API 682 4th edition
Category 1
Configurations

Mechanical seals

Piping plans

Seal supply systems

Configuration

3NC-BB
EagleBurgmann mechanical seals applicable for this configuration

<table>
<thead>
<tr>
<th>Seal type A</th>
<th>Seal type B</th>
<th>Seal type C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balanced pusher seals</td>
<td>Metal bellows seals with O-Rings</td>
<td>Metal bellows seals with flexible graphite</td>
</tr>
</tbody>
</table>

Engineered seals

Beyond API specifications, EagleBurgmann offers a comprehensive range of engineered seals tailored to customer’s specification. Please inquire.

API piping plans applicable for 3NC-BB configuration

**Process side**

- **Plan 02**: Dead-ended seal chamber with no recirculation of flush fluid. Flush connections plugged.
- **Plan 03**: Recirculation between the seal chamber and the pump created by the design of the seal chamber. Flush connections plugged.
- **Plan 31 (23)**: Recirculation from the pump discharge through a cyclone separator delivering the clean fluid to the seal chamber. The solids are delivered to the pump suction line.

**Between seals**

- **Plan 41**: Recirculation from the pump discharge through a cyclone separator delivering the clean fluid to a cooler and then to the seal chamber. The solids are delivered to the pump suction line.
- **Plan 74**: Externally supplied barrier gas for arrangement 3 dual pressurized non-contacting gas seals (3NC-FB, 3NC-BB, 3NC FF).

**Engineered piping plan**

- **Plan 59**: Engineered piping plan defined by other existing plans.

EagleBurgmann seal supply systems and components

<table>
<thead>
<tr>
<th>Plans</th>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 (22)</td>
<td>WEF6 Water cooler, WEL6 Air cooler, SPF6 Temperature indicator</td>
</tr>
<tr>
<td>31</td>
<td>ZVG6 Cyclone separator</td>
</tr>
<tr>
<td>41</td>
<td>WEF6 Water cooler, WEL6 Air cooler, SPF6 Temperature indicator, ZYG6 Cyclone separator</td>
</tr>
<tr>
<td>32</td>
<td>SPX6 Flush unit</td>
</tr>
<tr>
<td>74</td>
<td>GSS6001 Gas supply system</td>
</tr>
<tr>
<td>99</td>
<td>Engineered to customer’s specifications</td>
</tr>
</tbody>
</table>

The API experts

EagleBurgmann is one of the leading international system providers of sealing technology. For more than 20 years we have been actively contributing our expertise to developing and implementing the API 682 standard for the selection and application of seals and supply systems in centrifugal and rotary pumps.

Solutions for more safety and productivity

The new 4th edition of API 682 is in line with the latest achievements and current developments. EagleBurgmann offers the widest portfolio of seals and seal supply systems acc. to API 682 4th edition, and consequently has the optimum product for each API-compliant requirement: Technically mature, practical solutions that provide significantly greater safety and process reliability in refining technology, petrochemical, oil & gas and chemical industries.

Important note

All the technical specifications are based on extensive tests and our many years of experience. However, the diversity of possible applications means that they can serve as guide values only.

It should be noted that the internal values of each operating parameter cannot be applied at the same time because of their interaction. Furthermore, the operating range of each specified product choice is given by the respective manufacturer. When critical conditions of operation are involved, we recommend consulting with our specialist engineers.

A guarantee can only be given in the individual case if the actual conditions of application are known and these are confirmed in a special agreement. When a topic currently of concern is involved, we recommend consulting with our specialist engineers.

