

ZENNER California Fire Hydrant Meters 3" Model FHC

INTRODUCTION: ZENNER California Hydrant Meters are designed to measure a wide variety of cold potable water flows from fire hydrants where flows are in one direction. These Meters are light weight portable units designed for temporary installations.

OPERATION: Water flows through the turbine section causing the rotor to turn proportionately to the quantity of water flowing through the meter. A drive magnet transmits the motion of the rotor to a driven magnet located within the hermetically sealed register. The magnet is connected to a gear train which translates the rotations into volume totalization displayed on the register dial face. The only moving parts in the meter are the rotor assembly and vertical shaft .

CONSTRUCTION: ZENNER California Hydrant Meters consist of several basic components: light weight aluminum main case, turbine type measuring element assembly, sealed register, aluminum cover plate, stainless steel hardware, brass lid assembly, aluminum or brass swivel and nipple, aluminum or stainless steel handles, etc. The measuring element assembly includes the rotor assembly, vertical shaft and a calibration vane which eliminates the need for calibration change gears.

RESTRICTOR PLATE: The standard ZENNER California Hydrant Meter (FHC25) has a permanent flow restrictor machined into the main case. This limits the maximum flow of water through the meter and provides protection for the measuring element from being overrun when the meter discharges. The restrictor plate may be enlarged for specific utility requirements.

MAINTENANCE: ZENNER California Hydrant Meters are engineered and manufactured to provide long-term service and operate virtually maintenance free. If maintenance is necessary the measuring element can be removed from the main case.

CONFORMANCE: ZENNER California Hydrant Meters are tested and comply with AWWA C701 Class II performance standards.

STRAINERS: ZENNER California Hydrant Meters come with an inlet strainer built into the Swivel.

CONNECTIONS: ZENNER California Hydrant Meters are typically configured with bronze connections, although aluminum connections are available.

OPTIONS: Gate Valves, check valves, reduced pressure Backflow Preventers, locking devices, special order connections, stainless steel double handles, pistol grip handles, "add-on" restrictor plates and stands.



FHC25S**



FHC25P**

ZENNER USA

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MODEL		FHC
SIZE		3"
Flow Rate Maximum Intermittent	USGPM	600
Maximum Continuous	USGPM	500
Optimum Operating Flow Range	USGPM	3 - 350
Low Flow rate	USGPM	2-1/2
Maximum Working Pressure	P.S.I.	150
Maximum Temperature	Deg. F	140
Length	Inches	15
Length (with 2-1/2" Gate Valve)	Inches	20
Weight	Pounds	20
Weight (with 2-1/2" Gate Valve)	Pounds	24



FHC20S-W975**
Shown with optional

FHC Housing Configurations

- 1) FHC20: 2-1/2" FIPT In x 2" FIPT Out, Open Ports (used for both backflow and higher flow applications)
- 2) FHC25: 2-1/2" FIPT In x 2-1/2" FIPT Out, Restrictor on Output Port

FHC Handle Options:

- 1) FHC20S or FHC25S: Double Handle, Strap, Stainless Steel
- 2) FHC20P or FHC25P: Single Handle, Padlock
- 3) FHC20B or FHC25B: Single Handle, Barrel Lock
- 4) FHC20N or FHC25N: No Handles



FHC25S-GV**
Shown with optional Gate Valve



FHC25S-CV**
Shown with optional NC2525B-CV Check Valve Assembly



FHC25S**



FHC25B**

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