

# Electrical Equipment for Explosive Atmospheres

## Certificate of Type Verification

<b>Applicant</b>	TopWorx Inc.																
<b>Applicant address</b>	3300 Fern Valley Road Louisville, Kentucky 40213 United States of America	TEL	+1-502-969-8000														
<b>Manufacturer</b>	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.)																
<b>Manufacturer address</b>	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. Kurczaki 132 Lodz 93-331 Poland	TEL															
<b>Name of product Type</b>	Valvetop Switchbox D2-FF series																
<b>Ex marking</b>	Ex ib IIC T4 Gb Ex tb IIIC T80°C Db																
<b>Certificate No.</b>	(ITRI)2021 07-00216X																
<b>Date of first issue</b>	November 08, 2021																
<b>Date of Renewal</b>																	
<b>Valid period</b>	November 08, 2021 to November 07, 2022																
<b>Standards:</b>	IEC 60079-0 : 2007 IEC 60079-11 : 2006 IEC 60079-31 : 2008																
<b>Ratings:</b>	I.S Parameters : $U_i=30$ V, $I_i=380$ mA, $P_i=1.5$ W, $C_i=5$ nF, $L_i=10$ $\mu$ H FISCO Parameters : $U_i=17.5$ V, $I_i=380$ mA, $P_i=5.32$ W, $C_i=5$ nF, $L_i=10$ $\mu$ H IP67																
<b>Ambient temperature:</b>	-20°C ~ +50°C																
<b>Main components:</b>	Lower casting, upper casting, shaft, Fieldbus control unit, piezo pilot valve, limit switch, O-ring, indicator.																
<b>Type variants:</b>	<table border="1" style="width: 100%; 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> </tr> </thead> <tbody> <tr> <td>DXP</td> <td>F</td> <td>F</td> <td>0</td> <td>*</td> <td>*</td> <td>*</td> </tr> </tbody> </table> <p>(1)Enclosure: DXP : coated aluminum ; DXS : stainless steel DXR : glass fiber reinforced resin (2)Devices : F : potentiometer assembly fitted ; L : GO limit switch fitted ; P : potentiometer and GO limit switches fitted (7)Piezo pilot valve : 0/blank : not fitted ; P : 6 V fail O/C Column (3), (4), (5), (6) are not related to Ex protection.</p>			(1)	(2)	(3)	(4)	(5)	(6)	(7)	DXP	F	F	0	*	*	*
(1)	(2)	(3)	(4)	(5)	(6)	(7)											
DXP	F	F	0	*	*	*											

Certificate issued by

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



# Electrical Equipment for Explosive Atmospheres

## Certificate of Type Verification

Certificate No.: (ITRI)2021-07-00216X

Applicant	TopWorx Inc.
Specific conditions of use:	<p>When fitted, only non-combustible fluids may be used in the pneumatic circuit. The equipment shall only be installed in a location where there is a low risk of mechanical damage. The enclosure constitutes a potential electrostatic risk and must only be cleaned with a damp cloth. Cable glands or blanking plugs for enclosure entries are not provided with the equipment. For safe use, certified cable glands or blanking plugs with proper type of protections shall be correctly fitted to maintain the integrity of specified protections.</p>
Routine tests:	None
Approval reference:	The assessment of the above equipment is based on the review of IECEx Certificate of Conformity (IECEx BAS 11.0022X Issue 3) issued by SGS BASEEFA Ltd (SGS BASEEFA), UK and the associate test report (GB/BAS/ExTR11.0276/00).
Certificate history:	Issue 1 (B202100336) (2021-11-08)

Certificate issued by

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

