

TECHNICAL SPECIFICATIONS FOR ONE HALF INCH WATER METERS

SPECIFICATIONS									
Designed for the measurement of cold potable water									
1. Standard	ISO 4064:1993 or latest								
2. Nominal Diameter	13mm or 15mm								
3. Meter Type	Multi-jet								
4. Metrological Class	"B" or its equivalent to latest edition								
5. Meter Body	<p>Copper alloy containing not less than 75% copper or a copper alloy containing not less than 57% copper but with anti-corrosion treatment.</p> <ul style="list-style-type: none"> - Testing result of the copper content from any government authorized material testing laboratory like DOST, MIRDC or any authorized government agency or from any DOST-accredited laboratory shall be submitted to ZCWD during Post-Qualification 								
6. Register	Hermetically vacuum sealed or Hermetically sealed register								
	High impact lens and abrasion resistant								
	With magnetic ring/shield								
	Meter Register in Cubic Meters								
	Cubic Meters in registration – minimum of 4 digits								
Straight Reading									
7. Working Condition	Maximum Working Pressure: 10 bars or higher								
	Maximum Working/Liquid Temperature: 30°C or Higher								
8. Metrological Characteristics (Minimum Performance)	Maximum flowrate (Q_{max}/Q_4) = 2.0m ³ /hr. or higher; Allowance error in accuracy $\pm 2\%$								
	Nominal flowrate (Q_n/Q_3) = 1.0m ³ /hr. or higher; Allowance error in accuracy $\pm 2\%$								
	Transitional flowrate (Q_t/Q_2) = 120 l/hr. or lower ; Allowance error in accuracy $\pm 2\%$								
	Minimum flowrate(Q_{min}/Q_1) = 30 l/hr. or lower ; Allowance error in accuracy $\pm 5\%$								
9. Meter and corresponding Tailpiece length ranges	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="padding: 5px;">Water Meter Length</th> <th style="padding: 5px;">Length per Tail Piece</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">115mm</td> <td style="text-align: center; padding: 5px;">100mm</td> </tr> <tr> <td style="text-align: center; padding: 5px;">165mm</td> <td style="text-align: center; padding: 5px;">75mm</td> </tr> <tr> <td style="text-align: center; padding: 5px;">190mm</td> <td style="text-align: center; padding: 5px;">63mm</td> </tr> </tbody> </table>	Water Meter Length	Length per Tail Piece	115mm	100mm	165mm	75mm	190mm	63mm
	Water Meter Length	Length per Tail Piece							
	115mm	100mm							
	165mm	75mm							
190mm	63mm								
10. Meter Seal									
10. Meter Seal	Meter body should be properly sealed								
11. Strainer	With plastic strainer installed								
12. Serial Numbering	Meter numbers should be in series, clearly and permanently engraved								
13. Painting	All water meters shall be painted with acrylic Tahiti blue (or closer shade acceptable to the end user) automotive paint with properly primed surface of compatible paint primer.								
14. Meter Body Markings	Meter Size								
	Flow Direction (arrow)								
15. Packaging	All water meters shall have plastic end cap installed on both meter body thread ends								
	Each water meter shall be packed individually in a small box and must contain 2 tailpieces and rubber gaskets								
	The water meters shall be packed by 10's or 20's per batch and shall indicate the meter serial numbers on the box.								
16. Other requirements	Five (5) unit samples complete with tail pieces and gaskets with the testing result from Manila Water to be submitted by the lowest bidder during post-qualification which shall form part of the delivery. <i>(Applicable for brand and model of water meters that have not undergone testing from Manila Water and its results have not been submitted to this Office.)</i>								
	One (1) unit cut away sample to be submitted by the lowest bidder during post-qualification.								

	<i>(Applicable for brand and model of water meters that have not been submitted to this Office.)</i>
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