

GHIOLDI RAPPRESENTANZE
INDUSTRIALI

Walter Ghioldi – 20147 Milano
phone +39 393 9924134
info@ghioldirappresentanze.it
www.ghioldirappresentanze.it



PUMPS

ECONOMIC OPTION FOR DIFFICULT MEDIA

SEWAGE PUMPS, DRY, VP/CP SERIES

ANDRITZ

ENGINEERED SUCCESS

ANDRITZ Pumps for your industry



Water



Pulp and
paper



Food



Mining and
minerals



Power



Other
industries

ANDRITZ develops and manufactures high-quality custom tailored pumps for various industries. We supply pumps for different water and waste water applications. ANDRITZ pumps are operating successfully worldwide, for example in water resources management, waste water disposal, as well as large infrastructure projects for irrigation, desalination, and for drinking water and industrial water supplies.

Thousands of ANDRITZ submersible motors and pumps have been installed in mines around the world, working under severest conditions in water management and emergency drainage, including the largest submersible dewatering pumps in the world.

As plant and equipment supplier to the pulp and paper industry, ANDRITZ provides a complete pump program. Our product portfolio comprises medium-consistency pumps with an innovative fiber separation system, for example, as well as headbox pumps with efficiencies of over 90% and particularly low pulsation.

We also supply high-performance and reliable pumps for food applications such as proteins, dairy products, or beverages as well as a complete pump program for the entire sugar and starch industry. To round off the portfolio, ANDRITZ small hydropower plants and pumps used as turbines suitable for the private as well as the municipal sectors, and for industrial and commercial facilities ensure an economic and ecological independent power generation.

Premium pumping technology

For over 165 years, ANDRITZ has been a byword for competence and innovation in designing centrifugal pumps. Our end-suction centrifugal pumps are operating in various industrial applications successfully all over the world. They offer robustness and wear resistance, and fulfill highest customer expectations in terms of efficiency, life cycle, maintenance friendliness, and economic efficiency. The high standard of ANDRITZ centrifugal pumps is based on decades of experience in designing hydraulic machines and on extensive know-how. Our goals at ANDRITZ are to provide first-class products and service to secure sustained customer satisfaction.

Conveyance of coarse media requires special measures in terms of design and materials used. ANDRITZ dry installed sewage pumps from the VP/CP series have been specially developed for these applications. They are suitable for conveying sludge containing large particles, abrasive media, low-viscosity, high-viscosity as well as gaseous and non-gaseous slurries. The non-clogging pumps with large free passages can be equipped with different impeller types responding to media requirements. Sturdy designs and wear-resistant execution guarantee a long service life. A modular system provides for high availability, enables the use of proven components, and reduces the number of spare parts to be held in stock.

ANDRITZ DRY INSTALLED SEWAGE PUMPS

from the VP series are a particularly economic option for difficult media. These pumps transport suspensions with up to 60 mm particle size. ANDRITZ dry installed sewage pump, CP series, is characterized by an exceptionally large cross section and open channel in the spiral casing. Thus, the pumps are suitable for very rough conditions and suspensions with up to 140 mm particle size.

All pump types fulfill high expectations regarding efficiency, life cycle, maintenance friendliness and economic efficiency. All pump parts are manufactured according to the highest quality standards in our ISO certified workshops. The superior quality of our products derives from compliance with these stringent requirements. These pumps can be delivered with an Industrial Internet of Things upward integratable base.

FIELDS OF APPLICATION – VP SERIES

- Suspensions, slurries
- Media with high air content
- Stock suspensions with light fraction
- Sludge
- Industrial waste water

FIELDS OF APPLICATION – CP SERIES

- Wood chips
- Municipal waste water
- Extremely abrasive media
- Slurries containing large particles
- Very long fibres

PRODUCT FACTS*:

- Head up to 75 m
- Flow rate up to 1,800 m³/h
- Free passage up to 140 mm
- Pressure up to 16 bar
- Temperature up to 120° C

