



VAsuperior®-ET

More than ready to face the extremes





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 and sustainability.



CUSTOMIZATION



INNOVATION



SUSTAINABILITY

PRODUCTION, R&D, SALES LOCATIONS AND LICENSEES



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DESIGN CHARACTERISTICS

voestalpine Tubulars Proprietary Connections like VAsuperior®-ET offer benefits which are not addressed by the API specification or exceed the API standards.



PRODUCT CHARACTERISTICS & CUSTOMER BENEFITS

METAL TO METAL SEAL » ENSURES WELL INTEGRITY

The robust metal to metal seal design ensures gas tightness under combined loads.

PROTECTIVE DESIGN » PREVENTS YOU FROM UNEXPECTED COSTS

The distance from the pin face provides protection against transport, handling and installation damages.

The recess before and after the seal area is a lubricant reservoir where excess thread compound is forced to prevent a pressure build up due to trapped and compressed thread compound.

FAST & EASY MAKE-UP » SAVES RUNNING TIME

The thread design allows easy and fast make-up in the most severe conditions.

SMOOTH INTERNAL PROFILE » MINIMIZES TURBULENCES

The flush internal profile minimizes turbulences and provides good conditions for internal pipe coating.

ENHANCED TORQUE CAPABILITY » ENSURES THE CONNECTION IS NOT THE LIMITATION

The connection has been physically validated to demonstrate structural integrity even during scenarios where enhanced yield torque capability is needed.



GRADES

VAsuperior®-ET is available in API standard and proprietary grades. Also tailor-made customer specifications can be fulfilled upon request.

Our tools in manufacturing the VA series include but are not limited to

- » Steel with special chemical composition
- » Unique melting, refining and casting practices
- » Controlled processes in the pipe rolling, heat treatment, straightening and end finishing operations
- » Tighter tolerances
- » Restricted mechanical properties
- » Special testing and inspection methods

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	EXTREME PROPERTIES
55,000	J55			
	K55			
75,000				
80,000	N80-Q	VA-HC-N80-Q	VA-EP-N80-Q	VA-XP-N80-Q
	L80-1	VA-HC-L80-1	VA-EP-L80-1	VA-XP-L80-1
	L80-13Cr			
90,000	C90-1	VA-HC-C90-1	VA-EP-C90-1	VA-XP-C90-1
95,000	R95	VA-HC-R95	VA-EP-R95	VA-XP-R95
	T95-1	VA-HC-T95-1	VA-EP-T95-1	VA-XP-T95-1
110,000	C110	VA-HC-C110	VA-EP-C110	
	P110	VA-HC-P110	VA-EP-P110	VA-XP-P110
125,000	Q125-1	VA-HC-Q125-1	VA-EP-Q125-1	VA-XP-Q125-1
140,000				
150,000				

On request in combination with:



PROPRIETARY GRADES – THE VA SERIES

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-LT-N80-Q	VA-FP-80-1CR	VA-N80-Q-1CR/VA-N80-Q-3CR	
					VA-LT-L80-1		VA-L80-1-1CR/VA-L80-1-3CR	
VA-SS-80	VA-SS-80-HC	VA-SS-80-EP						
					VA-LT-C90-1			
VA-SS-90	VA-SS-90-HC	VA-SS-90-EP						
					VA-LT-R95		VA-R95-1CR/VA-R95-3CR	
					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-LT-P110		VA-P110-1CR/VA-P110-3CR	
					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

CURRENTLY MOST WANTED PRODUCT RANGE

DIMENSIONS

PIPE OUTSIDE DIAMETER		NOMINAL WEIGHT		WALL THICKNESS		INSIDE DIAMETER		DRIFT DIAMETER	
inch	mm	lb/ft	kg/m	inch	mm	inch	mm	inch	mm
5 ½	139.70	20.00	30.12	0.361	9.17	4.778	121.36	4.653	118.19
		23.00	34.17	0.415	10.54	4.670	118.62	4.545	115.44
7	177.80	26.00	39.20	0.362	9.19	6.276	159.42	6.151	156.24
		29.00	43.77	0.408	10.36	6.366	161.70	6.241	158.52

PERFORMANCE PROPERTIES

METRIC UNITS

PIPE OUTSIDE DIAMETER		NOMINAL WEIGHT		WALL THICKNESS		GRADE 80				GRADE 95				GRADE 110							
inch	mm	lb/ft	kg/m	inch	mm	Pi	Pc	Sy	L	Pi	Pc	Sy	L	Pi	Pc	Sy	L				
						MPa				kN				MPa				kN			
5 ½	139.70	20.00	30.12	0.361	9.17	63.40	60.90	2080	1160	75.20	69.10	2460	1380	87.10	76.50	2850	1600				
		23.00	34.17	0.415	10.54	72.90	76.90	2360	1800	86.50	89.20	2800	2140	100.10	100.30	3240	2480				
7	177.80	26.00	39.20	0.362	9.19	49.90	37.30	2690	1850					68.60	43.00	3690	2540				
		29.00	43.77	0.408	10.36	56.30	48.50	3010	1850					77.30	58.80	4130	2540				

Pi ... internal yield pressure | Pc ... collapse resistance (VA-HC-grades on special request) | Sy ... joint yield strength | L ... load on coupling face
Other Grades on request. | Performance properties for proprietary and other grades or for special clearance couplings on request.

