

ER3100 Series

Electropneumatic Controllers/Motors

DER311923X012

Specifications

For other materials or modifications, please consult TESCO.

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)**



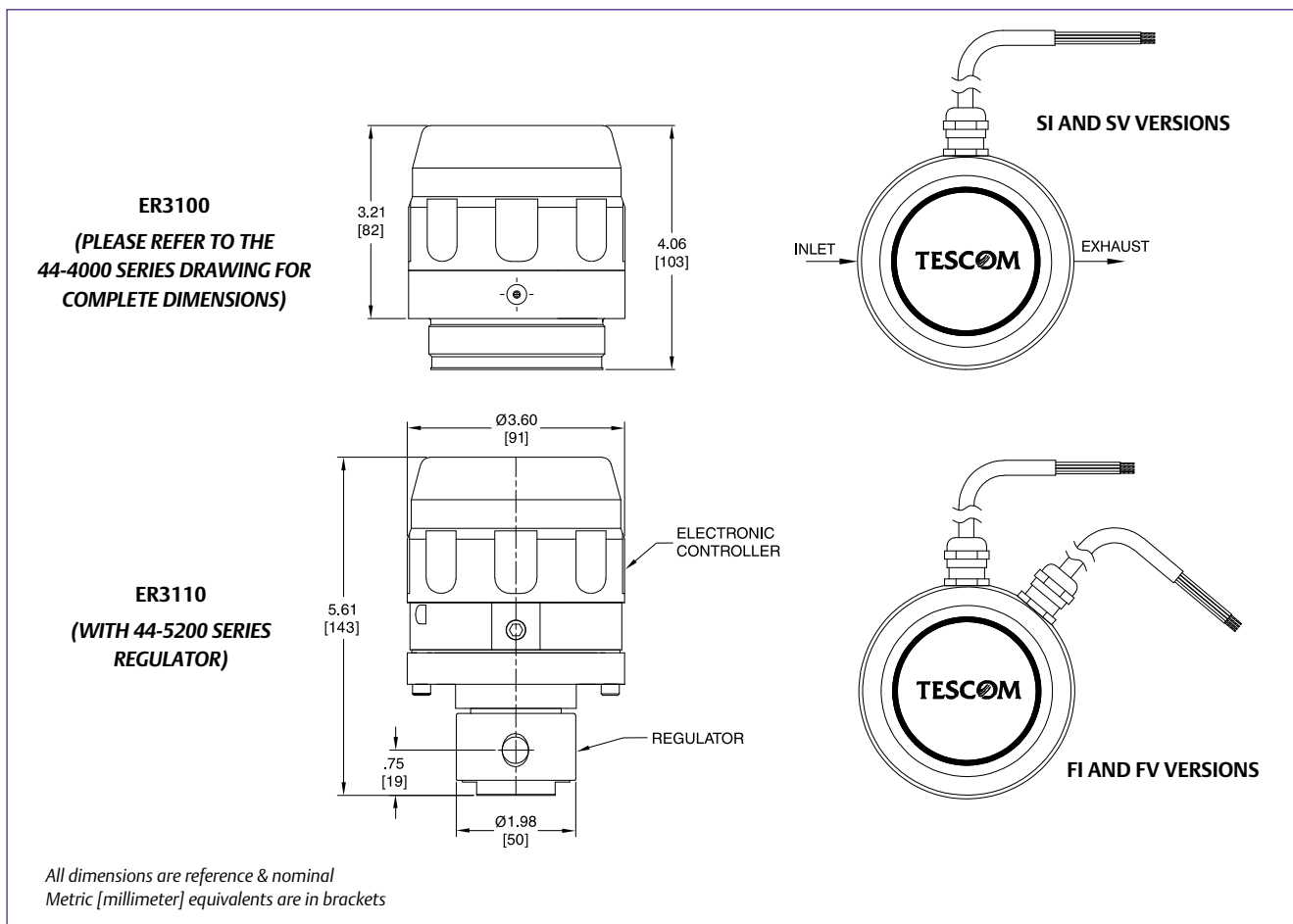
**ER3110
(WITH 44-5200 SERIES
REGULATOR)**

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 ²	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:¹

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

For ER3110 Series, order one of the following regulators:¹

- 44-52X5XX4N1X34 (Non-venting, Outlet: 500 psig / 34.5 bar, C_v = 0.06)
- 44-52X5XX4N2X34 (Non-venting, Outlet: 500 psig / 34.5 bar, C_v = 0.15)
- 44-52X5XX4V1X34 (Venting, Outlet: 500 psig / 34.5 bar, C_v = 0.06)
- 44-52X5XX4V2X34 (Venting, Outlet: 500 psig / 34.5 bar, C_v = 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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