

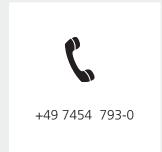
HEINRICH KIPP WERK



NOVOnox hygienic

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+49 7454 793-7982





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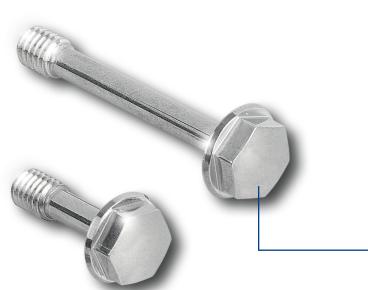




BUSINESS HOURS	
MONDAY-THURSDAY	07.00-17.30
FRIDAY	07.00-15.30

HYGIENIC DESIGN | HYGIENIC USIT®





ΗĎ

Hygienic DESIGN - the new standard

Operating parts and machine elements that fulfil the requirements of Hygienic DESIGN.

Radii, transitions, bevels, and surfaces are designed to impair wetting and can be easily cleaned or remain permanently unsoiled.

Nothing adheres!

Average surface finish Ra < 0.8 µm



Hygienic USIT® - the new phenomenon in the process industries

Hygienic USIT® is the new revolutionary sealing and fastening technology in one package with EHEDG certification. High-gloss polished surfaces, radii, bevels and form transitions are cavity-free.



Hygienic USIT® — a trademark of Freudenberg Sealing Technologies. NOVOnox developed the hygienic screw system for this special washer and matched them perfectly to each other. The cavity-free fastening point is made feasible.



High-gloss polished!

Material:

1.4404 with Ra < 0.8 μm



100 % seal!

Hygienic USIT® seal and shim washer from Freudenberg Sealing Technologies.

System unit!

Collar for Hygienic USIT® seal and shim washer

Material:

1.4404 with Ra $<0.8\ \mu m$

HYGIENIC USIT®





Hygienic USIT® - give germs no chance

The current status. Cavities. Not fully sealed.

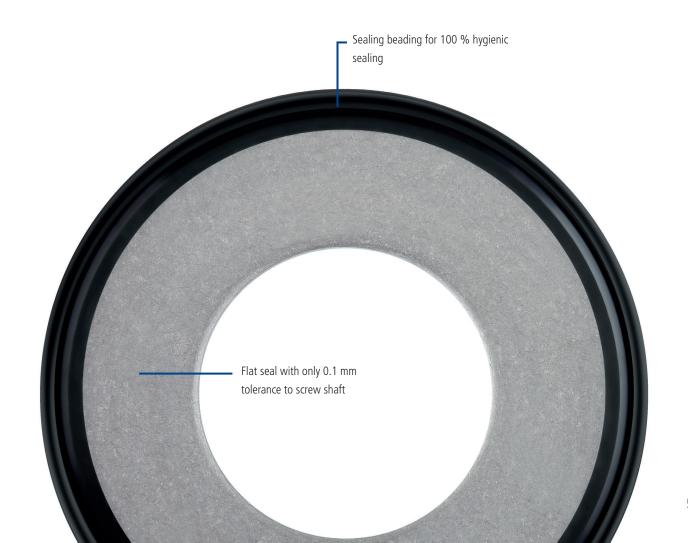
Fastening points in process technology plant construction must be absolutely sealed and easy to clean. Cavities where product remains or cleaning fluids can accumulate unnoticed are to be prevented. These create breeding grounds for germs and bacteria. A contamination is often just a question of time.

The solution:

Hygienic USIT® from Freudenberg Sealing Technologies solves the problem. The new type of washer with the specially matched screw system from NOVOnox hygienic is best suited for mounting in sterile areas and also complies with the EHEDG guidelines, which is confirmed by the corresponding certificate. Dirty liquids bead off. Nothing can adhere. Nothing can germinate. Hygienic USIT® is the new revolutionary sealing and fastening technology in one package. Screw heads, nuts, washers and screw shafts are perfectly matched to each other and form a system unit. Highgloss polished surfaces, radii, bevels and form transitions are cavity-free and enable easy cleaning.

Sealed over and over again.

The sealing ring made of a metallic flat seal and a vulcanised sealing bead is the heart of Hygienic USIT®. The trapezoidal contour of the sealing bead and the highly polished face of the screw head positively seal the fastening point. The sealing properties remain constant even by repeated loosening and tightening of the screw. The reason: The metallic washer mechanically limits the screw travel when the screw is turned. Excessive pressure on the seal is prevented. The polished surface and the centring effect of the screw shaft ensure that the position and deformation of the seal is almost 100% reproducible.



