

# ER3100 Series

Electropneumatic Controllers/Motors

DER311923X012

## Specifications

For other materials or modifications, please consult TESCOM.

### ER3100 SYSTEM

**Maximum Inlet Pressure**

4500 psig / 310 bar

**Maximum Outlet Pressure**

400, 900 psig / 27.6, 62.1 bar

**Flow Capacity**

$C_v = 0.7, 2.0$

**Features and Benefits**

- Captured venting
- Fast responding, high flow system
- Compact size
- Includes all the features of the ER3000 Series (0.1% accuracy, onboard PID loop, free software)

### ER3110 SYSTEM

**Maximum Inlet Pressure**

3500 psig / 241 bar

**Maximum Outlet Pressure**

500 psig / 34.5 bar

**Flow Capacity**

$C_v = 0.06, 0.15$

**Features and Benefits**

- Venting (not captured) or non-venting
- Fast responding, low pressure, low flow system
- Suitable for both static and dynamic applications
- Includes all the features of the ER3000 Series (0.1% accuracy, onboard PID loop, free software)



**ER3100  
(WITH 44-4000 SERIES  
REGULATOR)**



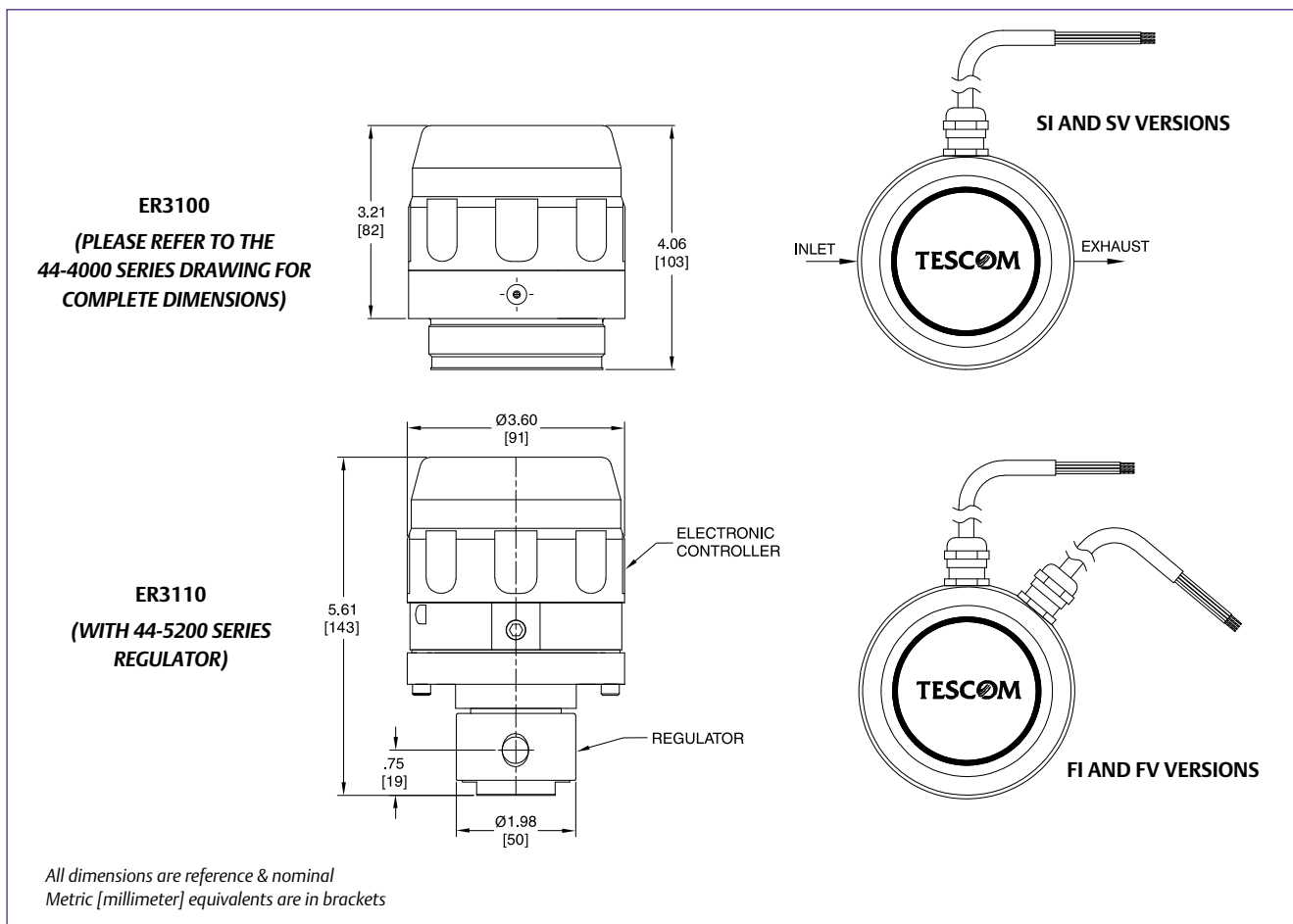
**ER3110  
(WITH 44-5200 SERIES  
REGULATOR)**

