ANDRITZ centrifugal pump
ACP/ARE series
High efficiency and robust design

For over 100 years, ANDRITZ has been a byword for competence and innovation in designing centrifugal pumps.

ANDRITZ horizontal centrifugal pumps are operating successfully all over the world. They offer robustness and wear resistance, and fulfill high customer expectations in terms of efficiency, life cycle, maintenance-friendliness, and economic efficiency.

Modular system
The standard components in ANDRITZ pumps provide high availability and enable the use of proven components.

Fields of application
- Pulp and paper industry
- Water supply and waste water treatment
- Power industry
- Food industry (e.g. sugar)
- Bioethanol
- Chemical industry

Facts
- Flow rates up to 6,000 m³/h
- Heads up to 160 m
- Casing pressure up to 25 bar
- Temperatures up to 200° C
- Consistencies up to 6% atro (ARE-design up to 8% atro)
- Efficiency up to 90%
- Only five bearing support sizes for the entire series!

Technology to convince you
The high standard of ANDRITZ centrifugal pumps is based on decades of experience in designing hydraulic machines and on extensive process know-how.
Proven open-impeller design, series ACP

The open-impeller design of the ANDRITZ centrifugal pumps ACP series is characterized by low axial thrust. With its open channels, it is suitable for conveying many different media.

Shaft sealing
- Single mechanical seal for stock conveyance without sealing and rinsing water
- Capital investment and operating cost savings!

Sturdy bearing support
- Single casting with integrated lantern
- Only five bearing support sizes for the entire series

Sturdy shaft
Ensures minimum shaft deflection and low mechanical vibration!

Tough bearings
Long service life!

Wear lining
- One wear lining to protect the pump casing

Impeller design
- Open with three blades for a large open cross section
- Semi-open with five to eight blades for high pressures

ARE series with SMARTSEP degassing system

ANDRITZ offers the newly developed SMARTSEP-degassing system especially designed for high gas content and stock suspensions of up to 8%. The pump is equipped with an integrated degassing system which removes gas from the media and conveys any fibres back to the pump. Controlling of the degassing valve becomes very easy: pump is running – valve is open, pump is not running – valve is closed.

SMARTSEP
- Integrated degassing-system for media with high gas content
High research and development capabilities

We run a pilot plant at our affiliate ASTRØ, which enjoys international renown for its hydraulic developments and investigations. The high quality, safety and reliability of the ACP/ARE series pumps are ensured by extensive model testing.

Various sealing systems

- Stuffing box seal
- Single mechanical seal
- Tandem mechanical seal
- Single or double cartridge seal
Characteristic curves
Centrifugal pumps, ACP/ARE series

Material combinations

<table>
<thead>
<tr>
<th>European standard</th>
<th>US standard</th>
<th>Name</th>
<th>Grade</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN-JL 1040</td>
<td>7</td>
<td>EN-GJL 250</td>
<td>Class 40B</td>
<td></td>
</tr>
<tr>
<td>1.4460</td>
<td>J93370</td>
<td>X2CrNiMoN27-5-2</td>
<td>Grade 1A</td>
<td></td>
</tr>
<tr>
<td>1.4462</td>
<td>J93373</td>
<td>X2CrNiMoN22-5-3</td>
<td>S32205</td>
<td>S32205</td>
</tr>
<tr>
<td>1.4517</td>
<td>J93373</td>
<td>GX2CrNiMoCuN25-6-3-3</td>
<td>Grade 1C</td>
<td></td>
</tr>
<tr>
<td>1.4517 h</td>
<td>J93373</td>
<td>GX2CrNiMoCuN25-6-3-3</td>
<td>Grade 1C</td>
<td></td>
</tr>
<tr>
<td>1.4469</td>
<td>J93404</td>
<td>GX2CrNiMoN26-7-4</td>
<td>Grade 5A</td>
<td></td>
</tr>
</tbody>
</table>
Close to our customers

ANDRITZ AG
Stattegger Strasse 18
8045 Graz, Austria
Phone: +43 (316) 6902-0
Fax: +43 (316) 6902-413
pumps@andritz.com

www.andritz.com/pumps

All data, information, statements, photographs, and graphic illustrations in this leaflet are without any obligation and raise no liabilities to or form part of any sales contracts of ANDRITZ AG or any affiliates for equipment and/or systems referred to herein. © ANDRITZ AG 2015. All rights reserved. No part of this copyrighted work may be reproduced, modified or distributed in any form or by any means, or stored in any database or retrieval system, without the prior written permission of ANDRITZ AG or its affiliates. Any such unauthorized use for any purpose is a violation of the relevant copyright laws. ANDRITZ AG, Stattegger Strasse 18, 8045 Graz, Austria.