



# MARS VALVE CO., LTD.

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## Declaration of Conformity Atex – directive 94/9/EG for units and safety systems in use of areas with a potential risk for an explosion

Mars Ball Valves (1,-2,-3 or 4 piece Shutoff- or Multiportvalves)  
Series 33, 36, 39, 39M, 22, 24, 70, 77, 79, 83, 88, 90, 90D, 91D, 99  
Diameter 8-150mm (1/8" up to 6"), in Stainless or Carbon Steel  
The valves will be installed in piping systems

For above mentioned valves we have done a risk analysis according EN 13463-1:2001, supported by SWISS TS, CH-8304 Wallisellen, Switzerland.

The results show, that the valves do not have an own potential spark-source, if they are used as per definition.

Therefore, the valves don't fall into the range of applications of Atex 94/9/EG and are not allowed to be marked as them.

### The valves can be installed in possible explosive atmospheres as follows:

- If there is the risk due to the application, that inside the valve can be a inflammable atmosphere zone 0 in gas-group IIC, the valves have to be equiped with conductive seat rings of Mars. In other zones and gas-groups the ball valves can be equiped with standard seat rings of Mars.
- With plastic sleeves on the handle in group II, zone 1, 2 of the gas-group IIA and IIB, and also in zones 20,21,22 with an ignition-power bigger than 3 mJ.
- Without handle-sleeve (handle in blank metal) in group II, zone 0, 1, 2 in all the gas-groups, as also in zone 20, 21 and 22.

If the valves will be maintained, it is due to the potential-equalising-process only allowed to use original spare parts.

All the informations for the correct use have to be taken from the installation and maintenance instructions.

The valves can be operated manually by lever or can be mechanically or electrically actuated.

If the valves are driven with pneumatic or electric actuator, the whole unit has to be undertaken the conformity-analysis according to Atex 94/9/EG.

place and date

stamp of the manufacturer

signature of the manufacturer

10.-24-2005  
Taichung

