A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

TRU/FLO® Compound Meter

SIZES: 2"HP, 3", 4", 6", AND 6"X8"

All TRU/FLO® Compound water meters meet or exceed the latest performance and accuracy requirements set by the AWWA C702, and maximum continuous flow rates may be exceeded by as much as 25% for intermittent periods.

Application

The TRU/FLO Compound water meter is designed to register wide flow ranges where varying flow rates are typical. TRU/FLO meters combine the low-flow sensitivity of a disc-type meter with the high-flow capacity of a turbine-type meter.

Operation

The hydraulic valve transfers flow smoothly between the disc section and turbine section of the meter, minimizing the loss of accuracy in the crossover range. The turbine measuring element registers high flows and the disc measuring element registers low flows, ensuring accurate measurement at all flow rates.

Construction

The TRU/FLO consists of a durable, lead free, high-copper alloy maincase, Neptune® High Performance (HP) or Trident® Turbine measuring element, Neptune T-10® chamber, and two magnetic-driven, roll-sealed registers.

The 6" x 8" TRU/FLO assembly consists of two 6" x 8" concentric reducers, a 6" Neptune strainer, and a 6" Neptune TRU/FLO Compound meter.

The lead free, high-copper maincase is corrosion-resistant, lightweight, and easy to handle.

A calibration vane allows field calibration of the UME to lengthen service life and to ensure accurate registration.

The two magnetic-driven, roll-sealed registers simplify the meter's design and reduce long-term maintenance by eliminating complicated combining drive mechanisms. For reading convenience, the registers can be mounted in any one of four positions on the meter.

Warranty

Neptune provides a limited warranty with respect to its TRU/FLO Compound water meters for performance, materials, and workmanship.

When desired, owner maintenance is easily accomplished by in-line replacement of major components, or a factory-calibrated UME.

KEY FEATURES

Minimum loss of accuracy in the crossover range increases revenue

Spring-loaded valve eliminates need for frequent adjustment and service

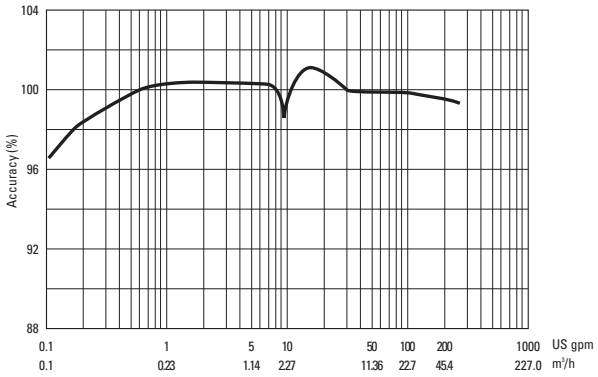
Combined turbine and disc measuring elements

- Industry-leading flow ranges at 98.5%–101.5% accuracy ensure maximum revenue
- Direct coupling of rotor to gear train ensures accurate registration
- Unitized Measuring Element (UME) makes maintenance easier and faster with less downtime
- Calibration vane allows in-line service to extend life and ensure accurate registration

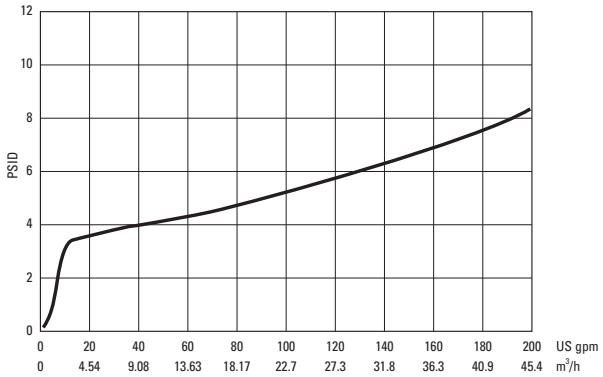
Compact maincase

- Made from lead free, high-copper alloy
- NSF/ANSI 372 certified and NSF/ANSI 61 compliant
- Lifetime guarantee
- Compact, lightweight design provides for easy installation and in-line serviceability

