

Electrical Equipment for Explosive Atmospheres

Certificate of Type Verification

Applicant	TopWorx Inc.		
Applicant address	3300 Fern Valley Road Louisville, Kentucky 40213 United States of America	TEL	+1-502-969-8000
Manufacturer	1. TopWorx Inc. 2. Emerson Machinery Equipment (Shenzhen) Co. Ltd 3. Emerson Automation Fluid Control & Pneumatics Poland Sp. z o. o. (Emerson AFCP Poland Sp. z o.o.) 4. ASCO Valve (Shanghai) Co., Ltd 5. Ascoval Indústria e Comércio Ltda		
Manufacturer address	1. 3300 Fern Valley Road Louisville, Kentucky 40213 United States of America 2. 101 Building 2, COFCO Park, Honglang North 2nd Road, Xin'an Street Bao'an District, Shenzhen 51801 China 3. Kurezaki 132 Lodz 93-331 Poland 4. No. 480, Xin Miao No.3 Road Xin Qiao Town, Song Jiang District Shanghai 201612 China 5. Rua Goiatuba 81 Jardim Mutinga 06465-010 Barueri - SP Brazil	TEL	
Name of product Type	Switchboxes Type DXP and DXS		
Ex marking	Ex db IIC T6...T3 Gb Ex db IIB+H ₂ T6...T3 Gb Ex tb IIIC T85°C...T135°C Db		
Certificate No.	(ITRI)2021 第 07-00175X 號		
Date of first issue	August 30, 2021		
Date of Renewal	December 20, 2024		
Valid period	August 30, 2024 to August 29, 2027		
Standards:	IEC 60079-0 : 2017 IEC 60079-1 : 2014 IEC 60079-31 : 2013		
Ratings:	Up to 240 V, 15 A.		
Ambient temperature:	-60°C~+60°C (T6) -60°C~+75°C (T5) -60°C~+110°C (T4) -60°C~+175°C (T3) -50°C~+60°C (T85°C) -50°C~+75°C (T100°C) -50°C~+110°C (T135°C)		

Certificate issued by

Industrial Technology Research Institute
195 Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, 310401, Taiwan



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Applicant	TopWorx Inc.																				
Main components:	Lower casing(aluminum/stainless steel), upper casing(aluminum/stainless steel), shaft, switch, O-ring, flame arrester, indicator.																				
Type variants:	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>(1)</th> <th>(2)</th> <th>(3)</th> <th>(4)</th> <th>(5)</th> <th>(6)</th> <th>(7)</th> <th>(8)</th> <th>(9)</th> <th>(10)</th> </tr> </thead> <tbody> <tr> <td>DX</td> <td>P</td> <td>-</td> <td>*</td> <td>*</td> <td>1</td> <td>*</td> <td>*</td> <td>*</td> <td>B</td> </tr> </tbody> </table> <p>(1) Series- DX (2) Enclosure material- P : aluminum ; S : stainless 316SS (5) Area class- 1 : IIB+H₂ ; C : IIC (9) O-ring- B : BUNA ; E : EPDM ; S : Silicone S7395/S7426-60 ; V : VITON Column (3), (4), (6), (7), (8), (10) are not related to Ex protection.</p>	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	DX	P	-	*	*	1	*	*	*	B
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)												
DX	P	-	*	*	1	*	*	*	B												
Specific conditions of use:	<p>The assessment for cable entry devices is not included. For safe use, certified cable entry devices with proper type of protections shall be correctly fitted to maintain the integrity of specified protections.</p> <p>The IIC enclosure are excluded from use in carbon disulphide atmospheres.</p> <p>The air pressure to the valve block, when fitted, shall not exceed 10.0 bar.</p> <p>For ambient temperature above 110°C, the degrees of ingress protection IP66 and IP67 may not be maintained.</p> <p>The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.</p> <p>The hexagonal head cover screws are to be replaced only with stainless A2-70 or A4-80 screws to CNS 4234-1.</p> <p>Cover fasteners are to be tightened to a torque value of 10.85 Nm (8 ft/lbs) minimum. Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth.</p>																				
Routine tests:	The manufacturer shall conduct a routine overpressure test on each aluminum enclosure marked with ambient temperature -60°C at the pressures of 28 bar (Group IIC) or 19.1 bar (Group IIB+H ₂) for at least 10 s as required by Clause 16.1 of IEC 60079-1 : 2014.																				
Approval reference:	<p>The assessment of the above equipment is based on the review of IECEx Certificate of Conformity (IECEx SIR 07.0093X Issue 19) issued by CSA Group Testing UK Ltd (CSAE), United Kingdom and the associate test reports (GB/SIR/ExTR08.0031/00, GB/SIR/ExTR09.0066/00, GB/SIR/ExTR11.0263/00, GB/SIR/ExTR11.0298/00, GB/SIR/ExTR12.0194/00, GB/SIR/ExTR12.0234/00, GB/SIR/ExTR12.0317/00, GB/SIR/ExTR12.0318/00, GB/SIR/ExTR13.0334/00, GB/SIR/ExTR14.0112/00, GB/SIR/ExTR18.0097/00, GB/SIR/ExTR19.0053/00, GB/SIR/ExTR20.0142/00, GB/SIR/ExTR20.0214/00, GB/SIR/ExTR21.0088/00, GB/CSAE/ExTR21.0022/00, GB/SIR/ExTR23.0052/00, GB/SIR/ExTR23.0125/00, GB/SIR/ExTR24.0024/00, GB/SIR/ExTR24.0102/00).</p>																				
Certificate history:	<table style="width: 100%;"> <tr> <td style="width: 50%;">Issue 1 (B202100284)</td> <td style="width: 50%;">(2021-08-30)</td> </tr> <tr> <td>Issue 2 (B202400411)</td> <td>(2024-12-20)</td> </tr> </table>	Issue 1 (B202100284)	(2021-08-30)	Issue 2 (B202400411)	(2024-12-20)																
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