CLARK

MJP-SDC Plastic Totalizing Cold Water Meter

5/8" x 3/4", 1" & 1-1/2" Multi-Jet Type, Pulse/Reed Switch Output

DESCRIPTION

Model MJP-SDC meters are multi-jet, dry type, cold water totalizing water meters. They are an ideal choice for a range of water treatment and water monitoring applications.

A pulse/reed switch output of one pulse per 0.1, 1.0, 10 or 100 gallons is available.

MJP-SDC meters are accurate and reliable. They are produced in an ISO9001 certified production facility. The cold water meters are certified by NSF to meet ANSI/NSF 61 for materials safety and ANSI/NSF 372 for lead free compliance and conform with lead free plumbing as defined by California, Vermont, Maryland and Louisiana state laws and the U.S Safe Drinking Water Act.



SPECIFICATIONS

GENERAL

Measuring Principle: Multi-Jet

Meter Type: Dry, magnetic coupling between rotor

and register movement

Meter Sizes: 5/8" x 3/4", 1", 1-1/2"

Max Operating Temperature: 86°F (30°C)

Max Operating Pressure: 150 PSI

Materials:

Main Casing: GV-5 FWA Black 9225

Couplings/Tailpieces: GV-5 FWA Black 9225

Registration Accuracy, with water <80°F (27°C):

Normal Test Flow Range (Table 1): The meter will register 98.5% to 101.5% of the water that

passes through it.

At Minimum Test Flow (Table 1): The meter will register 97% to 103% of the water that passes through it.

Installation: Horizontal orientation recommended Inlet Strainer: Internal and can be cleaned without

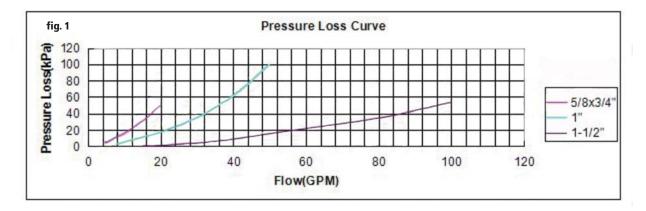
Pressure Drop: <15 PSI, see curve (fig. 1)

breaking security seal

Casing Spud Connections: External straight threads according to ANSI/ASME B1.20.1.See Dimensions, Connections and Weights (Table 2) for details. Accessories: Meter coupling (tailpiece) sets that include 2 couplings and 2 gaskets, are supplied with each meter

	Table 1- Operating Characteristics							
Model	Size	Safe Max. Flow GPM	Recommended Maximum Continuous Flow Rate GPM	Min. Test Flow GPM	Normal Test Flow Limits GPM	Min. Reading Gallons	Max.	Gallons/Pulse Output Option
MJP-SDC	5/8" x 3/4"	20	10	0.25	1-20	0.005	9999999.99	0.1, 1, 10, 100
MJP-SDC	1"	50	25	0.75	3-50	0.005	9999999.99	0.1, 1, 10, 100
MJP-SDC	1-1/2"	100	50	1.5	5-100	0.05	99999999.9	1, 10, 100

PRESSURE LOSS CURVE



OPTIONAL PULSE/REED SWITCH OUTPUT:

The pulse emitter consists of a plastic housing with a reed switch that is closed when a magnet mounted on one of the meters register totalizers comes into its activation proximity. A 1.5 meter (59") length of 2-conductor wire 3.5 mm inch diameter is standard. One conductor has red insulation and one has black.

Optionally a dual reed switch output with 3-conductor cable is available. The two reed switches are symetrically placed and both are magnetically activated in one register/dial turn. So, two switch activations represents one pulse. As, in normal operation, it is not possible for both reed switches to be activated at the same time, a security feature of a microprocessor based system is to periodically sample both switches, and, if both are closed (high level signal), this would indicate external magnetic disturbance.

