



PexTec®

The smart solution  
for unlimited runtime

voestalpine Tubulars GmbH & Co KG  
[www.voestalpine.com/tubulars](http://www.voestalpine.com/tubulars)

voestalpine

ONE STEP AHEAD.



# PERFORMANCE IN TUBULARS

Our world is based on high tech seamless pipes that can withstand the toughest conditions, day in, day out. We promise highest performance based on the core values customization, innovation, sustainability and responsibility.



CUSTOMIZATION



INNOVATION



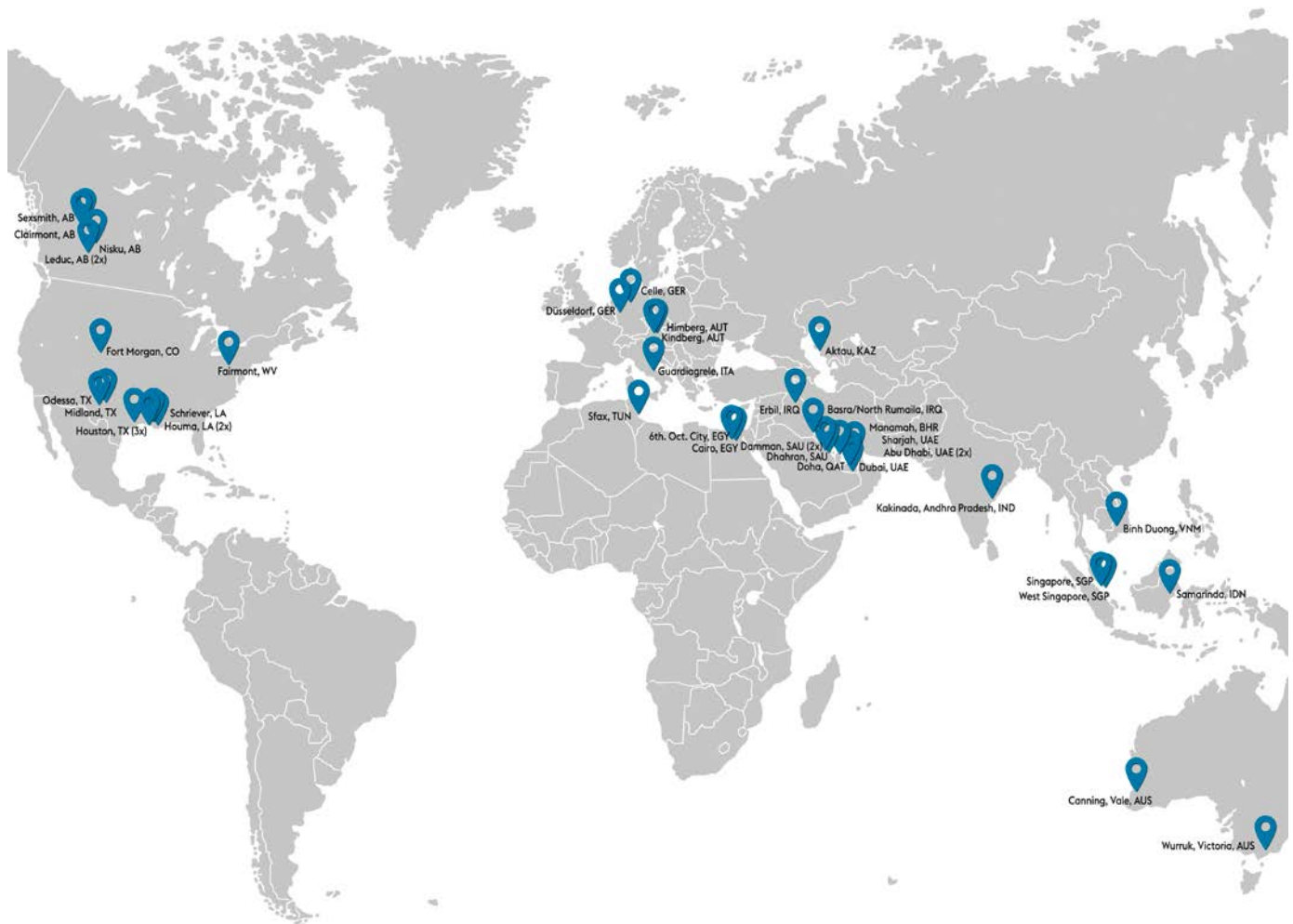
SUSTAINABILITY



RESPONSIBILITY



# PRODUCTION, R&D, SALES LOCATIONS AND LICENSEES

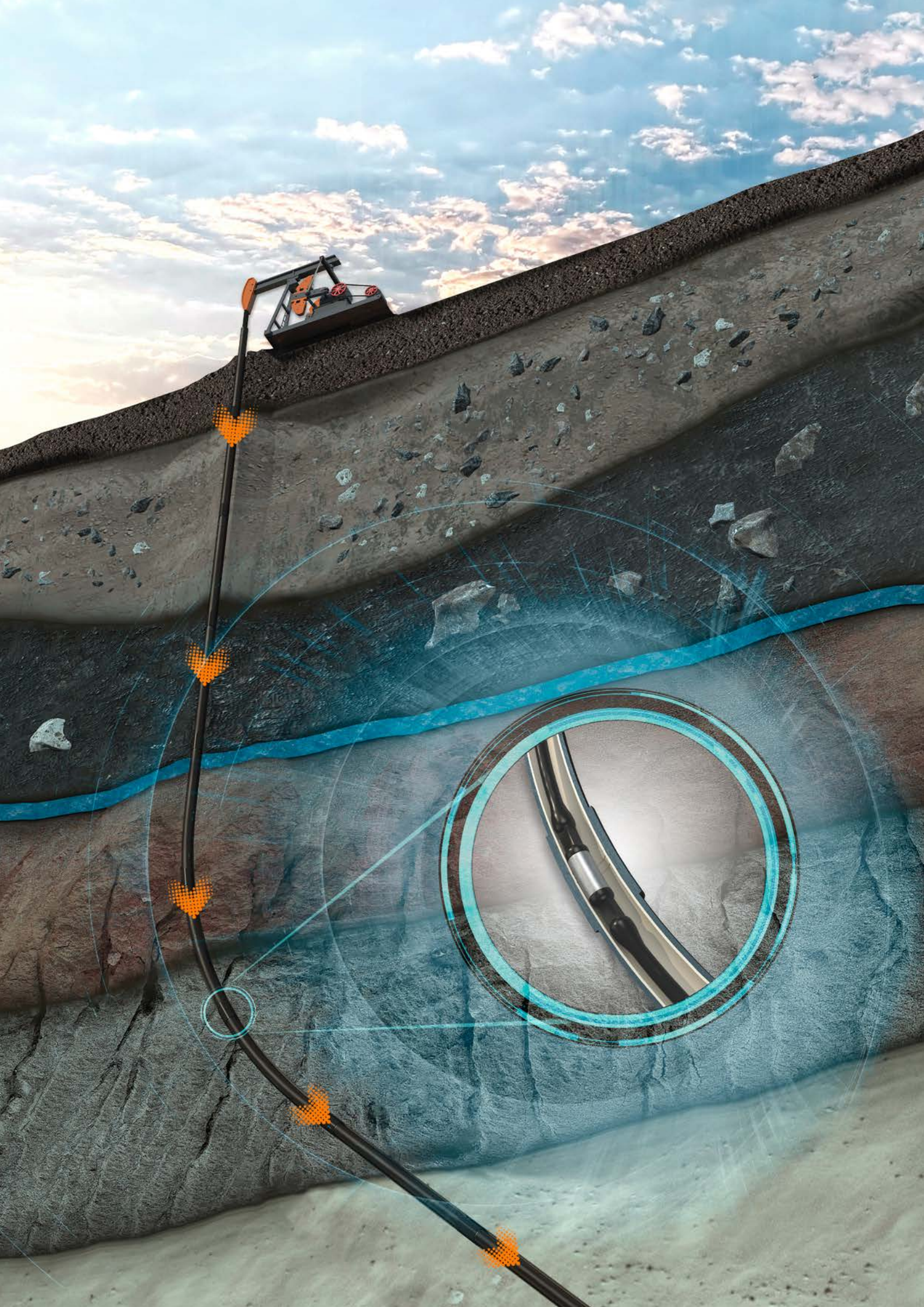


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# DESIGN CHARACTERISTICS & DIMENSIONS

PexTec® offered by voestalpine Tubulars provides benefits exceeding the standards and surpassing alternative lining solutions for sucker rod or progressive cavity pumped wells currently available on the market.



### Currently most wanted

PIPE			
Outside Diameter		Wall Thickness	
inch	mm	inch	mm
2 7⁄8	73.02	0.217	5.51
3 1⁄2	88.90	0.254	6.45
4 1⁄2	114.30	0.271	6.88

LINER			
Outside Diameter		Inside Diameter	
inch	mm	inch	mm
2.402	61.00	2.087	53.00
2.953	75.00	2.598	66.00
3.929	99.80	3.543	90.00

# PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

### INCREASED RUNTIME » SAVES WORKOVER COSTS

PexTec eliminates tribocorrosion by keeping abrasion, mainly caused by the sucker or PCP rod, away from the steel tubing, which increases the runtime between tubing-related workovers by up to 20 times, leading to a significant reduction of workover costs. If sucker rods are equipped with spray metal couplings, the run-time can be further improved.

