

DISTRICT OF KITIMAT

REQUIREMENTS FOR WATER METER INSTALLATIONS

This regulation covers single buildings only and will not apply to such establishments as trailer courts or motels, which will be covered under a separate regulation.

The Municipality supplies water meters to commercial establishments and Section 6433 of the Municipal Code states:

1. Any owner, tenant and occupant of any premises shall give every reasonable facility for the introduction, installation, protection and maintenance of water meters and related equipment required on his premises.
2. Every owner, tenant and occupant of premises where a water meter is required shall provide and maintain an adequate and convenient passageway to such water meter and shall keep such passageway reasonably accessible at all times for the reading, repairing, or removal of such meter.

The following are regulations pursuant to the above:

- (a) The water meter must be installed within the building as close as possible to the service entrance. Meters must be in a usable part of the building and will not be permitted in the crawl spaces or under floors. Meters shall not be installed higher than 4 feet above the floor.
- (b) A shut-off valve must be provided between the meter and the point where the service enters the building.
- (c) All meters 2" and larger shall be equipped with a bypass with a shut-off valve. Both ends of the bypass shall be on the same side of the pressure reducing valve, if one is installed. The bypass valve will be sealed by the District of Kitimat.
- (d) No outlets, except for fire protection, are permitted between the meter and the point where the service enters the building.
- (e) The meter must be installed in a horizontal position, on the low pressure side of the pressure reducing valve.
- (f) The owner shall provide all necessary piping and leave a gap for the meter installation corresponding to the dimensions shown in Schedule "A" attached. (Sketch No. 268).

Trident Style 3 meters are not normally installed in sizes above 3". Contact Municipal Engineer for details of larger meters.

In the case of the domestic meters, 5/8" to 1 1/4", the ends of the pipe on either side of the gap shall be equipped with couplings with standard pipe threads - size as in Column "F".

- (g) The water service shall provide sufficient wall clearances to conform with Schedule "A". The side of the meter opposite to the wall shall be kept free of any obstructions for a distance of 3 feet in front of the whole meter installation. There shall be no overhead construction within 3 feet of the top of the meter.
- (h) There shall be unimpeded walk-in access to the meter with the passageway at least 24" wide.
- (i) The owner shall be responsible for frost damage to the meter and any other damage resulting from his actions, or negligence on his part.

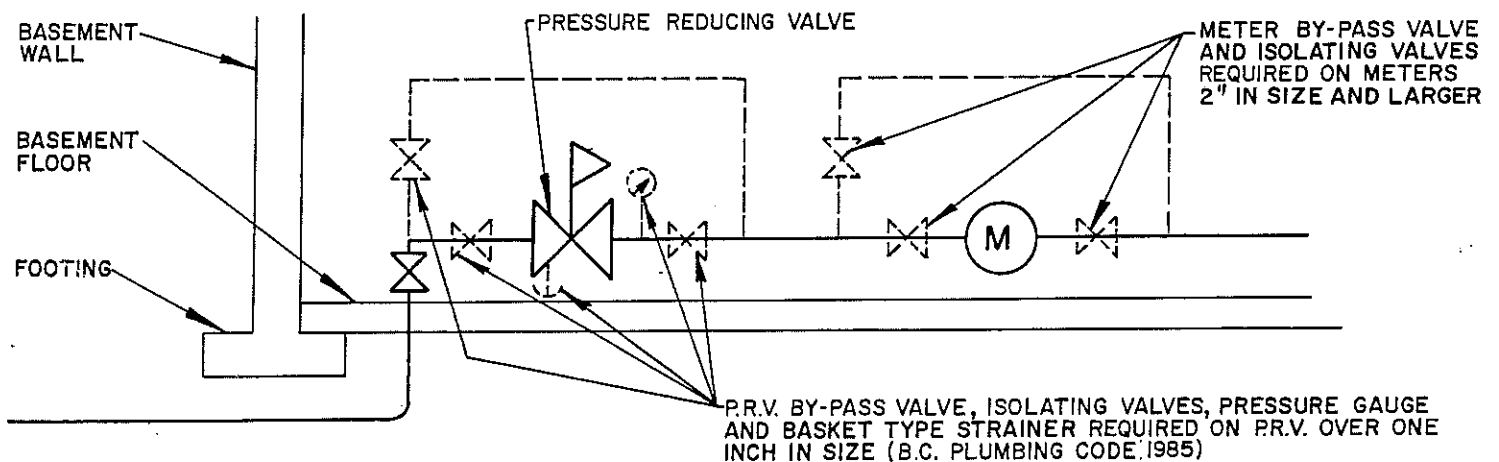
The above regulations must be strictly adhered to unless changes are authorized in writing by the Municipal Engineer.

