A PRODUCT SHEET OF NEPTUNE TECHNOLOGY GROUP

Tricon®/S Register

The TRICON®/S register mounts on the meter maincase. The bayonet-type mount allows the TRICON/S to be easily retrofitted to many existing Neptune® meters without interruption. The TRICON/S can be used in applications where a switch closure that is proportional to the flow rate is required. Several switch configurations are available.

Every Neptune meter and TRICON/S register meet or exceed the latest standards of the American Water Works Association ensuring accurate, dependable performance.

The TRICON/S register is ideally suited for controlling/monitoring total flow rate data such as:

- Water softening regeneration
- Demineralization reverse osmosis
- Chemical treatment/injection
- Batch processing
- Filtration
- Boiler feed water make-up
- Cooling tower water make-up
- Irrigation

Warranty

Neptune provides a limited warranty with respect to its TRICON/S Register System for performance, materials, and workmanship.

Electrical Characteristics (at 25°C unless specified)

Switch Ratings	Min	Typ	Max	Units
Operating Temperature	-40		125	°C
Open Circuit Resistance	10			MOhms
Closed Circuit Resistance			0.1	Ohms
Break Down Voltage (DC)	250			Volts
Capacitance		1.5		pF
Actuation Time	0.0005			sec
Shock With No Contact			100	G

KEY FEATURES

Register

- Reed switch technology
- Large, easy-to-read numerals
- Rugged thermoplastic housing
- Monitoring capability permits locating registers up to 1,000 feet from controller
- Wide variety of calibrated switch closures available
- Tamperproof – only one seal wire screw to secure register and terminal cover

Readily available for all Neptune meters:

- T-10® Disc
- HP Turbine
- TRU/FLO® Compound
- HP Fire Service Turbine
- HP PROTECTUS® III

Meter Application Guide

Meter/Size	Normal Flow Range (GPM)	Max Continuous Flow	Meter Length (in.)
T-10®			
5/8"	1/2 - 20	10	7 1/2
5/8" x 3/4"	1/2 - 20	10	7 1/2
3/4"	3/4 - 30	15	9
3/4" x 1"	3/4 - 30	15	9
1"	1 - 50	25	10 3/4
1 1/2" Threaded End	2 - 100	50	12 5/8
1 1/2" Flanged End	2 - 100	50	13
2" Threaded End	2 1/2 - 160	80	15 1/4
2" Flanged End	2 1/2 - 160	80	17
Trident Turbine			
3"	5 - 450	450	12
4"	10 - 1,000	1,000	14
6"	20 - 2,000	2,000	18
8"	35 - 3,500	3,500	20
10"	50 - 5,500	5,500	26
HP Turbine			
1 1/2"	4 - 160	160	10
2"	4 - 160	160	10
3"	5 - 450	450	12
4"	10 - 1,200	1,200	14
6"	20 - 2,500	2,500	18
8"	35 - 4,000	4,000	20
10"	50 - 6,500	6,500	26
12"	120 - 8,000	8,000	19 11/16
16"	200 - 13,500	13,500	23 5/8
20"	300 - 22,000	22,000	31 1/2

Available Switch Closures *(for T-10s and Turbines)*

Gal, Imp. Gal, or Litres*/ Contact	5/8-1" T-10	1 1/2-2" T-10	1 1/2-4" HPT	6"-12" HPT	16"-20" HPT	Cubic Feet/ Contact	5/8-1" T-10	1 1/2-2" T-10	1 1/2-4" HPT	6"-12" HPT	16"-20" HPT	Cubic Metres/ Contact	1 1/2-4" HPT	6"-12" HPT	16"-20" HPT
												.01	✓		
1	✓					1	✓	✓	✓			1	✓	✓	
10	✓	✓	✓			10	✓	✓	✓	✓		10	✓	✓	✓
100	✓	✓	✓	✓		100	✓	✓	✓	✓	✓	100	✓	✓	✓
1000	✓	✓	✓	✓	✓	1000		✓	✓	✓	✓	1000		✓	✓
10,000		✓	✓	✓	✓	10,000				✓	✓	10,000			✓
100,000				✓	✓	100,000					✓	100,000			

Specifications

Sizes

- T-10 (5/8"–2")
- Trident Turbine (3"–10")
- HP Turbine (1 1/2"–20")
- TRU/FLO Compound (2"– 6" x 8")
- HP Fire Service (3"– 10")
- HP PROTECTUS III (4"– 10")

Units of measure:

- U.S. gallons
- Imperial gallons
- Litres
- Cubic feet
- Cubic metres

Connection wire:

- Distances up to 300 feet (91 metres) – AWG #22
- Distances from 300 to 500 feet (91–152 metres) – AWG #20
- Distances 500–1000 feet* (152–304 metres) – AWG #18

Electrical characteristics (at 25°C unless specified): Absolute maximums (not to be exceeded without possible damage)

- Switch power: 10 watts (DC)
- Switch current: 0.5 amps (DC)
- Switch voltage: 200 volts (DC)

* *Recommended installation: Register should be in an upright position. Not recommended for pit applications.*

NEPTUNE TECHNOLOGY GROUP

#winyourday
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