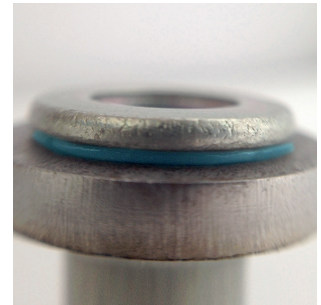
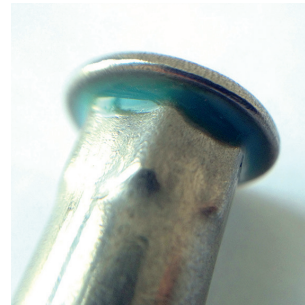
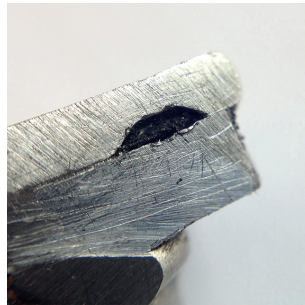




# Tubtara® fasteners with seal

## Trusted, low-maintenance, watertight



### Watertight HX closed-end Tubtara® fasteners with O-ring seal (mechanical)

- Large flanged head with a cylindrical groove and O-ring seal mounted underneath
- The seal slides into the groove and – regardless of the setting force – is compressed between the head and the plate during installation.
- Metal-to-metal contact after setting for spin-out resistance.
- The closed-end hexagonal shank (HX) guards against potential burr and sharp hole edges.
- The seal is fully protected against UV light influence.
- Excellent protection against the ingress of fluids, moisture, oil, or dirt, even when subjected to high pressure of at least 10 bar.
- Various seal materials available, such as Viton, EPDM or silicone.
- IP 68 guaranteed under in-house testing conditions.

### Watertight (H)DPX Tubtara® with applied sealant under head (chemical)

- Non-reactive peripheral seal made of flexible organic-based material, applied under the head
- The seal material is gap filling, forming a robust seal between the mating surfaces
- Slight variations in seal thickness may influence head height and grip range
- The seal is resistant to many automotive oils, antifreeze and transmission fluids
- Can be applied on stocked standard Tubtara® parts (all materials and shank types)
- IP 67 guaranteed under in-house testing conditions.

Seal type	Seal material	Seal colour	Head type	IP rating	Temperature range	Sealing capacity	UV-shielded	Shore hardness	Standard - ST / on request
HX	NBR	black	large HX	IP 681	-30°C +120°C	tested to 10 bar: IP 68 <sup>1</sup>	YES	approx. 70	ST
HX	EPDM	black	large HX	IP 681	-50°C +120°C	tested to 10 bar: IP 68 <sup>1</sup>	YES	approx. 70	on req.
HX	Viton	black	large HX	IP 681	-20° +200°C	tested to 10 bar: IP 68 <sup>1</sup>	YES	approx. 70	on req.
D1	polyurethane resin	blue	P, F <sup>3</sup>	IP 671	-40°C +100°C (max. +150°C)	> 150 bar	NO	approx. 50 A	ST
D2	polyurethane acrylate	green	P, F <sup>3</sup>	IP 67 <sup>1</sup>	-40°C +100°C	> 150 bar	NO	50 - 65 A	on req.
D3	silicone	red	P, F <sup>3</sup>	IP 67 <sup>2</sup>	-50°C +300°C	> 150 bar	NO	43 A	on req.
D4	acrylate	light blue	K <sup>3</sup>	IP 34 - IP 67 <sup>2</sup>	-60°C +160°C	low (weak seal)	NO		on req.
D5	epoxy-based	yellow	P, F <sup>3</sup>	IP 67 <sup>2</sup>	-40°C +150°C	> 150 bar	NO	50 D	on req.