T. M. Gleig, P. Eng.  
Municipal Engineer

May 15, 1989

Enclosure: Schedule "A"

**SCHEMATIC FOR P.R.V. AND METER INSTALLATIONS**



**SPECIFICATIONS**

**Application**

Cold water measurement of flow in one direction.

**Maximum Operating Pressure**

150 psi (1034 kPa)

**Register**

Direct reading, center sweep, roll-sealed, magnetic drive with low-flow indicator.

**Measuring Chamber**

Rotating disc, synthetic polymer

**OPTIONS**

**Sizes**

1-1/2" Flanged or screw end

2" Flanged or screw end

**Units of Measure**

U. S. Gallons      Cubic Feet  
Imperial Gallons      Cubic Metres

**Register Types**

Direct Reading:

Bronze box and cover (standard)

Remote Reading:

Pulser-RM      TRICON-S  
ARB, ProRead ARB      TRICON-E

**Measuring Chamber**

Synthetic Polymer

**Companion Flanges**

Cast Iron or Bronze

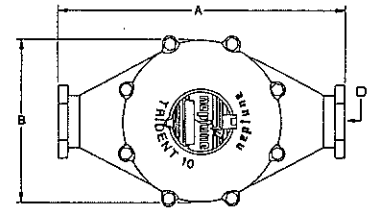
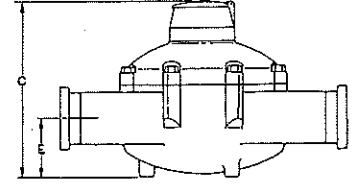
**Operating Characteristics**

Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @ 95% Accuracy
1 1/2"	2 to 100 US gpm 0.46 to 22.73 m³/h	5 to 100 US gpm 1.1 to 22.7 m³/h	3/4 US gpm 0.17 m³/h
2"	2 1/2 to 160 US gpm .57 to 36.36 m³/h	8 to 160 US gpm 1.8 to 36.3 m³/h	1 US gpm 0.23 m³/h

**Registration**

Registration (per sweep hand revolution):		1 1/2"	2"
100	US Gallons	✓	✓
100	Imperial Gallons	✓	✓
10	Cubic Feet	✓	✓
1	Cubic Metre	✓	✓
0.1	Cubic Metre	✓	

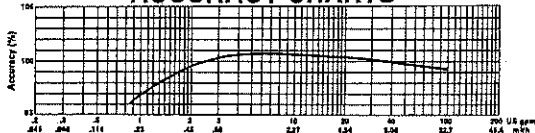
Register Capacity (6-wheel odometer):		1 1/2"	2"
100,000,000	US Gallons	✓	✓
100,000,000	Imperial Gallons	✓	✓
10,000,000	Cubic Feet	✓	✓
1,000,000	Cubic Metres	✓	✓
100,000	Cubic Metres	✓	



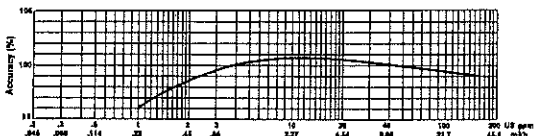
**Dimensions**

Meter Size	A		B		C			D		E	Approx. Weight lbs/kg
	in/mm	in/mm	Std. in/mm	ARB in/mm	Pul in/mm	Threads per inch	Thread Type	in/mm			
1 1/2" Screw End	12 <sup>5/8</sup> 321	8 <sup>1/16</sup> 205	8 <sup>1/8</sup> 206	8 <sup>9/16</sup> 217	9 <sup>5/16</sup> 252	11 <sup>1/2</sup>	1 1/2" NPT	2 <sup>9/16</sup> 65	31 14.1		
1 1/2" Flanged End	13 330	8 <sup>1/16</sup> 205	8 <sup>1/8</sup> 206	8 <sup>9/16</sup> 217	9 <sup>5/16</sup> 252	—	—	2 <sup>9/16</sup> 65	35 15.9		
2" Screw End	15 <sup>1/4</sup> 387	9 <sup>7/16</sup> 240	9 <sup>5/16</sup> 237	9 <sup>3/4</sup> 248	11 <sup>1/8</sup> 283	11 <sup>1/2</sup>	2" NPT	3 <sup>1/8</sup> 79	40 18.1		
2" Flanged End	17 432	9 <sup>7/16</sup> 240	9 <sup>5/16</sup> 237	9 <sup>3/4</sup> 248	11 <sup>1/8</sup> 283	—	—	3 <sup>1/8</sup> 79	44 20.0		