HYGIENIC USIT® | HYGIENIC TOOLS





Hygienic USIT® – High-gloss polished surface

The Hygienic USIT® fasteners have a completely rounded body form and have been designed for use with the USIT® sealing ring. The runoff of liquids and product residues is guaranteed independent of the installed position. The surfaces are repeatedly finely polished. When USIT® seal rings are used, the fastening point is hermetically sealed without any cavities. The fastening point is hygienically safe.

Conclusion:

With the washer from Freudenberg Sealing Technologies and the special screw system from NOVONox hygienic, a sealing and fastening component that is 100 % hygienic and cavity-free has been created for the first time.





Hygienic Tools – smooth stays smooth

Protective inserts protect sensitive surfaces.

Protective inserts have been developed so that the sensitive surfaces of the screws and nuts of the Hygienic USIT® screw and sealing system remain completely undamaged. These high-strength plastic or aluminium protective inserts prevent scratches on the screws and nuts. Moreover, they also protect from possible contact corrosion between the tool and the

stainless steel fastener. The protective inserts are inserted into tools which have been specially modified to accept them. The inserts clip in place so that they cannot be easily pulled out or lost. The inserts are available for screws sized M4, M5, M6, M8, M10, M12 and M16.





PRODUCTS



Seals



Nuts





Clamping levers



Grips



Knobs



Pull handles



Quarter-turn locks





Levelling feet



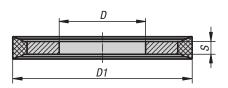


Hygienic USIT® seal and shim washers













With its highly reliable sealing and design that is compliant with hygiene requirements, the Hygienic USIT® seal and shim washer is setting new standards for cleanliness in the process industry. Many manufacturers of machinery and systems for the food and pharmaceutical industries often use standard shim washers or 0-rings for screw connections in or on the product chamber. These are not EHEDG-compliant, however, as contamination and biofilms in the form of bacteria colonies and corrosion can form under the screw head, preventing the design from achieving maximum hygiene standards.

The metallic shim washer with a fixed sealing ring made from 70 EPDM 291 (black) or 70 EPDM 253815 (white) provides a secure, cavity-free seal. The Hygienic USIT® seal and shim washer, made from the fluorinated premium compound Fluoroprene® XP 45, is suitable for applications involving particularly aggressive CIP/SIP cleaning temperatures, high steam sterilisation temperatures and process media containing grease. This material has an even larger operating temperature range and is resistant to polar and non-polar media as well as flavouring substances.

Approvals such as FDA, EU1935/2004 and USP Class VI (121°C), plus EHEDG certification, confirm that the Hygienic USIT® washer represents the ideal choice for hygienically demanding applications in the food, beverage and pharmaceutical industries.

Material:

Washer: Stainless steel 1.4404. Sealing ring: 70 EPDM 291 (black) 70 EPDM 253815 (white) 75 Fluoroprene® XP 45 (blue)

Sample order:

K1491.051

Note:

The EHEDG certificate is only valid when a specifically matched hexagon head bolt K1492 or cap nut K1493 is used.

Attention:

The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials.

The user must check that it is suitable for the application in question.

Accessories:

The Hygienic USIT® seal and shim washers can be used with all other products of the Hygienic USIT® range.

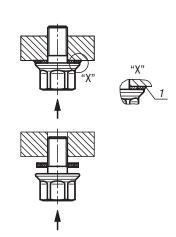
Drawing reference:

1) Cavity free sealing



Hygienic USIT® seal and shim washers





KIPP Hygienic USIT® seal and shim washers

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	D	D1	S	Suitable for hexagon screws	Suitable cap nuts
K1491.041	K1491.042	K1491.044	4,1	9,7	1	M4	M4
K1491.051	K1491.052	K1491.054	5,1	10,7	1	M5	M5
K1491.061	K1491.062	K1491.064	6,1	13,1	1	M6	M6
K1491.081	K1491.082	K1491.084	8,1	16,9	1	M8	M8
K1491.101	K1491.102	K1491.104	10,1	21,2	1,5	M10	M10
K1491.121	K1491.122	K1491.124	12,1	25,5	1,5	M12	M12
K1491.161	K1491.162	K1491.164	16,1	33,9	1,5	M16	M16



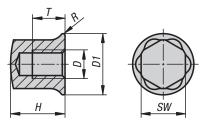
Stainless steel cap nuts with collar



for Hygienic USIT® seal and shim washers













A cavity-free seal can only be assured in combination with the Hygienic USIT® seal and shim washer.

The polished cap nuts have a surface finish of Ra < 0.8 μ m. Internal transition areas with a minimum radius of 3 mm are also provided, preventing dirt particles from adhering to the components and ensuring easy cleaning.

The cap nut with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conform to EHEDG regulations, something that is confirmed with the relevant certificate.

Material:

Stainless steel 1.4404.

Version:

Polished.

Sample order:

K1493.05

Note:

The EHEDG certificate is only valid when a specifically matched Hygienic $USIT^{\otimes}$ seal and shim washer K1491 is used.

