

PRM DFA-15T Rotameter

Air Injection/ Air Sparge Rotameter with Integrated Flow Control

The DFA-15T Rotameters are designed for heavy duty service in the environmental remediation and industrial process markets. PRM has found through experience that other brands of rotameters break, leak, and fail in the harsh conditions of the remediation industry, so PRM manufactures these standard flow control rotameters with a heavy duty body and mounting bosses to make the rotameters stationary and prohibit flexing. PRM rotameters uses a Stainless Steel valve assembly where others use brass, which is a typical failure point in harsh conditions.

PART#

FMDFA15T10: 1-10 CFM / 30-300 LPM

FMDFA15T15: 1-15 CFM / 40-400 LPM

Maximum Pressure: 100 psi

Maximum Temperature: 145° F

Connection:

1/2" Male NPT or 1/4" Female NPT Thread

Accuracy: +/-4%

It is important to understand that a rotameter is affected by variations in temperature and air pressure. This rotameter has been calibrated at the Standard operating conditions of 14.7 psia (0 psi) pressure and 70° F. When using the rotameter at a different temperature and pressure than where it was calibrated, the following formula will provide a correction factor:

$$Q_2 = Q_1 \times \sqrt{\frac{P_1 \times T_2}{P_2 \times T_1}}$$

Where:

Q1 = Actual or Observed Flowmeter Reading

Q2 = Standard Flow Corrected for Pressure and Temp.

P1 = Actual Pressure (14.7 psia + Gauge Pressure)

P2 = Standard Pressure (14.7 psia, which is 0 psig)

T1 = Actual Temperature (460 R + Temp °F)

T2 = Standard Temperature (530 R, which is 70°F)



Materials:

Body: Acrylic

O-Ring: Buna-N

Float: 304 Stainless Steel

Fitting: ABS Plastic, 304 Stainless Steel

1.26"

