



# PERFORMANCE IN TUBULARS

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**voestalpine**

ONE STEP AHEAD.

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



# 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

Our customers are confronted daily with the toughest challenges. Their material and equipment are exposed to extreme conditions. Therefore it is our mission to provide our customers with customized seamless tubular products and innovative solutions with excellent durability and low life cycle costs.



## INNOVATION

What our customers rely on, is a history rich in metallurgical tradition, manufacturing knowledge and understanding of field applications – a perceptive view of production and products, including on-site developing and testing capabilities for enhanced customer demands.



## SUSTAINABILITY

Whether it is premium & preprocessed industrial pipe product solutions or ready-to-install oil and gas product solutions, voestalpine Tubulars makes every effort to meet the highest technical and economical demands. It is our obligation to keep the environment pristine and unspoiled. Certificates confirm this conformity with numerous national and international standards and regulations.



## RESPONSIBILITY

The well-being of our employees & customers as well as to have the best possible knowledge of their needs have highest priority to us. It is our responsibility to give all employees and customers the best possible support and to create optimum, safe and fair working conditions across borders and cultures. Only in this way we can succeed in providing reliable and sustainable products with highest performance tailored to the demands of our customers.



# CUSTOMER BENEFITS

## QUALITY, FLEXIBILITY, SAFETY

Quality is the prerequisite for products that have to withstand extreme conditions. Our dedicated employees work continuously on solutions to our customers' challenges with technical experience, flexibility and ingenuity. Quality standards are more to us than rules, they serve as the baseline which we strive to exceed. The outcome: safe, reliable products and product solutions.

### SAMPLE LIST OF THE COMPANY'S CERTIFICATES

- » API 5 CT, API 5 L, API 5 DP
- » Lloyds Register
- » DNV approval of manufacturer
- » CE approval for construction products
- » Pressure Equipment Directive
- » Quality Management System ISO 9001
- » Environmental Management System ISO 14001
- » IT Management System ISO 27001
- » Health and Safety Management System ISO 45001
- » Energy Management System ISO 50001
- » Asset Management System ISO 55001



### WORLDWIDE SUPPORT

The international network of sales teams, technical sales, licensees and partners provides an essential proximity to customers and allows comprehensive customer service.



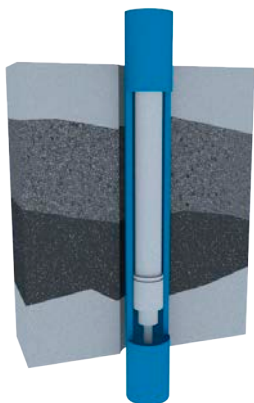
# OIL & GAS PRODUCTS AND PRODUCT SOLUTIONS

All over the world the oil and gas industry relies on our customized, safe, environmentally friendly tubular solutions.

## OCTG

Casing, Tubing and Accessories are available in API or Proprietary Grades, combined with API or Proprietary Connections, as doped versions or as dope free DryTec® connections.

Internal and external coating solutions for all products can be offered with external partners.



