

# Stonel™ Eclipse™ nonincendive, I.S. & general purpose compact, modular on/off valve monitor

# Series EN/EG



### Eclipse™

### Compact and modular with solid state reliability

Stonel Eclipse features dual solid state sensors with optional communications neatly integrated into a sealed module. The function module and trigger/indicator attach quickly and conveniently to standard VDI/VDE 3845 (NAMUR) actuator accessory mounting pads. The Eclipse series is available in nonincendive and intrinsically safe versions (EN) for hazardous areas and in a general purpose completely sealed micro-connector version (EG).

### **Enclosure options**



## EN: Nonincendive with integral wire termination area

- Suitable for all hazardous areas.
- Rated for Type 4, 4X, 6 (intrinsically safe and nonincendive rated: IP67).
- Additional termination points and dual conduit entries eliminate junction boxes for solenoid valve termination.
- Convenient wiring compartment and pre-labeled terminal strip enables rapid installation.



### EG: General purpose with convenient microconnector wiring

- Available with additional built-in connector for solenoid termination.
- Micro-connectors with potted and sealed enclosure eliminate any threat of moisture contamination in wiring.
- Electronic module integrated permanently into enclosure.

### **Features**

- Red/green visual indicator boldly displays valve status, and coordinates with red/green LEDs.
- 2. **Direct attachment** to ISO/NAMUR mounting pads with simple mounting kit (sold separately).
- 3. **High intensity red and green LEDs** indicate electronic switch status to confirm electrical operation.
- 4. **Sensor triggers** are adjustable in 3.5 degree increments through 360 degrees for precision and flexibility.
- 5. **Submersible** and capable of high pressure washdown, Eclipse sensors and electronics are fully sealed to eliminate hazard threat and corrosion problems.
- 6. **Extremely compact, rugged enclosur**e integrates position sensors, communication, electronics, and power outputs for solenoids.
- All mechanical parts are made of polycarbonate or stainless steel for corrosion resistance and durability.



### Triggering and visual indicator

Red and green visual indication is viewable from 360 degrees around the automated valve and from above at distances up to 70 feet. The yellow flow line indicator is also available, which is viewable from all angles at a distance up to 30 feet.

The solid state inductive sensors are activated by stainless steel targets embedded into the visual indicator drum. Open and closed targets may be independently adjusted in 3.5 degree increments.





Red/green option

Flow line option

Specifications			
Materials of construction			
Housing	Lexan® polycarbonate		
rum components	Lexan® polycarbonate		
Fasteners	Stainless steel		
Triggers and coupling	Stainless steel		
Quick connectors	Stainless steel		
Operating life	Unlimited		
Геmperature range	-40° C to 80° C (-40° F to 176° F)		
Warranty			
Dual modules	Five years		
Mechanical components	Two years		

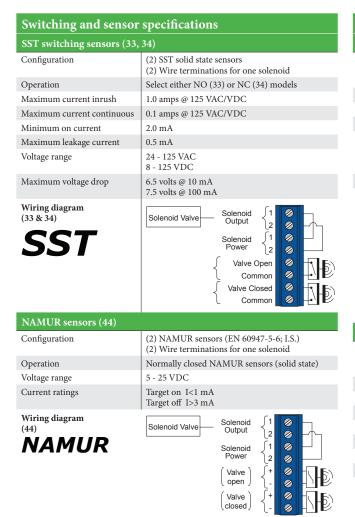
Ratings			
Nonincendive (Class I and II, Div. 2)	EN models*		
Intrinsically safe (Ex ia, Zone 0 or Class I and II, Div. 1)	EN44*		
<b>Enclosure protection</b>			
Type 4, 4X and 6	All models		
Ingress Protection 67	All models		
Approvals*	See manufacturer's website		
* Only models listed on Valmet official website are approved per specific rating.			

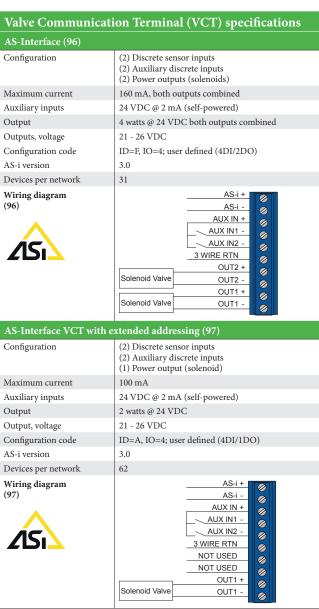
### Sensing and communication

The Eclipse offers incredible value and space efficiency. Communications, position sensing, power outputs, and auxiliary inputs are sealed in the function module. Select from NAMUR sensors, SST switching, or AS-Interface, or DeviceNet<sup>™</sup> communication terminals. All are fully solid state and sealed.



