

■ UMETA GREASE NIPPLES made of Stainless Steel



The following pages include a selection of our grease nipples which we provide in the galvanized steel variant, in brass and also – as standard – in stainless steel.

The stainless steel grades we most commonly use are 1.4305 ≈ 303 (V2A) and 1.4404 ≈ 316L (V4A). Other models and materials can, of course, be supplied. Do ask us about the types wanted and sizes !

What is the origin of the "V2A steel" and "V4A steel" names?

- **V2A** Steel came about in the German Krupp steel works in 1912 as "**V**ersuchs (test) smelt **2** Austenite" and has remained to this day as the most usual designation in Germany.
- **V4A** also arose there as "**V**ersuchs (test) smelt **4** Austenite" and continues to be known of under this test heading.

Austenite is the name for a chrome/nickel steel which cannot be hardened by heat treatment and is, as a rule, non-magnetisable.

In particular, more and more enquiries are being made about V4A stainless steel.

What makes this material so special ?

- In contrast to V2A steel, V4A steel – 1.4404 is additionally alloyed with 2 -2.5 % of molybdenum (Mo). This makes the steel that much more resistant to corrosion – especially in media containing chloride (seawater, swimming baths, chemical industry, etc.).
- In addition, its exceptional longevity ensures that the material is used in a highly cost-effective manner.

The standard grease nipples listed on the following pages are the products of our own manufacturing - with use made of these materials:

Description	Steel grade	DIN:	ASTM/AISI:	UNS-No.:	JIS:
		Europ. Norm	USA	GB	Japan
Machining Steel	1.0718	11SMnPb30+C	-	-	-
Stainless Steel V2A	1.4305	X8CrNiS18-9	S 30300	303	SUS 303
Stainless Steel V4A	1.4404	X2CrNiMo17-12-2	S 31603	316L	SUS 316L
Brass MS 58	2.0401	CuZn39 Pb3	-	-	-

In line with customer requirements, we also manufacture grease nipples and turn parts from these materials:

Description	Steel grade	DIN	ASTM/AISI:	UNS-No.:	JIS
		Europ. Norm	USA	GB	Japan
Machining Steel	1.0715	11SMn30	-	-	-
Stainless Steel V2A	1.4301	X5Cr-Ni18-10	S 30400	304	SUS 304
Stainless Steel V4A	1.4401	X5CrNiMo17-12-2	S 31600	316	SUS 316
	1.4571	X6Cr-Ni-Mo-Ti17-12-2	S 31635	316 Ti	SUS 316 Ti

More materials available on request !

ASTM / AISI American Society for Testing and Materials / American Iron and Steel Institute
UNS Unified Numbering System for Metals and Alloys, mainly used in GB
JIS Japan Industrial Standard