**Casing**



**Tubing**



**Accessories**

- » Pup Joints
- » Crossovers
- » Couplings

# TUBING MANUFACTURING RANGE

Pipe Outside Diameter		Weight						
		P.E.		NU		EU		
inch	mm	ppf	kg/m	ppf	kg/m	ppf	kg/m	
1.660	42.16	2.05	3.06	-	-	-	-	
		2.27	3.39	2.30	3.42	2.40	3.57	
		3.00	4.46	3.03	4.51	3.07	4.57	
1.990	48.26	2.37	3.54	-	-	-	-	
		2.72	4.05	2.75	4.09	2.90	4.32	
		3.63	5.41	3.65	5.43	3.73	5.55	
		4.41	6.56	4.42	6.58	-	-	
		5.13	7.64	5.15	7.66	-	-	
2.063	52.40	3.18	4.73	-	-	-	-	
		4.42	6.58	-	-	-	-	
2 ¾	60.32	3.94	5.87	4.00	5.95	-	-	
		4.44	6.61	4.60	6.85	4.70	6.99	
		5.03	7.49	5.10	7.57	-	-	
		5.76	8.57	5.80	8.63	5.95	8.85	
		6.56	9.76	6.60	9.82	-	-	
		7.32	10.89	7.35	10.94	7.45	11.09	
2 ⅝	73.02	6.17	9.17	6.40	9.52	6.50	9.67	
		7.67	11.41	7.80	11.61	7.90	11.76	
		8.45	12.57	8.60	12.80	8.70	12.95	
		9.21	13.72	9.35	13.91	9.45	14.06	
		10.40	15.49	10.50	15.63	-	-	
		11.45	17.05	11.50	17.11	-	-	
3 ½	88.90	7.58	11.29	7.70	11.46	-	-	
		8.81	13.12	9.20	13.69	9.30	13.84	
		9.92	14.76	10.20	15.18	-	-	
		12.53	18.64	12.70	18.90	12.95	19.27	
		13.63	20.28	13.70	20.62	-	-	
		14.11	21.00	14.30	21.28	-	-	
		14.68	21.84	14.70	22.16	-	-	
		15.39	22.90	15.50	23.07	-	-	
4	101.60	16.83	25.04	17.00	25.30	-	-	
		9.12	13.57	9.50	14.14	-	-	
		10.47	15.57	10.70	-	11.00	16.37	
		12.95	19.27	13.20	19.64	-	-	
		15.90	23.67	16.10	23.96	-	-	
		18.71	27.84	18.90	28.13	-	-	
4 ½	114.30	22.11	32.89	22.20	33.04	-	-	
		12.25	18.23	12.60	18.75	12.75	18.97	
		15.00	22.32	15.20	22.62	-	-	
		16.77	24.90	17.00	25.30	-	-	
		18.71	27.84	18.90	28.13	-	-	
		21.38	31.82	21.50	32.00	-	-	
		23.59	35.10	23.70	35.27	-	-	
26.06	38.79	26.10	38.84	-	-			



Please note: Nominal weight and wall thickness may be different for Proprietary Connections!

P.E. (P)...Plain end, non upset / NU (N)...Non upset T&C / EU (U)...External Upset T&C / HU...Heavy upset end / T&C...Threaded and coupled

	Wall Thickness		Length	End Finishing
	inch	mm	Range	
	0.125	3.18	1,2,3	P
	0.140	3.56	1,2,3	P, N, U
	0.191	4.85	1,2,3	P, N, U
	0.125	3.18	1,2,3	P
	0.145	3.68	1,2,3	P, N, U, VAGT
	0.200	5.08	1,2,3	P, N, U, VAGT
	0.250	6.35	1,2,3	P, N
	0.300	7.62	1,2,3	P, N
	0.156	3.96	1,2,3	P
	0.225	5.72	1,2,3	P
	0.167	4.24	1,2,3	P, N, HU
	0.190	4.83	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.218	5.54	1,2,3	VAGT, VAsuperior
	0.254	6.45	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.295	7.49	1,2,3	P, N, HU
	0.336	8.53	1,2,3	P, N, HU
	0.217	5.51	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.276	7.01	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.308	7.82	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.340	8.64	1,2,3	P, N, U, HU
	0.392	9.96	1,2,3	P, N
	0.440	11.18	1,2,3	P, N
	0.216	5.49	1,2,3	P, N, HU, VAGT, VAsuperior
	0.254	6.45	1,2,3	P, N, U, HU, VAGT, VAF, VAsuperior
	0.289	7.34	1,2,3	P, N, HU, VAGT, VAF, VAsuperior
	0.375	9.52	1,2,3	P, N, U, HU, VAGT, VAsuperior
	0.413	10.50	1,2,3	VAGT, VAsuperior
	0.430	10.92	1,2,3	P, N, HU, VAsuperior
	0.450	11.43	1,2,3	VAGT, VAsuperior
	0.476	12.09	1,2,3	P, N, VAsuperior
	0.530	13.46	1,2,3	P, N
	0.226	5.74	1,2,3	P, N, HU, VAGT, VAF, VAsuperior
	0.262	6.65	1,2,3	P, U, HU, VAGT, VAsuperior
	0.330	8.38	1,2,3	P, N, HU, VAGT, VAsuperior
	0.415	10.54	1,2,3	P, N
	0.500	12.70	1,2,3	P, N
	0.610	15.49	1,2,3	P, N
	0.271	6.88	1,2,3	P, N, U, HU, VAGT, VAF, VAroughneck, VAsuperior, VAwizard
	0.337	8.56	1,2,3	P, N, HU, VAGT, VAsuperior
	0.380	9.56	1,2,3	P, N, HU, VAGT, VAsuperior
	0.430	10.92	1,2,3	P, N, HU, VAGT, VAsuperior
	0.500	12.70	1,2,3	P, N, HU
	0.560	14.22	1,2,3	P, N, HU
	0.630	16.00	1,2,3	P, N

