer satisfaction by supplying the best "Water Meters" product at the most reasonable price.

I truly believe that we will positively be the recognized industry leader by providing unsurpassed customer service, quality products, innovative technology and business ideas. Our firm determination is to provide true worth to the customers to their entire satisfaction.

I also believe that development and quality is like a circle which knows no end and this gives a strong base to my decision for upgrading our company's infrastructure.

> Kushal Sharma Partner





CERTIFICATIONS

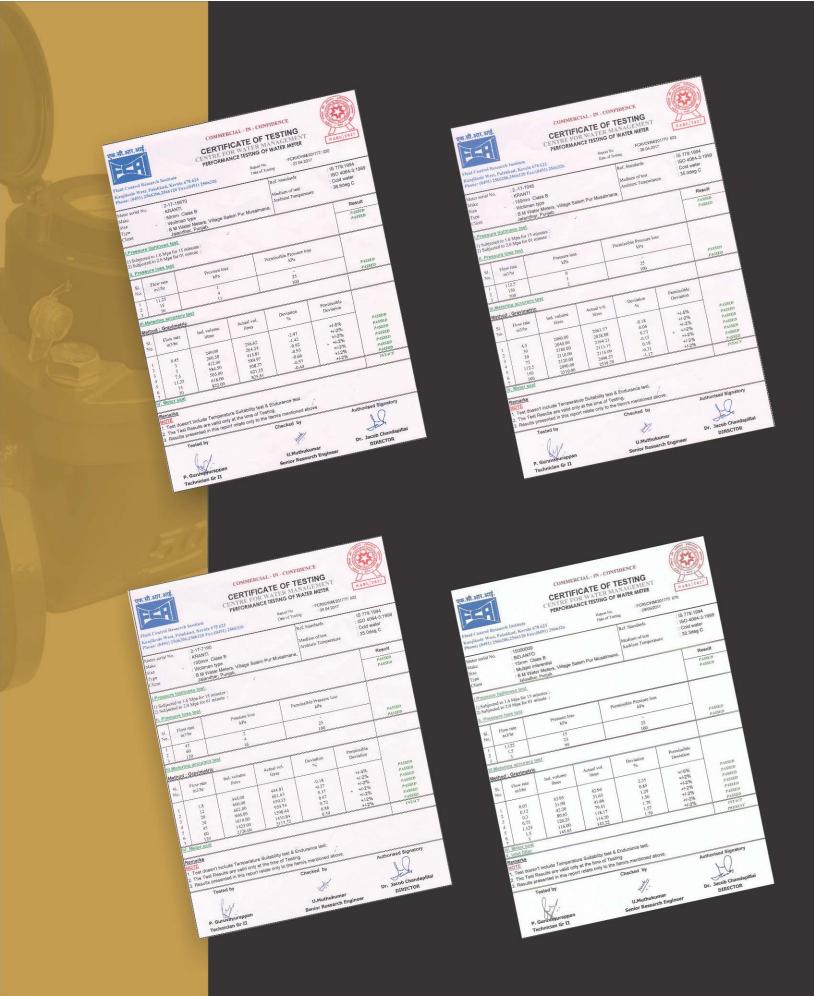












CERTIFICATIONS











AWARDS & RECOGNITION





Proud Winner of "PRIDE OF PUNJAB" Award. Awarded by ZEE Punjabi Channel





Award Presented by H.E. Governor of Himachal, Acharya Dev Vrat Ji.



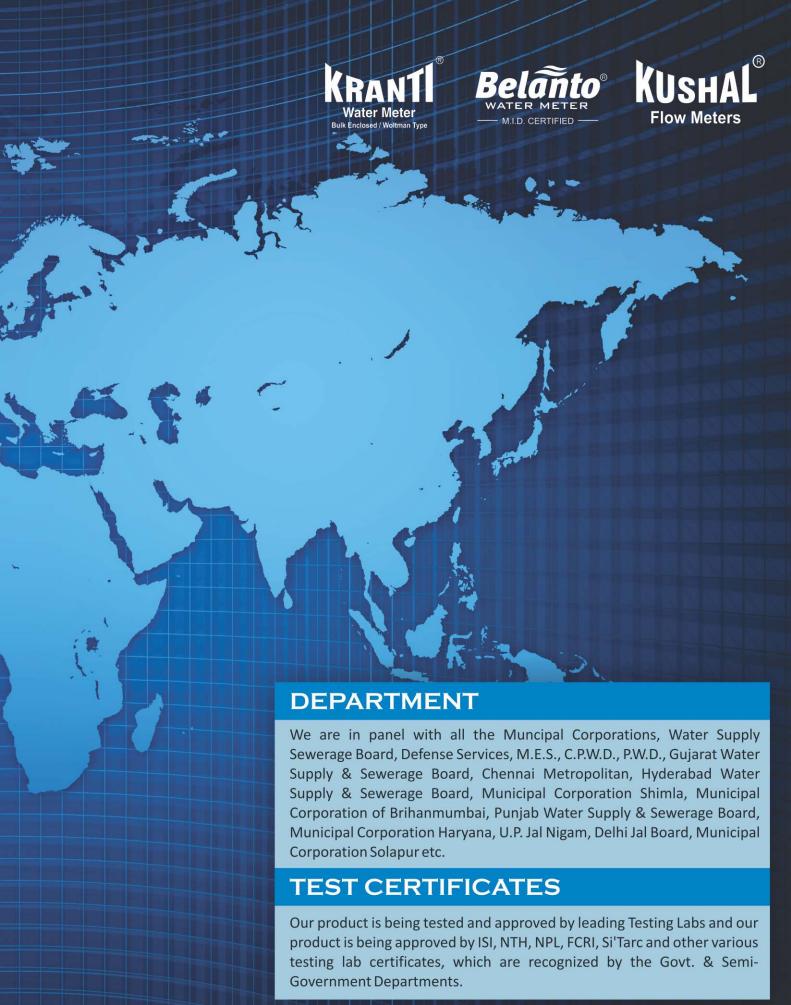
O4th September 2017 (Monday), was a Remarkable and Most Memorable day in the history of our Long Journey, when we were awarded as "Pride Of Punjab". This gave us a feeling that someone who is Master and Marked as Leader in the Field of Measurement, has measured himself.

In Prestigious presence of Mr. Charanjeet Singh Channi (Cabinet Minister, Punjab), the Award was presented in a Gala function held at J.W. Marriot, Chandigarh.

On behalf of B.M. Water Meters, Mr. Avinash Chander Sharme & Mr. Kushal Sharma were present on this occasion. After ceremony, Mr. Avinash Chander Sharma said that our Principal Motto is to serve our Great Nation with producing & providing Quality Products, and we are proud to present Zero Defect Product. Mr. Kushal Sharma said that our policy is to constructive participation in Growth of our Society, & Nation.

