



Nanoturion™ N4-S

Semi Automatic Valve Manifold Box



SEMI-GAS® supplies SEMI S2 certified, production-ready ultra high purity gas source systems, distribution systems and control technology to leaders in the Semiconductor industry and related high-tech fields. Built to address the most rigorous precision and purity demands of these specialized applications, SEMI-GAS® solutions are globally renowned for their premier levels of safety, quality, and performance.

DESIGN STANDARDS

- ◆ Conforms to SEMI S2 Standards
- ◆ UL Labeled
- ◆ Conforms to Uniform Building and Fire Codes
- ◆ Upholds Sample Validation Testing Standards
- ◆ Helium Leak Tested to 1×10^{-9} atm-cm³/sec
- ◆ Equipped with GigaGuard™ GSM Controller

FEATURES

- ◆ Safely Distributes Hazardous Process Gases
- ◆ Rail Mounted Design for Easy Maintenance and Expansion
- ◆ Automatic Shutdown in the Event of an Alarm Trip
- ◆ Includes Line Isolation and Pressure Regulation for Individual Process Sticks
- ◆ Gauge Based Pressure Monitoring
- ◆ LED Lights Provide Constant System Status
- ◆ Intuitive Operating Interface and Control
- ◆ Continuously Monitors System Conditions for Alarms
- ◆ 4, 6 and 8 Stick Enclosures Available
- ◆ Emergency Shut Off (ESO) Valve on Each Stick

ENGINEERING DATA

- ◆ 4 Stick System Dimensions: 44" T X 22" W X 15" D (pictured)
- ◆ Exhaust Duct: 4" Diameter
- ◆ Voltage: 110 to 240 VAC, 1 Phase
- ◆ Frequency: 50 to 60 Hz

MATERIALS OF CONSTRUCTION

- ◆ Welded 11 Ga Steel Enclosure
- ◆ Self-Closing and Self-Latching Door
- ◆ UL Approved Fire Sprinkler
- ◆ 1/4" Thick Safety Glass Window
- ◆ Integrated Wall or Rack Mount Attachment Points
- ◆ Ultra High Purity Fluid Components



ORDERING INFORMATION

Contact your SEMI-GAS® sales rep or visit www.semi-gas.com

BY APPLIED ENERGY SYSTEMS

180 Quaker Lane
Malvern, PA 19355

Phone: 610.647.8744

Fax: 610.640.4548

Email: sales@semi-gas.com

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SAFETY FEATURES

- ◆ **Door Switch Monitor** for applications that require extra security and/or limited access (optional)
- ◆ **Hazardous Gas Detector** for all hazardous, toxic, and/or flammable gas applications (required for silane, consult local codes for all other gases)
- ◆ **Rate of Rise Heat Detector** for flammable gas applications (optional)
- ◆ **Controller Z-Purge Kit** for systems installed in Class 1 Division 2 hazardous locations, as well as applications for silane and silane mixtures greater than 1.37% (required for silane)

ORDERING INFORMATION

Example: Semi Automatic 4-Line Valve Manifold Box with 3 Sticks Populated



Product

N = Nanoturion™ Distribution System

Configuration

- 4** = 4- Line Panel (1-4 sticks)
- 6** = 6- Line Panel (1-6 sticks)
- 8** = 8- Line Panel (1-8 sticks)

Control

- M** = Manual
- S** = Semi Automatic
- A** = Fully Automatic

Sticks Populated

- 0** = 0 Sticks
- 1** = 1 Sticks
- 2** = 2 Sticks
- 3** = 3 Sticks
- 4** = 4 Sticks
- 5** = 5 Sticks
- 6** = 6 Sticks
- 7** = 7 Sticks
- 8** = 8 Sticks

Enclosure

- E** = Enclosure
- O** = No Enclosure



*All Nanoturion™ Distribution Systems can be customized to meet unique specifications. Contact your SEMI-GAS® sales rep for details.