TESCOM ER3100 Series consists of the ER3000 Series controller and a 44-4000 Series pressure reducing regulator integrated together. Inlet pressures are up to 4500 psig / 310 bar with two different outlet ranges of 400 and 900 psig / 27.6 and 62.1 bar. The ER3100 Series may be ordered with a  $C_v = 0.7$  or a  $C_v = 2.0$ . This series offers fast accurate control in applications requiring continuous flow. Also available with the 44-5200 Series regulator (ER3110).

## Applications

- Gas assist laser cutting
- OEM equipment

## ER3100 Series Drawing



## ER3100 Series Part Number Selector

Repair Kits, Accessories & Modifications may be available for this product. Please contact TESCOM for more information.

Example for selecting a part number:

ER31	00	S	I	-	1
BASIC SERIES	BASE STYLE	CONFIGURATION OPTIONS	ANALOG SIGNALS		MODIFICATIONS
ER31	00 10	S - Standard F - Enhanced <sup>2</sup>	I - 4-20 mA 1-5 VDC V - 0-10 VDC		1 - Standard solenoid valves 2 - Low flow solenoid valves 1W - Pre-wired

For ER3100 Series, order one of the following regulators:<sup>1</sup>

- 44-40X1XXXXER042 (Outlet: 400 psig / 27.6 bar, C<sub>v</sub> = 0.7)
- 44-40X2XXXXER042 (Outlet: 750 psig / 51.7 bar, C<sub>v</sub> = 0.7)
- 44-40X1XXXXER046 (Outlet: 500 psig / 34.5 bar, C<sub>v</sub> = 2.0)
- 44-40X2XXXXER046 (Outlet: 900 psig / 62.1 bar, C<sub>v</sub> = 2.0)

For ER3110 Series, order one of the following regulators:<sup>1</sup>

- 44-52X5XX4N1X34 (Non-venting, Outlet: 500 psig / 34.5 bar, C<sub>v</sub> = 0.06)
- 44-52X5XX4N2X34 (Non-venting, Outlet: 500 psig / 34.5 bar, C<sub>v</sub> = 0.15)
- 44-52X5XX4V1X34 (Venting, Outlet: 500 psig / 34.5 bar, C<sub>v</sub> = 0.06)
- 44-52X5XX4V2X34 (Venting, Outlet: 500 psig / 34.5 bar, C<sub>v</sub> = 0.15)

1. The "X" in the regulator part number is to be finalized depending on desired soft goods and port configurations.
2. Enhanced models have extra analog inputs and outputs.



**WARNING!** Do not attempt to select, install, use or maintain this product until you have read and fully understood the TESCOM Safety, Installation and Operation Precautions.

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