We are charged enough to avail Top position in South Asia Market with Maximum of Experts.

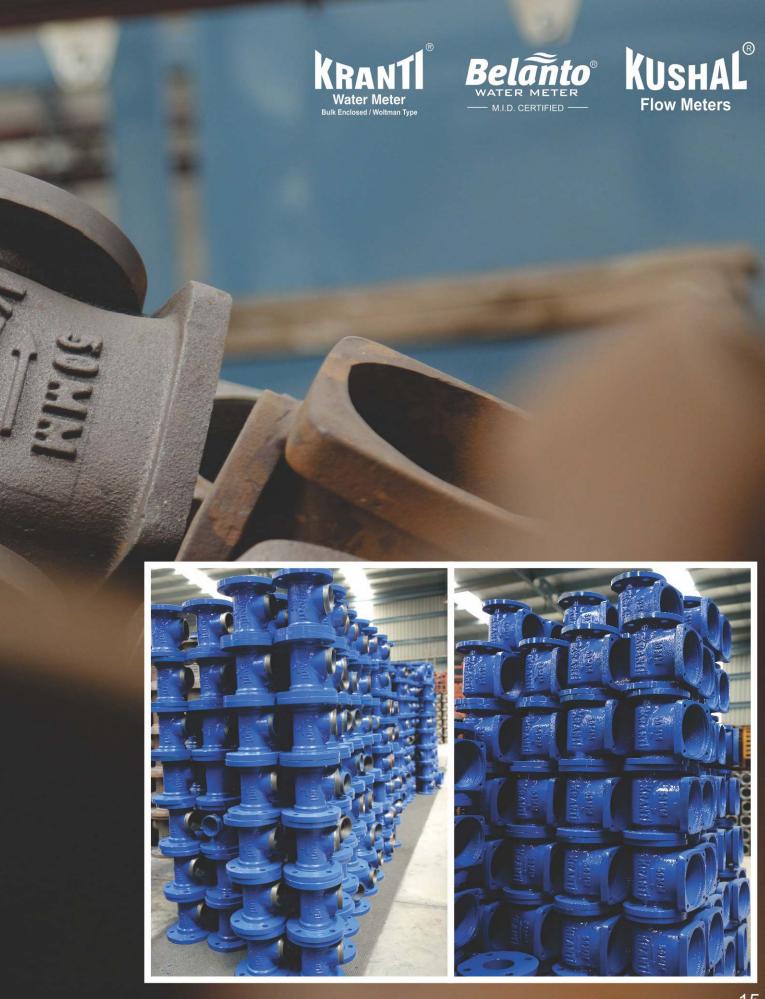






- · ISI CERTIFICATE
- · FCRI (PALAKKAD, KERALA)
- · Si'Tarc (COIMBATORE)
- · CE MARKED
- · ISO CERTIFICATIONS
- · NSIC
- · DELHI JAL BOARD (DELHI)
- · MUMBAI MUNICIPAL CORP.
- · PUBLIC HEALTH PUNJAB
- · CWSSB (CHENNAI)
- · CHENNAI METRO WATER

- · HUBLI MUNICIPAL CORP.
- · MUNICIPAL CORP. OF SHOLAPUR
- · MUNICIPAL CORP. OF CHANDIGARH
- · MUNICIPAL CORP. OF NASIK
- · MUNICIPAL CORP. OF SHIMLA
- · U.P. JAL NIGAM
- · PUBLIC HEALTH ENGG. (RAJASTHAN)
- · PUBLIC HEALTH ENGG. (J & K)
- · NATIONAL TEST HOUSE GHAZIABAD
- · NATIONAL PHYSICAL LABORATORY DELHI



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KUSHAL®

ELECTRO MAGNETIC FLOW METER





TURBINE FLOW METER



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INSERATION TYPE ELECTRO MAGNETIC FLOW TRANSMITTER





ULTRASONIC FLOW **METER**





ULTRASONIC WATER **METERS**

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METROLOGICAL PERFORMANCE

Normal Size	40	50	80	100	150	200	250	300	350	400	450	500	600	750	900
Intermediate Flow Litres Per Hour	10000	20000	62000	100000	250000	400000	550000	750000	1000000	1500000	2000000	2500000	3500000	4000000	5000000
Nominal Flow Litres Per Hour	20000	50000	125000	200000	500000	800000	1100000	1500000	2000000	3000000	4000000	5000000	7000000	8000000	10000000
Lower Limit of Flow Litres Per Hour	1000	1660	4160	6660	16660	26660	36660	50000	66660	100000	133300	166600	233300	266666	333300
Minimum Start- ingFlow Litres Per Hour	400	500	1000	1500	3500	5500	9000	14000	20000	25000	30000	35000	45000	55000	65000
Pressure Testing Kg/Cm ²	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Minimum Reading in Litres	10	10	10	10	100	100	100	100	100	100	100	100	100	1000	1000
Maximum Reading in Litres		1000	000000		1000000000 1000000000						100000	0000000			

Water Meter
Bulk Enclosed / Woltman Type

STANDARDS

• Conforms to IS 2373/1

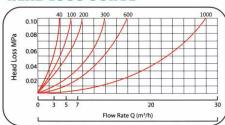
SALIENT FEATURES

- Dry dial mechanical driven flange ends.
- Ensures wiper to keep the dial free from frost for clear reading
- Metallic gears for long life and durability
- Size range from 40mm to 1000mm

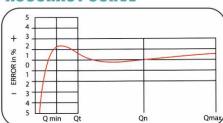
WORKING CONDITIONS:

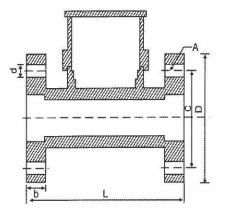
- Water Temperature 45°C
- Water Pressure ≤ 1MPa
- Pressure Loss < 0.1 Pa
- Maximum Pressure -16 Bar

HEAD LOSS CURVE



► ACCURACY CURVE





FLANGES DIMENSIONS

				6											
Normal Size	40	50	80	100	150	200	250	300	350	400	450	500	600	750	900
Outside Dia of Flange (D) mm	145	165	200	220	285	340	395	445	505	565	615	670	780	960	1115
Thickness of Flange (b) mm	19	19	21	22	23	24.5	26	27.5	29	30	31.5	33	36	40	44
Dia of Bolt Circle (C) mm	110	125	160	180	240	295	350	400	460	515	565	620	725	900	1050
Number ofHoles (A)	4	4	4	8	8	8	12	12	16	16	20	20	20	24	28
Dia of BoltHoles (d) mm	19	19	19	19	23	23	23	23	23	28	28	28	31	31	34
Total Length (L) mm	170	170	198	240	295	343	443	365	530	535	580	610	645	655	



