



## SEAL LOCK<sup>®</sup>

### **BÖLLHOFF<sup>®</sup> SEALING NUTS FOR HIGH STRENGTH SCREW JOINTS**

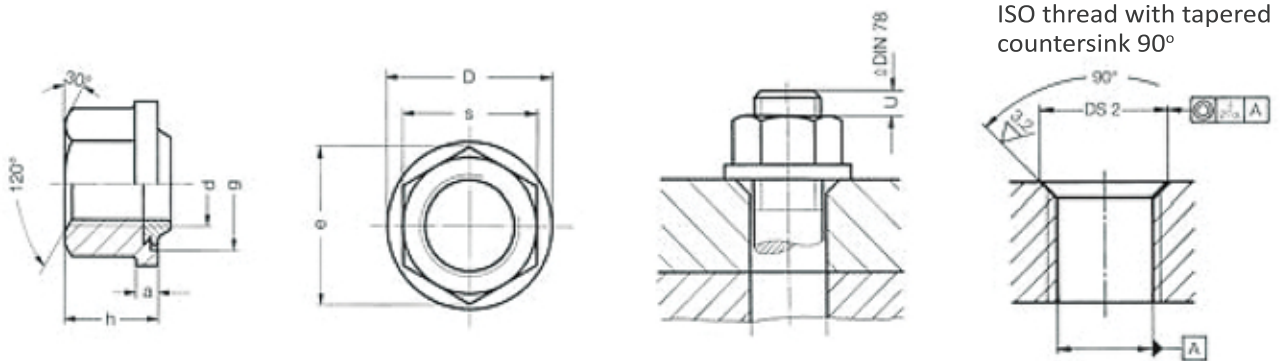
#### FEATURES INCLUDE

Bollhoff's SEAL LOCK<sup>®</sup> sealing nuts provide a reliable seal against unwanted leaking of gaseous or liquid media. The SEAL LOCK<sup>®</sup> ring integrated on the nut helps to achieve reliable sealing inside the thread without the use of additional elements. It is reliable in two ways because it seals under the head and inside the thread. Not to mention the easy installation.

SEAL LOCK<sup>®</sup> sealing nuts are used in many applications for example in adjusting screws on hydraulic components, steering boxes and fuel injection pumps. For those applications, high strength screw connections with reusable bolts and sealing against leakage are essential.

- 1 EFFECTIVE SEAL
- 2 TEMPERATURE RESISTANT FROM -40°C TO 110°C
- 3 HIGH PRELOAD FORCE
- 4 ONE-PIECE FASTENER
- 5 WIDE CHOICE OF DIMENSIONS M6 TO M20

### SEAL LOCK® Standard - Large design



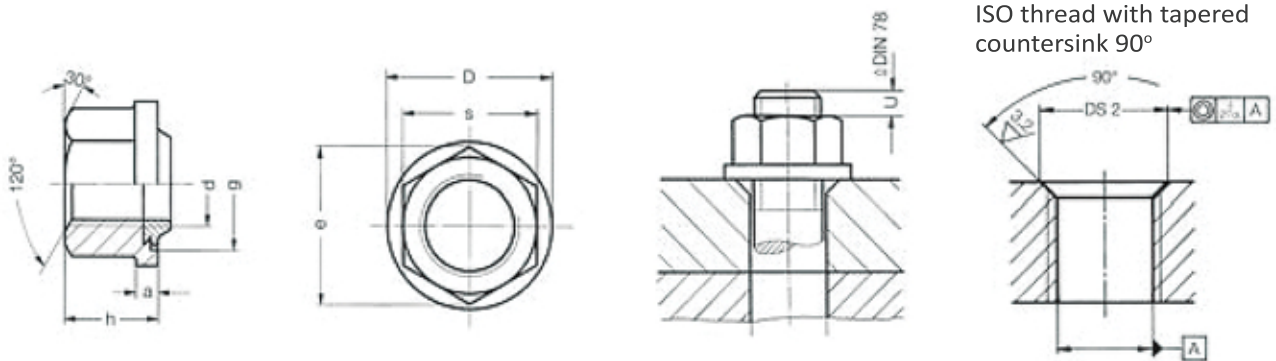
d	Article No.	Surface	D	s	e	a	h	DS 2/90° t min.	Ø	Tol.	Recomm. tightening torque cl. 8 MA [Nm]
M 6	0531 006 0230	phosphated	12	10	11,05	1,5	7	1,5	7,2	0,2	9,0 - 10,1
M 6	0531 006 0530	galvanised (CrVI-free)	12	10	11,05	1,5	7	1,5	7,2	0,2	9,0 - 10,1
M 6 x 0,5	0531 006 1230	phosphated	12	10	11,05	1,5	7	1,5	7,2	0,2	10,0 - 11,0
M 8	0531 008 0230	phosphated	17	13	14,38	2	8,5	2,5	10,2	0,3	21,6 - 24,6
M 8	0531 008 0530	galvanised (CrVI-free)	17	13	14,38	2	8,5	2,5	10,2	0,3	21,6 - 24,6
M 8	0531 008 0630	zinc-nickel	17	13	14,38	2	8,5	2,5	10,2	0,3	21,6 - 24,6
M 8 x 1	0531 008 3230	phosphated	17	13	14,38	2	8,5	2,5	10,2	0,3	22,8 - 26,1
M 8 x 1	0531 008 3530	galvanised (CrVI-free)	17	13	14,38	2	8,5	2,5	10,2	0,3	22,8 - 26,1
M 8 x 1	0531 008 3630	zinc-nickel	17	13	14,38	2	8,5	2,5	10,2	0,3	21,6 - 24,6
M 10	0531 010 0230	phosphated	21	17	18,9	3	11	3	12,4	0,3	43 - 48
M 16	0531 016 0230	phosphated	30	24	26,75	4	18	3	19	0,4	180 - 206
M 16	0531 016 0530	galvanised (CrVI-free)	30	24	26,75	4	18	3	19	0,4	180 - 206
M 16 x 1,5	0531 016 4230	phosphated	30	24	26,75	4	18	3	19	0,4	189 - 218
M 16 x 1,5	0531 016 4530	galvanised (CrVI-free)	30	24	26,75	4	18	3	19	0,4	189 - 218
M 20 x 1,5	0531 020 4230	phosphated	37	30	32,95	5	21	4	23,4	0,4	250 - 255

