

# BACKFLOW PREVENTERS RP-40 SERIES

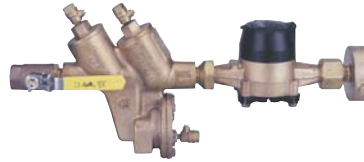
## Backflow Preventers RP-40 Series

### Fire Hydrant Backflow Meter

The Apollo® Series RP-40 Fire Hydrant Backflow Meter shall measure potable water flow from a fire hydrant or other non-permanent installation. At the same time it shall protect against backflow by either back-pressure or back-siphonage from a cross-connection between potable water system and substances that are non-health and health hazards. The unit shall consist of a 3/4" short water meter, 1" 40-205 RP device, 1" resilient-seated full port ball valve with locking device, 2-1/2"-7-1/2" NST threaded hose couplings, strainer on inlet of meter and adjustable support rod assembly.

#### OPERATION

The Fire Hydrant Backflow Meter is connected directly to a fire hydrant with a 2-1/2"-7-1/2" NST fire hose female swivel coupling. The device operates like a standard Reduced Pressure device except the flow through the device is measured by a water meter connected to the inlet of the backflow preventer. Support rod assembly is adjustable to accommodate fire hydrants at different heights from the ground.



Size 1"

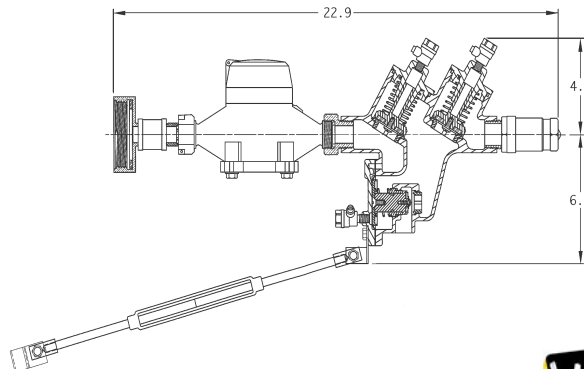
Contact local water authorities for installation/service requirements.

#### FEATURES

- Normal operating flow range 2-30 gpm
- Accuracy 100%  $\pm$  1.5 of actual thruput
- Low flow registration 95% at 1/2 gpm
- Maximum pressure loss 11.0 psi at 30 gpm
- Maximum operating pressure 150 psi
- Measuring element oscillating piston
- Register is straight reading, hermetically sealed magnetic drive
- Meter maincase is bronze, measuring chamber is Rocksyn, a corrosion resistant thermoplastic material maincase bottom plate is bronze, gears are self-lubricating, molded plastic for long life and minimum friction, magnets are Alnico, trim and casing bolts are stainless steel and strainer is thermoplastic
- Tamperproof locking system inside the meter
- 2-1/1"-7-1/2" NST fire hose swivel couplings, female inlet, male outlet
- Maximum rate listed is for intermittent flow only. Maximum continuous flow rate as specified by AWWA is 15 gpm
- Designed, manufactured, assembled and tested in South Carolina, USA
- 5 year, domestic warranty

#### DIMENSIONS (in.)—WEIGHTS (lbs.)

NET WEIGHT 24.1  
SHIPPING WEIGHT 27.6



#### Model Number

40-205-FHB (meter in cu. ft.)  
40-205-FHBG (meter in gallons)

See page 136 for air gap drain information