- 1. Above particular relate to cold water meters suitable for temperature upto 45°C.
- 2. As constant efforts are made to improve the design, details given in the leaflet, are subject to change or modify without any prior notice.
- 3. Flanges drilled as per IS:1538 Part IV & VI

Water Meter
Bulk Enclosed / Woltman Type



METROLOGICAL PERFORMANCE

Size of Meter		Acc(%)	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Minimum Flow Q min	m³/h	±5	0.3	0.45	0.75	1.20	1.80	4.50	7.50	12.00	18.00	24	30.00	37.5	45.00	75.00
Transitional flow Qt	m³/h	±2	2	3	5	8	12	30	50	80	120	160	200	250	300	500
Nominal flow Qn	m³/h	±2	10	15	25	40	60	150	250	400	600	800	1000	1250	1500	2500
Maximum flow Q max	m³/h	±2	20	30	50	80	120	300	500	800	1200	1600	2000	2500	3000	5000
Minimum Reading	m ³		0.002	0.002	0.002	0.002	0.002	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Maximum Reading	m^3		9999999 99999999													
Temperature Suitability	°C		45°C													
Pressure Test	Ka/cm ²								20kg/	cm ²						

NOTES

- 1. Above particular relate to cold water meters suitable for temperature upto 45°C.
- 2. As constant efforts are made to improve the design, details given in the leaflet, are subject to change or modify without any prior notice.
- 3. Flanges drilled as per IS:1538 Part IV & VI



KRAN1 CLASS-B WATER METER

Water Meter
Bulk Enclosed / Woltman Type

STANDARDS

Conforms to ISO 4064/1 Class-B

APPLICATIONS

Water Distribution Network Industrial
Commercial Water Supply ETP Plant, Pharmaceutical, PWD

> SALIENT FEATURES

- Dry dial magnetic driven flange ends
- Interchangeable spare without interrupting water supply
- Provide resistance against condensation hermetically sealed copper casing as per IP68
- Offer high measurement sensitivity and accuracy
- Offer Size range from 40mm to 600mm

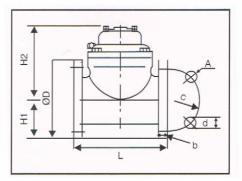
WORKING CONDITIONS:

- Water Temperature 45°C
- Water Pressure < 1MPa
- Pressure Loss < 0.1 Pa
- Maximum Pressure -16 Bar

OPTIONS

• Hot Water Meters (<90°C)





METER DIMENSIONS

Size of Meter	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Length (L) mm	245	200	200	225	250	300	350	450	500	500	600	600	600	800
Height (H1) mm	72	78	90	95	108	135	160	198	223	254	282	307	334	390
Height (H2) mm	188	174	171	170	173	200	195	258	262	321	323	382	396	450

FLANGES DIMENSIONS

Size of Meter	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Dia Bolt Circle (c)	110	125	145	160	180	240	295	350	400	460	515	565	620	725
Dia Bolt Holes (d)	19	19	19	19	19	23	23	23	23	23	28	28	28	31
Number of Holes (A)	4	4	4	4	8	8	8	12	12	16	16	20	20	20
Outside Dia of Flanges (D)	150	165	185	200	220	285	340	395	445	505	565	615	670	780
Thickness of Flanges (b)	19	19	20	21	22	23	24.5	26	27.5	29	30	31.5	33	36

KRANTI® CLASS-B HOT WATER METER



METROLOGICAL PERFORMANCE

Size of Meter		Acc(%)	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Minimum Flow Q min	m³/h	±5	0.3	0.45	0.75	1.20	1.80	4.50	7.50	12.00	18.00	24	30.00	37.5	45.00	75.00
Transitional flow Qt	m³/h	±2	2	3	5	8	12	30	50	80	120	160	200	250	300	500
Nominal flow Qn	m³/h	±2	10	15	25	40	60	150	250	400	600	800	1000	1250	1500	2500
Maximum flow Q max	m³/h	±2	20	30	50	80	120	300	500	800	1200	1600	2000	2500	3000	5000
Minimum Reading	m ³		0.002	0.002	0.002	0.002	0.002	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Maximum Reading	m^3				9999999)					9999	99999				
Temperature Suitability	°C								45°	C						
Pressure Test	Kg/cm ²								20kg/	cm ²						

NOTES

- 1. Above particular relate to cold water meters suitable for temperature upto 45°C.
- 2. As constant efforts are made to improve the design, details given in the leaflet, are subject to change or modify without any prior notice.
- 3. Flanges drilled as per IS:1538 Part IV & VI



Water Meter
Bulk Enclosed / Woltman Type

STANDARDS

Conforms to ISO 4064/1 Class-B

APPLICATIONS

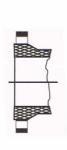
Water Distribution Network Industrial Commercial Water Supply ETP Plant, Pharmaceutical, PWD

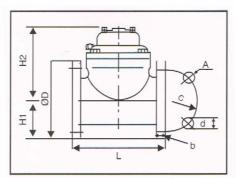
> SALIENT FEATURES

- Dry dial magnetic driven flange ends
- Interchangeable spare without interrupting water supply
- Provide resistance against condensation hermetically sealed copper casing as per IP68
- Offer high measurement sensitivity and accuracy
- Offer Size range from 40mm to 600mm

WORKING CONDITIONS:

- Water Temperature 110° Hot
- Water Pressure ≤ 1MPa
- Pressure Loss < 0.1 Pa
- Maximum Pressure -16 Bar





METER DIMENSIONS

Size of Meter	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Length (L) mm	245	200	200	225	250	300	350	450	500	500	600	600	600	800
Height (H1) mm	72	78	90	95	108	135	160	198	223	254	282	307	334	390
Height (H2) mm	188	174	171	170	173	200	195	258	262	321	323	382	396	450

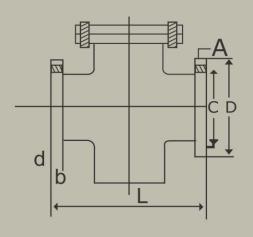
FLANGES DIMENSIONS

Size of Meter	40mm	50mm	65mm	80mm	100mm	150mm	200mm	250mm	300mm	350mm	400mm	450mm	500mm	600mm
Dia Bolt Circle (c)	110	125	145	160	180	240	295	350	400	460	515	565	620	725
Dia Bolt Holes (d)	19	19	19	19	19	23	23	23	23	23	28	28	28	31
Number of Holes (A)	4	4	4	4	8	8	8	12	12	16	16	20	20	20
Outside Dia of Flanges (D)	150	165	185	200	220	285	340	395	445	505	565	615	670	780
Thickness of Flanges (b)	19	19	20	21	22	23	24.5	26	27.5	29	30	31.5	33	36



DESCRIPTION

The T type strainer has been designed for fitting into a horizontal pipeline These strainers are supplied as integrally flanged manufacturer and drilling as per IS 1538 Part IV & VI units have a stainless steel mesh.



