












| | | C&I MACH 10® | HP Turbine | TRU/FLO® | HP PROTECTUS® III | HP FST |
|---|----------------------------|--|-----------------------------------|--|--|-------------------------|
| Highlights  | Meter Type | Ultrasonic | Turbine | Compound | Compound | Turbine |
| | Solid-State Technology | Yes | No | No | No | No |
| | Unitized Measuring Element | Yes | Yes | Yes | Yes | Yes |
| | Crossover Transition | No | No | Yes | Yes | No |
| | Vertical Mounting Possible | Yes | No | No | No | No |
| | Open Flow Channel | Yes | No | No | No | No |
| | Sampling Rate | 4x / sec | Mechanical | Mechanical | Mechanical | Mechanical |
| | Metrology | Dual Path Transducers | Turbine | Turbine and Nutating Disc | Turbine and Nutating Disc | Turbine |
| | 9-Digit LCD Display | Yes | Option | Option | Option | Option |
| | Waterproof (Pit Rated) | Yes | Yes | Yes | Yes | Yes |
| Industrial Outputs | Yes | Yes | Yes | Yes | Yes | |
| Tamper Resistance | Yes | Yes | Yes | Yes | Yes | |
| Flags  | Leak | Yes | Option | Option | Option | Option |
| | Reverse Flow | Yes | Option | Option | Option | Option |
| | Forward Flow | Yes | Option | Option | Option | Option |
| | Excessive Forward Flow | Yes | No | No | No | No |
| | Empty Pipe | Yes | No | No | No | No |
| | Low Battery | Yes | n/a | n/a | n/a | n/a |
| Construction  | Body | Bronze | Bronze | Bronze | Stainless Steel or ECDI | Bronze with SS Strainer |
| | Flanges | Bronze | Bronze | Bronze | Cast Iron or SS | Cast Iron or Bronze |
| | Register Housing | Polymer | Polymer | Polymer | Polymer | Polymer |
| | Water Temperature Range | 33°F to 122°F | Max 80°F | Max 80°F | Max 80°F | Max 80°F |
| | Operating Temperature | 14°F to 149°F | 33°F to 149°F | 33°F to 149°F | 33°F to 149°F | 33°F to 149°F |
| | Storage Temperature | -40°F to 158°F | 33°F to 158°F | 33°F to 158°F | 33°F to 158°F | 33°F to 158°F |
| | Pressure Rating | 175 psi | 175 psi | 150 psi | 175 psi | 175 psi |
| Compliance  | AWWA Compliance | C715 | C701 | C702 | C703 | C703 |
| | NSF/ANSI 61 and ANSI 372 | Yes | Yes | Yes | Yes | Yes |
| | UL | Yes | Option | No | Yes | Yes |
| | FM | Yes | Option | No | Yes | Yes |
| | Warranty | Accuracy: 10 yrs Battery/Electronics: 10 yrs prorated Maincase: Lifetime | Meter: 1 yr Maincase: Lifetime | Turbine: 1 yr T-10 Accuracy: 5 yrs/Repaired: 10 yrs Maincase: Lifetime | Meter/Accuracy: 1-5 yrs Body: 20 yrs prorated | Meter/Accuracy: 1yr |
| Normal Flow Range (100 +/- 1.5%, U.S. GPM)  | 3" | 0.75 - 500 | 5 - 450 | 0.5 - 450 | n/a | 5 - 450 |
| | 4" | 1.5 - 1,250 | 10 - 1,200 | 1 - 1,000 | 0.75 - 1,200 | 10 - 1,200 |
| | 6" | 2.0 - 2,000 | 20 - 2,500 | 1.5 - 2,000 | 1.5 - 2500 | 20 - 2,500 |
| | 6" x 8" | n/a | n/a | 1.5 - 2,000 | n/a | n/a |
| | 8" | 6 - 4,000 | 35 - 4000 | n/a | 2 - 4,000 | 35 - 4,500 |
| | 10" | 10 - 6,500 | 50 - 6500 | n/a | 2 - 6,500 | 50 - 6,500 |
| | 12" | 12 - 8,000 | n/a | n/a | n/a | n/a |
| Extended Low Flow (U.S. GPM)  | 3" | 0.5 | n/a | 0.125 | n/a | n/a |
| | 4" | 0.75 | n/a | 0.5 | 0.375 | n/a |
| | 6" | 1 | n/a | 0.75 | 0.75 | n/a |
| | 6" x 8" | n/a | n/a | 0.75 | n/a | n/a |
| | 8" | 4 | n/a | n/a | 1 | n/a |
| | 10" | 6 | n/a | n/a | 1 | n/a |
| | 12" | 8 | n/a | n/a | n/a | n/a |
| Pressure Loss at Max Flow* (psi)  | 3" | 5 | >10 | >12 | n/a | >10 |
| | 4" | 4.6 | 9 | >9 | >12.5 | >10 |
| | 6" | 4 | 3 | >8 | >18 | >10 |
| | 6" x 8" | n/a | n/a | >8 | n/a | n/a |
| | 8" | 3.6 | 4 | n/a | 14 | 10 |
| | 10" | 3.1 | 4 | n/a | 13 | >10 |
| | 12" | 6.2 | n/a | n/a | n/a | n/a |
| Lay Lengths (in)  | 3" | 12, 17 | 12 | 17 | n/a | 26.25 |
| | 4" | 14, 20 | 14 | 20 | 33 | 35.125 |
| | 6" | 18, 24 | 18 | 24 | 45 | 44.75 |
| | 6" x 8" | n/a | n/a | 55.375 | n/a | n/a |
| | 8" | 20 | 20 | n/a | 53 | 51.4375 |
| | 10" | 26 | 26 | n/a | 58 | 56.125 |
| | 12" | 19.7 | n/a | n/a | n/a | n/a |
| Weights (lbs)  | 3" | 39, 42 | 40 | 72 | n/a | 150 |
| | 4" | 51, 57 | 52 | 100 | 215 | 170 |
| | 6" | 79, 91 | 115 | 208 | 570 | 393 |
| | 6" x 8" | n/a | n/a | 460 | n/a | n/a |
| | 8" | 160 | 195 | n/a | 765 | 600 |
| | 10" | 264 | 275 | n/a | 900 | 725 |
| | 12" | 292 | n/a | n/a | n/a | n/a |