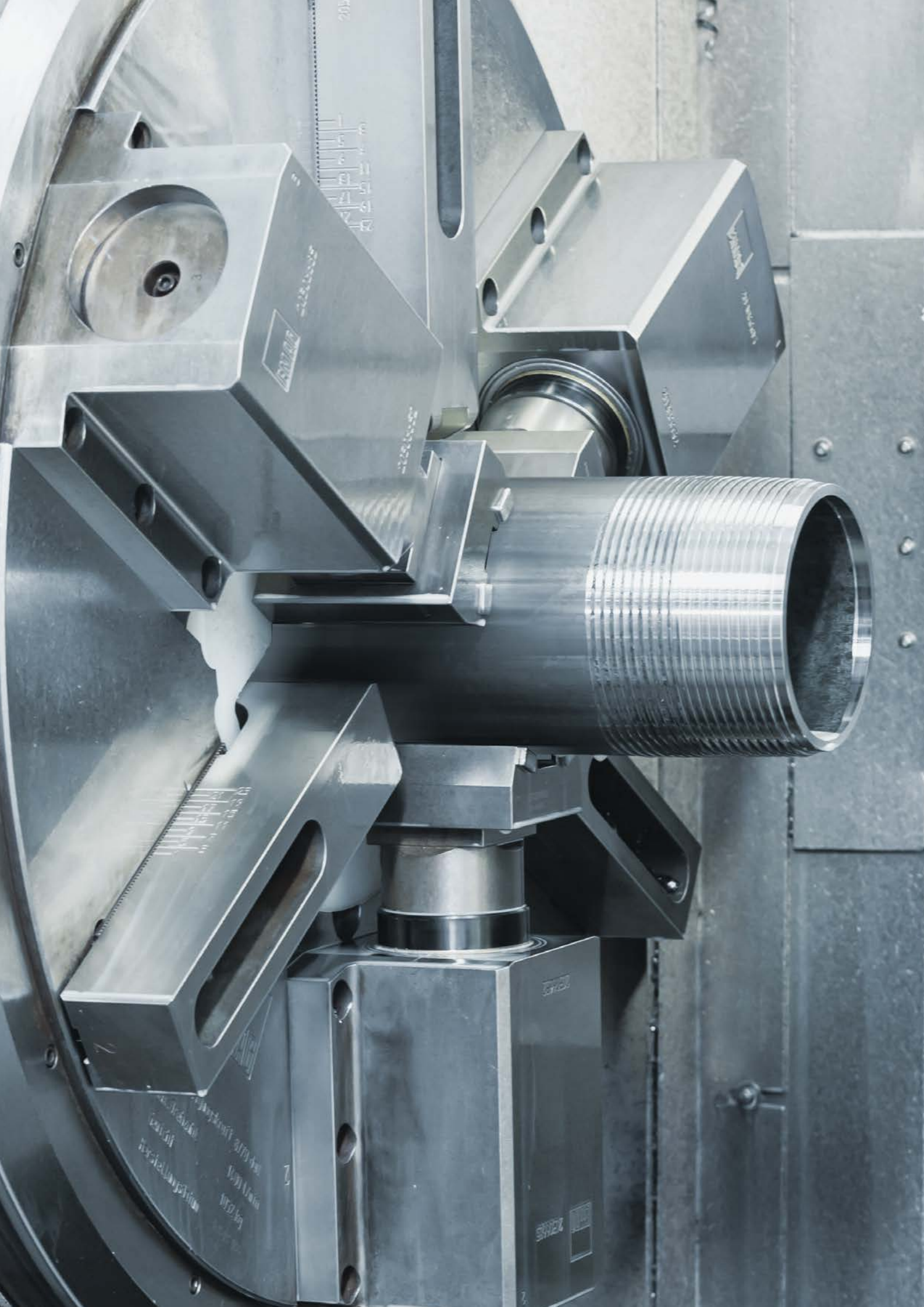
# CASING MANUFACTURING RANGE

Pipe Outside Diameter		Weight				Wall Thickness		
		P.E.		NU				
inch	mm	ppf	kg/m	ppf	kg/m	inch	mm	
4 ½	114.30	9.41	14.02	9.50	14.14	0.205	5.21	
		10.24	15.24	10.50	15.63	0.224	5.69	
		11.36	16.91	11.60	17.26	0.250	6.35	
		13.05	19.44	13.50	20.09	0.290	7.37	
		15.00	22.32	15.10	22.47	0.337	8.56	
5	127.00	11.24	16.74	11.50	17.11	0.220	5.59	
		12.84	19.12	13.00	19.35	0.253	6.43	
		14.88	22.16	15.00	22.32	0.296	7.52	
		17.95	26.70	18.00	26.79	0.362	9.19	
		21.32	31.73	21.40	31.85	0.437	11.10	
		23.11	34.39	23.20	34.53	0.478	12.14	
		24.05	35.80	24.10	35.86	0.500	12.70	
5 ½	139.70	13.71	20.41	14.00	20.83	0.244	6.20	
		15.36	22.85	15.50	23.07	0.275	6.98	
		16.89	25.13	17.00	25.30	0.304	7.72	
		19.83	29.52	20.00	29.76	0.361	9.17	
		22.56	33.57	23.00	34.23	0.415	10.54	
		25.57	38.05	26.00	38.65	0.476	12.09	
		26.72	39.78	26.80	39.88	0.500	12.70	
		29.67	44.14	29.70	44.20	0.562	14.27	
		32.57	48.49	32.60	48.51	0.625	15.88	
		35.35	52.61	35.30	52.53	0.687	17.45	
		38.08	56.68	38.00	56.55	0.750	19.05	
