

# INMETRO Hazardous Area Approvals for FIELDVUE™ DVC2000 Digital Valve Controller

This supplement provides INMETRO Hazardous Area Approval information for the DVC2000 digital valve controller instruction manual and quick start guide. Use this in conjunction with information provided in the instruction manual ([D103176X012](#)) or quick start guide ([D103203X012](#)).

INMETRO— National Institute of Metrology, Quality and Technology. INMETRO approval is accepted in Brazil.

Certain nameplates may carry more than one approval, and each approval may have unique installation/wiring requirements and/or conditions of “safe use”. These special instructions for “safe use” are in addition to, and may override, the standard installation procedures. Refer to the instruction manual or quick start guide for all other information regarding DVC2000 digital valve controllers.

---

**Note**

This information supplements the nameplate markings affixed to the product.

Always refer to the nameplate itself to identify the appropriate certification.

---

**▲ WARNING**

**Failure to follow these conditions of “safe use” could result in personal injury or property damage from fire or explosion, and area re-classification.**

---

Certificate Number: IEx 10.0004X

INMETRO Marking: Ex ia IIC T4/T5 Ga IP66  
T4:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$ ; T5:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$

Standards Used for Certification: NBR IEC 60079-0:2008, NBR IEC 60079-11:2009

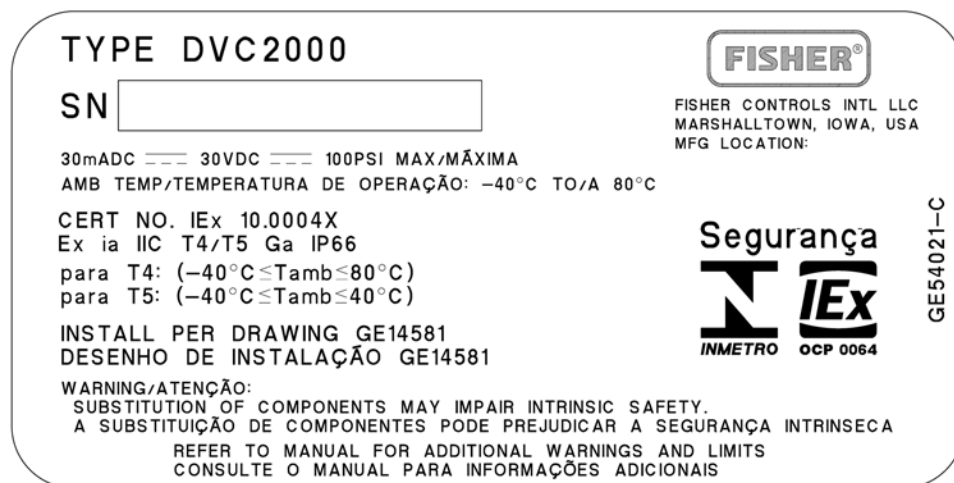
Special conditions for safe use (X):

- The equipment shall be connected in accordance with the manufacturer’s installation instructions to intrinsic safety barriers that satisfy the following parameters for each set of terminals;
- For Zone 0 (EPL Ga), due to the fact that the equipment housing is aluminum, precautions must be taken to prevent ignition caused by impact or friction;
- The acrylic display can only be cleaned with a damp cloth to prevent accumulation of electrostatic charges.

Electrical Paramameters:

Main 4-20 mA	Ui = 30 V, li = 130 mA, Pi = 1 W, Li = 0.55 mH, Ci = 10.5 nF
XMTR circuit	Ui = 28 V, li = 100 mA, Pi = 1 W, Li = 0 mH, Ci = 5 nF
Limit Switch 1 (LS1)	Ui = 16 V, li = 76 mA, Pi = 1 W, Li = 0 mH, Ci = 5 nF
Limit Switch 2 (LS2)	Ui = 16 V, li = 76 mA, Pi = 1 W, Li = 0 mH, Ci = 5 nF

Figure 1. Typical INMETRO Approval Nameplate



Neither Emerson, Emerson Process Management, nor any of their affiliated entities assumes responsibility for the selection, use or maintenance of any product. Responsibility for proper selection, use, and maintenance of any product remains solely with the purchaser and end user.

Fisher and FIELDVUE are marks owned by one of the companies in the Emerson Process Management business unit of Emerson Electric Co. Emerson Process Management, Emerson, and the Emerson logo are trademarks and service marks of Emerson Electric Co. All other marks are the property of their respective owners.

The contents of this publication are presented for informational purposes only, and while every effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available upon request. We reserve the right to modify or improve the designs or specifications of such products at any time without notice.

Emerson Process Management  
 Marshalltown, Iowa 50158 USA  
 Sorocaba, 18087 Brazil  
 Cernay, 68700 France  
 Dubai, United Arab Emirates  
 Singapore 128461 Singapore

www.Fisher.com