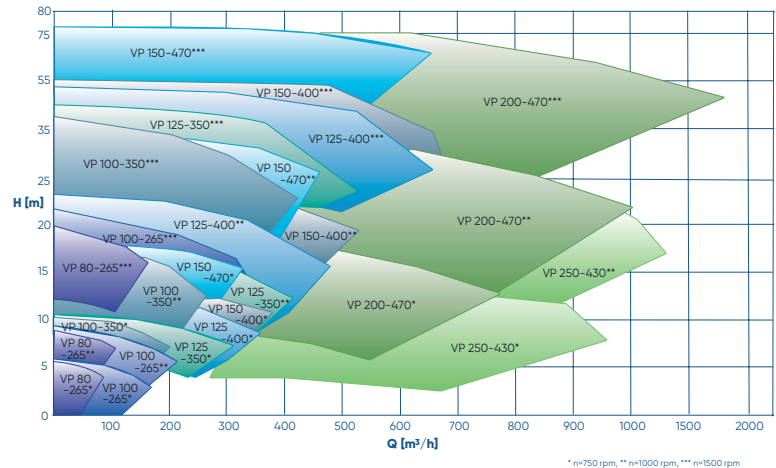
*These values are guidelines and may differ depending on project requirements



ANDRITZ dry installed sewage pump, VP series

PRODUCT BENEFITS

- Special design for conveyance of coarse media
- Suitable for very rough conditions
- Specially developed free-flow impeller
- Easy to maintain due to its modular design; impeller unit can be removed from the installed pump casing
- IIoT ready



MATERIAL COMBINATIONS

VP/CP series	EN-GJL-250	1.4474	1.4021	1.4462	1.4517	1.4517 hardened
Impeller		■ (CP)			■	
Volute casing	■ (VP)	■				
Bearing housing	■					
Front and rear lining		■				■ (CP)
Casing cover		■				
Stuffing box body		■			■	
Shaft			■ (VP)	■		■

European standard

Number	Name	Grade	UNS
5.1301	EN-GJL-250	Class 40B	/
1.4474	X3CrNiMoN27-5-2	Grade 1A	J93370
1.4021	X20Cr13	420	S42000
1.4462	X2CrNiMoN22-5-3	S32205	S32205
1.4517	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373
1.4517 hardened	GX2CrNiMoCuN25-6-3-3	Grade 1C	J93373