Subject to change.
**Seal type A**

**CGSH-KD**

*Category 1 • 3NC-BB*

### Features
- API 682 Category 2 and 3, Type A, Arrangement 3 seal
- Dual seal in back-to-back arrangement
- Cartridge unit
- Independent of direction of rotation (with U-grooves)
- Gas-lubricated
- Contact free operation, no friction
- Rotating multiple springs
- Universally applicable both for retrofits or original equipment
- Efficient stock keeping due to standardized components
- Extended selection of materials
- Metal parts also in special materials available

### Advantages
- Universally applicable both for retrofits or original equipment
- Efficient stock keeping due to standardized components
- Extended selection of materials
- Metal parts also in special materials available

### Recommended applications
- Refining technology
- Petrochemical industry
- Chemical industry
- Oil and gas industry
- Media with gaseous leakage
- API 610/ISO 13709 pumps
- Process pumps

### Operating range (see note on page 3)
- Shaft diameter: d = 20 ... 110 mm (0.79" ... 4.33")
- Pressure: p1 = 23 bar (333 PSI)
- Temperature: t = –20 ... +176 °C (–4°F ... +350°F)
- Sliding velocity: vg = 23 m/s (76 ft/s)
- Axial movement: ±1.0 mm

### Materials
- Seal rings: Blister resistant carbon, Silicon carbide SSiC (Q1)
- Mating rings: Silicon carbide SSiC (Q1), RBSiC (Q2)
- Secondary seals: EPDM (E), NBR (P), FKM (V), FFKM (K)
- Springs: Hastelloy® C-4 (M)* and C-276 (M5)
- Metal parts: CrNiMo steel 316 (G) or equivalent, optional materials on request.
- * EagleBurgmann standard

### Recommended piping plans
- Process side*: 01, 02, 03, 11, 12, 21, 22, 31, 32, 41
- Between seals: 74
- * Piping plans 11 ... 41:
  - Integration in seal to be dimensionally checked.

### Item Description
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.1</td>
<td>Seal ring</td>
</tr>
<tr>
<td>1.1.2</td>
<td>Driver</td>
</tr>
<tr>
<td>1.1.3</td>
<td>Thrust ring</td>
</tr>
<tr>
<td>1.1.4</td>
<td>Spring</td>
</tr>
<tr>
<td>1.1.5</td>
<td>O-Ring</td>
</tr>
<tr>
<td>1.1.8</td>
<td>Set screw</td>
</tr>
<tr>
<td>1.2</td>
<td>Mating ring</td>
</tr>
<tr>
<td>1.3</td>
<td>Seal sleeve</td>
</tr>
<tr>
<td>1.4</td>
<td>Gland plate</td>
</tr>
<tr>
<td>10</td>
<td>Setting device</td>
</tr>
<tr>
<td>11</td>
<td>Hexagon bolt</td>
</tr>
<tr>
<td>12</td>
<td>Set ring</td>
</tr>
<tr>
<td>GBI</td>
<td>Gas barrier IN</td>
</tr>
<tr>
<td>GBO</td>
<td>Gas barrier OUT</td>
</tr>
</tbody>
</table>

* Piping plans 11 ... 41:
  - Integration in seal to be dimensionally checked.
Features

- Safe operation thanks to incorporated pressure regulator with upstream filter
- System mounted on a plate
- Easy wall or rack mounting

Advantages

- Coalescing filter with integrated sight-glass for monitoring liquid level to ensure safe operation even in case of poor gas quality.
- Rigid base frame for easy rack mounting.
- Wide range of flow monitoring to ensure utmost reliability of mechanical seals.

Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

Functional description

Buffered, gas-lubricated mechanical seals may only be used in conjunction with adequately pressurized gas (e.g. from a closed circular nitrogen pipeline provided by the operator). For Plan 74 systems the barrier gas pressure level \( (p_3) \) must always be higher than the pressure level \( (p_1) \) of the sealed product, whatever the operational state of the machine. The minimum pressure overlay level \( (\Delta p) \) is specified for the individual seal types.

Main GSS functions:

- Filtering of the buffer and flushing gas
- Pressure monitoring and regulation
- Flow monitoring

Typical tasks for the GSS:

- Barrier gas supply for dual seals
- Gas supply for tandem seals

Notes

Design, calculation and production acc. to ASME VIII, Div. 1. 3rd party inspection and other certificates on request.