Max Voltage: 24V AC/DC Max Current: 0.01 A

Gallons per pulse: 0.1,1, 10 (standard), 100

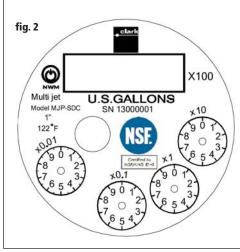
Capacitance: 0.2 pF

Output Bounce Time: 0.01 second

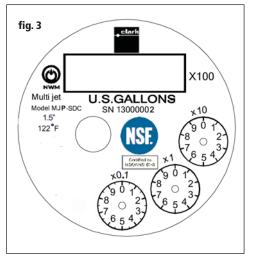


MJ-SDC with Reed Switch Output

DIALS

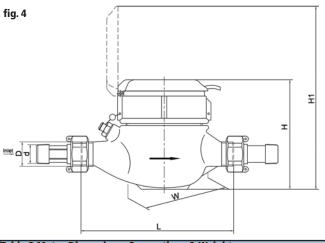


3/4"& 1" Size Meters: 5 Registers, 4 Dials



1-1/2" Size Meters: 6 Registers, 3 Dials

DIMENSIONS, CONNECTIONS & WEIGHT



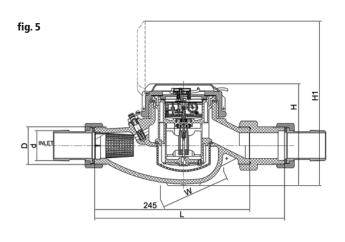
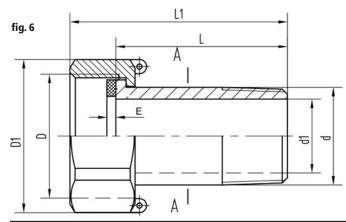


Table 2 Meter Dimensions, Connections & Weight									
Model	fig.	Size	L Length Inches (mm)	W Width Inches (mm)	H Height Inches (mm)	H ₁ Height Inches (mm)	D Spud Threads (BSPP)		Weight lbs (kgs)
MJP-SDC- 5/8x3/4	4	5/8" x 3/4"	7-1/2 (190)	3.98 (101)	4.72 (120)	7.87 (200)	1"	3/4"	1.58 (0.717)
MJP-SDC-1	4	1"	10-1/4 (260)	4.09 (104)	5.12 (130)	8.27 (210)	1-1/4"	1″	1.85 (0.84)
MJP-SDC-1.5	5	1.5"	11-7/8 (300)	5.31 (135)	6.38 (162	10.30 (261)	2"	1-1/2"	3.17 (1.44)





Meter Coupling/Tailpiece Set (2 x Coupling, Nut & Gasket)

Table 3 Coupling Set Dimensions							
Dimensions	Description	5/8 x3/4" Meter	1" Meter	1 1/2" Meter			
d1	Hole Diameter	20 mm	25 mm	40 mm			
L	Coupling Length	50 mm	58 mm	62 mm			
L1	Length	62 mm	73 mm	77 mm			
d	Coupling Thread	3/4-14 NPT	1-11.5 NPT	1 1/2-11.5 NPT			
D	Nut Thread	1 " BSPP	1 1/4 " BSPP	2" BSPP			
D1	Dimension	43 mm	51	70			
E	Gasket Thickness	3 mm		3.5			

ORDERING INFORMATION

BUILD PART NUMBER FROM BELOW CHART: A-BC EXAMPLE: MJP-SDC-1X1

A *Model	B Output	C **Pulse Frequency				
MJP-SDC-5/8x3/4 MJP-SDC-1 MJP-SDC-1.5	-= None X= Single Pulse Output D= Dual Pulse Output	0.01= Pulse every .1 gal (3/4" & 1" only) 0.1= Pulse every 1 gal 1= Pulse every 10 gal (standard) 10= Pulse every 100 gal				

^{*} Models include a set of pipe couplings

** Units are standardly available with a single pulse output a every 10 gallons. Consult factory for other pulse output values, minimum order quantities may apply.