1 IN-LINE DESIGN

- Suction and delivery branches on one axis

2 SPIRAL CASING

- Composed of existing modular items

3 SPECIALLY DEVELOPED FREE-FLOW IMPELLER

- Wear-resistant materials
- No radial forces

4 FREE PASSAGE

- 18 to 60 mm

5 SHAFT SEALING

- Stuffing box
- Double mechanical seal and single mechanical seal

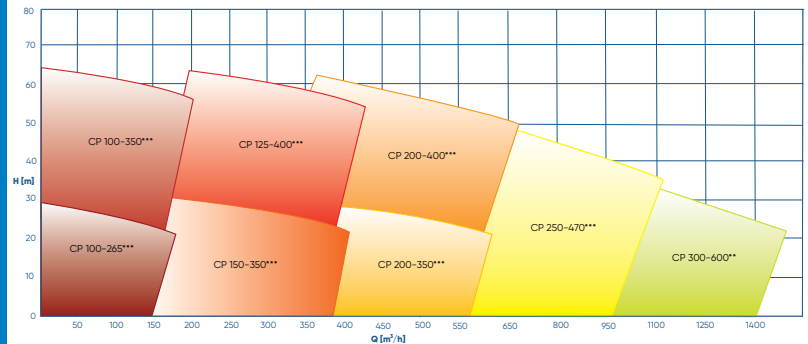
6 STURDY BEARING SUPPORT

- Composed of proven modular items

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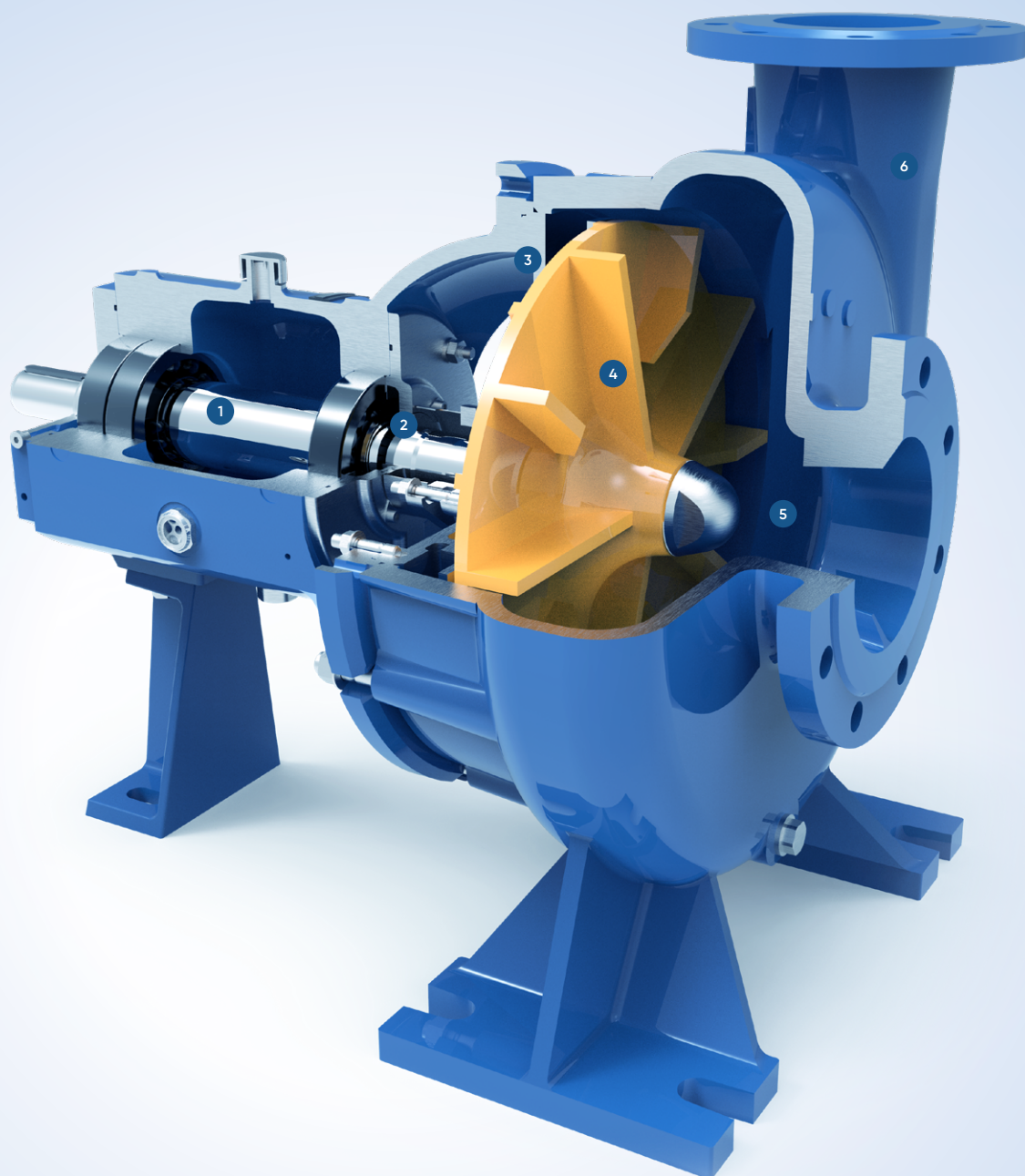


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Shaft			■ (VP)	■		■

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1 STURDY BEARING SUPPORT

- Composed of proven modular items

2 SHAFT SEALING

- Maintenance-friendly single or double mechanical cartridge seal
- Stuffing box

3 EXCHANGEABLE WEAR LININGS

- To protect the casing cover

4 SPECIALLY DEVELOPED FREE-FLOW IMPELLER

- Wear-resistant materials
- No radial forces

5 FREE PASSAGE

- 75 to 140 mm

6 FLOW-OPTIMIZED DELIVERY BRANCH

- Ensures non-clogging operation

Greater efficiency for a competitive edge – Pumps service

Optimization / Modernization / Operating reliability

The conditions of your plant have changed, but your pumps are still operating as previously and therefore, wasting energy? Would you like to optimize your system to reduce costs? With ANDRITZ, you will have a competent partner for these and numerous other services at your side.