US CUSTOMARY UNITS

PIPE OUTSIDE DIAMETER		NOMINAL WEIGHT		WALL THICKNESS		GRADE 80				GRADE 95				GRADE 110							
inch	mm	lb/ft	kg/m	inch	mm	Pi	Pc	Sy	L	Pi	Pc	Sy	L	Pi	Pc	Sy	L				
						psi				1000lb				psi				1000lb			
5 ½	139.70	20.00	30.12	0.361	9.17	9200	8830	467	265	10910	10010	554	311	12630	11100	641	359				
		23.00	34.17	0.415	10.54	10570	11160	531	419	12550	12940	629	482	14520	14540	729	558				
7	177.80	26.00	39.20	0.362	9.19	7240	5410	604	415					9950	6230	830	570				
		29.00	43.77	0.408	10.36	8170	7020	676	415					11210	8530	929	570				

Pi ... internal yield pressure | Pc ... collapse resistance (VA-HC-grades on special request) | Sy ... joint yield strength | L ... load on coupling face
Other Grades on request. | Performance properties for proprietary and other grades or for special clearance couplings on request.

	COUPLING LENGTH		OUTSIDE DIAMETER COUPLING		VOLUME				MAKE UP LOSS	
	inch	mm	inch	mm	DISPLACEMENT		PRODUCTION		inch	mm
	9.843	250.00	6.051	153.70	1.241	15.41	0.932	11.57	4.313	109.56
	9.843	250.00	6.181	157.00	1.243	15.44	0.890	11.05	4.313	109.56
	10.630	270.00	7.657	194.50	2.010	24.96	1.607	19.96	4.707	119.56
	10.630	270.00	7.657	194.50	2.010	24.96	1.654	20.54	4.707	119.56

VAsuperior®-ET accessories are available on request. The values shown are based on T&C pipe lengths of L = 10.0m (32.81ft). Blanking dimensions for accessories are available as a download on our web page www.voestalpine.com/tubulars

GRADE 125				
Pi	Pc	Sy	L	
MPa		kN		
99.00	91.70	3240	1820	
113.80	110.80	3690	2820	
78.00	44.50	4200	2880	

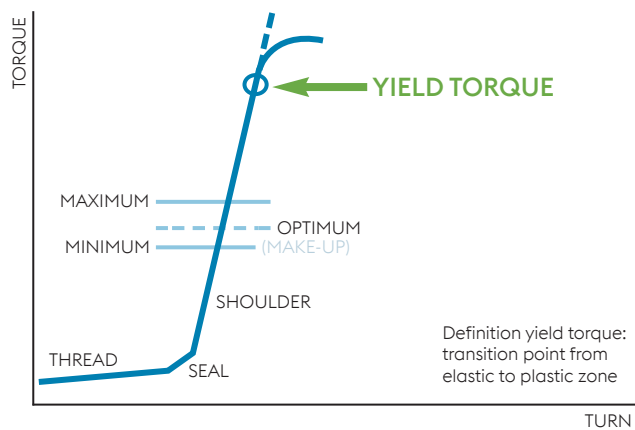
GRADE 125				
Pi	Pc	Sy	L	
psi		1000lb		
14360	12080	729	408	
16510	16060	829	634	
11310	6450	944	648	

YIELD TORQUE

YIELD TORQUE FOR REGULAR COUPLINGS

PIPE OUTSIDE DIAMETER		NOMINAL WEIGHT		WALL THICKNESS		GRADE 80	GRADE 95	GRADE 110	GRADE 125
inch	mm	ft.lb	kg/m	inch	mm	ft.lb (1 ft.lb = 1.3558 Nm)			
5 ½	139.70	20.00	30.12	0.361	9.17	11250	13130	14750	14750
		23.00	34.17	0.415	10.54	13120	15260	16960	18540
7	177.80	26.00	39.20	0.362	9.19	19580		25720	26550
		29.00	43.77	0.408	10.36	20800		23600	

YIELD TORQUE DEFINITION



MAKE UP TORQUE

RECOMMENDED OPTIMUM MAKE-UP TORQUE FOR REGULAR COUPLINGS

PIPE OUTSIDE DIAMETER		NOMINAL WEIGHT		WALL THICKNESS		GRADE 80	GRADE 95	GRADE 110	GRADE 125
inch	mm	ft.lb	kg/m	inch	mm	ft.lb (1 ft.lb = 1.3558 Nm)			
5 ½	139.70	20.00	30.12	0.361	9.17	7800	8720	9660	10580
		23.00	34.17	0.415	10.54	7960	8920	9870	10780
7	177.80	26.00	39.20	0.362	9.19	11420		14440	15920
		29.00	43.77	0.408	10.36	11640		14660	

