



# Certificate of Compliance

**Certificate:** 2580730

**Master Contract:** 255356

**Project:** 2641396

**Date Issued:** August 13, 2013

**Issued to:** Festo AG & Co. KG

Ruiterstrasse 82  
Esslingen, 73734  
Germany  
Attention: Mr. Dietmar Kohler

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*Joseph Kwong*

**Issued by:** Joseph Kwong, P. Eng.

## PRODUCTS

**CLASS 3221 01** - VALVES

**CLASS 3221 81** - VALVES - Certified to US Standards

General purpose, solenoid-operated, sub-base mounted valves, VSVA Series, followed by B, followed by T22C, T22CV, T32C, T32U, T32H, T32N, T32F, T32W, M52, B52, D52, P53AD, P53C, P53U, P53E, P53ED, P53EP or P53F, may be followed by A or M, may be followed by Z, may be followed by D or H, followed by A1, A2 or D1, followed by 1, followed by T1, may be followed by L, may be followed by APC, APP, ANC, ANP or APX, may be followed by 0.5, followed by 4 suffixes consisting of any combination of letters and/or numbers, followed by six suffixes consisting of any combination of letters and/or numbers.

Electrical Ratings: 24 VDC, Class 2

Power Consumption:

Model suffix "A1"	all 5/x valves	1.6 W (+)
	all 2/2 & 3/2 valves	1.3 W or 1.6 W (++)
Model suffix "A2"	all 5/x valves	1.6 W (+)
	all 2/2 & 3/2 valves	1.3 W or 1.6 W (++)
Model suffix "D1"	all 5/x valves	1.6 W



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all 2/2 & 3/2 valves 1.3 W or 1.6 W

+ - Solenoids may be provided with solid state reduction circuitry.

++ - Solenoids are provided with solid state reduction circuitry.

Coil Insulation Class: Class A

Fluid: Air or inert gas

Temperature Ratings: (Fluid & Ambient): -5°C to +50°C

Maximum Operating Pressure Differential: 1.0 MPa (10 bar, 145 psi)

Maximum External Body Pressure: 1.0 MPa (10 bar, 145 psi)

Notes:

1. The VSVA Series valves are component type for use in end applications where the suitability is to be determined by the CSA Group.
2. These valves are to be factory installed within a suitable enclosure or mounted in a guarded and protected location to prevent accidental contact in end-use product.
3. The valve connectors are intended to be factory-wired only.
4. The suitability of any mating connector must be determined in the end use product.
5. These valves are intended to be used on a regulated pressure system with the maximum ratings as noted under "RATINGS".
6. These valves are intended to be energized only from an approved 24 Vdc Class 2 source of supply.
7. The suitability of any mating fluid connector must be determined in the end product.
8. This valve is intended to be used in conjunction with air tubes with following outside dimensions:

Size ISO 01 (suffix A1):

Port	Air tube	Size thread	Factory Torque (Nm)
12, 14	4, 6, 8	G1/8, 1/8NPT	3
1, 2, 3, 4, 5	6, 8, 10	G1/4, 1/4NPT	6

Size ISO 02 (suffix A2):

Port	Air tube	Size thread	Factory Torque (Nm)
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12, 14	4, 6, 8	G1/8, 1/8NPT	3
1, 2, 3, 4, 5	6, 8, 10	G1/8, 1/8NPT	3
Size ISO 1 (suffix D1):			
Port	Air tube	Size thread	Factory Torque (Nm)
1, 2, 3, 4, 5	6, 8, 10	G3/8, 3/8NPT	10
12, 14	4, 6, 8	G1/8, 1/8NPT	3

#### **APPLICABLE REQUIREMENTS**

CSA Std C22.2 No. 139-10 - Electrically Operated Valves

UL Std No. 429 6th Ed. - Electrically Operated Valves



## *Supplement to Certificate of Compliance*

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*The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.*

### **Product Certification History**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
2641396	Aug 13, 2013	Added new valve functions.
2618639	Jun 3, 2013	Added 1.6W solenoids with SRC.
2580730	Jan 25, 2013	Original Certification