Service and maintenance have a long tradition at ANDRITZ and complement the product portfolio. The century-long expertise is reflected not only in a service portfolio with innovative solutions and advanced products that can be optimally adapted to the respective customer needs, but also in a specially trained staff. ANDRITZ has specialized in the servicing of pumps to achieve improved efficiencies and adaptations to changed operating points of the installed pumps. A large potential for savings can already be achieved by improving the efficiency of 20 percent of the installed pumps. Our service team provides prompt, professional, and reliable assistance – also for other manufacturers' products. Book our service package and you can be sure of the best operating reliability for your systems in the long term. We conduct an expert assessment together with you, thus creating transparency and making an op-

timum solution possible that is tailored to your needs. After examining your plant, we determine its savings potential and realize it by improving the efficiency of the pumps installed. Additionally, this individual solution lowers your maintenance costs. You do not have to think about personnel, nor about maintenance schedules or utilities. Assembly is conducted according to defined schedules and with assistance from our trained personnel.

AN OVERVIEW OF OUR SERVICES

- Supply of original spare parts
- Deployment of trained personnel
- Installation and start-up
- Inspection
- Repairs, overhauls, maintenance
- Machine assessment by an expert for early fault detection
- Consulting and modernization
- Performance and vibration measurement
- Fault and damage analyses
- Feasibility studies
- Energy consulting for pumps and systems
- Preparation of maintenance schedules
- Service and maintenance agreements
- Automation and Electrical Power Systems
- Electronic equipment
- Training

Find out more about
ANDRITZ pumps service



Always a flow ahead - Research and development

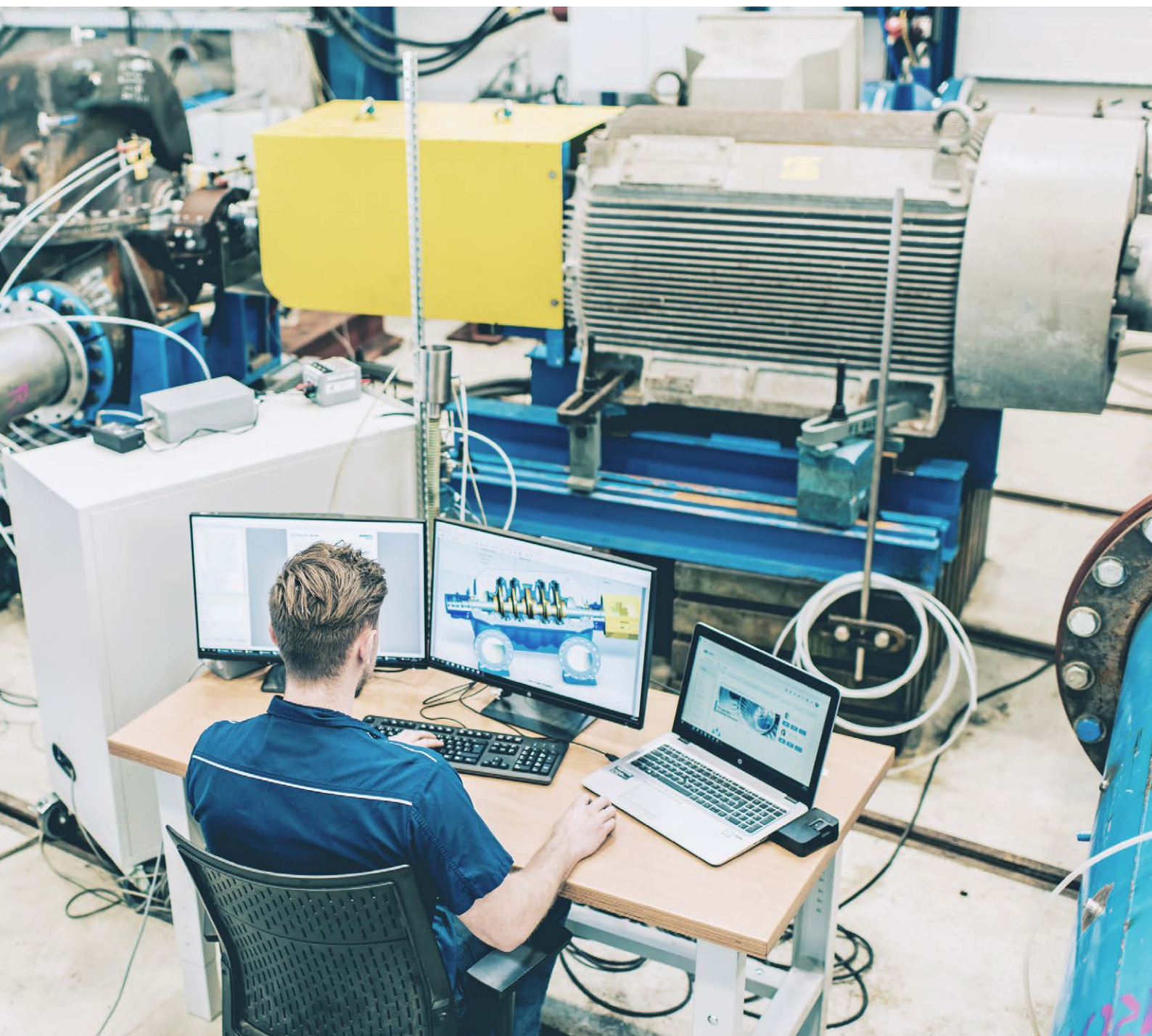
Our affiliate ASTROE enjoys an internationally renowned reputation for its hydraulic developments and investigations. The high efficiency of the ANDRITZ pump series is ensured by Computational Fluid Dynamic (CFD) calculations and extensive testing carried out in our company owned laboratory.