APPLICATIONS

- Sizes available from 40mm to 1000mm
- Provide Strainer before the meter to take better performance of the Meter.
- Install the Meter and the Strainer in Horizontal position as marked arrow (←) on the Meter
- Flanges dimensions of Strainer is as per IS 1538 Part IV & VI.

SIZES	OUT SIDE DIA OF FLANGE (D) MM	THICNESS OF Flanges (B) MM	DIA OF BOLT CIRCLE (C) MM	NO. OF Holes (A)	DIA OF BOLT HOLES (D) MM	TOTAL LENGTH (L) MM
40MM	145	19	110	4	19	178
50MM	165	19	125	4	19	178
80MM	200	21	160	4	19	225
100MM	220	22	180	8	19	225
150MM	285	23	240	8	23	345
200MM	340	24.5	295	8	23	405
250MM	395	26	350	12	23	545
300MM	445	27.5	400	12	23	516
350MM	505	29	460	16	23	647
400MM	565	30	515	16	28	710
450MM	615	31.5	565	20	28	775
500MM	670	33	620	20	28	840
600MM	780	36	725	20	31	1020







QUALITY IS OUR 1ST POLICY



METER DIMENSIONS

DN	40	50	65	80	100	125	150	200	250	300	350	400	500
L	260	200	200	225	250	250	300	350	450	500	500	600	800
Н	225	252	262	272	282	297	341	371	480	516	560	647	785
H1	303	339	349	359	369	384	428	458	576	603	603	723	838
G	360	400	400	400	400	400	500	500	710	730	730	830	930
D	150	165	185	200	220	250	285	340	405	460	520	580	715
D1	110	125	145	160	180	210	240	295	355	410	470	525	650
nxM	4xM16	4xM16	4xM16	8xM16	8xM16	8xM20	12xM20	12xM20	12xM24	12xM24	16xM24	16xM27	20xM30

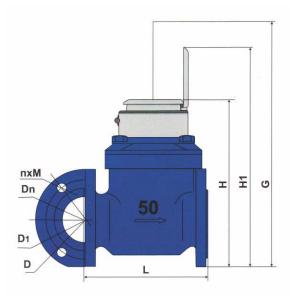


WOLTMAN (Turbine)

Belanto WP-SDC is TURBINE Woltman water meter with magnetic transmission, super dry type register for industrial and irrigation application has the sizes from Dn40 to Dn500 designed by Belanto and meets to the requirements of Directive 2004/22/EC on measuring instruments and of European Standard EN14154.

► CHARACTERISTICS

- All the materials in contact with water, consciously selected by the known resistance to corrosion;
- Iron body with inside and outside epoxy coating for protecting the corrosion;
- → The ROTATING indicator register for the most comfortable reading position;
- → The copper can super dry register with IP68 protection;
- → The Interchangeable, removable measuring mechanism can be easy removed from the body for checking, maintaining and replacing, no needs to dismantle the body from the pipe;
- Low pressure loss;
- No effected by external magnetic fields;
- Pulse output always ready, and Pulse output AS OPTION.
 - The Pulse Output Device consists of a plastic housing with a Reed Switch, and 1,5 m cable with 2 cores in Red and Black.
 - → Electric data: Vmax=24AC/DC; Imax=0,01A
 - Capacity of the Pulse Emitter:





Size	m³/	pulse
Dn40 to Dn125	0.1	1
Dn150 to Dn200	1	10
Dn250 to Dn500	10	100



V	100000	-		150000
SIZE	mm	Dn15	Dn20	Dn20
R	Q3/Q1	80	80	80
Q4	m³/h	3,125	5	3,125
Q3	m³/h	2,5	4	2,5
Q2	l/h	50	80	50
Q1	l/h	31,25	50	31,25
	Sp	ecification AS OPTIO	ON	
R	Q3/Q1	50	50	50
Q4	m³/h	2	3,125	2
Q3	m³/h	1,6	2,5	1,6
Q2	l/h	51.2	80	51.2
Q1	l/h	32	50	32
Max. Reading	m³		99999,9999	
Min. Reading	Liter		0.05	
Pressure Loss	Р		P<63 at Q3	
Max. Pressure	MAP		MAP16	
Max. Temperature	°C		T30 or T50	1 199
				THE RESIDENCE OF THE PERSON NAMED IN

WATER METER

— M.I.D. CERTIFIED —

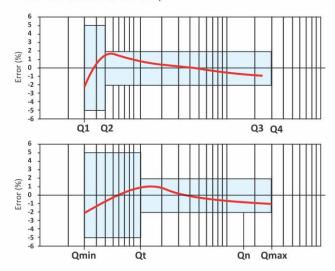
Belanto MULTI G is IMPELLER (turbine) water meter with magnetic transmission, dry type register for residential application with sizes from Dn15 to Dn25 designed by Belanto and meets to the requirements of Directive 2004/22/EC on measuring instruments; the European Standard EN14154+A1+A2: <Water Meter>; the International Organization of Legal Metrology OIML R-49: 2006(E): <Water meters intended for the metering of cold potable water and hot water.

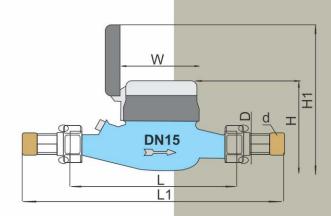
► CHARACTERISTICS:

- All the materials in contact with water, consciously selected by the known resistance to corrosion;
- Cold water meter under current standard for lower than 30 C(T30), but Belanto MULTI G can be used safely in water temperature up to 50 C(T50);
- The ROTARY indicator register for the most comfortable reading position of 7 Rollers and 2 Pointers;
- The ROTARY plastic cap and lid for the most comfortable installation;
- The Impeller is the only moving parts in contact with water permitting the most reliable;
- The inlet filter at the inlet of the meter body permits cleaning it without breaking the metrological seal; Internal filter as option;
- The conception of the Magnetic Protection to against the external influences;
 Non return Valve to avoid the reserve flow Rate AS OPTION;

Max. Permission Error:

From Q1 inclusive up to but excluding Q2 is \pm 5%; From Q2 inclusive up to and including Q4 is \pm 2% for T30 and \pm 3% for T50;





SIZE	Dn	Dn15	Dn20	Dn25					
Metrological Class	В	В	В	В					
Qmax	m³/h	3	5	7					
Qn	m³/h	1.5	2.5	3.5					
Qt	l/h	120	200	280					
Qmin	l/h	30	50	70					
Max. Reading	m³		99999,9999						
Min. Reading	Liter		0,05						
Pressure Loss	Bars	P<1 at Qmax P<0.25 at Qn							
Max. Pressure	Bars	s PN16							
Max. Temperature	°C		40						