5 ¾	146.05	16.12	24.00	16.40	24.95	0.276	7.00	
		17.63	26.26	17.90	27.21	0.303	7.70	
		18.28	27.23	19.00	28.26	0.315	8.00	
		19.35	28.82	19.70	29.78	0.335	8.50	
		20.41	30.41	20.40	31.40	0.354	9.00	
6	152.40	23.95	35.64	24.50	36.43	0.400	10.16	
6 ⅝	168.28	19.51	29.06	20.00	29.76	0.288	7.32	
		23.60	35.13	24.00	35.72	0.352	8.94	
		27.67	41.18	28.00	41.67	0.417	10.59	
		31.23	46.46	32.00	47.62	0.475	12.06	
7	177.80	22.65	33.70	23.00	34.23	0.317	8.05	
		25.69	38.21	26.00	38.69	0.362	9.19	
		28.75	42.78	29.00	43.16	0.408	10.36	
		31.70	47.20	32.00	47.62	0.453	11.51	
		34.61	51.52	35.00	52.09	0.498	12.65	
		37.29	55.52	38.00	56.55	0.540	13.72	
		42.65	63.41	42.70	63.54	0.626	15.88	
		46.36	69.01	46.40	69.05	0.687	17.45	
		50.11	74.58	50.10	74.56	0.750	19.05	
7 ⅝	193.68	25.59	38.08	26.40	39.54	0.328	8.33	
		29.06	43.24	29.70	44.70	0.375	9.53	
		33.07	49.22	33.70	50.68	0.430	10.92	
		38.08	56.68	39.00	58.12	0.500	12.70	
		42.43	63.14	42.80	64.60	0.562	14.27	
		44.71	66.54	45.30	68.00	0.595	15.11	

Please note: Nominal weight and wall thickness may be different for Proprietary Connections!

