

1 United Kingdom 'Ex' Conformity Assessment

2 Product Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended by UKSI 2019:696)

3 Certificate Number: **ExVeritas 22UKEX1420X** Issue: **0**

4 Product: Pneumatic Piston Actuator SP-... Series

5 Manufacturer: IMI Critical Engineering Korea

6 Address: 14 Dangdong 2- ro, Munsan-eup, Paju-si, Gyeonggi-do, Korea Republic of, 10816

7 This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to. The assessments are recorded in ExVeritas project file number EXV4197A.


8 The product has been assessed against the following Standards and found to comply:

EN ISO 80079-36:2016 **EN ISO 80079-37:2016**

9 If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

10 ExVeritas takes no responsibility for the validity of any information or data supplied by the manufacturer on which parts of the assessment may be based upon.

11 The marking of the equipment shall include the following:

 II 2 G Ex h IIB T6 Gb X

For all options

 II 2 G Ex h IIB T6 Gb

$-29^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

For standard product or

 II 2 G Ex h IIB T6 Gb

$-45^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

For optional product



No. 8613

On behalf of ExVeritas



S Clarke CEng MSc FIET
Managing Director

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Schedule

12 Description of Product

Pneumatic Piston Actuator Serial SP basically consists of a cylinder, the internal piston can be exposed to pressure alternating. This leads to a movement of the actuator stem which can be used for control of valves or flaps.

Type Codes:

SP-113/SP-200/SP-313

The numbers refer to positioning force of the actuator, the mechanical dimensions depend on that differentially (see technical documentation)

Mechanical data:

Operating medium: compressed air

Set pressure: 7 bar

Design pressure: 10 bar

Max stroke: 100 to 300mm (depends on type)

13 Descriptive Documents

13.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R4197/A/1	24-11-2022	0	Initial issue of the Prime Certificate

13.2 Compliance Drawings:

Title:	Drawing No.:	Rev. Level:	Date:
Type Examination Certificate	TÜV-A 16ATEX0009X	1	23.01-2017
Letter on the change of the company name	Company name change	-	02.209
Cover sheet for the "Technical Documentation according ATEX 2014/34/EU Annex III EC-Type Examination" for both series of actuators MSD III and SP	TCF-0	0	24.06.2019
Contents of the Technical Documentation Actuators MSD III & SP (list of documents)	TCF-Content_MSDIII&SP	2	31.05.2019
General description, Operation and application of control valves and actuators	TCF-3	2	-
Product Catalogue SP Series pneumatic double acting Piston actuator	TCF-4.2	-	-
Product specification, Construction details	TCF-5	4	-
Drawings/Parts list for SP series	TCF-6.2 SP Actuator	-	-
Essential Health & safety Requirements	TCF-8	5	23.04.2019
Product compliance to harmonised protection Standards	TCF-9.0	4	23.01.2019
Hazard Identification and Risk Assessment for Pneumatic Actuators MSD III & SP	TCF-9.2_RA-20	4	-
Ignition Risk assessment for oil and gas service valves – SP actuators	TCF-9.4 RA-21-1	5	-
Product compliance to harmonised protection Standards - EN ISO 80079-36: 2016	TCF-9.5_MSDIII & SP	0	22.04.2019
Product compliance to harmonised protection Standards - EN ISO 80079-37: 2016	TCF-9.6_MSDIII & SP	0	16.05.2019
Inspection and Testing SP	TCF_10 SP	1	11.06.2016
Test Report	CCI SP Piston Actuator Prototype Test Report	1	37.05.2014

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Title:	Drawing No.:	Rev. Level:	Date:
Surface temperature of actuator models MSD III & SP Piston	TCF_10-1	2	28.05.2019
SP Temperature check on cylinder, Lower and Upper end cap	SP Temperature check on cylinder, Lower and Upper end cap	-	03.11.2015
Standard quality plan	QA-DWI-002	3	01.02.2019
Standard inspection and test plan	QA-DWI-003	2	01.02.2019
References to European Directives, Standards & Codes	TCF-12	3	23.04.2019
Operations & maintenance manual	Piston Actuator Operations and Maintenance Manual	-	18.03.2019
Declaration of conformity with European directives	Declaration of conformity with European directives	-	-
UKCA DoC for Actuator	UKCA DoC for Actuator	-	-
Name plate	7207153000	A	25/Oct/2022
Test reports and certificates on particular components	Various documents	-	-

14 Specific Conditions of Use

14.1 Special Conditions for Safe Use

- The temperature class of Pneumatic Piston Actuator Serial SP... Series is rated T6 for:
 - Standard product versions in an ambient temperature range of $-29^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$ and
 - Optional product in an ambient temperature range of $-45^{\circ}\text{C} \leq T_a \leq +80^{\circ}\text{C}$

Remark:

The temperature class of the complete valve assembly (actuator combined with valve) depends significantly on the medium temperature and shall be determined for each single case of application and marked accordingly.

This is not covered by this certificate.

14.2 Routine tests

- None

15 Essential Health and Safety Requirements

Essential Health and Safety Requirements are addressed by the standards listed in section 8 and where required the report listed in section 13.1

The manufacturer shall inform the ExVeritas of any modifications to the design of the product described by this schedule.

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