

CLARK**MJP-SDC Plastic Totalizing Cold Water Meter***5/8" x 3/4" 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 Size: 5/8" x 3/4"

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.



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

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

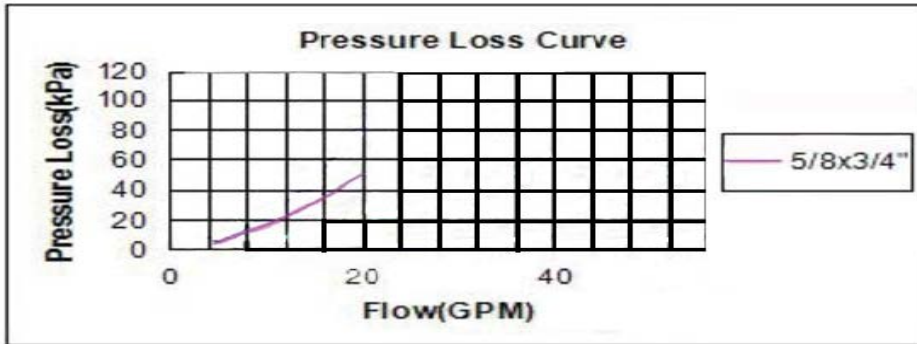
Accessories: Meter coupling (tailpiece) sets that include 2 couplings and 2 gaskets, are supplied with each meter

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. Reading Gallons	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

PRESSURE LOSS CURVE

fig. 1



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 symmetrically 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.

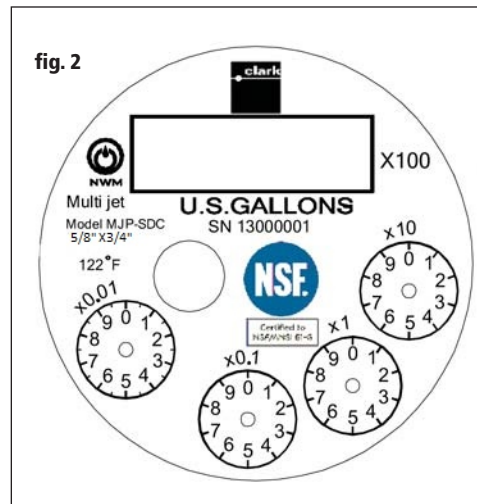
- Max Voltage: 24V AC/DC
- Max Current: 0.01 A
- Gallons per pulse: 0.1, 1, 10 (standard), 100
- Capacitance: 0.2 pF
- Output Bounce Time: 0.01 second



MJ-SDC with Reed Switch Output

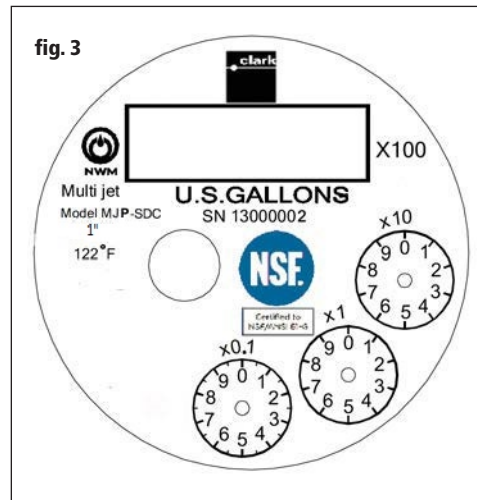
DIALS

fig. 2



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

fig. 3



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

DIMENSIONS, CONNECTIONS & WEIGHT

fig. 4

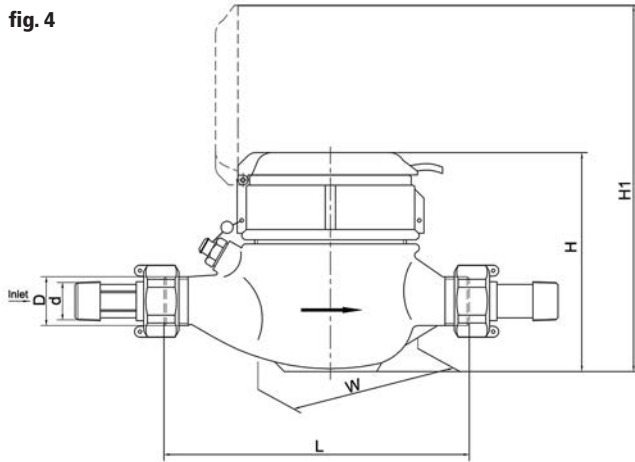


fig. 5

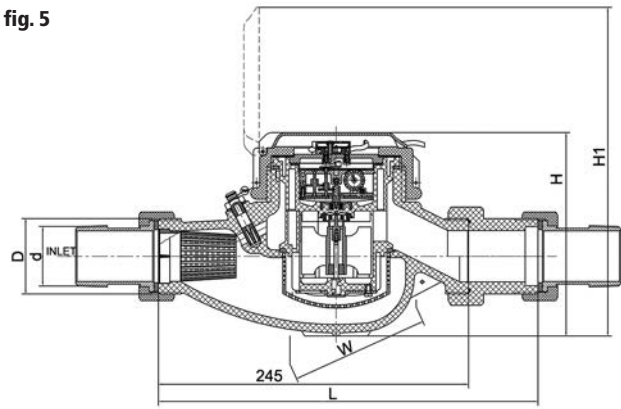
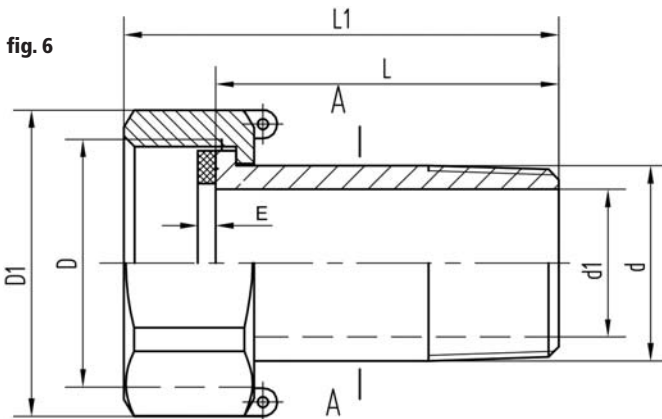


Table 2 Meter Dimensions, Connections & Weight

Model	fig.	Size	L Length Inches (mm)	W Width Inches (mm)	H Height Inches (mm)	H ₁ Height Inches (mm)	D Spud Threads (BSPP)	d NPT	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)

fig. 6



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

Table 3 Coupling Set Dimensions

Dimensions	Description	5/8 x 3/4" Meter
d1	Hole Diameter	20 mm
L	Coupling Length	50 mm
L1	Length	62 mm
d	Coupling Thread	3/4-14 NPT
D	Nut Thread	1" BSPP
D1	Dimension	43 mm
E	Gasket Thicknes	3 mm

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	-= 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.