Model YZ103



YZ103-CI-W or B-V With Pressure Switch





YZ103-CI-L-U Less Pressure Switch Shown w/ MF-12 Universal

Mounting Flange



YZ103-CI-W or B-H With Pressure Switch

Product Description

D & M Instruments' Model YZ103 is a Type Y or Z purge unit designed to protect electrical equipment in Class I hazardous locations. When connected to a supply of protective gas, the Model YZ103 will supply, regulate and monitor the protective gas supply to a protected electrical enclosure. Type Z applications will reduce the hazardous location rating inside the enclosure from Division 2/ Zone 2 to non hazardous. This permits general purpose equipment to operate in Division 2/ Zone 2 areas. Type Y applications will reduce the hazardous location rating inside the enclosure from Division 1/ Zone 1 to Division 2/ Zone 2. This permits Division 2/ Zone 2 equipment to operate in Division 1/ Zone 1 areas.

A **DMI Model PV-3** spark arresting Purge Vent **MUST** be installed on the protected enclosure for safe and proper purge unit operation.

This unit is designed to meet or exceed NEC - NFPA 70, NFPA 496, EN 50016 and IEC 60079-02 requirements.

Unit Specifications

Recommended Max. Enclosure Volume: * 200 cu ft
Purge Time: 4 Volumes @ 1 minute per 3.0 cf
5 Volumes @ 1 minute per 2.4 cf

Protective Gas Supply: Clean Air or Inert Gas Gas Supply Pressure: 80 - 125 psi max. Unit Supply Connection: 3/8" tube fitting 3/8" tube fitting Enclosure Supply: Enclosure Reference: 1/4" tube fitting Safe Enclosure Pressure: 0.5" w.c. / 55Kb ** 0.1 - 3.5 scfh per cf Safe Press. Flowrate: ** 5" w.c. Purge Enclosure Pressure:

Purge Press. Flowrate: 10 scfm @ 60 psi.

* Contact Factory for applications with larger enclosure volumes

** Enclosure Integrity determines actual Flowrate & Pressure

Material Specifications

Unit Mounting Plate: Regulator body: Filter & Handle:

Enclosure Press. Gauge: Injection Press. Gauge:

Tubing:

Tube Fittings:

Valves:

Valve Handles: Start up Labels:

Enclosure Warning Label:

316 SS Brushed
Enamel Finished Zinc
Polycarbonate
Enameled Alum.
Polycarbonate/Brass
316 Stainless Steel
316 Stainless Steel
316 Stainless Steel
Polycarbonate

Silkscreened Lexan 316 Stainless Steel

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YZ103-CI-W or B-V With Pressure Switch **Rear View**

Filtered Regulator

Unit Supply Connection

Enclosure Supply Connection

Enclosure -Pressure Control Valve



YZ103-CI-L-U **Less Pressure Switch Rear View**

Purge Control Valve

Enclosure **Pressure** Reference Connection

Enclosure Pressure Gauge Venturi Orifice Atmospheric Reference



Model YZ103

YZ103-CI-W or B-H With Pressure Switch **Rear View**

Typical Mounting Configurations



Left Mount



Top Mount



Bottom Mount

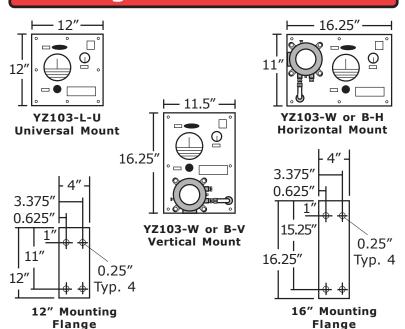


Frame Mount



Right Mount

Purge Unit Dimensions



Model Number Matrix Model # YZ-103-CI-L-U

Division/Zone Reduction -

Y- Div.1/Zone1 to Div. 2/Zone 2

Z- Div.2/Zone2 to Non-Hazardous

Unit Series

103- Purge Unit

Area Classification

CI- Class I Areas

Pressure Switch Option -

L- Provided Less Switch

W- Provided With CI, Gr. C&D EXP Switch

B- Provided With CI, Gr. B EXP Switch

Mounting Options -

U- Universal Mounting *

V- Vertical Mounting

H- Horizontal Mounting

* - Not Available with pressure switch options

Purge Unit Accessories

PV-3-T: Top Mount Spark Arresting Purge Vent PV-3-S: Side Mount Spark Arresting Purge Vent BCK-103: Model YZ103 Bulkhead Connection Kit PSK-GP: General Purpose Pressure Switch Kit PSK-ED: Group C&D EXP Pressure Switch Kit PSK-EB: Group B EXP Pressure Switch Kit EWL-1: SS Enclosure Warning Label YZ103 IOM: Installation & Operating Manual

Local Sales Representative



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Specifications Subject to Change without Notice Warranty & Liability Statements available upon request

D&M Instruments, Inc.