OPERATORS
for potentially explosive atmospheres
flameproof enclosure
II 2 G Ex d IIC T6 .. T3, II 2D Ex tD A21 IP66
stainless steel or cast iron enclosure

FEATURES
- Explosionproof operator for use in potentially explosive atmospheres according to ATEX-Directive 94/9/EC
- EC type-examination certificate no.: BAS 02 ATEX 2157
- Compliance with the Essential Health and Safety Requirements of the ATEX Directive has been assured by compliance with European Standards EN 60079-0, EN 60079-1, EN 61241-0 and EN 61241-1
- Easy electrical installation by means of a screw terminal coil
- Enclosure provided with a M20 x 1,5 (optionally 1/2 NPT) threaded entry hole for a broad range of cable entries
- Ingress protection degree IP66
- A wide range of valves can be supplied with the operator

CONSTRUCTION
Solenoid enclosure NA Stainless steel (AISI 316L)
NB Cast iron, epoxy coated
Core, core tube and plugnut
Shading coil Not applicable (NA)
Nameplate Stainless steel
Fasteners & screws Stainless steel
Coil connection Screw terminals
Safety code II 2 G Ex d IIC T6 .. T3
II 2 D Ex tD A21 IP66 T85°C-T200°C

ELECTRICAL CHARACTERISTICS
Standard voltages
(Other voltages and 60 Hz on request)
DC ( =) : 24V - 48V - 240V
AC ( ~) : 24V - 48V - 115V - 230V / 50 Hz

TEMPERATURE CLASSIFICATION TABLES

<table>
<thead>
<tr>
<th>Pn (watt)</th>
<th>solenoid size</th>
<th>maximum ambient °C</th>
<th>surface temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>(M25 NA)</td>
<td>T6 85°C</td>
<td>T5 100°C</td>
<td>T4 135°C</td>
</tr>
<tr>
<td>14,2 (1)</td>
<td>60</td>
<td>80</td>
<td></td>
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<tr>
<td>14,2 (2)</td>
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<td>80</td>
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<td>17,05(3)</td>
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<tr>
<td>17,05(3)</td>
<td>40</td>
<td>70</td>
<td>80</td>
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</tbody>
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</thead>
<tbody>
<tr>
<td>(M25 NB)</td>
<td>T6 85°C</td>
<td>T5 100°C</td>
<td>T4 135°C</td>
</tr>
<tr>
<td>10,0 (1)</td>
<td>60</td>
<td>80</td>
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</tr>
<tr>
<td>10,0 (2)</td>
<td>40</td>
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<td>21,4 (3)</td>
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<tr>
<td>35,1</td>
<td>50</td>
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</tbody>
</table>

Check the wattage compatibility with the product selected.
(1) AC (~) Full wave rectified coil construction
(2) AC (~) Back wave rectified coil construction
(3) The minimum allowable ambient temperature is -40°C for the operator. Actual temperature range can be limited depending on valve operation limits.

OPTIONS
- Non-polarised voltage surge suppressor for DC constructions
- A 35,1 W DC, HC coil is available for battery voltages. Range +12% to -28% of nominal voltage (only available on NB construction)
- A welded plugnut construction is available as an alternative to the standard closed tube construction (contact factory for details)

CONNECTIONS
- Any ATEX approved dia. 9-12 mm cable entry device can be fitted in the M20 x 1,5; use prefix NAET or NBET; refer to the nameplate for maximum cable temperature (optionally 1/2 NPT / Ø 8,5-16 mm, use prefix NAT or NBT).
- Internal and external earthing connection
- The operator can be rotated 360° at 90° increments to select the most favourable position for cable entry
**MOUNTING BRACKET**

Kit no: C115065  
Contents:  
stainless steel 304 SS screws and bracket

**DIMENSIONS (mm), WEIGHT (kg)**

**TYPE NA-NB**  
Prefix "NA" and "NB" solenoids  
Stainless steel (NA)  
Cast iron, epoxy coated (NB)  
EN 60079-1 and EN 61241-1  
II 2 G Ex d IIC - II 2D Ex tD A21 IP66

<table>
<thead>
<tr>
<th>prefix</th>
<th>weight</th>
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<td>4.8</td>
</tr>
<tr>
<td>NB</td>
<td>4.8</td>
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① 2 mounting holes M5, depth 9 mm