# MRA100-000 Mass Rate Attenuator 

## Description

The MRA100-000 is an active splitting device (6-position, 4-port) that delivers a small aliquot of an HPLC stream into a Mass Spec stream.

## Flow Diagram

A schematic of the valve flow-switching pattern is shown below. The circles represent the ports in the stator and the grooves represent the connecting passages in the rotor seal. Please note that this is a graphical representation of the flow path and does not illustrate the actual flow through the stator and rotor seal.


Aliquot Fill

## Specifications

Liquid Contacts: Stainless steel and RPC-8 ${ }^{\text {TM }}$
Connections: Accepts 10-32 male threaded fittings
Flow Passage Diameters: Stator (includes stator face assembly)- $0.71-\mathrm{mm}$ ( 0.028 "), and $0.38-\mathrm{mm}$ ( 0.015 "), Rotor Seal- $0.20-\mathrm{mm}$ ( 0.008 "), $0.30-\mathrm{mm}$ ( 0.012 "), and $0.76-\mathrm{mm}$ ( 0.030 ")
Volume in Flow Passages: Stator (includes stator face assembly)- Port 1- 2.96 uL, Port 2- 3.76 uL , Port 3- 0.77 uL, and Port 4- 0.46 uL , Rotor Seal (depending on split ratio chosen)- $0.02 \mathrm{uL}, 0.10 \mathrm{uL}$, and 0.30 uL
Maximum Pressure: 6.9 MPa (69 bar, 1000 psi)
Communication: Discrete line control and RS-232

## Supplied With

(4) RheFlex® One-Piece PEEK fitting sets with (4) colored ChromTRAC ${ }^{\text {M }}$ knobs attached, (1) Hex Key,
(2) Connecting Wires (1.8 meters [6 feet] each), (1) Maintenance Kit, (1) Flow Diagram Label, Universal Power Supply, Power Cord (multi-national cords), and Operating Manual.

NOTE: Shipping, storing or operating this valve below $0^{\circ} \mathrm{C}$ with water in the fluid passages may cause failure of the sealing surfaces.

## Dimensional Drawings on page 2

## MRA100-000

Dimensions are in inches/millimeters


