

FG 17 mars 2010



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From: Erwin Nath [enath@vds.de]
Sent: 14. februar 2006 11:08
To: Braathen, Bjorn W.
Subject: AW: Antw: Possible contact VdS

Hello Björn,

VdS will evaluate each pump set on the job site in accordance to VdS CEA 4001. Component testing and certification is performed for the bare shaft pump only.

Mit freundlichen Grüßen / Kind regards

Erwin Nath

VdS SCHADENVERHÜTUNG GmbH
Brandschutz und Sicherheitstechnik
Labor für Löschanlagen
Amsterdamerstraße 174
D - 50735 Köln
Germany
Telefon +49(0)221 7766 452
Telefax +49(0)221 7766 418
E-mail: enath@vds.de
<http://www.vds.de>.

FG 17 mars 2010

From: marcus.braun@ksb.com

Sent: 13. februar 2006 17:34

To: Braathen, Bjorn W.

Cc: enath@vds.de

Subject: Antwort: FW: Antw: Possible contact VdS

Attachments: KSB VDS Sprinklerpumpen Stand 1 2006.pdf;
20060213173302381.tif

Dear Bjorn,

enclosed the actual KSB VDS pumps.

(See attached file: KSB VDS Sprinklerpumpen Stand 1 2006.pdf)

We do have different fire fighting pumps in our program, starting from a standard pompe painted in red called Etanorm G with cast iron impeller often used in Italy standard pump painted in red called Etanorm M with bronze impeller which makes more sense in a fire fighting application the french/dutch version APSAD or CNPP approved called Etanorm MXN the VDS version Etanorm MX which is the highest approval level with hydraulic test a.s.o.

On the pump's nameplate you will find the order number 9970..... Can you send me this number? When I have this number I can easily see who sold which version to whom. I remember a email dialog with KSB Sweden or Lindflaten Norway (I don't anymore exactly) about a Etanorm MX 150-315 which we do have in our program but do not sell ist offically. I told them cearly what is approved and what is not approved. enclosed for you the curve of the VDS approved Etanorm MX 150-315 which is only approved when this mentioned impeller 330mm and this turns per minute 2250 1/min are used. Other speed on the motor, than not approved. This pump is not in our program because the hydraulic data are covered completely by another pump.

(See attached file: 20060213173302381.tif)

Do you have any idea if R-contracting or Sisu Diesel is involved? So I can find o possible order. I'm very interessted what is built in and I really support you getting realy approved fire fighting pumps in your projects.

Mit freundlichem Gruss

Best regards

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We do have different fire fighting pumps in our program, starting from a standard pompe painted in red called Etanorm G with cast iron impeller often used in Italy

standard pump painted in red called Etanorm M with bronze impeller which makes more sense in a fire fighting application

the french/dutch version APSAD or CNPP approved called Etanorm MXN

the VDS version Etanorm MX which is the highest approval level with hydraulic test a.s.o.

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From: marcus.braun@ksb.com
Sent: 14. februar 2006 12:48
To: Braathen, Bjorn W.
Subject: Antwort: Dieselpumset

Hello Bjorn,

seems to be a KSB pump but definetly no KSB VDS pump. This funny controller I will check. Maybe I can find something.

Mit freundlichem Gruss
Best regards

KSB AG
T 1131
Marcus Braun
Tel: 0049 6233 862978
Fax: 0049 6233 863407

FG 17 mars 2010

From: marcus.braun@ksb.com

Sent: 14. februar 2006 13:33

To: Braathen, Bjorn W.

Subject: WG: RE: Antwort: Dieselpumset

Attachments: EtanormMX_6259.jpg

Hello Bjorn,

it's not a VDS approved Etanorm MX 150-315 because you see on the pictures the standard KSB nameplate on the pump.

These pumps on the picture could be the french/dutch version called Etanorm MXN 150-315.

VDS pumps do have a special nameplate where the VDS approval number etc. is written on.