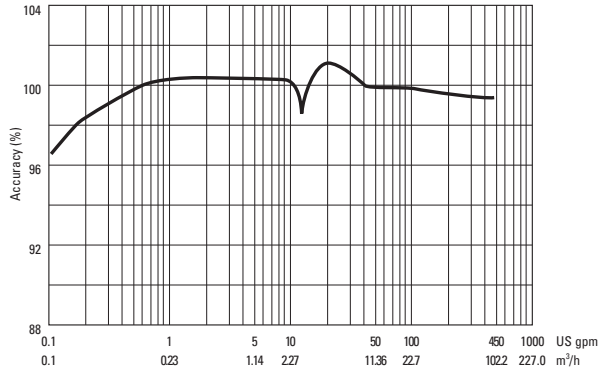
2" Accuracy



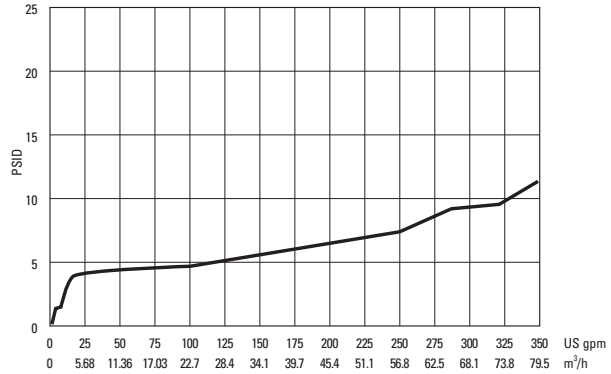
2" Pressure Loss



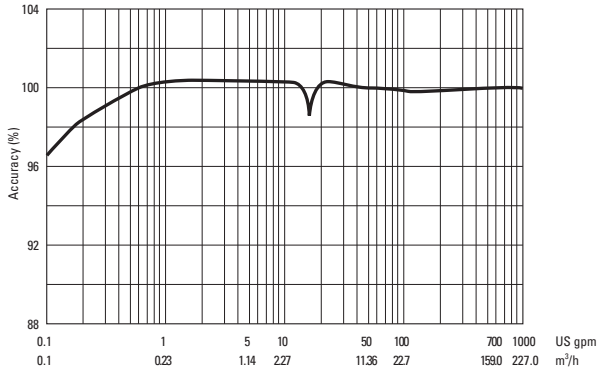
3" Accuracy



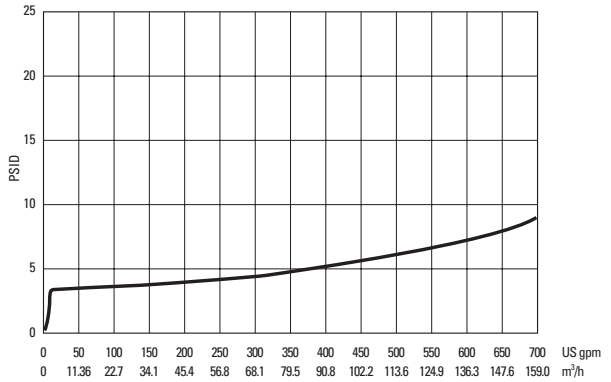
3" Pressure Loss



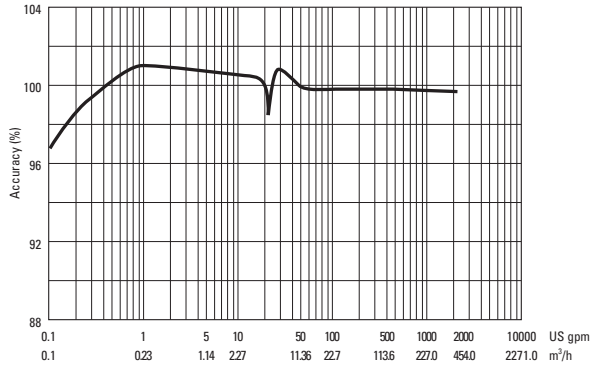
4" Accuracy



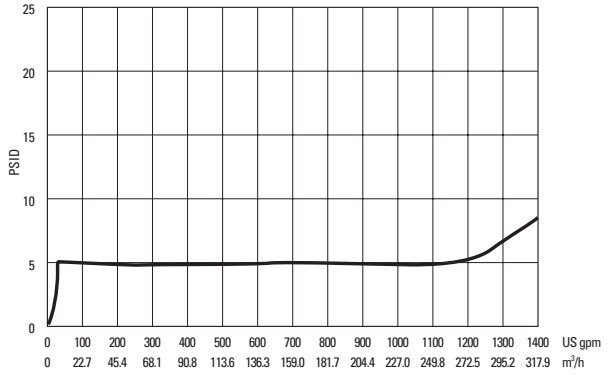
4" Pressure Loss



6" Accuracy



6" Pressure Loss



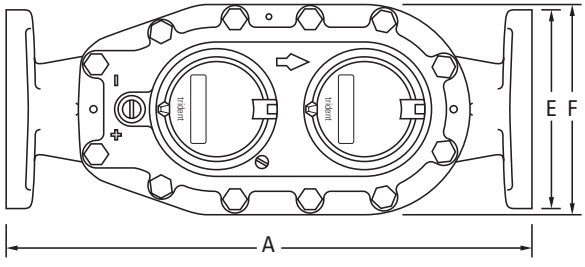
Operating Characteristics

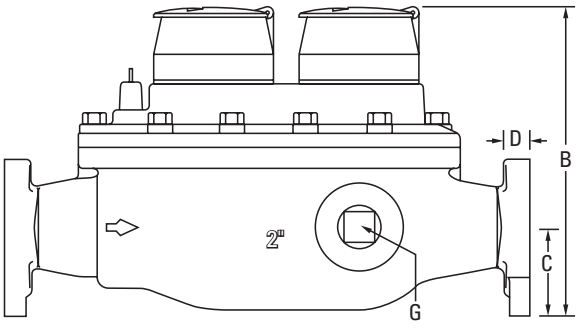
Meter Size	Normal Operating Range @100% Accuracy (±1.5%)	AWWA Standard	Low Flow @ 95% - 101% Accuracy
2″	½ to 200 US gpm 0.11 to 45.4 m³/h	1 to 160 US gpm .227 to 36.34 m³/h	⅛ US gpm 0.03 m³/h
3″	½ to 450 US gpm 0.11 to 102.2 m³/h	2 to 350 US gpm .454 to 79.5 m³/h	⅛ US gpm 0.03 m³/h
4″	1 to 1000 US gpm 0.23 to 227.1 m³/h	3 to 600 US gpm .68 to 136.3 m³/h	½ US gpm 0.11 m³/h
6″	1 ½ to 2000 US gpm 0.34 to 454.2 m³/h	5 to 1350 US gpm 1.14 to 306.6 m³/h	¾ US gpm 0.17 m³/h
6″ x 8″	1 ½ to 2000 US gpm 0.34 to 454.2 m³/h	16 to 1600 US gpm 3.63 to 363.4 m³/h	¾ US gpm 0.17 m³/h