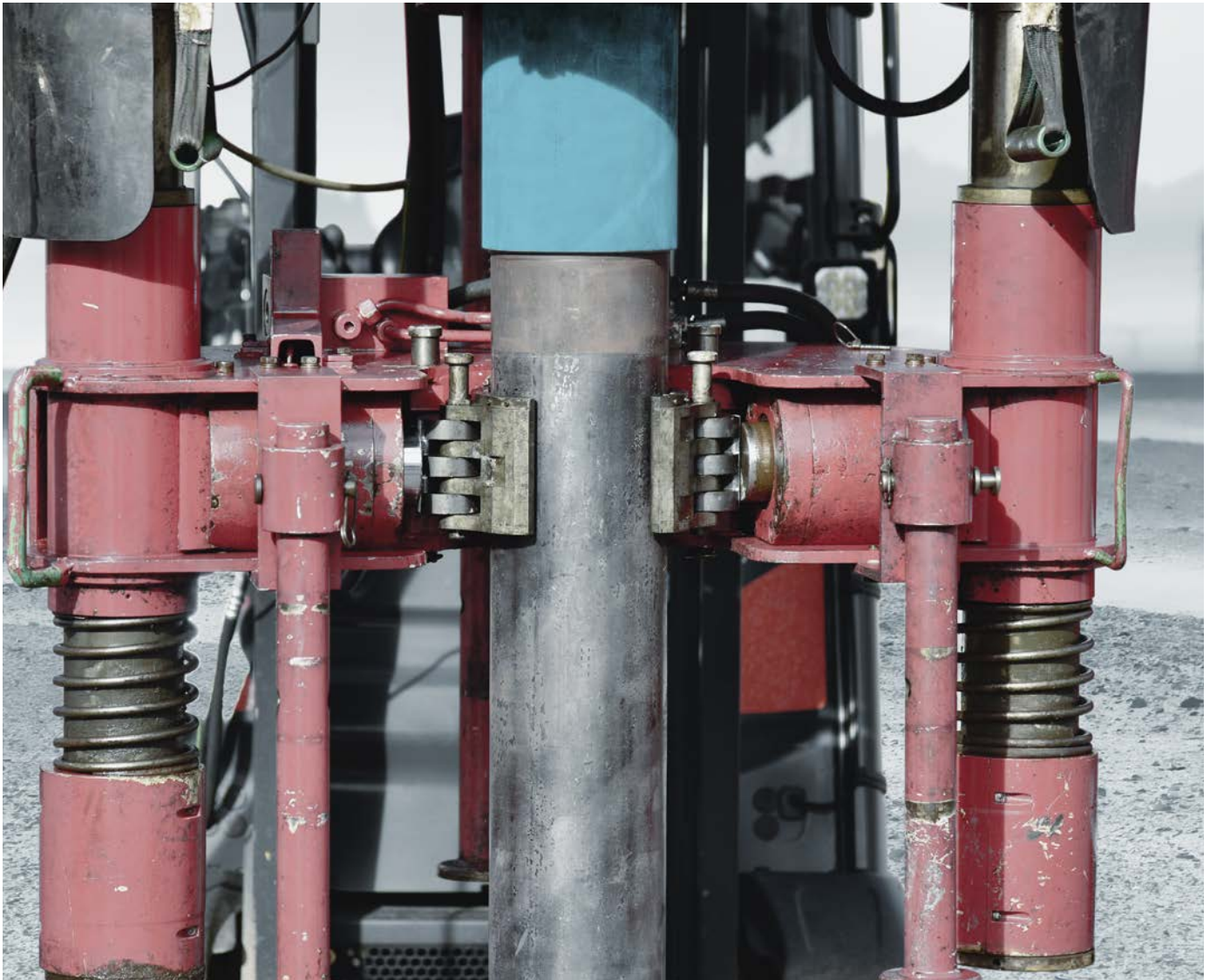
This table shows the values at printing date of this brochure. Actual values available in the Datasheet Generator on our Web Page or in the myTubulars App.

Recommended make-up-torque using a thread compound with a friction factor of 1.0.

Maximum torque: optimum + 10 %

Minimum torque: optimum - 10 %

Special clearance and 20° beveled couplings have a lower load on coupling face.





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!

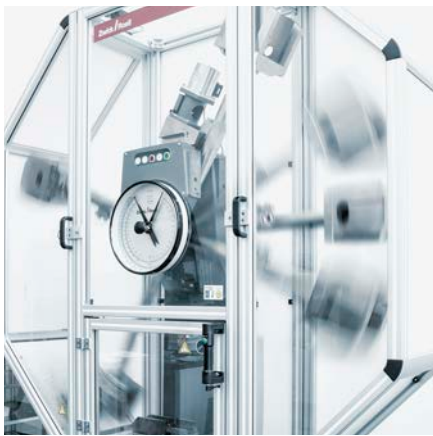


Field Service during the installation can be provided upon request. Please visit the Customer Service site on our web page www.voestalpine.com/tubulars



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



PRODUCT SELECTION



FIELD SERVICE

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ONE STEP AHEAD.