AS you can see on the picture the VDS plate is placed right before the cuppling and is much bigger.
(See attached file: EtanormMX_6259.jpg)

Mit freundlichem Gruss

Best regards

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Loss Prevention Standard



LPS 1239: ISSUE 1.1

Requirements and Testing Procedures for the LPCB Approval and Listing of Diesel Engines for Sprinkler Pump Sets

This Standard specifies the requirements for LPCB Approval of Diesel Engines for fire sprinkler pump sets. LPCB Approved Diesel Engines covered by this Standard are to be used in stationary fire sprinkler pump sets which conform to the LPC Rules for Automatic Sprinkler Installations.

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SPP
PUMPS

SPARES / SERVICE
TEL: 0118 932 3123
READING ENGLAND



ELECTRIC MOTOR FIRE PUMP CONTROLLER

TYPE: MFP/LPC/SD/01/400V/250kW

ENCLOSURE: NEMA 2

MOTOR F.L.C 415

AC SUPPLY 400-3-50

SERIAL No. 28484-01

CONTROL CCT 230-1-50
& 12V DC



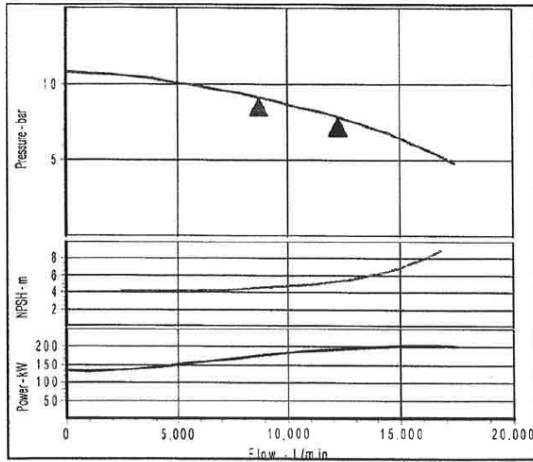
SPP Pumps Limited

Theale Cross Pincenta Lane Calcot Reading Berks RG31 7SP
 United Kingdom
 Mr. Bill Harris
 Fax 0118 9323302

Customer :

Project :
 Quote Ref. : UK-100223-460 Page No : 1 Contact :
 Phone : Date : 17 January 2008 Fax :

Type: Horizontal Thru-Stream (LPCB Listed) - Axial Split Case Item : 1
 Pump Model: SPP - TD20D Impeller No.:
 Pump Op. Speed: 2950 RPM, 50 Hz Electric Liquid: Water
 Impeller Dia.: 283.4 mm Temperature: 20 °C
 Curve No.: TD20D-C2950/1B-A2 Viscosity: 1.01 cSt
 Market : LPC Fire Pump (Precalculated Flows) Density: 998.2 kg/m³
 Your Ref. :



| | |
|-----------------------|------------|
| 100% duty flow | 8735 L/min |
| Pressure at duty flow | 9.1 bar |
| Imp. Dia. | 283.4 mm |
| Power Required | 175.7 kW |
| NPSH Required | 4.6 m |
| Efficiency | 75.7 % |