*Accuracy at changeover 90% -103% per AWWA C702

Dimensions

		B									
Meter Size	A in/mm	E-CODER® OR ProCoder™ in/mm	ProRead™ in/mm	E-CODER®) R900*i*™ or ProCoder™) R900*i*™ in/mm	C in/mm	D in/mm	E in/mm	F in/mm	G in/mm	Flange Type	Weight lbs/kg
2″ HP	15 ¼ 387	9 ⅜ 238	9 9/16 243	9 ⅜ 238	2 ½ 64	13/16 21	5 ⅞ 149	6 152	1 ½ NPT 38	2″ Oval 150lb	32 14.5
3″	17 432	11 ½ 292	11 ¾ 298	11 ½ 292	3 ¾ 95	⅝ 16	7 ½ 191	8 ½ 216	1 ½ NPT 38	3″ ANSI 150lb	72 32.7
4″	20 508	13 ⅜ 340	13 9/16 345	13 ⅜ 340	4 ½ 114	11/16 17	9 229	9 ⅛ 232	2 NPT 51	4″ ANSI 150lb	100 45.4
6″	24 610	16 ⅜ 416	16 9/16 421	16 ⅜ 416	5 ½ 140	1 25	11 279	12 ¾ 324	2 NPT 51	6″ ANSI 150lb	208 94.3
6″ x 8″	55 ⅜ 1407	16 ⅜ 416	16 9/16 421	16 ⅜ 416	5 ½ 140	1 25	11 279	12 ¾ 232	2 NPT 51	8″ ANSI 150lb	460 208.50





Guaranteed Systems Compatibility

All Neptune TRU/FLO Compound meters are guaranteed adaptable to our ARB®V, ProRead™ (ARB VI), ProCoder™, E-CODER®, E-CODER®)R900*i*™, E-CODER®)R450*i*™, TRICON®/S, TRICON/E®3, and Neptune meter reading systems without removing the meter from service.

Systems Compatibility

Adaptability to all present and future systems for flexibility.

Registration

	Turbine Side		Disc Side
Registration (per sweep hand revolution)	**2", 3", 4"**	**6", 6" x 8"**	**2", 3", 4", 6", 6" x 8"**
1,000 US Gallons		✓	
1,000 Imperial Gallons		✓	
100 US Gallons	✓		
100 Imperial Gallons	✓		
100 Cubic Feet		✓	
10 US Gallons			✓
10 Imperial Gallons			✓
10 Cubic Feet	✓		
10 Cubic Metres		✓	
1 Cubic Foot			✓
1 Cubic Metre	✓		
0.1 Cubic Metre			✓

	Turbine Side		Disc Side
Register Capacity (6-wheel odometer)	**2", 3", 4"**	**6", 6" x 8"**	**2", 3", 4", 6", 6" x 8"**
1,000,000,000 US Gallons		✓	
1,000,000,000 Imperial Gallons		✓	
100,000,000 US Gallons	✓		
100,000,000 Imperial Gallons	✓		
100,000,000 Cubic Feet		✓	
10,000,000 US Gallons			✓
10,000,000 Imperial Gallons			✓
10,000,000 Cubic Feet	✓		
10,000,000 Cubic Metres		✓	
1,000,000 Cubic Feet			✓
1,000,000 Cubic Metres	✓		
100,000 Cubic Metres			✓

Specifications

Application

- Cold water measurement of flow in one direction

Maximum Operating Pressure

- 150 psi (1034 kPa)

Maximum Operating Temperature

- 80°F

Register

- Direct reading, center sweep, roll-sealed, magnetic drive with low-flow indicator

Measuring Element

- AWWA Class II Turbine, hydrodynamically balanced rotor
- Nutating disc

Options

Sizes

- 2" HP, 3", 4", 6", and 6" x 8"

Units of Measure

- U.S. gallons, imperial gallons, cubic feet, cubic metres

Register Types

- Remote reading systems: ProRead, ProCoder, E-CODER, E-CODER)R900*i*, E-CODER)R450*i*, TRICON/S, TRICON/E3
- Reclaim

Companion Flanges

- 2", 3", 4" bronze or cast iron
- 6", 6" x 8" cast iron

Strainer

- 2", 3", 4", 6" NSF/ANSI 372 and NSF/ANSI 61 lead free, high-copper alloy

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