<sup>1</sup> Under Dejong testing conditions

<sup>2</sup> Depending on hole and handling quality, subject to testing

<sup>3</sup> P: flat head - F: countersunk head, subject to testing - K: low profile head



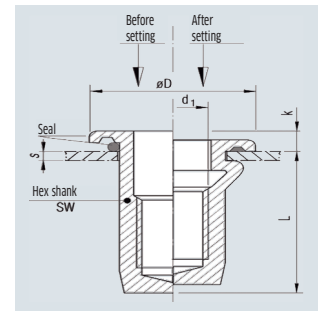
## Tubtara® blind rivet nuts

### Flat head

Full-hexagonal shank with seal, closed end  
IP rating: IP68

### Material

Steel, Zinktop 480h



Thread	Grip range	Hex hole $\varnothing$	Hexagonal shank	Head $\varnothing$	Head height	Shank length	Description	Article No.
$d_1$	$s$		SW	D	k	L		
6H	[mm]	+0.1 [mm]	-0.02 -0.15 [mm]	$\pm 0.35$ [mm]	$\pm 0.15$ [mm]	$\pm 0.35$ [mm]		
M5	0.5 - 3.0	7.0	7.0	12.5	1.5	19.0	HX 3001	339 245 950 <sup>2</sup>
M6	0.5 - 3.0	9.0	9.0	15.0	1.5	21.5	HX 3001	339 695 950
	3.0 - 5.5	9.0	9.0	15.0	1.5	23.5	HX 5501	339 696 950 <sup>2</sup>
M8	0.5 - 3.0	11.0	11.0	20.0	2.0	26.7	HX 3001	339 850 950
	3.0 - 6.0	11.0	11.0	20.0	2.0	29.7	HX 6001	339 851 950 <sup>2</sup>
	6.0 - 8.0	11.0	11.0	20.0	2.0	31.7	HX 8001	339 852 950

<sup>2</sup> Not a stock item - contact us for minimum quantities



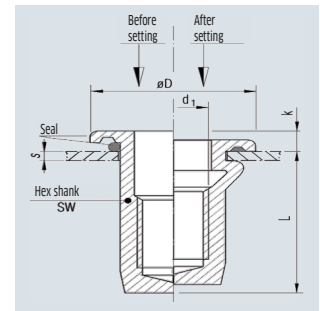
## Tubtara® blind rivet nuts

### Flat head

Full-hexagonal shank with seal, closed end  
IP rating: IP68

### Material

Stainless steel AISI 304 Cu 1.4567



Thread	Grip range	Hex hole $\varnothing$	Hexagonal shank	Head $\varnothing$	Head height	Shank length	Description	Article No.
<b>d1</b>	<b>s</b>	<b>+0.1</b>	<b>SW -0.02 -0.15</b>	<b>D <math>\pm 0.35</math></b>	<b>k <math>\pm 0.15</math></b>	<b>L <math>\pm 0.35</math></b>		
<b>6H</b>	<b>[mm]</b>	<b>[mm]</b>	<b>[mm]</b>	<b>[mm]</b>	<b>[mm]</b>	<b>[mm]</b>		
M5	0.5-3.0	7.0	7.0	13.5	1.5	19.0	HX 3001	334 080 000
M6	0.5-3.0	9.0	9.0	16.0	1.5	21.5	HX 3001	334 082 000
M8	0.5-3.0	11.0	11.0	21.0	2.0	25.0	HX 3001	334 084 000

