



Statement for application of directive 2014/34/EU for Equipment and Components intended for Use in Potentially Explosive Atmospheres

Equipment/Component type:	Manual Ball Valve (Two-Piece Ball Valves, Three-Piece Ball Valves, One-Piece Flange Ball Valves, Two-Piece Flange Ball Valves, 3-Way Ball Valves)
Manufactured and submitted for Examination:	Mars Valve Co., Ltd.
Address:	No.83, Sec. 1, Chong de 8th Rd., Beitun Dist., Taichung City 406, Taiwan, R.O.C.
Basis for Examination:	Annex II of the ATEX directive 2014/34/EU
Standard Basis:	ISO 80079-36: 2016; ISO 80079-37:2016
Intended Use:	Gas group IIB, Zone 1, Zone 2; Zone 21, Zone 22,
Offer Number:	114071466
Test Result:	After final examination and design changes, the equipment was found not to be in the scope of the ATEX directive 2014/34/EU. It has no potential ignition sources.

<u>Expert(s):</u>	<u>Title:</u>	<u>Signature:</u>	<u>Date:</u>
Mr. Morning Lee	Engineer Explosion Protection Industry Services Greater China		2018-03-08

<u>Reviewer:</u>	<u>Title:</u>	<u>Signature/Stamp:</u>	<u>Date:</u>
Mr. Sean Lee	Section Manager Explosion Protection Industry Services Greater China		2018-03-20

1) Equipment/Component type:

Type	Model
Two Piece Ball Valves	Series 20 / 22 / 24 / 28
Three Piece Ball Valves	Series 50 / 50SN / 55 / 55A / 55SN / 66 / 70 / 77 / 77SN / 77ESN / 79 / 83 / 83C / 83SN / 88 / 88SN / 88X
One Piece Flange Ball Valves	Series 91D / 99
Two Piece Flange Ball Valves	Series 90 / 90C / 90D / 90X / 90DX / 96D
3-Way Ball Valves	Series 30M / 33 / 33SN / 36 / 39 / 39M

2) Description:

The manual ball valve is used in the pipe line to control the flow of the media. There are five types of the ball valves for various industrial applications. The detailed information is referred to the technical documents and user manual.

Documentation: (As referred to the technical documentation file stored at TÜV Rheinland archives.)

Nr.	Description	Date	Pages	Version
1.	Drawings	2015-04-14	51	-
2.	Drawing SERIES 88X	2017-12-07	2	-
3.	Drawing SERIES 77ESN	2018-01-05	2	-
4.	Name plate drawing	2015-04-14	2	-
5.	Product description	2018-01-05	8	Rev.1
6.	ATEX Valve Hazard Analysis Report	2017-12-20	8	Rev. 1
7.	ISO 9001:2008 Certificate	2015-07-13	1	-
8.	Anti-static test report	2015-07-20	3	-
9.	Handle sleeve surface area calculation	2018-01-05	1	-
Manual of Ball Valves				
10.	User manual Series 20	2014-12-26	3	-
11.	User manual Series 22	2015-02-26	3	-
12.	User manual Series 24	2005-09-07	4	-
13.	User manual Series 28	2013-09-24	3	-
14.	User manual Series 30M	2015-07-28	11	Rev. 1
15.	User manual Series 33	2014-12-26	5	-
16.	User manual Series 33SN	2015-01-15	5	-
17.	User manual Series 36	2009-05-07	7	-
18.	User manual Series 39	2006-01-03	4	-
19.	User manual Series 39M	2014-12-26	4	-
20.	User manual Series 50	2014-12-25	10	-
21.	User manual Series 50SN	2009-04-15	3	-
22.	User manual Series 55	2014-12-25	8	-
23.	User manual Series 55A	2014-12-25	9	-
24.	User manual Series 55SN	2015-04-13	3	-
25.	User manual Series 66	2015-01-15	5	-

Nr.	Description	Date	Pages	Version
26.	User manual Series 70	2004-06-29	4	-
27.	User manual Series 77	2014-12-26	8	-
28.	User manual Series 77SN	2015-01-15	3	-
29.	User manual Series 77ESN	2018-01-05	5	-
30.	User manual Series 79	2004-06-25	4	-
31.	User manual Series 83	2014-12-26	6	-
32.	User manual Series 83C	2011-07-08	8	-
33.	User manual Series 83SN	2015-01-15	4	-
34.	User manual Series 88	2014-12-26	6	-
35.	User manual Series 88SN	2015-01-15	4	-
36.	User manual Series 88X	2017-12-05	6	-
37.	User manual Series 90	2014-12-26	5	-
38.	User manual Series 90C	2015-07-24	8	Rev. 1
39.	User manual Series 90D	2014-12-26	6	-
40.	User manual Series 90DX	2015-09-18	6	-
41.	User manual Series 90X	2015-09-18	5	-
42.	User manual Series 91D	2014-12-26	4	-
43.	User manual Series 96D	2014-12-29	5	-
44.	User manual Series 99	2014-12-26	5	-
Material Certificate				
45.	Ball, CF8M	2014-10-22	2	-
46.	Belleville Washer, SS301	2015-03-23	1	-
47.	Body, CF8M	2015-04-29	3	-
48.	Body, WCB	2012-12-04	3	-
49.	End Cap, CF8M	2013-06-21	3	-
50.	End Cap, WCB	2013-08-03	2	-
51.	Handle sleeve, VINYL	2015-07-28	1	-
52.	Handle, SS304	2015-01-05	2	-
53.	O-ring, VITON	2013-08-03	2	-
54.	Stem, SS316	2013-03-21	1	-
55.	Teflon-50%S.S.+PTFE	2014-06-18	1	-
56.	Teflon-DELRIN	-	1	-
57.	Teflon-GRAPHITE-TYPE H/HL	-	2	-
58.	Teflon-PCTFE	2013-03-08	2	-
59.	Teflon-PEEK	-	1	-
60.	Teflon-PTFE	2014-02-04	2	-
61.	Teflon-RTFE	2014-08-13	1	-
62.	Teflon-TFM 1600	2014-03-25	2	-

3) Technical Data:

The detailed information is referred to the technical documentation.

4) Marking:

The marking with following information's:

- Name / address

- Type / Size

- Serial Number

- Date of manufacturing

directive
- ATEX 2014/34/EU Marking: No ATEX 2014/34/EU marking is allowed (product is excluded from the
2014/34/EU)

- Suggested Marking: For use in Gas group IIB, Zone 1, Zone 2; Zone 21, Zone 22

5) Test results, Conditions for the safe usage or safe application / application instructions:

1. After final examination and design changes, the equipment was found not to be in the scope of the directive 2014/34/EU. It has no potential ignition sources.
2. When installed, avoid direct impact to the valve which may damage the valve or produce ignition source in the hazardous area.
3. The equipment shall be connected to the grounding system when installed.
4. Make sure there is good electrical continuity to earth ground to prevent static discharge after installation completed.
5. The user manual shall be observed for installation, maintenance and repair of the equipment.
6. The equipment can be used in gas- or dust- explosive atmospheres, the equipment is forbidden to use in Zone 0 and Zone 20.
7. The equipment can be used in gas or dust explosive atmospheres. The equipment can be used in zones classified as Gas group IIB, Zone 1, Zone 2; Zone 21, Zone 22.
8. For other operation conditions or information, refer to the user manual provided with the equipment.
9. **(This warning or an equivalent warning label is required on the equipment)**

WARNING

THE EQUIPMENT CAN NOT BE INSTALLED IN FOLLOWING APPLICATIONS

Gas group IIC, mining environment (Group I) and dust explosive atmospheres Zone 20