



# MEPSAN SB2 SUBMERSIBLE PUMP

PROPERTIES LADVANTAGES



บริษัท เอ็มที่อี้ จำกัด

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## SB2 SUBMERSIBLE PUMPS

Mepsan has been manufacturing submersible pumps since 2000.

Mepsan submersible pumps are developed by Mepsan R&D engineers since 2007

Mepsan has started to SB2 submersible pump project in 2009





# Advantages of SB2 Submersible Pumps

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Service installation with WIREBRIDGE provides extra security against operating errors







## SB 2 SUBMERSIBLE PUMP ATEX



SB2 submersible pump is suitable for both straight pipe and telescopic tube. This property is specified in the 15. article in the ATEX certificate. Some firms doesnt specifies this property. For this reason telescopic pipe cannot be used and this makes ATEX certificate is invalid.

### DESCRIPTION OF THE SUPPLEMENTARY CERTIFICATE

- Addition of new head of discharge system made of a flameproof junction box including two compartments connected with a cable bridge joint system.
- Addition of a mechanical telescopic piping system for the connection between pump part and head of discharge made of two concentric pipes adjustable length.
- Normative update according to EN 60079-0:2009 and EN 60079-1:2007

The examination and test results are recorded in confidential report N° 113784-626279.



- DE TYPE
- 2 Appareil ou système de protection destiné à être utilisé en atmosphères explosibles (Directive 94/9/CE)
- 3 Numéro de l'avenant LCIE 10 ATEX 3012 X / 01
- 4 Appareil ou système de protection :

SB Type:

5 Demandeur : Mepsan Petrol Cihazlari Sanayi Ve Ticaret

### 15 DESCRIPTION DE L'AVENANT

Ajout d'une tête de refoulement composée d'une enveloppe antidéflagrante incluant deux compartiments connectés par un système de passage de câble.

 Aiout d'un système télescopique de conduit mécanique pour le raccordement entre la pompe et la tête de refoulement, composé de deux conduits concentriques ajustables en longueur.

- Mise à jour normative selon EN 60079-0:2009 et EN 60079-1:2007

Les résultats des vérifications et essais figurent dans le

rapport confidential N° 113784-626279. Paramètres spécifiques du ou des modes de protection

1 AVENANT D'ATTESTATION D'EXAMEN CE 1 SUPPLEMENTARY EC TYPE EXAMINATION CERTIFICATE

> 2 Equipment or protective system intended for use in potentially explosive atmospheres (Directive 94/9/EC)

3 Supplementary certificate number LCIE 10 ATEX 3012 X / 01

4 Equipment or protective system

SB... Type:

5 Applicant: Mepsan Petrol Cihazlari Sanayi Ve Ticaret

### 15 DESCRIPTION OF THE SUPPLEMENTARY CERTIFICATE

flameproof junction box including two compartments connected with a cable bridge joint system.

- Addition of a mechanical telescopic piping system for the connection between pump part and head of discharge made of two concentric pipes with adjustable length. Normative update according to EN 60079-0:2009 and

EN 60079-1:2007 The examination and test results are recorded in confidential

Specific parameters of the concerned protection mode

Туре	Puissance/Power (Kw)	Tours minutes	per	Tension/Voltage (V)		Fréquence/Frequency (Hz)
SB 3	1.1	2850		380/415	50	Triphasė/Three phases
SB 3	1.1	2850		220/230	50	monophasé/Single phase
SB 4	1.5	<b>≠</b> 2850		380/415	50	Triphasé/Three phases
SR 5	1.8	2850		380/415	50	Trinhacá/Three nhacec

Le marquage doit être : Mepsan Petrol Cihazlari Sanayi Ve Ticaret A.S. Adresse ·

Année de fabrication :

€D || 2 G Ex d IIB T6 Gb

AVERTISSEMENT - NE PAS OUVRIR SOUS TENSION

Fontenay-aux-Roses, le 2 0 NOV. 2012

The marking shall be : Mepsan Petrol Cihazlari Sanayi Ve Ticaret A.S Address :

Year of construction : € 112 G

report N° 113784-626279.