# Tubtara® blind rivet nuts



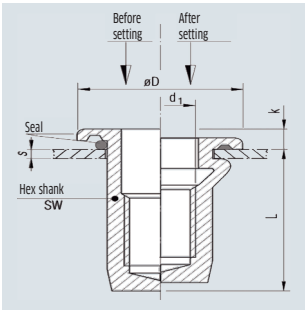
## Flat head

Semi-hexagonal shank with seal, closed end  
IP rating: IP68

## Material

Stainless steel AISI 316 Cu 1.4578

Exceptionally high corrosion resistance



Thread	Grip range	Hex hole $\varnothing$	Hexagonal shank	Head $\varnothing$	Head height	Shank length	Description	Article No.
$d1$	$s$	$+0.1$	$SW -0.02 -0.15$	$D \pm 0.35$	$k \pm 0.15$	$L \pm 0.35$		
6H	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M5	0.5 - 3.0	7.0	7.0	13.5	1.5	19.0	HX 3001	334 090 000 <sup>2</sup>
M6	0.5 - 3.0	9.0	9.0	16.0	1.5	21.5	HX 3001	334 092 000 <sup>2</sup>
	2.0 - 4.5	9.0	9.0	16.0	1.5	21.5	HX 4501	334 093 000
M8	0.5 - 3.0	11.0	11.0	21.0	2.0	25.0	HX 3001	334 094 000 <sup>2</sup>

<sup>2</sup> Not a stock item - contact us for minimum quantities



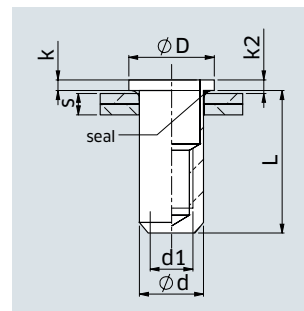
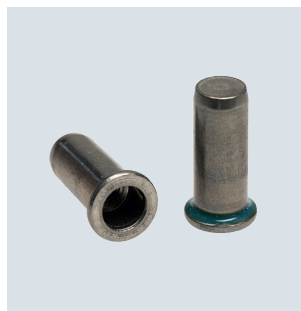
## Tubtara® blind rivet nuts

### Flat head with seal

Round shank, closed end  
IP rating: IP67

#### Material

Stainless steel AISI 304 Cu 1.4567



Thread d1	Grip range s	Hole ø +0.1	Shank ø d -0.02 -0.15	Head ø D ±0.35	Head height k ±0.15	Head height k2	Shank length L ±0.35	Description	Article No.
6H	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M 4	0.5 - 1.5	6.0	6.0	9.0	1.0	1.3	15.0	DPX15	334 055 000
M 5	0.5 - 2.5	7.0	7.0	10.0	1.0	1.3	17.5	DPX25	334 056 000
	2.5 - 4.5	7.0	7.0	10.0	1.0	1.3	19.5	DPX45	334 057 000
M 6	0.5 - 2.5	9.0	9.0	12.0	1.5	1.9	21.5	DPX25	334 058 000
	2.5 - 4.5	9.0	9.0	12.0	1.5	1.9	23.5	DPX45	334 059 000
M 8	0.5 - 2.5	11.0	11.0	15.0	1.5	2.0	23.5	DPX25	334 060 000
	2.5 - 5.0	11.0	11.0	15.0	1.5	2.0	26.0	DPX50	334 061 000

#### Note 1:

IP 67 possible under ideal conditions

#### Note 2:

K2 is for reference purposes only - the type of seal, size of hole, setting force and other factors significantly impact dimension K2



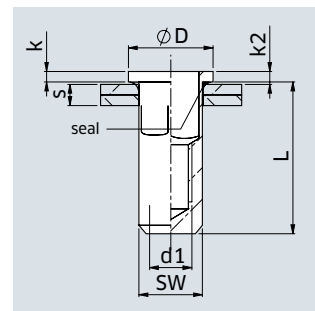
## Tubtara® blind rivet nuts

### Flat head with seal

Semi-hexagonal shank, closed end  
IP rating: IP67

#### Material

Stainless steel AISI 304 Cu 1.4567



Thread d1	Grip range s	Hex hole ø +0.1	Hexagonal shank SW -0.02 -0.15	Head ø D ±0.35	Head height k ±0.15	Head height k2	Shank length L ±0.35	Description	Article No.
6H	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M 4	0.5 - 1.5	6.0	6.0	9.0	1.0	1.3	15.0	HDPX15	334 062 000
M 5	0.5 - 2.0	7.0	7.0	10.0	1.0	1.3	17.5	HDPX20	334 063 000
M 6	0.5 - 2.0	9.0	9.0	12.0	1.5	1.9	21.5	HDPX20	334 064 000
	2.0 - 4.0	9.0	9.0	12.0	1.5	1.9	23.5	HDPX40	334 065 000
M 8	0.5 - 2.0	11.0	11.0	15.0	1.5	2.0	23.5	HDPX20	334 066 000
	2.0 - 4.5	11.0	11.0	15.0	1.5	2.0	26.0	HDPX45	334 067 000