P.E. (P)...Plain end, non upset / T&C...Threaded and coupled / SC (S)...Short round thread T&C / LC (L)...Long round thread T&C / BC (B)...Buttress T&C

	Length	End Finishing
	Range	
	1,2,3	P, S
	1,2,3	P, S, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAF, VAroughneck, VAsuperior, VAwizard
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior, VExplorer, VAwizard
	1,2,3	P, L, B, VAroughneck, VExplorer, VAwizard
	1,2,3	P, S
	1,2,3	P, S, L, B, VAGT, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAF, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, S
	1,2,3	P, S, L, B, VAGT, VAF, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAF, VAroughneck, VAsuperior, VAwizard
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior, VExplorer, VAtitan-TC, VAwizard, VAsuperior-ET
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior, VExplorer, VAtitan-TC, VAwizard, VAsuperior-ET
	1,2,3	VAGT, VAroughneck, VAsuperior, VExplorer, VAwizard
	1,2,3	P, VExplorer
	1,2,3	P
	1,2	P
	1,2	P
	1	P
	1,2,3	P, VAGT, VAsuperior
	1,2,3	P, VAGT, VAsuperior
	1,2,3	B
	1,2,3	B, VAGT, VAsuperior
	1,2,3	B, VAGT, VAsuperior
	1,2,3	VExplorer, VAtitan-TC, VAroughneck
	1,2,3	P, S, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAroughneck, VAsuperior
	1,2,3	P, S, L, B, VAGT, VAroughneck, VAsuperior, VExplorer, VAtitan-TC, VAsuperior-ET
	1,2,3	P, L, B, VAGT, VAroughneck, VAsuperior, VExplorer, VAtitan-TC, VAsuperior-ET
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior, VExplorer
	1,2,3	P, L, B, VAGT, VAF, VAroughneck, VAsuperior
	1,2	P, L, B, VAGT, VAsuperior
	1	P
	1	P
	1	P
	1,2,3	P, L, B, VAroughneck, VAsuperior
	1,2,3	P, L, B, VAF, VAroughneck, VAsuperior
	1,2	P, L, B, VAroughneck, VAsuperior
	1	P, L, B, VAF, VAroughneck, VAsuperior
	1	P, L, B, VAroughneck, VAsuperior
	1	P, L, B, VAroughneck



# CONNECTIONS

## API Standard Connections

All products are available with API Standard Connections.

## Proprietary Connections

voestalpine Tubulars Proprietary Connections offer benefits which are not addressed by the API specification or exceed the API standards. Proprietary Connections are available as doped versions or as dope free DryTec® Connections.

### Threaded and Coupled Connections:



#### VAGT®

the CAL II connection with millions of feet installed worldwide



#### VExplorer®

the high torque CAL IV casing connection for extended reach wells and rotation operations



#### VAwizard®

the connection for deviated multi-fractured horizontal wells with the opportunity to rotate



#### VAroughneck®

the enhanced torque casing connection for rotated strings



#### VASuperior®

the CAL IV connection for extreme conditions



#### VASuperior®-ET

the gas tight connection with enhanced torque capability

### Flush Connections



#### VAF

the CAL II flush connection for slim hole designs, workover strings, liners and tiebacks

### Wedge-type Connection Family



#### VAtitan®

the fit for purpose tested casing connection for extreme torque capabilities

Further connection types are available upon request.

# GRADES



## Standard Grades

All products are available in API Standard Grades. In addition we offer numerous Proprietary Grades. Also tailor-made customer specifications can be fulfilled upon request.

## Proprietary Grades – the VA series

The VA series meet customer requirements that are not addressed by the API specification or exceed the API standards.

Some of the product names explain the application, e.g. deep well, sour service, low temperature.