Continuously increasing demands by customers in our operating industries emphasize the significance of R&D in the constant optimization of products and services. Today, efficiency, flexibility, and reliability over an extended lifetime are the major challenges of the market.

Our commitment to research and development forms the basis for our advances in hydraulic machine manufacturing. With ASTROE, center for hydraulic engineering and laboratory, we have an internationally renowned institute for hydraulic development work at our disposal. We are currently developing and testing our pumps and turbines at five locations in Austria, Germany, Switzerland, and China. Our test stands are among the most accurate in

the world. By networking these research and development centers, we provide a continuous transfer of know-how within the ANDRITZ GROUP for the benefit of our customers. The main tools for R&D are numerical simulation methods as well as experimental measurements in the laboratory and on site. State-of-the-art equipment, highly precise measuring instruments as well as the latest simulation technologies, and powerful software form the basis of the high technical quality of the pumps and turbines from ANDRITZ.







INNOVATION SINCE 1852

The internationally renowned ANDRITZ GROUP has been building pumps for more than 165 years. We offer innovative and targeted solutions with pumps and complete pumping stations. Our longstanding experience in hydraulic machine manufacturing and complete process know-how form the basis of the high standard of ANDRITZ pump engineering. Our quality and high-efficiency products as well as our understanding of customer requirements have made us a preferred partner for pumping solutions worldwide. ANDRITZ offers everything from a single source – from development work, model tests, engineering design, manufacture and project management, to after-sales service and training. We also perform complete start-up on site and guarantee our customers the best support. Our declared goal is your complete satisfaction. See for yourself!

EUROPE

ANDRITZ AG
Stattegger Strasse 18
8045 Graz, Austria
p: +43 316 6902-2509
f: +43 316 6902-413
pumps@andritz.com

ANDRITZ Ritz GmbH
Güglingsstraße 50
73529 Schwäbisch Gmünd,
Germany
p: +49 7171 609-0
f: +49 7171 609-287
ritz@andritz.com

SOUTH AMERICA

ANDRITZ HYDRO S.A.
Av. Juruá 747, Alphaville Industrial
06455-010, Barueri, SP - Brasil
p: +55 11 4133-0000
f: +55 11 4133-0037
bombas-brazil@andritz.com

ASIA

ANDRITZ (CHINA) LTD.
No.83 B Zone, Leping Central Technology & Industry Park, Sanshui District,
Foshan 528137, Guangdong, P.R.China
p: +86 0757 6663-3102
atc_pumps@andritz.com

ANDRITZ Separation & Pump
Technologies India Pvt. Ltd.
S.No. 389, 400/2A & 400/2C,
Padur Road, Kuthambakkam
Village, Poonamallee Talluk,
Thiruvallur District –
600124, Chennai, India
p: +91 44 4399-1111
pump.in@andritz.com

ANDRITZ FZCO
Dubai Airport Free Zone (DAFZA)
Building 6WB – Office No. 642
Dubai, United Arab Emirates
T: +971 4 214 6546
dubai@andritz.com

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GHIOLDI RAPPRESENTANZE
INDUSTRIALI

Walter Ghioldi – 20147 Milano
phone +39 393 9924134
info@ghioldirappresentanze.it
www.ghioldirappresentanze.it



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