#### Note 1:

IP 67 possible under ideal conditions

#### Note 2:

K2 is for reference purposes only - the type of seal, size of hole, setting force and other factors significantly impact dimension K2



## Tubtara® blind rivet nuts

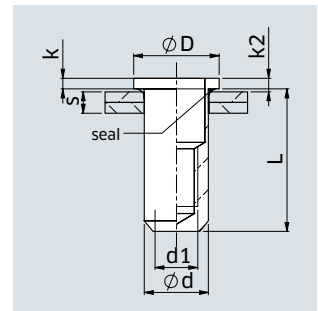
### Flat head with seal

Round shank, closed end  
IP rating: IP67

#### Material

Stainless steel AISI 316 Cu 1.4578

**Exceptionally high corrosion resistance**



Thread d1	Grip range s	Hole ø +0.1	Shank ø d -0.02 -0.15	Head ø D ±0.35	Head height k ±0.15	Head height k2	Shank length L ±0.35	Description	Article No.
6H	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M 4	0.5 - 1.5	6.0	6.0	9.0	1.0	1.3	15.0	DPX15	334 048 000
M 5	0.5 - 2.5	7.0	7.0	10.0	1.0	1.3	17.5	DPX25	334 049 000
	2.5 - 4.5	7.0	7.0	10.0	1.0	1.3	19.5	DPX45	334 050 000
M 6	0.5 - 2.5	9.0	9.0	12.0	1.5	1.9	21.5	DPX25	334 051 000
M 8	0.5 - 2.5	11.0	11.0	15.0	1.5	2.0	23.5	DPX25	334 052 000

#### Note 1:

IP 67 possible under ideal conditions

#### Note 2:

K2 is for reference purposes only - the type of seal, size of hole, setting force and other factors significantly impact dimension K2



## Tubtara® blind rivet nuts

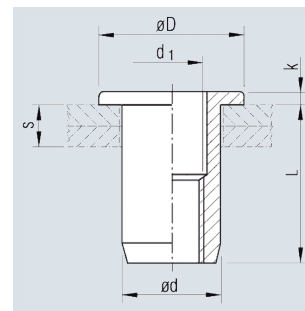
### Flat head with seal

Semi-hexagonal shank, closed end  
IP rating: IP67

#### Material

Stainless steel AISI 316 Cu 1.4578

**Exceptionally high corrosion resistance**



Thread d1	Grip range s	Hex hole $\phi$ +0.1	Hexagonal shank SW -0.02 -0.15	Head $\phi$ D $\pm 0.35$	Head height k $\pm 0.15$	Head height k2	Shank length L $\pm 0.35$	Description	Article No.
6H	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		
M 4	0.5 - 1.5	6.0	6.0	9.0	1.0	1.3	15.0	HDPX15	334 042 000
M 5	0.5 - 2.0	7.0	7.0	10.0	1.0	1.3	17.5	HDPX20	334 043 000
M 6	0.5 - 2.0	9.0	9.0	12.0	1.5	1.9	21.5	HDPX20	334 044 000
	2.0 - 4.0	9.0	9.0	12.0	1.5	1.9	23.5	HDPX40	334 045 000
M 8	0.5 - 2.0	11.0	11.0	15.0	1.5	2.0	23.5	HDPX20	334 046 000
	2.0 - 4.5	11.0	11.0	15.0	1.5	2.0	26.0	HDPX45	334 047 000

#### Note 1:

IP 67 possible under ideal conditions

#### Note 2:

K2 is for reference purposes only - the type of seal, size of hole, setting force and other factors significantly impact dimension K2