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# **Declaration of conformity** Directive 2014/34/UE "Potentially explosive atmosphere "



The company:

### WAIRCOM MBS S.p.A. Via Piemonte, 13/15 - 20070 Vizzolo Predabissi (MI) - Italy Phone: +39 02.98.23.08.21 Fax: +39 02.98.23.08.30 Email/web: info@waircom-mbs.com - www.waircom-mbs.com

Declares under its own responsibility that the below products:

Cylinders series: U, P, X, XT, XL, CPA, BU, HB, Z, AU, AP, AX, C, BG Valves series: SK, S8, EK, UK, UDS-ISO, M, CA, EL, MEV, MEK, UL, US, DM, UM, PC Air treatment series: UZ, EZ Coils series: USB, USBG, USBG2 Connectors series: MEK192/N, USR102/N9, ULR1B

are comply with the following EC Directive:

**2014/34/UE** of the european parliament and of the council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast) (Text with EEA relevance)

and also the above-mentioned products fully comply, or just for applicable parts, to the following standards:

## EN IEC 60079-0

Explosion atmospheres - Part 0: Equipment - General requirements

### EN IEC 60079-15

Explosion atmospheres - Part 15: Equipment protection by type of protection "n"

## CEI EN 60079-31

Explosion atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

## UNI CEI EN ISO 80079-36

Explosion atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements

### UNI CEI EN ISO 80079-37

Explosion atmospheres - Part 37: Non-electrical equipment for explosive atmospheres – Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k".

The technical file is kept at Eurofins Product Testing Italy - Via Cuorgnè, 21, 10156, Torino, Italy. Receipt No. "EPT 21 ATEX 4168" The identification number of the technical file is "INT-2020"

