

HYDRO-RAIN®

HRZ 100

HRZ 100 stands in the market as the industry's first "one piece" low-flow irrigation zone valve, filter, and regulator combination—so compact it fits in a 6" round valve box.

On the outside, HRZ 100 moves away from the competition's traditional plastic construction to a statement of strength and durability featuring commercial-ready, glass-filled nylon. Inside, HRZ 100 can handle water flow as low as 0.1 GPM and pressure to 120 PSI. Models include 20, 30, and 40 PSI pressure regulation and 200 mesh filter. HRZ 100 comes "drip-ready" with a .700 – .710 adapter for a quick and easy, out-of-the-box installation.

FEATURES AND BENEFITS

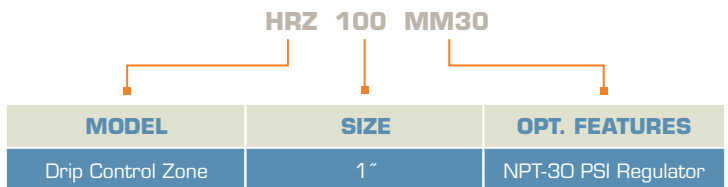
- **One-piece construction**—Combines a low-flow irrigation valve, a 200 mesh filter, and a pressure regulator, effectively reducing installation time and parts inventory.
- **Accessibility**—"Jar-Top" valve and filter are easily maintained; no tools are required for service with no valve bonnet screws or bolts to drop into the mud.
- **Internal manual bleed**—Operate HRZ 100 manually with no external bleed stream or use external bleed option for effective "blow out" during seasonal system shut-down.
- **Compact**—HRZ 100 is easily contained in a 6" round valve box and up to four will sit nicely in a standard size box.
- **1" Low-flow valve**—HRZ 100 operates efficiently from 0.1 to 5 GPM, perfect for residential or light commercial drip or micro watering.
- **Water management**—Features pressure regulation at 20, 30, or 40 PSI for use in a range of low-flow applications.
- **Filtration**—Removable 200 mesh filter with top-loaded service cap makes flushing fast and simple.
- **Drip tubing ready**—.700 – .710 quick-release tubing adapter included for easy out-of-the-package installation.
- **Stainless steel metering**—Design ensures optimal diaphragm performance.
- **Durable**—Glass-filled nylon construction for years of reliable operation.



MODELS

| | | |
|---------------|-------------------|------------------|
| HRZ-100-MM-20 | Drip Control Zone | 20 PSI Regulator |
| HRZ-100-MM-30 | Drip Control Zone | 30 PSI Regulator |
| HRZ-100-MM-40 | Drip Control Zone | 40 PSI Regulator |

HOW TO SPECIFY



HYDRO-RAIN®

HRZ 100

OPERATING RANGE

- Flow: 0.1 to 5.0 GPM (0.4 to 18.9 LPM)
- Inlet Pressure: 20 to 120 PSI (1.4 to 8.3 BAR)
- Regulated Pressure: 20 PSI (1.5 BAR), 30 PSI (2.1 BAR), 40 PSI (2.7 BAR)
- Filtration: 200 mesh filter
- Dimensions:
 - Height 5 1/2" (13.9 cm)
 - Length 9 3/8" (23.8 cm) (without optional .700 adapter)
 - Width 3" (7.6 cm)

ELECTRICAL SPECIFICATIONS

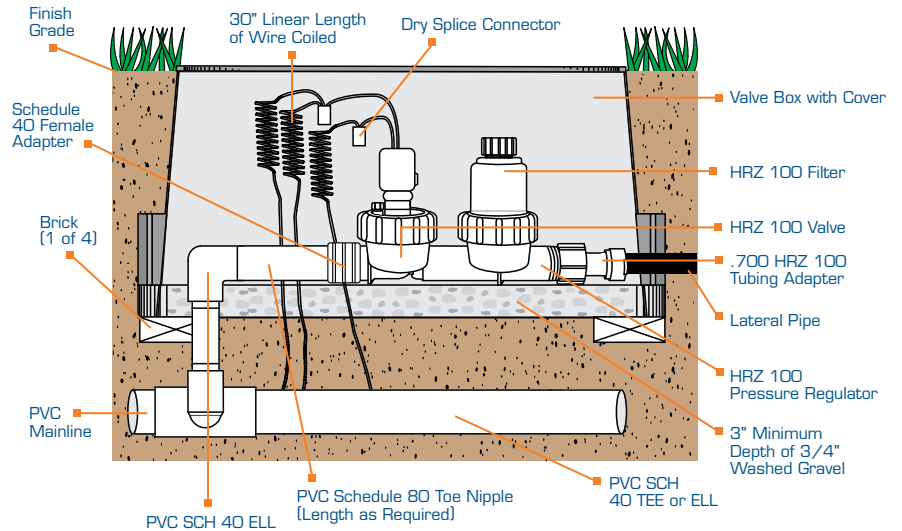
- 24 VAC 50/60 HZ (Cycles/Sec) Solenoid
- Inrush Current: .30 A (7.2VA) at 60 HZ
- Holding Current: .19 A (4.6VA) at 60 HZ
- Coil Resistance: 42–55 OHMS

HRZ 100-30

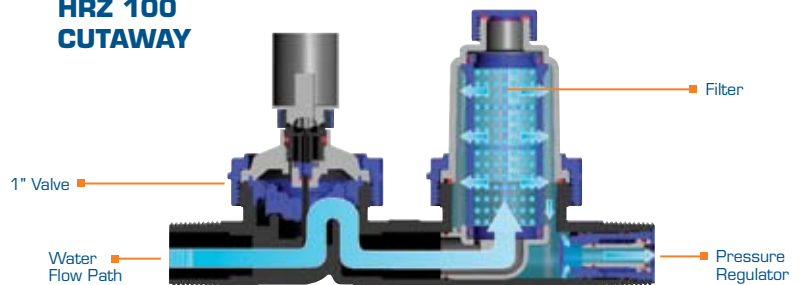
| INLET PRESSURE (PSI) | FLOW (GPM) |
|----------------------|------------|
| 31.3 | 0.2 |
| 32.1 | 1.0 |
| 35.3 | 2.0 |
| 40.2 | 3.0 |
| 46.0 | 4.0 |
| 52.3 | 5.0 |

| INLET PRESSURE (BAR) | FLOW (LPM) |
|----------------------|------------|
| 2.1 | 0.8 |
| 2.2 | 3.8 |
| 2.4 | 7.6 |
| 2.8 | 11.3 |
| 3.2 | 15.1 |
| 3.6 | 18.9 |

INSTALLATION SPECIFICATION DETAIL



HRZ 100 CUTAWAY



INLET PRESSURE REQUIRED TO MAINTAIN 30 PSI OUTLET PRESSURE