Size	Dn15	Dn20	Dn25
L	165	190	260
L1	259	294	380
D	G3/4B	G1B	G 1/1/4 B
d	R1/2	R3/4	R1
Н	90	90	112
H1	145.5	145.5	190
W	77.5	77.5	95.5







TECHNICAL DATA:

NOMINAL SIZE DN (mm)	Class of measurement	Overload flow-rate qs(m ³ h)	Permanent flow-rate qp(m ³ h)	Transitional flow-rate qt(m ³ h)	Minimum flow-rate qmin(m ³ h)	Minimum Reading min(m ³)	Maximum Reading max(m ³)
50	В	30	15	3.0	0.45	0.01	999999
65	В	50	25	5	0.75	0.01	999999
80	В	80	40	8	1.2	0.01	999999
100	В	120	60	12	1.8	0.01	9999999
125	В	200	100	20	3	0.1	9999999
150	В	300	150	30	4.5	0.1	9999999
200	В	500	250	50	7.5	0.1	9999999

OVERALL DIMENSIONS AND WEIGHT

Size (mm)	Length (mm) L	Width (mm) W	Height (mm) H	Output diameter of flange D(mm)	The center diameter of connecting bolt D1(mm)	Connecting bolt (Pcs.)	Weight (kg)
50	200	165	247	165	125	4xM16	12
65	200	185	260	185	145	8xM16	13
80	225	200	264.5	200	160	8xM16	15
100	250	220	271.5	220	180	8xM20	19
125	250	250	295	250	210	8xM20	23
150	300	285	301.5	285	240	8xM20	30
200	350	340	358.5	340	295	12xM20	42

Belanto REMOVABLE MECHANISM HORIZONTAL DRY TYPE

WATER METER

- M.I.D. CERTIFIED -

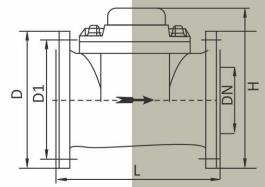
Belanto MULTI G is IMPELLER (turbine) water meter with magnetic transmission, dry type register for residential application with sizes from Dn15 to Dn25 designed by Belanto and meets to the requirements of Directive 2004/22/EC on measuring instruments; the European Standard EN14154+A1+A2: <Water Meter>; the International Organization of Legal Metrology OIML R-49: 2006(E): <Water meters intended for the metering of cold potable water and hot water.

► ACCURACY :

- From minimum flow-rate (qmin) inclusive, to transitional flow-rate (qt), exclusive:±5%
- From transitional flow-rate (qt) inclusive, to overload flow-rate (qs), exclusive:±2% (Hot water meter:±3%)

WORKING CONDITION:

- Water temperature<50°C (Hot water meter <90°C)
- Water pressure<1MPa (PN: 1.6MPa/16bar)
- △P<0.03 MPa



► FEATURES:

- Dry-dial, magnetic drive
- Vacuum sealed register, frost resistant, keeps clear reading for long time
- Removable measuring unit, easy installation and maintenance
- · Measuring high flowrate with low head loss.
- Remote transmission device can be added upon request
 Many kinds of sensors, such as Reed Switch, hall and Weagand can be supplied upon request.

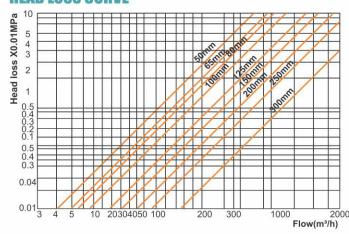
Pulse output may be, 100L/Pulse, 1000L/Pulse

The meters conform to ISO4064 Standard Class B

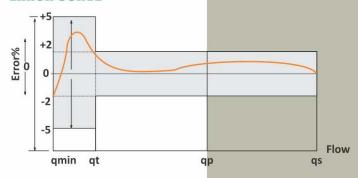
CHARACTERISTICS:

- All the materials in contact with water, consciously selected by the known resistance to corrosion;
- Cold water meter under current standard for lower than 30 C(T30), but Belanto MULTI G can be used safely in water temperature up to 50 C(T50);
- The ROTARY indicator register for the most comfortable reading position of 7 Rollers and 2 Pointers;
- The ROTARY plastic cap and lid for the most comfortable installation;
- The Impeller is the only moving parts in contact with water permitting the most reliable;
- The inlet filter at the inlet of the meter body permits cleaning it without breaking the metrological seal; Internal filter as option;
- The conception of the Magnetic Protection to against the external influences;
 Non return Valve to avoid the reserve flow Rate AS OPTION;

HEAD LOSS CHRVI



ERROR CURVE



A Quality Product of B.M. Water Meters

Belanto MECHANICAL OIL METER DM-01



Strainer must required on inlet of the oil meter.

DN	40	50	65	80	100	125	150	200	250	300	350	400	500
L	X	250	250	200	300	X	430	X	Х	X	X	500	500
L	Х	270	260	270	360	X	X	Х	Х	Х	X	Х	Х
L	Х	310	X	300	483	X	X	X	Х	X	X	X	X
L	X	X	X	413	X	X	X	X	X	X	X	X	Х

^{*}Different Flange Standard for selecting such as: ISO 7005-2: 1998(E) PN10, ASME B16.1-Class125 working forB16.5-Class 150...

TECHNICAL DATA

SIZE	mm	40	50	65	80	100	125	150	200	250	300	350	400	500
R=Q3/Q1		50						80						
Q4	m³/h	31,325	50	78,75	78,75	125	200	312,5	500	787,5	1250	1250	2000	3125
Q3	m³/h	25	40	63	63	100	160	250	400	630	1000	1000	1600	2500
Q2	m³/h	0,8	0,8	1,26	1,26	2	3,2	5	8	12.6	20	20	32	50
Q1	m³/h	0,5	0,5	0,7875	0,7875	1,25	2	3,125	5	7,875	12,5	12,5	20	312,5
Max. Reading	m³			99999	9.999			9999999.9						
Min. Reading	m³			0,0	005			0,005						
Pressure Loss	Р	10	16	10	10	10	16	10	10	10	10	10	10	10
Max. Pressure	MAP							MAP16						
Max. Temperature	°C							T30 or T50						

^{*}Different Length of the Body as option:



M.I.D. CERTIFIED

PETROLEUM METERING EQUIPMENT & ACCESSORIES

Mechanical volumetric flow-meter for private use, with Nutating-disc type chamber for delivers to 120 LPM. It can be installed for gravitational feeding, as well as for hand operated or electric transfer pumps with by-pass arrangement.