Product variants

<table>
<thead>
<tr>
<th>Designation</th>
<th>GSS6001A4M001-D0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure Equipment Directive</td>
<td>ASME</td>
</tr>
<tr>
<td>Allowable pressure(^1)</td>
<td>40 bar (580 PSI)</td>
</tr>
<tr>
<td>Allowable temperature(^1)</td>
<td>-20 °C ... +50 °C (–4 °F ... +122 °F)</td>
</tr>
<tr>
<td>Metal parts</td>
<td>316L</td>
</tr>
<tr>
<td>Process connections</td>
<td>Flange 1/2&quot;, 600 lbs</td>
</tr>
</tbody>
</table>

Other versions on request.

\(^1\) Design data, permissible working values depend on the actual conditions of service.

Installation

P&ID for GSS6001-A4 Gas supply system

A Gas IN
B Gas OUT
C Drain
Heat exchangers of the WEF6000-A4 range are used to cool process/barrier fluids in seal supply circuits. WEF6000-A4 heat exchangers are fully compliant with API 682 4th edition regulations. The process/barrier medium is directed through the tube, and the cooling medium is directed through the shell.

Venting and draining of the process/barrier medium side as well as the cooling water side is ensured. In addition, the heat exchangers can also be combined with a temperature instrument in the supply line to the mechanical seal (optional in accordance with API 682 4th edition).

- Operating limits up to 45 bar/260 °C (653 PSI/500 °F) (tube side): suitable for a wide range of demanding operating conditions.
- Cooling water side and process side can be completely vented and drained.
- Seamless pipes on process side
- Special design without welding inside the cooler
- Higher cooling water velocity due to innovative cooler design
- Stainless steel 316L: high resistance to corrosive media

**Recommended applications**
- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

**Advantages**
- Design and production in accordance with EU Pressure Equipment Directive PED 97/23 EC.
- Design, calculation and production acc. to ASME VIII, Div. 1 (cooler not subject to ASME stamp requirements, piping <6")

Cleaning: Process/barrier medium side and cooling water side: flush with a suitable solvent.

**Product variants**

<table>
<thead>
<tr>
<th>Designation</th>
<th>WEF6100-A4</th>
<th>WEF6100-A4</th>
<th>WEF6000-A4</th>
<th>WEF6000-A4</th>
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</thead>
<tbody>
<tr>
<td>Type of heat exchanger</td>
<td>ASME</td>
<td>PED</td>
<td>ASME</td>
<td>PED</td>
</tr>
<tr>
<td>Process connections</td>
<td>Drain/vent connection</td>
<td>NPT 1/2&quot;</td>
<td>NPT 1/2&quot;</td>
<td>NPT 1/2&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allowable pressure</td>
<td>45 bar (653 PSI)</td>
<td>16 bar (232 PSI)</td>
<td>45 bar (653 PSI)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allowable temperature cooling water side (shell side)</td>
<td>-29 °C ... +150 °C</td>
<td>-29 °C ... +150 °C</td>
<td>-29 °C ... +150 °C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Allowable temperature process/ barrier medium side (tube side)</td>
<td>-29 °C ... +260 °C</td>
<td>-29 °C ... +260 °C</td>
<td>-29 °C ... +260 °C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Cooling capacity (kW)</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Cooling capacity (kW)</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Required cooling water quantity (m³/h)</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Metal parts</td>
<td>316L</td>
<td>316L</td>
<td>316L</td>
</tr>
</tbody>
</table>

Other versions on request.

1) Guidelines with buffer/barrier fluid oil 60 °C (140 °F) – cooling water 20 °C (68 °F).