#### WAIRCOM M.B.S. S.p.A.

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INDUSTRIAL

PNEUMATIC COMPONENTS

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	CYLINDERS SERIES:	ATEX MARKING:
U	Cylinders to ISO 6432 standard	
Р	Round cylinders	⟨E͡͡͡͡͡͡͡͡ːːːːːːːːːːːːːːːːːːːːːːːːːːːːː
XL	Tie rod cylinders to ISO 15552 standard	
СРА	Twin rod cylinders	
BU	Compact cylinders to AFNOR NF E49-004-1 and NF E49-004-2 standards	
HB	Screwed –head cylinders	
AX	Stainless steel cylinders to ISO 15552 standard	
AU	Stainless steel cylinders to ISO 6432 standard	
AP	Stainless steel round cylinders	
Z	Rodless cylinders	⟨Ex⟩ II 2G Ex h IIC T5 Gb -20°C≤Ta≤80°C
X	"Clean profile" cylinders to ISO 15552 standard	Ex II 2G Ex h IIC T5 Gb -35°C≤Ta≤80°C II 2D Ex h IIIC T100 °C Db
хт	"Michey Mouse" profile with TEE-slot cylinders to ISO 15552 standard	
BG	Compact guided cylinders	/┌─ \ II 3G Ex h IIC T5 Gc -20°C≤Ta≤80°C
С	Cartridge cylinders	⟨Ex⟩ II 3G Ex h IIC T5 Gc -20°C≤Ta≤80°C II 3D Ex h IIIC T100 °C Dc
	VALVES SERIES	ATEX MARKING:
EK*	Spool valves pilot and solenoid actuated Spool valves manually and mechanically actuated	
UK	Poppet valves pilot and solenoid actuated	
••••		⟨Ex⟩ II 2G Ex h IIC T5 Gb -20°C≤Ta≤60°C II 2D Ex h IIIC T100°C Db X
CA	Poppet valves pilot and solenoid actuated	Æx II 2G Ex h IIC T5 Gb -20°C≤Ta≤60°C II 2D Ex h IIIC T100°C Db X
CA M	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated	⟨Ex⟩ II 2G Ex h IIC T5 Gb -20°C≤Ta≤60°C II 2D Ex h IIIC T100°C Db X
CA M EL	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated	
CA M EL MEV*	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated Pneumatic logic elements	/
EL MEV* MEK*	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated Pneumatic logic elements Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard	
CA M EL MEV* MEK* SK*	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated	II 2G Ex h IIC T5 Gb -10°C≤Ta≤60°C II 2D Ex h IIIC T100°C Db X
	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated Pneumatic logic elements Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard Spool compact valves pilot and solenoid actuated Spool compact valves pilot and solenoid actuated	/
CA M EL MEV* MEK* SK* UDS-ISO* C/*	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Valves to ISO5599/1 standard pilot and solenoid actuated	$\langle \widehat{Ex} \rangle \parallel 2G Ex h \parallel C T5 Gb -10^{\circ}C \leq Ta \leq 60^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$ $   2G Ex h \parallel C T5 Gb -20^{\circ}C \leq Ta \leq 50^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$
CA M EL MEV* MEK* SK* UDS-ISO* C/* PC	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated Pneumatic logic elements Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard Spool compact valves pilot and solenoid actuated Spool compact valves pilot and solenoid actuated Valves to ISO5599/1 standard pilot and solenoid actuated Direct acting solenoid valves with sleeve Ø9 mm	II 2G Ex h IIC T5 Gb -10°C ≤ Ta ≤ 60°C         II 2D Ex h IIC T100°C Db X         II 2G Ex h IIC T5 Gb -20°C ≤ Ta ≤ 50°C         II 2D Ex h IIC T100°C Db X         II 2D Ex h IIC T100°C Db X
CA M EL MEV* MEK* SK* UDS-ISO* C/* PC MEV**	Poppet valves pilot and solenoid actuated Poppet valves manually and mechanically actuated Minivalves manually and mechanically actuated Pneumatic logic elements Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard Spool compact valves pilot and solenoid actuated Spool compact valves pilot and solenoid actuated Valves to ISO5599/1 standard pilot and solenoid actuated Direct acting solenoid valves with sleeve Ø9 mm Valves pedal actuated	$\langle \widehat{Ex} \rangle \parallel 2G Ex h \parallel C T5 Gb -10^{\circ}C \leq Ta \leq 60^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$ $   2G Ex h \parallel C T5 Gb -20^{\circ}C \leq Ta \leq 50^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$
CA M EL MEV* MEK* SK* UDS-ISO* C/* PC MEV** MEV**	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard	$\overbrace{\textbf{Ex}}^{\text{II}} \begin{array}{ c c c c } & 2G \ \text{Ex} \ h \ \text{IIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 60^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c c } & 12G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}20^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c } & 12G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c } & 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline \end{array} \end{array}$
CA M EL MEV* MEK* SK* UDS-ISO* C/* PC MEV** MEK** SK**	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated	$\langle \widehat{Ex} \rangle \parallel 2G Ex h \parallel C T5 Gb -10^{\circ}C \leq Ta \leq 60^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$ $   2G Ex h \parallel C T5 Gb -20^{\circ}C \leq Ta \leq 50^{\circ}C$ $   2D Ex h \parallel C T100^{\circ}C Db X$
CA M EL MEV* MEK* SK* UDS-ISO* C/* PC MEV** MEK** SK** S8	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated	$\overbrace{\textbf{Ex}}^{\text{II}} \begin{array}{ c c c c } & 2G \ \text{Ex} \ h \ \text{IIC} \ \text{T5} \ \text{Gb} \ \text{-10}^{\circ}\text{C} \leq \text{Ta} \leq 60^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100}^{\circ}\text{C} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{C}} 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-20}^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100}^{\circ}\text{C} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{C}} 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-10}^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & \overbrace{\textbf{II}}^{\text{C}} 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-10}^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & \overbrace{\textbf{II}}^{\text{C}} 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T100}^{\circ}\text{C} \ \text{Db} \ \text{X} \\ \hline \end{array}$
CA M EL MEV* MEK* SK* UDS-ISO*	Poppet valves pilot and solenoid actuated         Poppet valves manually and mechanically actuated         Minivalves manually and mechanically actuated         Pneumatic logic elements         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Spool compact valves pilot and solenoid actuated         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Direct acting solenoid valves with sleeve Ø9 mm         Valves pedal actuated         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated and to ISO 15407-2 standard         Spool compact valves pilot and solenoid actuated         Manifold mounting of valves with multi-pin connection	$\overbrace{\textbf{Ex}}^{\text{II}} \begin{array}{ c c c c } & 2G \ \text{Ex} \ h \ \text{IIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 60^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c c } & 12G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}20^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c } & 12G \ \text{Ex} \ h \ \text{IIIC} \ \text{T5} \ \text{Gb} \ \text{-}10^{\circ}\text{C} \leq \text{Ta} \leq 50^{\circ}\text{C} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Db} \ \text{X} \\ \hline & \overbrace{\textbf{II}}^{\text{Ex}} \begin{array}{ c } & 2G \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Cbx} \\ \hline & 11 \ \text{2D} \ \text{Ex} \ h \ \text{IIIC} \ \text{T100^{\circ}\text{C}} \ \text{Dbx} \\ \hline \end{array} \end{array}$

\*\* with 15 mm solenoids

	FRL SERIES	ATEX MARKING:
UZ*	FRL G1/4"	ÆX II 2G Ex h IIC T5 Gb -10°C≤Ta≤50°C II 2D Ex h IIIC T100 °C DbX
EZ*	FRL G3/8" – G1/2" – G1"	

\* exclusively in their not-electrical part \*\* with 15 mm solenoids

	COILS SERIES	ATEX MARKING:
USB	Coils side 22 mm for solenoid valves with sleeve Ø9 mm	K X II 3G Ex nA IIC T4 Gc -30°C≤Ta≤40°C II 3D Ex tc IIIC T135°C IP65 Dc
USBG	Coils side 30 mm for solenoid valves with sleeve Ø9 mm	
USBG2	Coils side 30 mm for solenoid valves with sleeve Ø9 mm	KX II 2G Ex mb IIC T5 Gb -50°C≼Ta≼40°C II 2D Ex tb IIIC T95°C IP65 Db
	CONNECTORS SERIES	ATEX MARKING:
MEK192/N	Connectors to DIN 43650-C standard	
USR102/N9	Connectors to DIN 43650-B standard	Ex II 2G IIC T6 Gb II 2D Ex tb IIIC T85°C IP65/IP67 Db
ULR1B	Connectors to DIN 43650-A standard	

Vizzolo Predabissi (MI) ) Italy, 02/12/2020. The legal rapresentative

Waircom-MBS S.p.A. Persole Abele Bertola