PERFORMANCE

Recommended Flow Range: 20 to 120 LPM

Rated Accuracy: ± 2%

Maximum Pressure: 50PSIG / 4.46kg/cm² Meter Digit Indication: 9999 Liters (Resettable)

9999999 Liters (non Resettable)

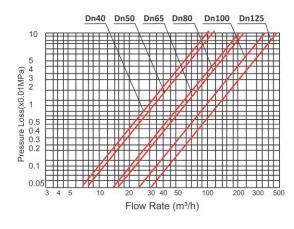
Temperature Range :- 10° C to 50°C

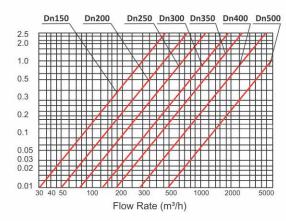
► FLUID COMPATIBILITY

The DM-01 series meters are compatible with the following fluids: Diesel, Gasoline, Kerosene, Methanol



PRESSURE LOSS CURVE



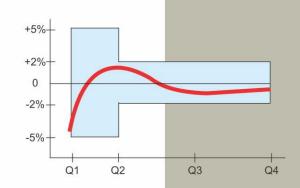


Max. Permission Error:

From Q1 inclusive up to but excluding Q2 is \pm 5%; From Q2 inclusive up to and including Q4 is \pm 2% for T30 and \pm 3% for T50;

INSTALLATION

- The oil meter could be install in any position, for non horizontal positions the flow shall upwards.
- · The meter shall be full of oil while operation.
- Prior to installation of a meter, the pipeline shall be thoroughly flushed.
- Straight pipe section of the same diameter D as the meter, having length of 10D and 5D shall be installed upstream and downstream of the meter respectively.



Belanto ELECTRONIC DIGITAL OVAL GEAR FLOW METER - DM-02





High accuracy, Everlasting, Small Volume Oval Gear flowmeter Module design can be used with output module, sensor and long-distance transfers. It is easy to change the spare parts inside, and easy to maintain it is easy to assembling as its cabinet and compact design Lithium battery can supply 9000 hours Technical performance.

► TECHNICAL PERFORMANCE:

Connecting Style: NPT / BSPP thread

Material: Aluminium weight: about 0.8 kgs.

Flow range: 20mm (3/4") 2.6 - 75.7 LPM

> **25MM** (1") 18.9-190 LPM

40MM (1-1/2") 38.0 - 380 LPM

Accuracy: 20mm ± 0.1%, 25mm ± 1.0%, 40mm ± 0.5%

Repetition: $\pm 0.1\%$

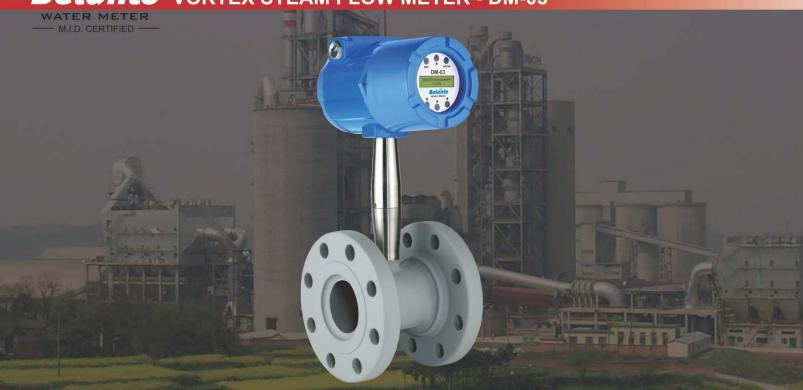
> PRESSURE CLASS:

Max. Pressure: 300 psi working pressure: 2-10 bar

supposed fitter dimension: 55 mesh



Belanto® vortex steam flow meter - DM-03



The DM-03 as a compact flow meter in a flange/sandwhich version is suitable for universal use in measuring liquids, gases and vapors.

The temperature compensation for saturated steam is integrated as standard, thus enabling direct compensation of the density: the mass and energy can also be measured.

SIZE: 15mm - 300mm

2-wire device with integrated pressure and temperature compensation.

Non-wearing, fully welded stainless steel construction with high corrosion,

Pressure and temperature resistance.

Ready to use immediately thanks to plug & play.

Maintenance-free sensor design.

USE FOR:

Chemical, Oil & gas, Power Plants, Iron, Steel and Metal,

Paper, and Pulp, Water & Automotive.

Vapor and saturated steam measurement.

Steam boiler monitoring.

Monitoring of Compressor output.

Measurement of consumption of industrial gases.

SIP and CIP processes in the food, beverage

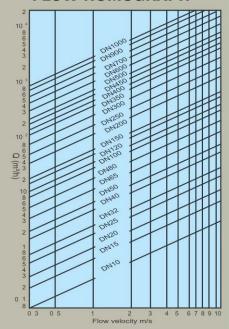
and pharmaceutical industries.

Measurement of consumption and

non-conductive liquids.



FLOW NOMOGRAPH



- Flow meter should be selected with the help of Nomograph
- Recommended Full Scale Velocity
- 2 to 3 m/s for homogeneous media
- 3 to 5 m/s for non viscous media with solid contents

SALIENT FEATURES

- Suitable for conductive liquid
- Absolutely maintenance free.
- Full bore type.
- Local Indication through LCD.
- Simple & cost effective construction.
- Outstanding accuracy.
- Flow measurement in forward & reverse direction on demand.
- Empty pipe indication on demand.
- Material options depending upon process data.
- Universal power supply.
- Communication port on demand.
- GSM/GPRS/ Connecting option available as per requirement.

DESCRIPTION

K-01 are micro-controller full bore electromagnetic flow transmitter specially used for various industrial applications. These flow transmitters accurately measures the flow rate of conductive liquids of slurries in closed pipes. Due to simple & rigid design, the flow transmitter in an obstruction less & maintenance free instrument in place of conventional mechanical flow measuring device. The use of 'Pulsed DC' technology offers highest ability & better measuring accuracy in the form of electrical signal 4-20 mA DC linearly proportional to volumetric flow. The instrument is based on Faraday's law of electro-magnetic field generates a voltage that is proportional to the flow velocity. Corresponding electrical output is provided with respect to measuring voltage.