2) Guidelines with buffer/barrier fluid oil 60°C (140 °F) – cooling water 20 °C (68 °F).
WEL6 Air cooler

Features
Heat exchangers of the WEL6000-A4 range (shown here: WEL6002-A4) are used to cool process/barrier fluids in seal supply circuits. The heat exchangers are made of helical, laserwelded finned tubes. The cooling medium is ambient air. It is important, therefore, for WEL heat exchangers to be installed in well ventilated places indoors or, ideally, outdoors. There is a choice of three different basic versions of the WEL6000-A4 range as well as supplied fully assembled together with valves, base frame and other system components.

Advantages
- Operating limits up to 44 bar/260 °C (638 PSI/500 °F) (tube side): suitable for a wide range of demanding operating conditions.
- Can be completely vented and drained
- Seamless pipes
- Stainless steel 316L: high resistance to corrosive media

Recommended applications
- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

Notes
- Design and production in accordance with EU Pressure Equipment Directive PED 97/23 EC.
- Design, calculation and production acc. to ASME VIII, Div. 1 (cooler not subject to ASME stamp requirements, piping <6”)

Product variants

<table>
<thead>
<tr>
<th>Designation</th>
<th>WEL6001-A4A001-D0</th>
<th>WEL6002-A4A001-D0</th>
<th>WEL6003-A4A001-D0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of heat exchanger</td>
<td>ASME</td>
<td>PED</td>
<td>ASME</td>
</tr>
<tr>
<td>Number of finned tubes</td>
<td>1</td>
<td>2 finned tubes switched in parallel</td>
<td>2 finned tubes switched in parallel and doubled length</td>
</tr>
<tr>
<td>Connections</td>
<td>Flange 3/4&quot;, 600 lbs</td>
<td>Flange 3/4&quot;, 600 lbs</td>
<td>Flange 3/4&quot;, 600 lbs</td>
</tr>
<tr>
<td>Drain/vent connection</td>
<td>Flange 1/2&quot;, 600 lbs</td>
<td>Flange 1/2&quot;, 600 lbs</td>
<td>Flange 1/2&quot;, 600 lbs</td>
</tr>
<tr>
<td>Allowable pressure</td>
<td>44 bar (638 PSI)</td>
<td>44 bar (638 PSI)</td>
<td>44 bar (638 PSI)</td>
</tr>
<tr>
<td>Allowable temperature process/barrier medium side</td>
<td>-29 °C ... 260 °C (-20 °F ... +500 °F)</td>
<td>-29 °C ... 260 °C (-20 °F ... +500 °F)</td>
<td>-29 °C ... 260 °C (-20 °F ... +500 °F)</td>
</tr>
<tr>
<td>Cooling capacity (kW)</td>
<td>1.5</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Cooling capacity (kW)</td>
<td>1.2</td>
<td>1.5</td>
<td>2</td>
</tr>
<tr>
<td>Volume (liters)</td>
<td>1.2</td>
<td>2.4</td>
<td>4.8</td>
</tr>
<tr>
<td>Metal parts</td>
<td>316L</td>
<td>316L</td>
<td>316L</td>
</tr>
</tbody>
</table>

Other versions on request.

1) Design data, permissible working values depend on the actual conditions of service.
2) Guidelines with buffer/barrier fluid water 60 °C (140 °F) – ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.
3) Guidelines with buffer/barrier fluid oil 60 °C (140 °F) – ambient temperature 20 °C (68 °F); moved air at min. 0.7 m/s (2.3 ft/s); product flow rate 8 l/min.
4) Version with screwed connection G1/2" available as an option.
# SPT6 Temperature Indicator

## Features

The measuring unit of the SPT6000-A4 range is used to visually monitor the operating temperature.

The measuring unit consists of a bi-metallic temperature gauge (NG100) with protective sleeve installed in a measuring block incl. drain connection.