**The applications for other grades are defined as follows:**

### » VA-High Collapse-Series

for use in high external pressure environments

### » VA-Mild Sweet Gas-Series

for mildly corrosive environments where – in combination with an adequate inhibition program – a higher corrosion resistance can be expected compared to regular API Grades

Specified Minimum Yield Strength [psi]	Grade API Spec 5CT	HIGH COLLAPSE	ENHANCED PROPERTIES
55,000	J55		
	K55		
75,000			
80,000	N80-Q	VA-HC-N80-Q	VA-EP-N80-Q
	L80-1	VA-HC-L80-1	VA-EP-L80-1
	L80-13Cr		
90,000	C90-1	VA-HC-C90-1	VA-EP-C90-1
95,000	R95	VA-HC-R95	VA-EP-R95
	T95-1	VA-HC-T95-1	VA-EP-T95-1
110,000	C110	VA-HC-C110	VA-EP-C110
	P110	VA-HC-P110	VA-EP-P110
125,000	Q125-1	VA-HC-Q125-1	VA-EP-Q125-1
140,000			
150,000			

On request in combination with:



### PROPRIETARY GRADES – THE VA SERIES

EXTREME PROPERTIES	SOUR SERVICE			DEEP WELL		LOW TEMPERATURE	MILD SWEET GAS	MILD SWEET GAS	SWEET GAS
		with High Collapse	with Enhanced Properties		with High Collapse		Ferrite Pearlite	Quenched & Tempered	
						VA-LT-J55	VA-FP-55-1CR		
						VA-LT-K55			
							VA-FP-75-1CR		
VA-XP-N80-Q						VA-LT-N80-Q	VA-FP-80-1CR	VA-N80-Q-1CR/ VA-N80-Q-3CR	
VA-XP-L80-1						VA-LT-L80-1		VA-L80-1-1CR/ VA-L80-1-3CR	
	VA-SS-80	VA-SS-80-HC	VA-SS-80-EP						
VA-XP-C90-1						VA-LT-C90-1			
	VA-SS-90	VA-SS-90-HC	VA-SS-90-EP						
VA-XP-R95						VA-LT-R95		VA-R95-1CR/ VA-R95-3CR	
VA-XP-T95-1						VA-LT-T95-1			
	VA-SS-95	VA-SS-95-HC	VA-SS-95-EP						VA-95-13CR
						VA-LT-C110			
	VA-SS-110	VA-SS-110-HC	VA-SS-110-EP						
	VA-S-110	VA-S-110-HC	VA-S-110-EP						
VA-XP-P110						VA-LT-P110		VA-P110-1CR/ VA-P110-3CR	
VA-XP-Q125-1						VA-LT-Q125-1			
	VA-S-125	VA-S-125-HC	VA-S-125-EP	VA-D-125	VA-D-125-HC				
				VA-D-140	VA-D-140-HC				
				VA-D-150	VA-D-150-HC				

LOW TEMPERATURE

EP/XP

EP/XP

HC



# DryTec®

## Because future matters

This dope free solution for thread connections increases your efficiency and safety on site and helps you to protect the environment.

