

# FIRE SERVICE COMPOUND METERS & STRAINERS

4," 6," 8"



## MAXIMUM PROTECTION. MAXIMUM REVENUE. AROUND THE CLOCK SERVICE.

Master Meter's Fire Service Compounds (FSC) are FM approved for fire service use and built with superior internal protection to ensure maximum flow in the face of a fire emergency. Our FSC meters are specifically designed to monitor single water lines providing both domestic and fire service use, so they are optimized for high flow variance. A patented valve design provides a narrow crossover range and high sustained accuracy when operating in this range. Utilities can confidently, maximize revenue capture on these difficult to meter lines without sacrificing emergency performance.

## READY WHEN CALLED UPON. ALWAYS ON DUTY.

With our FSC, some AWWA recommended annual maintenance can be completed without compromising service uptime for domestic use drawn from the same line. Our exclusive, externally loaded spring valve allows for hassle-free visual inspection and any necessary manual adjustments without disruption of water service. To minimize the time required for service, our strainer assemblies feature large, o-ring sealed drains for easy flushing of debris without removing the top plate. When needed, flow measurement elements can be quickly removed for service without pulling the entire meter assembly from the line.

Our FSC fits comfortably within the installation space of most current fire service applications. Install Master Meter's FSC to capture more revenue and better service clients with reduced maintenance downtime.

## FEATURES & BENEFITS:

- \* FM Approved for Fire Service
- \* Superior Accuracy at Crossover
- \* Sustained, High Accuracy Across Broad Flow Range
- \* Meets or Exceeds the Latest Revision of ANSI/AWWA C-703 Standard
- \* Designed for Efficient Maintenance to Minimize Service Downtime
- \* Exceptional Low Flow Measurement Performance
- \* Flexible Installation Options to Meet Space Challenges

## WITH OPTIONAL 3G INTEGRATED REGISTER:

- \* Revenue Impact Alerts™ - Leak, Tamper, Theft (*backflow*), and Zero Consumption
- \* Rich 4,000 Read Data Logging - Scalable, Customer Defined Resolution
- \* Deploy District Management Areas / Zones (DMA/DMZ) Advanced Infrastructure Leak Management Programs

## REGISTER OPTIONS:

- \* AccuLinx™ 8-wheel Absolute Encoder (also available with integrated DIALOG 3G)
- \* DIALOG 3G LCD Interpreter™
- \* DIALOG 2G® Pit
- \* DIALOG 2G Indoor
- \* Electrical Output Register
- \* Direct Read

## READ:

- \* FixedLinx™ Meter Data Management AMI Solution - Utilizes the 3G technology backbone with simultaneous Mobile AMR and Fixed Network AMI data collection capabilities.
- \* Mobile Drive-By AMR - 3G
- \* Proximity/Wand Read - 2G
- \* Direct Read/Manual

## TECHNICAL SPECIFICATIONS:

**AWWA Standard** - The Master Meter Fire Service Compound meets the requirements of AWWA C703-96 (R04).

**Description** - A single body housing a turbine meter and check valve incorporated into an assembly featuring an FM approved fire service strainer and low flow bypass. A multi-jet meter on the bypass line provides accurate measurement of low flows.

**Fire Service Strainer** - Epoxy-coated fabricated steel body houses a 304 stainless steel screen. Strainer incorporates a bolted, o-ring sealed drain plug, for easy flushing of debris without lid removal, and easy resealing. After removal of the lid bolts, strainer screen and screen support are removable to simplify the disposal of accumulated debris.

**Turbine Meter** - An epoxy-coated, ductile iron body houses

both the turbine chamber and automatic check valve. The meter's bronze upper body and measuring assembly allow for measuring unit removal without pulling the meter from the line. A combination fiberglass-reinforced nylon fixed flow straightener and additional flow straightener incorporated into the chamber housing optimize flows to maximize accuracy, particularly at crossover.