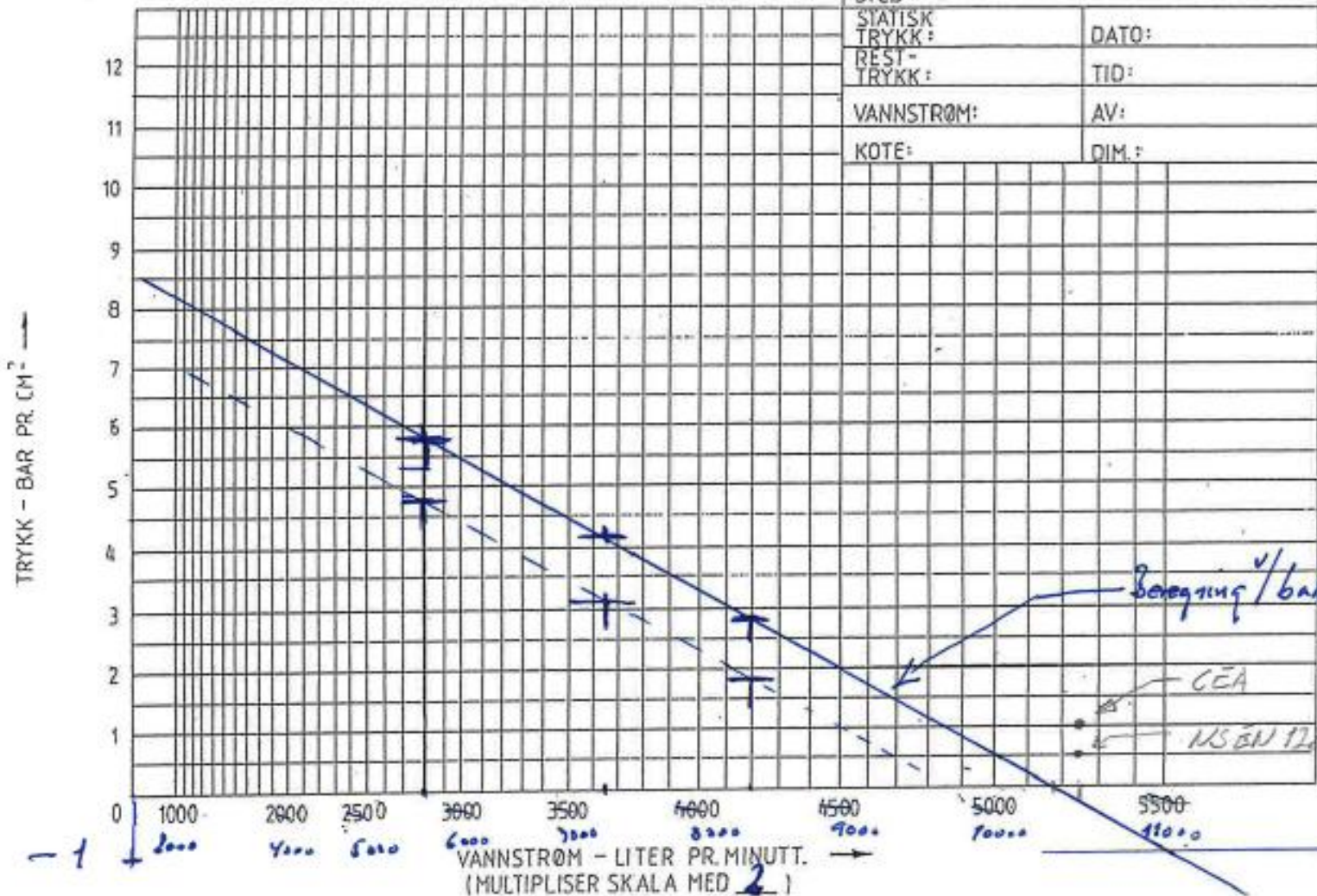
| | |
|-----------------------|---------------|
| Peak Power | 203.7 kW |
| Closed Valve Pressure | 10.8 bar |
| Flow at NPSHr=5.38 m | 12276.9 L/min |
| Flow at 140% | 12229 L/min |
| Head at 140% | 7.9 bar |
| Power Req. at 140% | 194.9 kW |