**DryTec® is currently available for VAGT® and VAsuperior®.**



# SERVICES



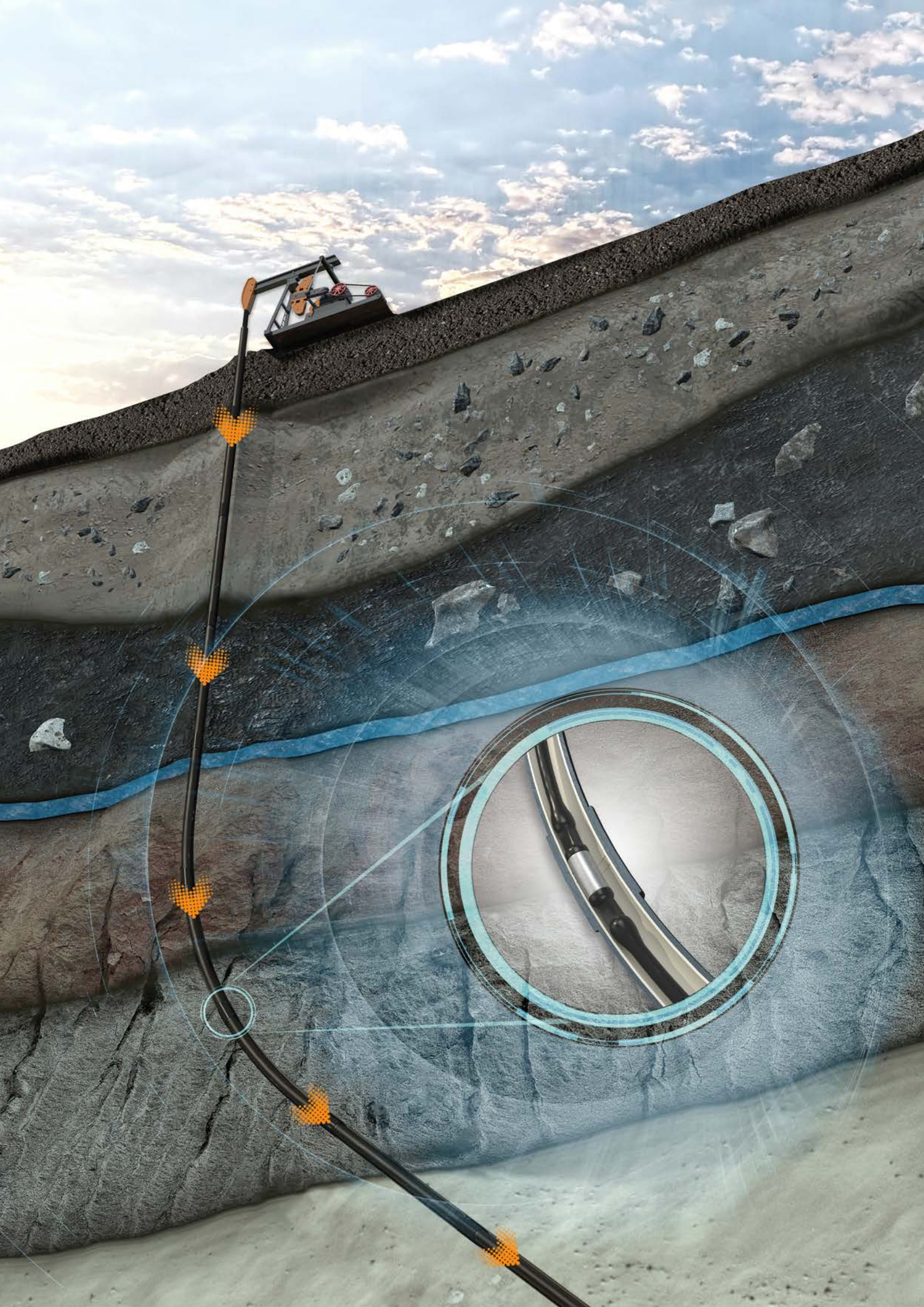
myTubulars

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

Generate your product datasheets and find more information about our products, field assistance and licensees close to your location on the customer service page at [www.voestalpine.com/tubulars](http://www.voestalpine.com/tubulars) or in the myTubulars App – available for free in the App stores for all iOS and Android devices.

GET THE APP!





# PexTec®

## The smart solution for unlimited runtime

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.



## PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

PexTec®

### INCREASED RUNTIME

- » Saves workover costs

### SOLUTION FOR DIRECTIONAL WELLS

- » Protects bended sections

### SMOOTH INTERNAL SURFACE

- » Reduces friction and energy costs

### THERMAL INSULATION

- » Reduces paraffin impairment costs



# OFFSHORE SOLUTIONS

## Standard and Proprietary Grades & voestalpine Tubulars CAL IV connections

For Offshore applications, the following connections are the typical products of choice to ensure well integrity.

In addition, we offer technical support from our R&D team and testing facilities on-site, for tailor-made solutions and specific requirements, where tests can be performed before use to prevent our customers from troubles.



VAsuperior®



VExplorer®

## PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

### VAsuperior®

- » Gas tight under combined loads

### VExplorer®

- » Also provides high torque resistance for extended reach, bending and rotational operations

These connections can be combined with API or proprietary grades and tailor-made solutions are available upon request.



# GEOTHERMAL SOLUTIONS

**The product of choice for geothermal applications: internally coated pipes with VAsuperior® or VAroughneck® connections!**

Geothermal energy is one of the renewable energy sources where comparable pipes and grades as oil and gas are used. Also, the drilling scheme is comparable, whereby voestalpine Tubulars can contribute its long-term know-how from the oil & gas business for the geothermal energy segment and has the competence to develop further technologies.