Further sizes, materials and surfaces on request.

All measures in mm.

i	Surface	Durability
	galvanised (CrVI-free) - VDA 235.104.20	after 240 hours basic metal corrosion* after 96 hours zinc corrosion*
	zinc-nickel - VDA 235-104.25	after 720 hours basic metal corrosion*
	phosphated	As storage protection and primer for subsequent paint Corrosion resistance only after finishing painting of the fastener
	*in salt spray test according to DIN EN ISO 9227	

## SEAL LOCK<sup>®</sup> Standard - Small design



d	Article No.	Surface	D	s	e	a	h	DS 2/90°		Tol.	Recomm. tightening torque cl. 8 MA [Nm]
								t min.	∅		
M 10	0532 010 0230	phosphated	21	17	18,9	3	9	3	12,4	0,3	43 - 48
M 10	0532 010 0530	galvanised (CrVI-free)	21	17	18,9	3	9	3	12,4	0,3	43 - 48
M 10	0532 010 0630	zinc-nickel	21	17	18,9	3	9	3	12,4	0,3	43 - 48
M 10 x 1	0532 010 3230	phosphated	21	17	18,9	3	9	3	12,4	0,3	46 - 53
M 10 x 1	0532 010 3530	galvanised (CrVI-free)	21	17	18,9	3	9	3	12,4	0,3	46 - 53
M 10 x 1	0532 010 3630	zinc-nickel	21	17	18,9	3	9	3	12,4	0,3	46 - 53
M 12	0532 012 0230	phosphated	23	19	21,1	3	10	3	15,2	0,3	73 - 84
M 12	0532 012 0530	galvanised (CrVI-free)	23	19	21,1	3	10	3	15,2	0,3	73 - 84
M 12 x 1	0532 012 3230	phosphated	23	19	21,1	3	10	3	15,2	0,3	82 - 94
M 12 x 1	0532 012 3530	galvanised (CrVI-free)	23	19	21,1	3	10	3	15,2	0,3	82 - 94
M 12 x 1,5	0532 012 4230	phosphated	23	19	21,1	3	10	3	15,2	0,3	76 - 87
M 12 x 1,5	0532 012 4530	galvanised (CrVI-free)	23	19	21,1	3	10	3	15,2	0,3	76 - 87
M 14 x 1	0532 014 3230	phosphated	27	22	24,49	3	11	3	16,8	0,4	126 - 144
M 14 x 1,5	0532 014 4230	phosphated	27	22	24,49	3	11	3	16,8	0,4	124 - 142
M 14 x 1,5	0532 014 4530	verzinkt (CrVI-free)	27	22	24,49	3	11	3	16,8	0,4	124 - 142

Further sizes, materials and surfaces on request.

All measures in mm.



### Direction of screwing

SEAL LOCK<sup>®</sup> sealing nuts are screwed on the bolt with the sealing ring first. For installation in the other direction, the sealing ring must be supported.



**We recommend: SEAL LOCK® sealing nuts**



SEAL LOCK® sealing nuts prior to clamping.



Tightened SEAL LOCK® sealing nuts. Metal head bearing face for high preload force. **Thread and nut bearing face sealed.**



**ADVANTAGES**

- + Captive seal
- + Temperature-resistant
- + High preload force
- + Sealing below the head and inside the thread\*
- + One-piece fastener (nut with seal)
- + Use of a standard bolt
- + Uncomplicated fabrication of the housing
- + Little space required
- + Efficient installation
- + Reusable

\*Test conditions: hydraulic oil with viscosity ISO-VG10 at 250 bar and t = 20°C

For many years, SEAL LOCK® sealing nuts have proven to be reliable fasteners for many industries and applications. Among the fields of application are:



**Applications**

- Hydraulic controls
- Pump housings
- Hydraulic screw jacks
- Mobile hydraulics
- Steering gear boxes
- Generator housings
- Fuel injection pumps
- Air filters

Do not hesitate to contact us so we can work out a specific solution for your application.