**ACCURACY CHARTS**

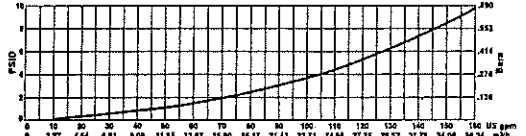
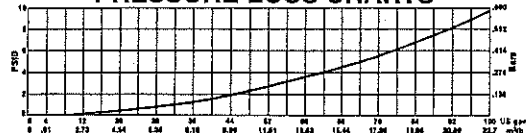


1 1/2"



2"

**PRESSURE LOSS CHARTS**



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• **WEST:** 25283 Cabot Road, Suite 221  
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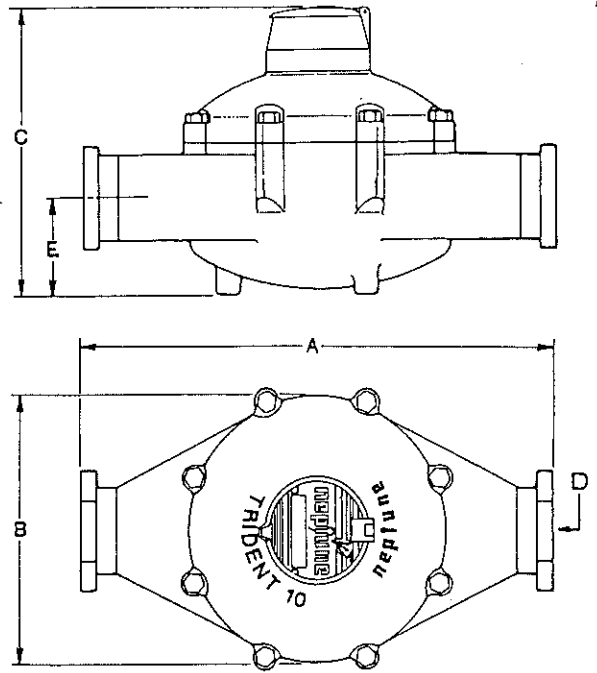
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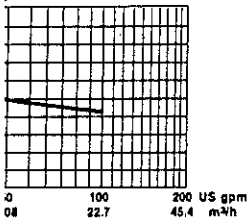
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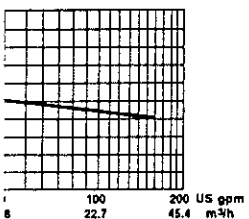
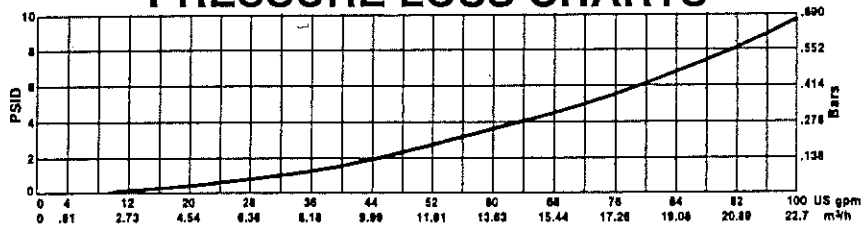
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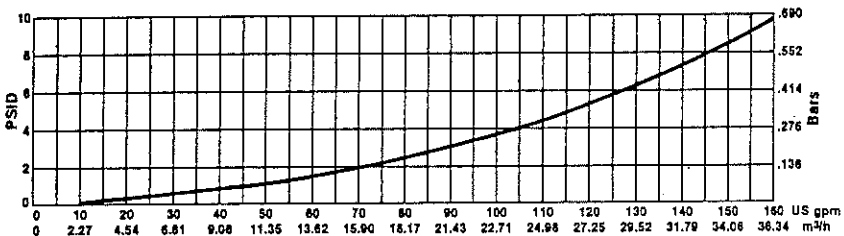
## PRESSURE LOSS CHARTS



1 1/2"



2"



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