Bredel hose pump elements

FEATURES AND BENEFITS

- Optimised for exceptional pumping performance with abrasive and high viscosity media
- The hose is the only wearing part that contacts the fluid
- Precision machined for accurate, repeatable performance and maximum hose life
- Consistent volumetric accuracy of 99% and 9.5m suction lift, independent of suction and discharge conditions
- Tight wall thickness tolerances for low stress on bearings – perfect compression for long hose life
- Pressure capability up to 16 bar (232psi).

HOSE MATERIALS

<table>
<thead>
<tr>
<th>Bore size (mm)</th>
<th>Wall thickness (mm)</th>
<th>Length (mm)</th>
<th>Max. operating pressure (bar)</th>
<th>Mass (kg)</th>
<th>Hose identification (example)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 (0.39)</td>
<td>10.5 (0.413)</td>
<td>510 (20.1)</td>
<td>NR Endurance, NBR, F-NBR</td>
<td>0.4 (0.88)</td>
<td>10 (145)</td>
</tr>
<tr>
<td>15 (0.59)</td>
<td>10.5 (0.413)</td>
<td>755 (29.7)</td>
<td>NR Endurance, NBR, F-NBR</td>
<td>0.8 (1.76)</td>
<td>10 (145)</td>
</tr>
<tr>
<td>20 (0.79)</td>
<td>8.5 (0.337)</td>
<td>755 (29.7)</td>
<td>10 (145)</td>
<td>0.6 (1.32)</td>
<td></td>
</tr>
<tr>
<td>25 (0.98)</td>
<td>14.1 (0.555)</td>
<td>1005 (39.9)</td>
<td>16 (232)</td>
<td>2.0 (4.41)</td>
<td></td>
</tr>
<tr>
<td>32 (1.26)</td>
<td>14.5 (0.571)</td>
<td>1250 (49.2)</td>
<td>16 (232)</td>
<td>3.0 (6.61)</td>
<td></td>
</tr>
<tr>
<td>40 (1.57)</td>
<td>13.2 (0.520)</td>
<td>1490 (58.7)</td>
<td>16 (232)</td>
<td>3.5 (7.72)</td>
<td></td>
</tr>
<tr>
<td>50 (1.97)</td>
<td>15.0 (0.591)</td>
<td>1820 (71.7)</td>
<td>16 (232)</td>
<td>6.0 (13.23)</td>
<td></td>
</tr>
<tr>
<td>65 (2.56)</td>
<td>17.1 (0.673)</td>
<td>2340 (91.1)</td>
<td>16 (232)</td>
<td>12 (26.46)</td>
<td></td>
</tr>
<tr>
<td>80 (3.15)</td>
<td>21.0 (0.827)</td>
<td>2780 (109.4)</td>
<td>16 (232)</td>
<td>21 (46.30)</td>
<td></td>
</tr>
<tr>
<td>100 (3.94)</td>
<td>22.0 (0.866)</td>
<td>3280 (129.1)</td>
<td>16 (232)</td>
<td>30 (66.14)</td>
<td></td>
</tr>
</tbody>
</table>

* Your local Bredel sales office/distributor can advise the right hose for your application

For best pump performance use Bredel Genuine Hose Lubricant (NSF Non food Compound Program Listed, category H1)

Hose identification (example):

- A: Pump type
- B: Re-order number
- C: Bore size
- D: Material of the inner layer
- E: Maximum permitted pressure
- F: Factory code

Examples of compatible media:

- **NR/NR Endurance**: Outstanding abrasion resistance. Generally resistant to diluted acids and alcohols.
  - Medium temperature: Max. 80C (176F) Min. -20C (-4F)
  - Examples of compatible media:
    - Sludge with up to 85% solids
    - Magnesium oxide and titanium dioxide
    - Water based paints, pigments
    - Food waste

- **NBR**: Resistant to oils (non-mineral), greases, alkalisis and detergents.
  - Medium temperature: Max. 80C (176F) Min. -10C (14F)
  - Examples of compatible media:
    - Sludge with fractions of hydrocarbons
    - Polyalkaluminum chloride

- **EPDM**: Excellent chemical resistance, especially to ketones, alcohols and concentrated acids.
  - Medium temperature: Max. 90C (194F) Min. -10C (14F)
  - Examples of compatible media:
    - Sodium Hypochlorite/Bisulphate
    - Ferric Chloride
    - Hydrochloric Acid

- **CSM**: Outstanding resistance to strong, oxidising products and concentrated acids and bases.
  - Medium temperature: Max. 80C (176F) Min. -10C (14F)
  - Examples of compatible media:
    - Hydrogen Peroxide up to 60%
    - Catonic flocculant (polymer)
    - Highly concentrated Sulphuric Acid

- **NBR for food**: Suitable for a wide range of food products including fatty foodstuff.
  - Compliant to EC1935/2004
  - Cleaned, capped and bagged.
  - Medium temperature: Max. 80C (176F) Min. -10C (14F)
  - Examples of compatible media:
    - Fruit and fruit concentrates
    - Yoghurt and dairy products
    - Yeast, sugar, food additives
    - Resistant to various cleaning chemicals

- **F-NBR**: White inner surface for food contact.
  - Suitable for a wide range of food products including dairy.
  - Cleaned, capped and bagged.
  - Medium temperature: Max. 80C (176F) Min. -10C (14F)
  - Examples of compatible media:
    - Fruit and fruit concentrates
    - Yoghurt and dairy products
    - Yeast, sugar, food additives
    - Resistant to various cleaning chemicals

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