

S2000 Commercial Single-Jet Cold Water Meters

Size 1 1/2", 2", 3", 4" and 6"



Performance:

Size	Inches	1 1/2"	2"	3"	4"	6"
	mm	40	50	80	100	150
Performance						
>95% Accuracy	GPM	.30	.30	.50	1.0	1.0
	m3/hr	.01	.01	.1	.2	.2
98.5 - 101.5% Accuracy	GPM	1-90	1-180	2-400	3-530	3-530
	m3/hr	.2-20	.2-40	.5-91	.7-120	1.4-120
Continuous flow	GPM	45	90	200	265	265
	m3/hr	10.2	20	45	60	60
Register Resolution						
Sweep Hand	USG	100	100	100	100	110
	cu ft	10	10	10	10	10
Registers	m3	10	1	1	1	1
	USG	100	100	1000	1000	1000
Capacity of Register (millions)	cu ft	10	10	100	100	100
	m3	1	1	10	10	10

Register Type Permanently sealed direct read with optional pulse or encoded output

Materials

Main Case	Bronze
Top Cover Plate	Bronze
Case Bolts	Stainless Steel
O-Ring	Nitrile Rubber
Calibration Vane	Stainless Steel
Rotor Spindle	Stainless Steel
Rotor	Thermoplastic
Lower Thrust Pad	Tungsten Carbide
Upper Thrust Pad	Tungsten Carbide
Rotor Tip	Tungsten Carbide
Diaphragm Spindle	Tungsten Carbide

Operation

The S2000 Commercial Single-jet is designed for installations where large variations in flow can be expected. Water flows into the meter, passing through an inlet tube which directs it on to the faces of the offset rotor housed within the body, which acts as the measuring chamber. The rotor revolutions are proportional to the quantity of water passing through the meter.

Installation

The meter should be installed according to best practices in the AWWA M6 manual and American Water Works Association Standard C712.

Application

The meter is used with Potable Cold Water up to 120°F (50°C) and working pressures up to 150 psi. The meter will perform with accurate registration of 100% ± 2% within its normal specified flow range. Accuracy tests are made before shipment. No adjustments need to be made before installation.

Construction

Available body materials include regular waterworks bronze and low lead bronze. The top plate bolts to the body with stainless steel bolts. A calibration vane allows adjustment to correct accuracy performance during AWWA recommended periodic tests. The precision engineered rotor sets into the body and is secured in place with the top plate.



Magnetic Drive

The magnetic drive design facilitates coupling between the measuring chamber and the external register. The coupling is absolute at all rated flows.

Register

The register is contained within a 90% copper or stainless steel, seamless can which is oven cured to eliminate condensation. The 1/4" true tempered glass lens is secured in an "L" shaped gasket, then roll sealed. The applicable size, model, registration, and date code are printed on the calibrated dial face. S2000 meters are available with an Absolute Encoder register option. Refer to document ENC-UG-200 for absolute encoder register warranty information.

Absolute Encoder



Electronic Reading Resolution:
100 USG
for 1 1/2", 2", 3", 4", 6"



Electronic Reading Resolution:
10 CF
for 1 1/2", 2", 3", 4", 6"

Connections

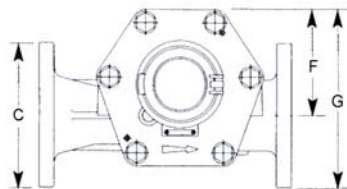
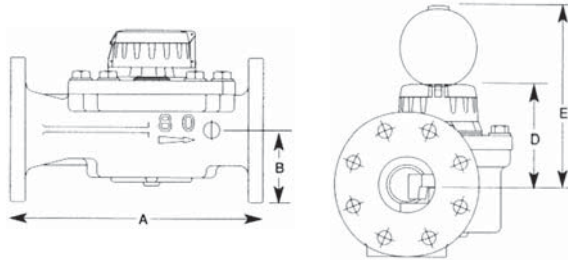
All S2000 meters are available with round flanged-end connections that conform to ANSI B16.1 cast-iron pipe flange, Class 125. 1 1/2", 2" and 3" sizes are provided with 4-bolt hole flanged ends; 4" and 6" S2000 is provided with 8-bolt hole flanged ends. 1 1/2" and 2" S2000 meters are also available with 2-bolt oval flanged ends. Both bronze and cast iron companion flanges are available. The companion flanges are faced, drilled and tapped with ANSI B2.1 internal taper pipe thread and conform to ANSI B16.1 cast iron pipe flange, Class 125.

Maintenance

The measuring chamber assembly can be removed, repaired or replaced. Prestested measuring chamber assemblies are available for exchange or purchase, and spare parts are available from our central warehouse or designated regional locations. Elster AMCO Water staffs and operates a repair facility at its U.S. manufacturing plant in Ocala, FL.

Dimensions and Net Weight

Meter	Dimensions										Weight					
	A	B	C	D	E	F	G									
Size	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(lbs.)	(kg.)
1 1/2"	13	330.2	2 7/8	71.1	6 1/2	165.1	5	127	9 3/8	236.2	3 7/8	99	7 1/4	182.9	24	10.9
2	17	431.8	2 7/8	71.1	6 1/2	165.1	5	127	9 3/8	236.2	3 7/8	99	7 1/4	182.9	32	14.5
3	17	431.8	3 7/8	96.5	7 7/8	200.7	5 1/2	139.7	9 3/4	246.4	5 7/8	150	9 7/8	251.5	57	25.6
4	20	508	4 3/8	111.8	9	228.6	5 7/8	149.9	10 1/4	259	7 7/8	200.7	12 3/8	315	95	43
6	24	609.6	5 3/8	134.6	11	279.4	5 7/8	149.9	10 1/4	259	7 7/8	200.7	12 3/8	315	128	58



Elster AMCO Water, LLC
1100 SW 38th Ave.
Ocala, FL 34474
United States
T +1 800 874 0890 (US)

Elster Metering
1100 Walker's Line, Suite 101
Burlington, ON L7N 2G3
T +1 866 703 7581 (Canada)

watermeters@us.elster.com
www.elsteramcowater.com

Elster AMCO Water, Inc
Carretera 112 KM 2.3
Isabella, PR 00662
T +1 787 872 2006 (Caribbean)

Elster Medidores
Calle Norte 35 No. 983-13
Col. Industrial Vellejo
Del. Gustavo A. Madero
C P 07720
T +525 55 368 4757



www.elsteramcowater.com

© 2011 by Elster. All rights reserved.

The company's policy is one of continuous product improvement and the right is reserved to modify the specifications contained herein without notice. These products have been manufactured with current technology and in accordance with applicable AWWA Standards.