Flow Meters

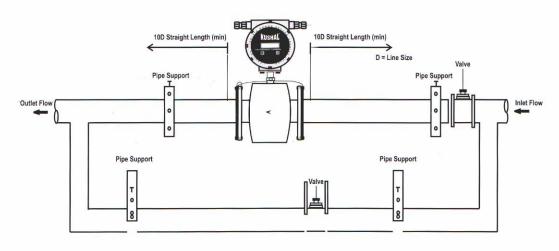
TECHNICAL SPECIFICATIONS

Media	Liquid (Conductive)
Conductivity	$> 5\mu$ s/cm
Viscosity	200 cp max
Line Size	15 NB to 600 NB
Excitation	Pulsed DC Coil
Type of Output	1) 4 to 20 mA DC, Isolated 2) Pulse
Display	16x2 LCD - 4 digit for Flow Rate & 8 digit for Totalised Flow
Calibration	As per requirement (Factory Calibrated)
Accuracy	: +/- 0.5% F.S. (For 20 to 100% Flow)
Linerity	+/- 0.5%
Repeatability	+/- 1%
Process Temp.	70°C Rubber/150°C PTFE
Communication Port	On Demand
Process pressure	10 kg/cm² max
Material of construction	Lining - Rubber / PTFE (Teflon) Flange - CS / MS / SS Electrode - SS 315L / Hastalloy C / Platinum Coil Housing - MS / SS304
Power Supply	1) 24 V DC, External 2) 90-250 V AC, 50 Hz
Power Construction	< 10VA
Isolation	1.4 KV between Input, Output & Power Supply
Response Time	< 100mSec
Temperature Coefficient	+/- 0.1 % per OC
Transmitter Enclosure	Flame proof, IP-65, IIA, IIB CMRI certified
Process Connection	ASA 150 flanged as per table B 16.5
Mounting	: In Line (Horizontal OR Vertical)
Operating Conditions	Temperature 0 to 55°C

DIMENSIONAL DETAILS

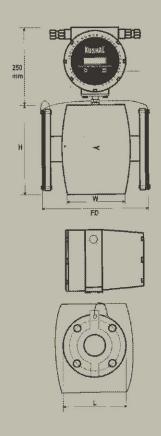
MASTER	L	W	Н	FD	Flow Range (m	
SIZE	(mm)	(mm)	(mm)	(mm)	Velocity=1 m/s)	Velocity=6 m/s)
15 NB	150	100	180	200	0.64	3.82
20 NB	150	100	180	200	1.13	6.78
25 NB	150	100	180	200	1.77	10.6
32 NB	180	100	210	200	2.90	17.4
40 NB	180	100	210	200	4.52	27.14
50 NB	180	100	210	200	7.07	42.41
65 NB	185	100	220	200	11.95	71.68
80 NB	207	100	240	200	18.10	108.87
100 NB	250	150	274	250	28.27	169.65
125 NB	280	175	300	250	44.18	365.07
150 NB	320	175	330	300	63.62	381.7
200 NB	380	175	390	350	113.09	678.58
250 NB	420	244	440	450	176.7	1060.3
300 NB	520	250	520	500	254.46	1526.8
350 NB	520	250	520	550	346.35	2078.2
400 NB	520	250	520	600	452.38	2714.3
450 NB	627	623	632	698	572.54	3435.3
500 NB	679	623	686	768	706.84	4241.2
600 NB	770	818	772	918	1017.84	6107.04

All dimensios are indicative dimensions.



Humidity 5 to 95% on condensing

AVAILABLE IN P.T.F.E. & HARD RUBBER LINING



KUSHAL® TURBINE FLOW METER K-02



SALIENT FEATURES

- 2 Wire system.
- Simple & cost effective construction.
- Provides wide flow ranges.
- Local display as 8xI LCD.
- Outstanding accuracy for clean & pressure.
- Easy maintenance.
- Flame-proof, IP-65, IIA, IIB CMRI certificate housing.

LINE SIZE SELECTOR CHART WITH RESPECT TO FLOW RANGE

MASTER	R Flow Range		Flange Details ANSI 150 (B 16.5)				
SIZE	m/hr	LPM	D	С	R	DBC	d
15 NB	0.4 to 4.0	6.6 to 66.6	88.9	11.2	25.1	60.5	15.8
20 NB	0.8 to 8.0	13.3 to 133.3	98.6	12.7	42.9	69.9	15.8
25 NB	1.6 to 16.0	26.6 to 266.6	108.0	14.2	50.8	79.3	15.8
40 NB	3.4 to 34.0	56.6 to 566.6	127.0	17.5	73.2	98.6	15.8
50 NB	6.8 to 68.0	113.0 to 1133.0	152.4	19.1	90.2	120.7	15.8
80 NB	13.5 to 135.0	225.0 to 2250.0	190.5	23.9	127.0	152.4	19.1
100 NB	27.0 to 270.0	450.0 to 4500.0	228.6	23.9	157.2	190.5	19.1
150 NB	55.0 to 550.0	916.0 to 9166.00	279.4	25.4	215.9	241.3	22.4

D : OD of Flange R : Dia of Raised Face No. of Holes : 4 for $\frac{1}{2}$ " to 3" and 8 for 4" to 6"

C: Thickness of Flange DBC: Dia of Bolt Circle d: Size of Holes

DESCRIPTION

K-02 are 2 wire turbine flow transmitter specially used for various industrial applications. The flowing media engages a vaned rotor causing to rotate at an angular velocity proportional to flow rate. The pick up coil senses the spinning motion of the pipe and converts it into a pulsating electrical signal. Summation of the pulsating electrical signal is directly related to the total flow. The frequency is linearly proportional to flow rate is converted to electrical signal 4-20 mA.

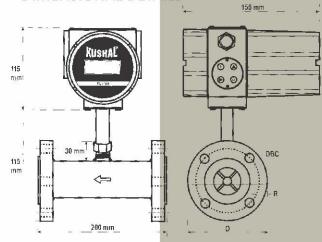
KUSHAL TURBINE FLOW METER K-02

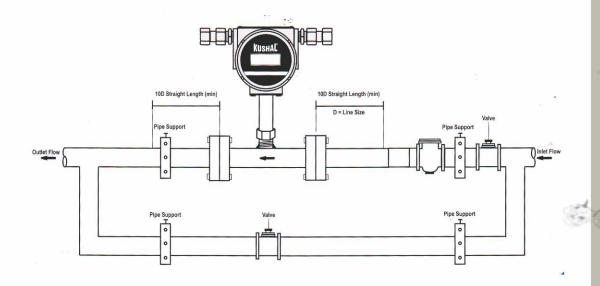
Flow Meters

TECHNICAL SPECIFICATIONS

TECHNICAE SI ECH ICA	TIONS	
Media	Liquid (Clear)	
Viscosity	100 cp max	
Line Size	15 NB to 150 NB	
Display	8xl LCD - 4 digit for Flow Rate & 8 digit for totalised Flow (flow rate & totalised flow will be visible through toggle key	
Transmitter Electronic	1) Integral 2) Remote	
Remote Electronic Cable	25 mtr max	
Type of Output	1) 4 to 20 mA DC 2) Pulse - 30 mA Peak-Peak 3) Open Collector output	
Calibration Range	As per requirement (Factory Calibrated)	
Accuracy	+/- 1% F.S. (For 20 to 100% Flow)	
Linerity	+/- 1%	
Repeatability	+/- 1%	
Process Temp.	0 to 180°C max	
Pressure Drop	Appox 0.28 kg/cm ² to max. flow	
Turn Down Ratio	10:1 to 100:1	
Material of construction	Bearing - Tungsten Carbide Sleeve V Jewel Rotor - SS 410 17.4 PH Shaft - Tungsten Carbide Body Support Flange SS	
Power Supply	1) 24 V DC, External	
Power Consumption	< 1 VA	
Response Time	< 100mSec	
Temperature Coefficient	+/- 0.1 % per OC	
Transmitter Enclosure	Flame proof, IP-65, IIA, IIB CMRI certified	
Process Connection	ANSI 150 flanged as per table B 16.5 BSP (M) Threaded (Upto 50 NB only) SS Tri-Clover (upto 50 NB only)	
Mounting	In Line (Horizontal OR Vertical)	
Operating Conditions	Temperature 0 to 55°C Humidity 5 to 95% on condensing	

