

## ZENNER Fire Hydrant Meters

3" Models FHZ20, FHZ25 and FHZ30

**INTRODUCTION:** ZENNER 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 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 Hydrant Meter (FHZ25) 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 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 Hydrant Meters are tested and comply with AWWA C701 Class II performance standards.

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

**CONNECTIONS:** ZENNER 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.



**FHZ25S\*\***  
Stainless Steel Double  
Strap Handle



**FHZ25S\*\*-GV**  
Configured with 2-1/2" Gate Valve

### ZENNER USA

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www.zennerusa.com

MODEL		FHZ25#**	FHZ25#**-GV	FHZ25#**-CV	FHZ30#**	FHZ30#**-GV	FHZ30#**-CV
Flow Rate Maximum Intermittent	USGPM	600	600	400	600	600	500
Maximum Continuous	USGPM	500	500	300	500	500	400
Optimum Operating Flow Range	USGPM	3 - 350	3 - 350	3 - 250	3 - 350	3 - 350	3 - 350
Low Flow rate	USGPM	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2	2-1/2
Maximum Working Pressure	P.S.I.	175	175	175	175	175	175
Maximum Temperature	Deg. F	140	140	140	140	140	140
Length	Inches	15	20	16	15	21	17
Weight	Pounds	17	23	18	17	25	20

**FHZ Housing Configurations:**

- FHZ20: 2-1/2" FIPT Inlet x 2" FIPT Outlet (For applications with attached RPZ Backflow device)
- FHZ25: 2-1/2" FIPT Inlet x 2-1/2" FIPT Outlet with machined in Restrictor (Standard Configuration)
- FHZ30: 3" FIPT Inlet x 3" FIPT Outlet (For higher flow applications)

**FHZ Handle Options:**

- FHZ20S / FHZ25S / FHZ30S: Stainless Steel Double Handles
- FHZ20P / FHZ25P / FHZ30P: Padlock Single Aluminum Handle
- FHZ20B / FHZ25B / FHZ30B: Barrel Lock Single Aluminum Handle
- FHZ20N / FHZ25N / FHZ30N: No Handles

**FHZ Optional Outlet Configurations:**

- FHZ20#\*\*-W975 with W975 Dual Check RPZ Backflow Assembly and Stand
- FHZ25#\*\*-GV with 2-1/2" Gate Valve
- FHZ25#\*\*-CV with NC2525B-CV Check Valve Assembly
- FHZ25#\*\*-GVCV with 2-1/2" Gate Valve and NC2525B-CV Check Valve Assembly
- FHZ30#\*\*-GV with 3" Gate Valve
- FHZ30#\*\*-CV with NC2530B-CV Check Valve Assembly
- FHZ30#\*\*-GVCV with 3" Gate Valve and NC2530B-CV Check Valve Assembly



**FHZ25P\*\***  
Padlock Single Handle



**FHZ25S\*\***



**FHZ25B\*\***  
Barrel Lock Single Handle

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**FHZ25S\*\*-CV**  
Configured with NC2525B-CV  
Check Valve Assembly



**FHZ20S\*\*-W975**  
Configured with Dual Check RPZ  
Backflow Preventer and Stand



**FHZ30S\*\*-CV**  
Configured with NC2530B-CV  
Check Valve Assembly



**FHZ30S\*\*-GVCV**  
Configured with 3" Gate Valve and  
NC2530B-CV Check Valve Assembly