Fx d IIB T6 Gb LCIE 10 ATEX 3012 X AVERTISSEMENT - NE PAS OUVRIR SOUS TENSION

Responsable de Certification ATEX

Page 1 sur 2 01A-Annexe III\_CE\_lyp\_app\_av - rev3.DOC Tel. +33 1 40 95 60 60 Société extr Actions Simulifiére Laboratoire Central Fax : #33 1 40 95 86 56 au capital de 15 7/5 98 i € des Industries Electriques 92266 Fontenay-aux-Roses cedex RCS Nanterre B (08/363/17) Une société de Bureau Veritas Benne



## PROPERTIES OF SB2 SUBMERSIBLE PUMP

- SB2 submersible pump provides easy service thanks to new design
- The engine of the pump, being used at the field, can be easily removed from the head of pump for maintenance





# PROPERTIES OF SB2 SUBMERSIBLE PUMP

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Electrical connection is provided with soket in new design submersible pump



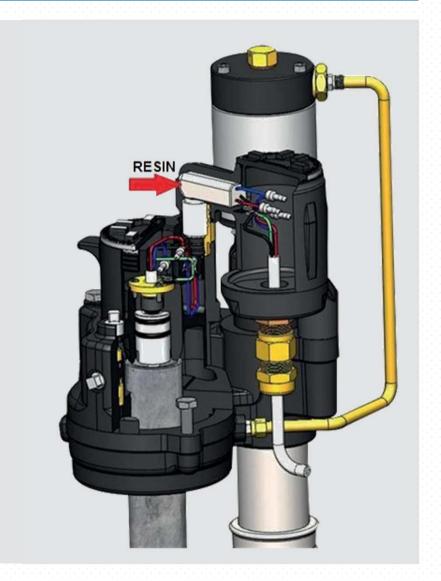




# ADVANTAGES OF SB2 SUBMERSIBLE PUMPS

Even if bottom seals is damaged in anyway, leakage is prevented with the advancing of WIREBRIDGE connection







# PROPERTIES OF SB 2 SUBMERSIBLE PUMPS

Electrical connection is provided with soket in new design submersible pumps







# SB 2 PROPERTIES OF SB 2 SUBMERSIBLE PUMPS

SB2 submersible pump line stand by pressure is set as equal to the operating pressure.







### PROPERTIES OF SB 2 SUBMERSIBLE PUMPS

### **TECHNICAL PROPERTIES**

**Motor Power** 

Certificates

**Temperature Classification** 

**Termical Protector** 

**Termical Protector Temperature** 

**Ex-Glent Entrance** 

### MFPSAN SB2

1 ½ HP

ATEX. Exd IIB T6 Gb

T6

Exist

85 °C

**Exist** 

### **Characteristic Properties**

Leak Detector

Leakage Observing Sensibility

Sifon Valve

Checkvalve

Ex Buat

Work Pressure

Waiting Lines at low pressure

Line Waiting Pressure

Leakage quantity (Standart fitting)

Taking Thermal Expansion Pressure

Motor External Cooling

**Motor Protection Case** 

Having a piston 12 Liter / Hour

Exist

Exist

Contains Wirebridge

2-2,5 Bar

Exist

**Equal to Work Pressure** 

~200 cc

**Exist** 

**Exist** 

Stainless Steel





### SB2 SUBMERSIBLE PUMPS

Mepsan certificated Atex and completed the field test in 2013

Engine sections are produced in manufacturing facilities in Italy and head sections are produced in Mepsan C.O manufacturing facilities

Over then 5000 pieces MEPSAN submersible pumps work properly at the field







## SB 2 SUBMERSIBLE PUMPS



Engine section and head section of the submersible pump must have Atex certificate and this has to be remarked in both of head section and engine section

Mepsan SB2 Submersible pump which certificated 94/9/EC directive and LCEIE 10 ATEX 3012 X / 01 is produced according to II 2 G Ex D IIB T6 Gb protection class.











**Station Technologies Specialist** 