VAsuperior®



VAroughneck®

## PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

### VAsuperior®

#### METAL TO METAL SEAL

- » Ensures well integrity

#### RESILIENT THREAD DESIGN

- » Prevents from damages during transport, handling and installation

#### FAST & EASY MAKE-UP

- » Saves running time

#### INTERNAL PIPE COATING

- » Increases life time and flow rates
- » Thermal insulation

### VAroughneck®

#### STRONG CONNECTION

- » Ensures well integrity

#### ROTATION DURING INSTALLATION

- » Improves quality of cement bond

#### SMOOTH INTERNAL PROFILE

- » Minimizes turbulences

#### COMPATIBILITY WITH API BUTTRESS

- » Saves costs



$H_2$

Hydrogen  $H_2$

zero emission



# HYDROGEN APPLICATIONS

## Explore the customized solutions for hydrogen applications

voestalpine Tubulars has the essential know-how in steel and tube production, the long-term experience in connection development and manufacturing for the oil and gas industry as well as the testing capabilities to design the optimal product solutions – all these parameters are prerequisite for safe handling of hydrogen too.

Therefore, the company can already offer the following product solutions.



VAhyper®

## PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

### VAhyper®

- » The hydrogen-tight Premium Connection
- » Connection successfully tested up to 10,150 psi (700 bar) under 100% hydrogen in the load frame

### TAILOR-MADE GRADES

- » VA-H2-L80-1

### TAILOR-MADE LINE PIPES FOR DISTRIBUTION LINES

- » L360N and L360Q tested for hydrogen applications

Further products and solutions  
available upon request.



# LINE PIPE & LINE PIPE SOLUTIONS

Available in standard and customized size ranges and in various grades according to numerous international standards as well as customer specifications or standard combinations. Internal and external pipe coating solutions or welding solutions can be provided by internal and external partners.

For further information regarding welding consumables, read more on [www.voestalpine.com/welding](http://www.voestalpine.com/welding)

## Main applications:

- » Onshore pipeline from wellhead to refinery (gathering line)
- » Conveyance of liquid and gas media also for sour service
- » Cooling systems
- » Gas, water and hydraulic lines
- » Sour service applications
- » Hydrofluoric acid alkylation service applications

## Sample list of standards:

- » API 5 L incl. Annexes
- » ASTM/ASME A106/SA & 106/ A/SA 53 – Grade A, B, C
- » ASTM/ASME A/SA 333 – Grade 6
- » ISO 3183 / PSL 1 – PSL 2

## Size Range:

From 26.90 mm (1.059 inch) to 200.00 mm (7.874 inch) outside diameter with wall thickness from 2.90 mm (0.114 inch) to 35.00 mm (1.378 inch) depending on combinations.

# INDUSTRIAL PIPE PRODUCT SOLUTIONS

Customers in and suppliers to the industrial segments (e.g. yellow goods segment, commercial vehicles, ...) rely on customized, safe, environmentally friendly tubular solutions of voestalpine Tubulars.

Size range from 26.70 mm (1.050 inch, NPS 3/4) to 193.70 mm (7.625 inch, NPS 7), depending on combinations and finishing requirements.



## TUBES AND PIPES FOR PRESSURE APPLICATIONS

- » Hydrocarbon processing / media extraction in refineries
- » Unalloyed and medium alloyed steel grades for power plants (Power Generation)
- » Components for the chemical and petrochemical industry



## MECHANICAL TUBES

- » Mining, tunneling, drilling and geotechnical solutions
- » Construction and general engineering
- » Mechanical and machining applications

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Welding solutions can be provided by our internal partner voestalpine Böhler Welding. For further information regarding welding consumables, read more on [www.voestalpine.com/welding](http://www.voestalpine.com/welding)



## AUTOMOTIVE TUBES

- » Axles for trailers and light-commercial-vehicles (LCV)
- » Pulleys, dampers and vibration absorbers
- » Tubes and pipes for various powertrain applications



## TOUGHTUBES

- » Seamless high strength steel tubes
- » Thermo-mechanically treated
- » Produced in one production step
- » Rapid cooling technology
- » Tailor made properties according to customer requirements



# 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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**voestalpine**

ONE STEP AHEAD.