### SOLUTION FOR DIRECTIONAL WELLS » PROTECTS BENDED SECTIONS

PexTec is the smart solution for directional wells, protecting the tubing string especially in bended areas, where frictional forces of sucker and PCP rod strings have the highest impact.

### SMOOTH INTERNAL SURFACE » REDUCES FRICTION AND ENERGY COSTS

The smooth inner surface reduces friction, easing the pumping operations and therefore reducing energy costs at the same time. The impact of the smaller inner diameter on the flow rate is compensated by a lower friction coefficient.

### THERMAL INSULATION » REDUCES PARAFFIN IMPAIRMENT COSTS

The liner, acting as a thermal insulation, reduces the paraffin adherence in the pipe string.

# TECHNICAL DATA

**Temperature resistance:** Up to 95 °C

**Insulation capability:** Thermal conductivity 0,35 W / (m·K) at 20 °C

**Installation time:** Same as for regular tubing

**Tubing dimensions:** Most wanted: 2 7/8", 3 1/2", 4 1/2" (other dimensions available upon request)

## COMPARISON OF PexTec® TO CONVENTIONAL TUBING

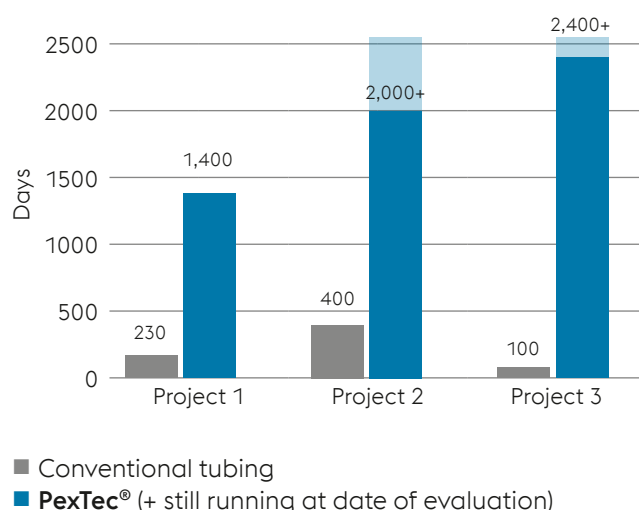
Below case studies compare the mean time between failures for tubing related interventions, all showing a clear advantage of PexTec® compared to conventional tubing due to a significantly higher runtime. Partially sucker rods had been equipped with spray metal couplings for further improvement of the runtime.

### Project 1

Project location	Romania
Nr. of wells	533
Pumps	» 54 Sucker Rod Pumps » 418 Progressive Cavity Pumps » 61 Water Injection Wells
Tubing sizes	2 7/8", 3 1/2"
Mean time – conventional tubing	230 days
Mean time – PexTec® tubing	1,400 days

- » **Runtime 6 times longer with PexTec®** than with conventional tubing (increased from 7,5 months to almost 4 years).

### Runtime Comparison



### Project 2

Project location	Austria
Nr. of wells	20
Pumps	Sucker Rod Pumps
Mean time – conventional tubing	400 days
Mean time – PexTec® tubing	over 2,000 days (pumps still running at time of data evaluation)

- » **Runtime more than 5 times longer with PexTec®** than with conventional tubing (increased from 1 year to more than 5,5 years).

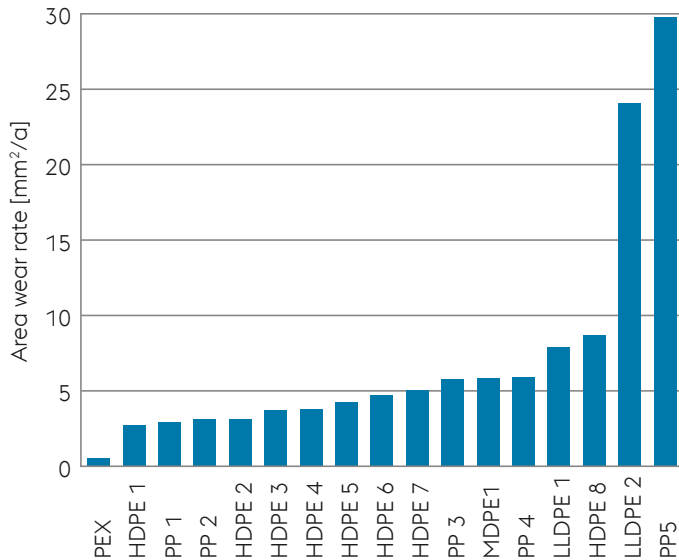
### Project 3

Project location	Romania
Nr. of wells	20
Pumps	Sucker Rod Pumps
Mean time – conventional tubing	100 days
Mean time – PexTec® tubing	over 2,400 days (pumps still running at time of data evaluation)

- » **Runtime more than 24 times longer with PexTec®** than with conventional tubing (increased from 3 months to more than 6,5 years).