## Advantages

- Operating limits up to 45 bar/260 °C (653 PSI/500 °F) (design parameters)
- Temperature indicating range up to 200 °C (392 °F)
- Wetted parts: Stainless steel 316L for high resistance to corrosive media

## Recommended applications

- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

## Product variants

<table>
<thead>
<tr>
<th>Designation</th>
<th>SPT6000-A4</th>
<th>SPT6000-A4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connections – process</td>
<td>Flange 3/4&quot;, 600 lbs</td>
<td>Flange 3/4&quot;, 600 lbs</td>
</tr>
<tr>
<td>Connections – drain</td>
<td>G 1/2&quot;</td>
<td>G 1/2&quot;</td>
</tr>
<tr>
<td>Allowable pressure¹</td>
<td>45 bar (653 PSI)</td>
<td>45 bar (653 PSI)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>0 °C ... +120 °C (+32 °F ... +248 °F)</td>
<td>0 °C ... +200 °C (+32 °F ... +392 °F)</td>
</tr>
<tr>
<td>Wetted parts</td>
<td>316L</td>
<td>316L</td>
</tr>
</tbody>
</table>

Other versions on request.

¹ Design data, permissible working values depend on the actual conditions of service.
Features

The ZY6000-A4 range is available in three versions:

**ZYA6000-A4**: Cyclone separator for high flow rates and high pressures.

**ZYB6000-A4**: Cyclone separator for high flow rates and high pressures; 100 % X-ray capability.

**ZYC6000-A4**: Cast version, block-type design with integral flanges.

Advantages

- Contamination is automatically conveyed to the suction nozzle of the pump: maintenance-free mode of operation for guaranteed reliability
- High filtration efficiency
- Wide range of products for the optimum solution for every application
- ZYA6000-A4 and ZYB6000-A4: available for operating pressures of up to 200 bar (2,900 PSI)
- ZYC6000-A4 in block-type design with integrated flange connections: low space requirements because of compact design

Functional description

Cyclone separators of the ZY6000-A4 range are used to clean mainly aqueous liquids containing contamination such as dirt and solids (e.g., in circulation systems of sewage, sludge or pipeline pumps).

The best possible filtration efficiency is achieved when the specific weight of the solids is much higher than that of the carrier liquid and when the differential pressure is as large as possible within the permissible pressure range (min. 1.7 bar (24.7 PSI) in accordance with API 682). The viscosity of the medium is a factor that also needs to be taken into account.

P&ID for ZY6000-A4 Cyclone separators

A Contaminated liquid IN
B Clean liquid OUT
C Separated liquid OUT

### Product variants

<table>
<thead>
<tr>
<th>Designation</th>
<th>ZYA6000</th>
<th>ZYB6000</th>
<th>ZYC6000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowable pressure (1)</td>
<td>60 bar (870 PSI)</td>
<td>60 bar (870 PSI)</td>
<td>60 bar (870 PSI)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-29 °C ... +150 °C (-20 °F ... +302 °F)</td>
<td>-29 °C ... +150 °C (-20 °F ... +302 °F)</td>
<td>-29 °C ... +150 °C (-20 °F ... +302 °F)</td>
</tr>
<tr>
<td>O-Ring (2)</td>
<td>Viton®</td>
<td>Viton®</td>
<td>Viton®</td>
</tr>
</tbody>
</table>

Wetted parts

- ZYA6000: 316L
- ZYB6000: 316L
- ZYC6000: 316L

Other versions on request.

(1) Max. permissible working values depend on version.
(2) Other materials on request, e.g. FKM, EPDM.
**Features**
The EagleBurgmann flush unit of the SPX6000-A4 range consists of a manifold with integrated inline filter supplied together with a needle valve and pressure gauge. Optional available with temperature gauge and/or flow indicator. The unit is used to control the flushing of a mechanical seal.

**Advantages**
- Compact design due to integral filter
- Modular concept – optimal monitoring equipment available

**Recommended applications**
- Refining technology
- Oil and gas industry
- Petrochemical industry
- Chemical industry
- Power plant technology

**Functional description**
The SPX6000-A4 flush unit continuously supplies flushing media from an external source to the mechanical seal. This plan is almost always used in combination with a throat bushing which serve as a throttle device to maintain a higher pressure in the stuffing box to isolate the pumped product from the seal chamber.