**Automatic Check Valve** - Incorporated into a single housing with the meter, the externally actuated, loaded spring valve offers the convenience of check valve inspection and manipulation without any disruption of water service. Our unique spring-loaded, externally mounted valve is covered to eliminate accidental damage. The valve features bronze clapper, ring, arm and bushings, with rubber seat and stainless steel shaft. A test port is provided in the valve cover.

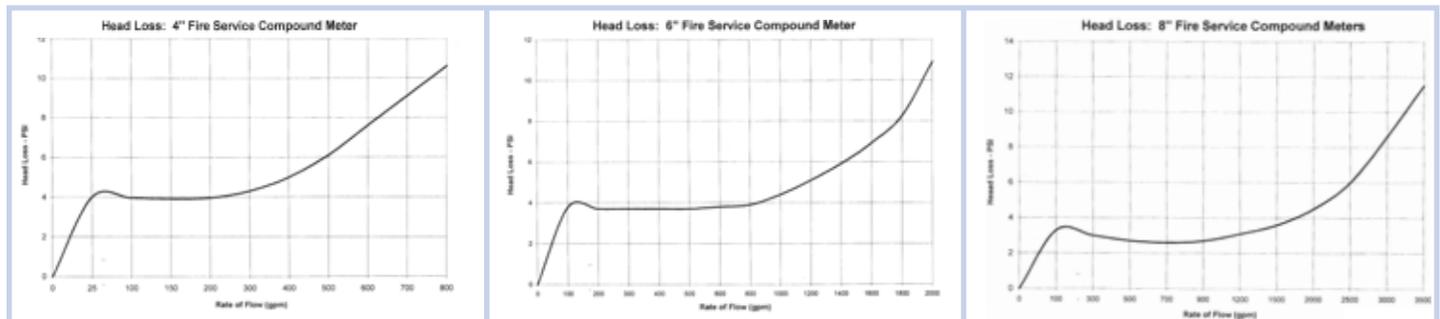
**Bypass Meter** - An appropriately sized bronze case

multi-jet meter provides low-flow measurement to the fire service assembly. The measuring chamber housing and measurement element are constructed of a rugged polymer. The chamber housing is constructed in two parts, allowing easy access to the impeller. Isolation valves on the bypass allow isolation of the multi-jet meter for maintenance.

**Registers** - Standard Direct Read, DIALOG 2G and DIALOG 3G AMR System registers are available. Six wheel odometers are standard. Together, an integrated and migratable technology environment is attained; direct, proximity (touch), mobile AMR, and Fixed Network AMI.

**Warranty** - The Master Meter Fire Service Assembly is warranted for one year as specified in the published Master Meter Utility Products Warranty.

METER OPERATING CHARACTERISTICS/DIMENSIONS	4"	6"	8"
<b>Normal Operating Range (gpm)</b>	3 to 800	5 to 2000	8 to 3500
<b>Minimum Test Flow Rate (gpm)</b>	3/4	1-1/2	2
<b>Short Term Deluge Maximum Flow (gpm)</b>	1400	2600	4400
<b>Changeover Flow Range (gpm)</b>	15 to 30	15 to 45	30 to 70
<b>Maximum Working Pressure (psi)</b>	175	175	175
<b>Maximum Working Temperature (°F)</b>	120°	120°	120°
<b>Accuracy: Normal Operating Range</b>	±1-1/2%	±1-1/2%	±1-1/2%
<b>Low Flow</b>	97%	97%	97%
<b>Changeover</b>	90%	90%	90%
<b>Length</b>	33"	45"	53"
<b>Height</b>	22.7"	28.6"	31.0"
<b>Height - Bottom to Center Line</b>	11.5"	14.0"	15.7"
<b>Width - Total Assembly</b>	21.7"	27.9"	35.3"
<b>Width - Pipe Center Line to Bypass</b>	13.4"	18.1"	22.2"
<b>Packed To Carton</b>	1	1	1
<b>Weight (pounds)</b>	271	545	848



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