# PERFORMANCE

## EXTRAORDINARY LOW WEAR RATE FOR LONG LIFETIME



A comparison of PexTec® with other lining solutions shows that the wear rate of PEX liners is substantially below the wear rates of alternative products. Test results achieved without spray metal couplings.

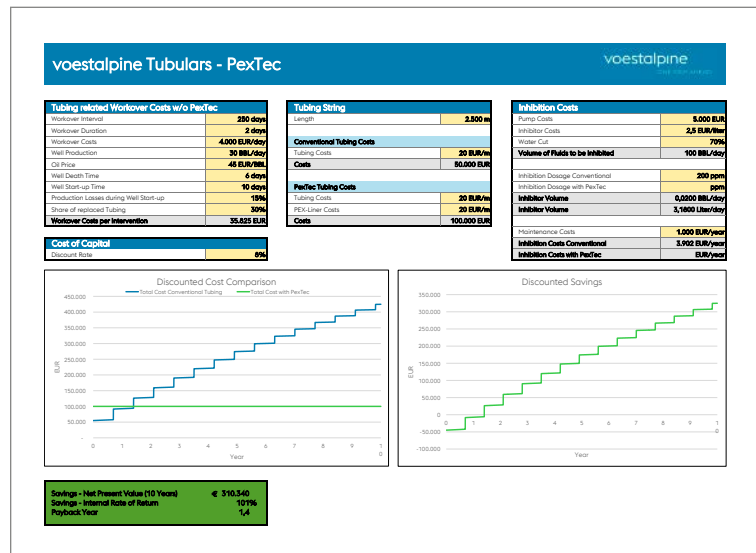
Source: Study about "Increased Tubing Lifetime with PEX Liners" published in OIL GAS European Magazine

## SUBSTANTIALLY LONGER RUNTIME FOR MEASURABLE VALUE

Depending on the field requirements (workover interval, workover duration, well production, etc.) and cost structure (workover costs, pump costs, inhibitor costs, etc.), PexTec® could be the optimal choice for your upcoming project instead of conventional tubing.

For an easier comparison of conventional tubing and PexTec®, voestalpine Tubulars created a calculation tool.

Over a timeframe of 10 years, you get an overview about costs, possible savings, and the related break-even point.



Ask our sales team for a value analysis of your upcoming project!

Contact details available on our web page  
[www.voestalpine.com/tubulars](http://www.voestalpine.com/tubulars) or in the free myTubulars App.





# SERVICES



myTubulars

## **myTubulars APP** **PRODUCT DATASHEETS,** **FIELD SERVICE AND LICENSEES**

Generate datasheets and load envelopes containing dimension and performance data for products provided by voestalpine Tubulars with our Datasheet Generator. You can quickly and easily check the product application against field requirements in advance also on your tablet or smartphone by using the myTubulars App.

myTubulars is available for all iOS and Android devices for free in the App stores.

## **GET THE APP!**



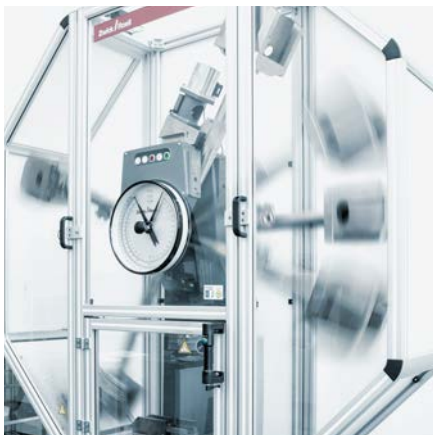
Field Service during the installation can be provided upon request. Please visit the Customer Service site on our web page [www.voestalpine.com/tubulars](http://www.voestalpine.com/tubulars)





# WHY voestalpine Tubulars?

Support from material and product selection, in-house material and product development, to final product and installation consulting from one source.



PRODUCT DEVELOPMENT



CONNECTION DEVELOPMENT



MATERIAL DEVELOPMENT



PROCESS DEVELOPMENT



TAILOR-MADE SOLUTIONS



FIELD SERVICE

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