DIMENSIONAL DETAILS









INSERTION TYPE ELECTRO MAGNETIC FLOW TRANSMITTER K-04

Flow Meters

TECHNICAL SPECIFICATIONS

Media	Liquid (Clear)
Viscosity	200 cp max
Line Size	100 NB to 2000 NB
Excitation	Pulsed DC coil
Type of Outputs	4 to 20 mA DC
Calibration Range	As per requirements (Factory Calibrated)
Accuracy	: +/-0.5% F.S.
Linearity	+/- 0.5%
Repeatability	+/- 1%
Process Temperature	150°C max
Process Pressure	10 kg/cm² max
Material of construction	Electrode SS316, Retractable Assembly MS /SS, Wetted Parts - SS316
Power Supply	1) 230 V AC, 50hz +/- 10% 2) 24 V DC, External
Power Consumption	< 10 VA
Response Time	< 100m Sec
Temperature Coefficient	Flame proof, IP-65, IIA, IIB CMRI certified
Process Connection	ASA 140, 2" Flanged
Mounting	Insertion Type
Operating Conditions	Temperature 0 to 55°C Humidity 5 to 55% non condensing

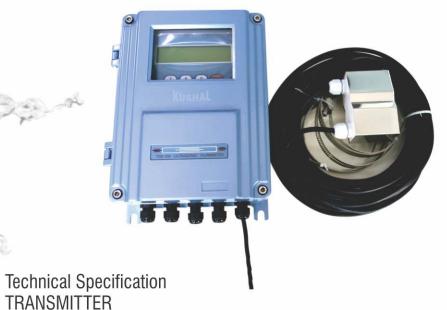
DESCRIPTION

K-04 are Insertion type electromagnetic flow transmitter specially used for various industrial application. Three flow transmitters accurately measures to flow rate of conductive liquides & slurries in closed pipes. Due to simple & rigid design the flow transmitter is an obstruction less & maintenance free instruction in place of conventional mechanical flow measuring device. The use of Pulsed DC technology offers highest ability & better measuring accuracy in the form of electrical signal 4-20 mA DC linearly proportional to volumetric flow. The instrument is based on FRADAY's law of electromagnetic induction. A magnetic field is generate a voltage that is proportional to the velocity. Corresponding electrical output is provided with respect to measuring voltage.

ASSEMBLY VIEW MOUNTING DETAILS DE Skright Legit 1987 Flow Cole | Flow Cole

A Quality Product of B.M. Water Meters





INANSIVIIIIEN	
Parameters	UFM 6710
Power Supply	24 V DC ±20% 110 V AC ±15% 240 V AC ±15%
Velocity	±12 m/sec. Bidirectional
Display	2 lines, 16 characters, LCD with back light, flow rate, velocity, totaliser
Units	User configurable English/Metric
Totaliser	FWD, NET, REV, BATCH (Gallons, ft³, Barrels, lbs, m³)
Output	4-20 mA DC Std.*
Accuracy	±1% of reading @ rate>0.5 m/sec.
Repeatability	0.2% of Span
Dimensions	251x190x96 mm
Weight	<2.5 kg
Security	Keypad lockout, access code enabled

TRANSDUCER

Suited temp Std.		-40°C to 120°C	
Suited	temp High	-40°C to 250°C	
	S Transducer	15-80 mm	
Pipe Size	M Transducer	50-700 mm	
	L Transducer	400-4570 mm	
	S Transducer	45x30x30 mm	
Dimensions	M Transducer	60x45x45 mm	
	L Transducer	80x70x55 mm	
Repeatability	S Transducer	< 0.3 kg	
Dimensions	M Transducer	< 0.5 kg	
Weight	L Transducer	<1.0 kg	
Cable length		6 m Std. can be extended up to 300 m	
Flexible belts		SS belt according to pipe size	
Portable case		NA	

KUSHAL ULTRASONIC WATER METERS K-09

Flow Meters

This is a battery-powered, transit-time Flowmeter utilising advanced digitel processing technology. The meter contains no moving parts and does not require any external power. It also has advantages such as ultra-low power consumption, high accuracy and reliability. The meter is designed for easy installation. It has the same conduit length with industrial mechanical water meter, but can be used just as conveniently as a mechanical water meter.

BENEFITS

- Long term stability and accuracy over a wide range of conditions
- High reliability and minimum maintenance requirement
- Maintenance-free meter where no extended power sources are available
- Communication port permits transfer of data from remote stations to central system via GSM GPRS Modem
- Self-adjusting transducer receiving circuit continually adapts to changing pipe diameter due to scaling corrosion
- Fast response to flow transits
- Available with AMR function
- Battery life 5 years
- Unique housing design rated to IP 68
- On-board self diagnostic function and fault indicator.



Technical Specification: UFM 6740 Ultrasonic Water Meter

Parameters	Specifications
Technical characteristics	Low power consumption, digitel process technology with stable & permanant PiezoSeal sensor
Accuracy	Better than $\pm 1\%$ of reading
Repeatability	Better than 0.2% of span
Display	Total flow, flow rate, velocity, working time & date, signal intensity, quality & better status
Output	RS 485, 4-20 mA, Pulse for total flow (All outputs need external power supply 24 V DC)
Communication interface	GSM, GPRS (Can be battery powered)
Operation	Magnetic key & inside key pad available
Sampling period	0.5 sec.
Environment temp.	Up to 65°C
Water temp.	5 to 70°C
Power supply	3.6 V Lithium battery (Up to 5 years life)
Enclosure class	IP 68
Pipe Size	DN 20-600
Flange connection	DIN, ANSI 150, BS

NOTES

B.M. WATER METERS



B.M. WATER METERS

Manufacturers & Exporters of: Water Meters, Oil Meters, Gas Meters & AMR/Pulse Meters

Village Salem Pur Musalmana, Near Petrol Pump, Jalandhar Punjab Ph: 0181-2602556, 2604556, 2603556

Mob.: 91-98761-10500 Email: info@bmwatermeters.com