Comments
 NPSH REQUIRED at centreline of
 Impeller. Add 0.5m to Laboratory
 NPSH curve for field applications

| Flow (L/min) | Head (bar) | Pump Efficiency (%) | Power Required (kW) | NPSH Required (m) |
|--------------|------------|---------------------|---------------------|-------------------|
| 0.0 | 10.8 | 0.0 | 132.9 | |
| 2174.8 | 10.6 | 28.8 | 133.5 | |
| 4349.6 | 10.2 | 51.3 | 144.7 | 4.2 |
| 6524.3 | 9.7 | 66.2 | 160.0 | 4.3 |
| 8699.1 | 9.1 | 75.5 | 175.4 | 4.6 |
| 10873.9 | 8.4 | 80.8 | 188.5 | 5.0 |
| 13048.7 | 7.5 | 82.5 | 198.0 | 5.7 |
| 15223.5 | 6.3 | 79.4 | 203.1 | 7.1 |
| 17398.2 | 4.8 | 69.0 | 202.9 | |

HYDRAULISK/GRAFISK SKJEMA (VANNSTRØM ^{LBS})

Beregning av forsyning / Dimensjon Rødsjøving AS



| | |
|----------------|-------|
| STED: | |
| STATISK TRYKK: | DATO: |
| REST-TRYKK: | TID: |
| VANNSTRØM: | AV: |
| KOTE: | DIM.: |



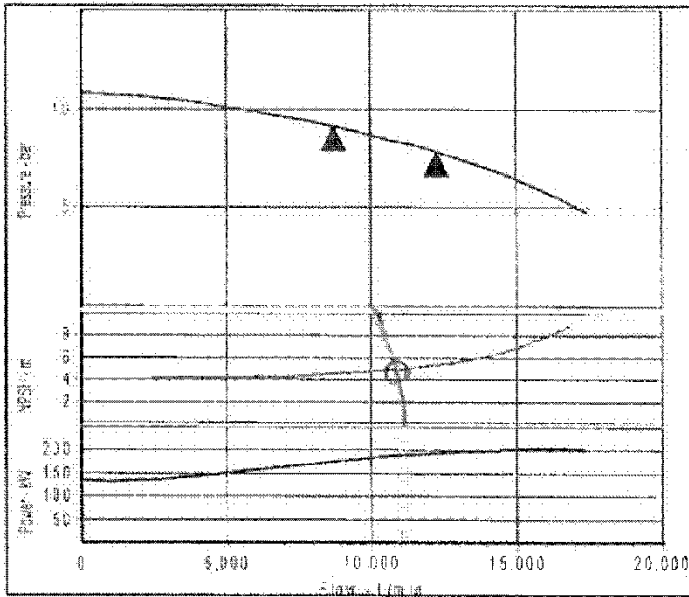
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| 100% duty flow | 8735 L/min |
| Pressure at duty flow | 9.1 bar |
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| Efficiency | 75.7 % |

| | |
|-----------------------|---------------|
| Peak Power | 203.7 kW |
| Closed Valve Pressure | 10.8 bar |
| Flow at NPSH=5.38 m | 12276.9 L/min |
| Flow at 140% | 12220 L/min |
| Head at 140% | 7.9 bar |
| Power Req. at 140% | 194.9 kW |

Comments
 NPSH REQUIRED at centreline of impeller. Add 0.5m to Laboratory NPSH curve for field applications

| Flow (L/min) | Head (bar) | Pump Efficiency (%) | Power Required (kW) | NPSH Required (m) |
|--------------|------------|---------------------|---------------------|-------------------|
| 0.0 | 13.3 | 0.0 | 132.9 | |
| 2174.8 | 10.0 | 29.3 | 133.5 | |
| 4349.6 | 10.2 | 51.3 | 144.7 | 4.2 |
| 6524.3 | 9.7 | 63.2 | 160.0 | 4.3 |
| 8699.1 | 9.1 | 75.5 | 175.4 | 4.6 |
| 10873.9 | 8.4 | 80.8 | 188.5 | 5.0 |
| 13048.7 | 7.5 | 82.5 | 198.0 | 5.7 |
| 15223.5 | 6.3 | 79.4 | 203.1 | 7.1 |
| 17398.2 | 4.8 | 69.0 | 202.9 | |

$8735 \times 1.2 = 10482$

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