**Product variants**

<table>
<thead>
<tr>
<th>Designation</th>
<th>SPX6000-A4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allowable pressure</td>
<td>44 bar (638 PSI)</td>
</tr>
<tr>
<td>Allowable temperature</td>
<td>-20 °C ... +120 °C</td>
</tr>
<tr>
<td>Process connections</td>
<td>1/2&quot; NPT</td>
</tr>
<tr>
<td>Metal parts</td>
<td>316L</td>
</tr>
</tbody>
</table>

Other versions on request.

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![Diagram with labels 1, 2, 3, 4, A, B]
Our service modules

The modular seal service offered through TotalSealCare is as individual as are the demands of our customers. The range of services spans complete maintenance of all installed seals, through to stock management, as well as engineering, training and electronic data documentation.

Our TotalSealCare services consist of individual modules from which we assemble individualized service packages.

You can benefit from our many years of experience and expertise in all areas of seal technology, and our major store of practical knowledge.

Consulting & engineering

After establishing and analyzing all of the seals in a system, we work out standardization concepts based on the as-is status. The results we are hoping for are to reduce the number of seal types, sizes and materials used, and to improve the key figures of the system. We advise you relating to codes of practice and statutory regulations, and indicate what actions need to be taken.

Maintenance

In the plant or in the service center, qualified fitters and technicians look after all the aspects of seal maintenance: installation, startup, servicing, conversion, overhaul and repair. We record and document functionally relevant data (fault causes, measures for repair, costs). This means it is possible to assess seal operating times and maintenance costs on a continuous basis, thereby defining measures for extending service intervals.

On-site service

Our on-site service includes the components of an overhaul service, conversions and service container. We deploy a service unit directly on your premises: equipped with the basic suite of seals or a stock of seals discussed with you in advance, and staffed by qualified personnel. On-site, our work includes producing the necessary gaskets, ensuring that the documentation is complete and advising our customers on selecting and installing seals. Our range of services is rounded off by complete conversions (e.g. acc. to TA-Luft).

Inventory management

Based on your individual requirements and the applicable quality regulations, we develop a concept for inventory management of complete seals and spare parts. Furthermore, we optimize stocking on site or in the EagleBurgmann service center. In this way, you can reduce your administration overhead and concentrate on your key operations.

Seminars & training

We offer an extensive range of continuing education programs in seal technology. For service and maintenance personnel, skilled staff and engineers from various branches of industry such as refining, chemicals, power generation, foodstuffs, paper and pharmaceuticals. Our range includes group seminars, individual training and seminars specifically tailored to your requirements. At our premises or at a location of your choice.

Technical analysis & support

A team of seal specialists is responsible for rectifying process malfunctions or “bad actors”. The latest methods such as thermography or data logging are used for diagnosing positions that are critical for the operation of the system and for working out measures to rectify them. In our research and development centers, we perform realistic tests on test rigs or in original pumps. The objective is to extend the MTBF and to increase system serviceability by individual and constructive solutions.

Service agreements

We offer our customers specific agreements that can be combined from the six service modules. Whether for individual seal systems, critical process elements, specific system areas or an extensive seal service for complete plants: the modular structure of our service makes it possible to satisfy individual requirements. With our tried-and-tested monitoring instrument, SEPRO, we can also record all data relevant for the seals for documentation and evaluation purposes.
EagleBurgmann is one of the internationally leading companies for industrial sealing technology. Our products are used everywhere where safety and reliability are important: in the oil and gas industry, refining technology, the petrochemical, chemical and pharmaceutical industries, food processing, power, water, mining, pulp & paper, aerospace and many other spheres. Every day, more than 6,000 employees contribute their ideas, solutions and commitment towards ensuring that customers all over the world can rely on our seals. Our modular TotalSealCare service underlines our strong customer orientation and offers tailor-made services for every application.

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