EN features a removable, fully sealed dual module to facilitate quick, convenient maintenance and wiring.

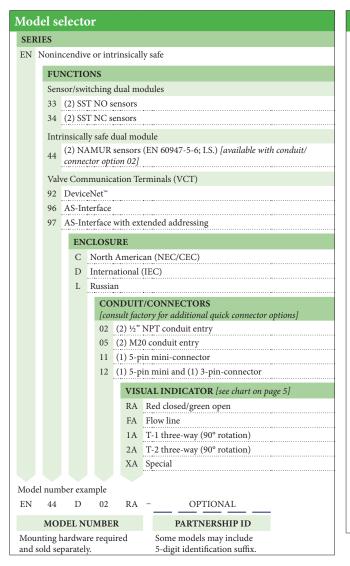


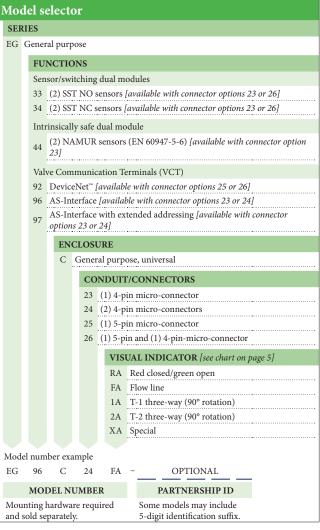


### **Valve Communication Terminal (VCT) specifications** Configuration (2) Discrete inputs (open and closed) (2) Power outputs (solenoids) (1) 4-20 mA auxiliary analog input, 10-bit resolution; no additional power source required Transmission rate Software selectable 125K, 250K or 500K baud Messaging Polling, cyclic and change of state Outputs 4 watts @ 24 VDC outputs combined $24~\mathrm{VDC}$ (with input voltage ranging from 10 - $24~\mathrm{VDC})$ Outputs, voltage Other features Predetermined output fail state Wiring diagram V+ (92) CAN H 0 DeviceNet Bus SHIELD Device Net CAN L 0 ٧-Ain -0 4-20 mA Ain+ Transmitter 0 OUT1 -0 Solenoid Valve 24 VDC+ 0 OUT2 -Solenoid Valve \* 4-20 mA transmitter not included

### Eclipse visual indicator designations

DESIGNATION	<b>0</b> °	90°
R	RED CLOSED	GREEN OPEN
G	GREEN CLOSED	RED OPEN
F		
1	A B	A B
2	A B	A B
X	Specialty configuration - please consult factory	

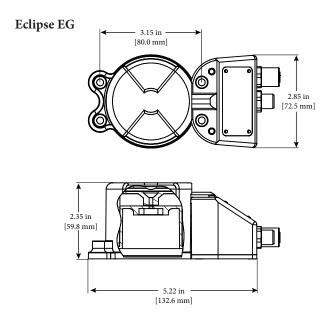




### **Dimensions**

# 3.15 in [80.0 mm] Note: Cover swing clearance = 3 in [76.2 mm] 0.75 in [19.1 mm] 0.83 in [21.0 mm]

### **Dimensions**

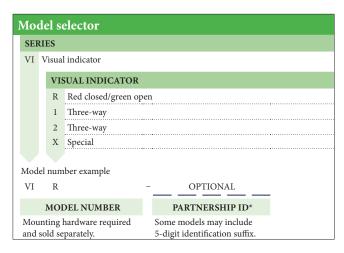


### Stand alone visual indicator

Clearly view valve position status from up to 75 feet with our stand alone visual indicator. The indicator's rugged Lexan\* construction makes it resistant to physical damage and tolerant to most corrosives.





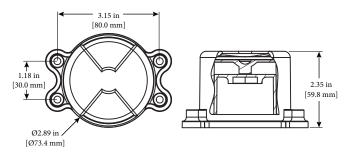


### Visual indicator designations

DESIGNATION	0°	90°
R	RED CLOSED	GREEN OPEN
G	GREEN CLOSED	RED OPEN
1	A B	A B
2	A B	A B
X	Specialty configuration - please consult factory	

### **Dimensions**

### **Visual Indicator VI**



Valmet Flow Control Inc. Stonel product center 26271 US Hwy 59, Fergus Falls, MN 56537 USA . Tel. +1 218 739 5774. sales.stonel@valmet.com valmet.com/flowcontrol