On request:

Special versions.

Accessories:

Hygienic USIT® seal and shim washer K1491. Hexagon head bolts with collar K1492. Sockets with plastic inserts K1361. Ring/open-end spanner with protective caps K1362.

KIPP Stainless steel cap nuts with collar for Hygienic USIT® seal and shim washers

Order No.	D	D1	Н	R	SW	Т
K1493.04	M4	10,8	9	0,45	7	4,8
K1493.05	M5	11,8	11	0,5	8	6
K1493.06	M6	14	13	0,55	10	7,2
K1493.08	M8	18	16	0,6	13	9,6
K1493.10	M10	22	20	0,75	16	12
K1493.12	M12	26,6	23	0,9	18	14,4
K1493.16	M16	35	30	1,2	24	19,2



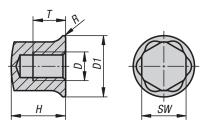
Stainless steel cap nuts with collar

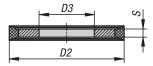


and seal and shim washer for Hygienic USIT® set











Set: cap nut with collar K1493 + Hygienic USIT® seal and shim washer K1491.

Only the combination of a cap nut with collar and the Hygienic USIT® seal and shim washer assures a cavity-free seal.

The cap nut with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conform to EHEDG regulations, which is confirmed with the relevant certificate.

Material:

Cap nut: stainless steel 1.4404. Washer: stainless steel 1.4404. Seal ring: 70 EPDM 291 (black). 70 EPDM 253815 (white).

75 Fluoroprene® XP 45 (blue).

Version:

Cap nut: polished.

Sample order:

K1594.041

Note:

The EHEDG certificate is only valid when a combination of cap nut with collar K1493 and specially matched Hygienic USIT® seal and shim washer K1491 is used.

Attention:

The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials.

The user must check that it is suitable for the application in question.

Accessories:

Hexagon head screw with collar K1492. Sockets with plastic inserts K1361. Ring/open-end spanner with protective caps K1362.

KIPP Stainless steel cap nuts with collar and seal and shim washer for Hygienic USIT® set

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	D	D1	D2	D3	Н	R	S	SW	T	Approval / Certification
K1594.041	K1594.042	K1594.044	M4	10,8	9,7	4,1	9	0,45	1	7	4,8	EHEDG
K1594.051	K1594.052	K1594.054	M5	11,8	10,7	5,1	11	0,5	1	8	6	EHEDG
K1594.061	K1594.062	K1594.064	M6	14	13,1	6,1	13	0,55	1	10	7,2	EHEDG
K1594.081	K1594.082	K1594.084	M8	18	16,9	8,1	16	0,6	1	13	9,6	EHEDG
K1594.101	K1594.102	K1594.104	M10	22	21,2	10,1	20	0,75	1,5	16	12	EHEDG
K1594.121	K1594.122	K1594.124	M12	26,6	25,5	12,1	23	0,9	1,5	18	14,4	EHEDG
K1594.161	K1594.162	K1594.164	M16	35	33,9	16,1	30	1,2	1,5	24	19,2	EHEDG

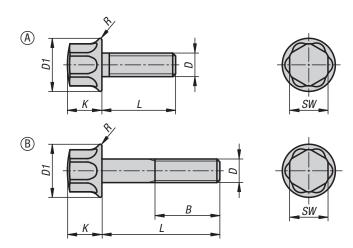




for Hygienic USIT® seal and shim washers









A cavity-free seal can only be assured in combination with the Hygienic USIT $^{\!\circ}$ seal and shim washer.

The polished screws have a surface finish of $Ra < 0.8 \ \mu m$.

Internal transition areas with a minimum radius of 3 mm are also provided, preventing dirt particles from adhering to the components and ensuring easy cleaning.

Hexagon head bolts with collar for Hygienic USIT® seal and shim washers are ideal for fastening in sterile areas and also conform to EHEDG regulations, something that is confirmed with the relevant certificate.

Material:

Stainless steel 1.4404.

Version:

Polished.

Sample order:

K1492.05X12 (include length L)

Note

The EHEDG certificate is only valid when a specifically matched Hygienic USIT $^{\odot}$ seal and shim washer K1491 is used.

On request:

Special versions.

Accessories:

Hygienic USIT® seal and shim washer K1491.

Hexagon cap nut with collar K1493.

Sockets with plastic inserts K1361.

Ring/open-end spanner with protective caps K1362.





for Hygienic USIT® seal and shim washers

KIPP Stainless steel hexagon head screws with collar for Hygienic USIT® seal and shim washers

Order No.	Form	D	D1	D2	K	L	R	SW
K1492.04X	Α	M4	10,8	4	6,9	8/12/16/20	0,45	7
K1492.05X	Α	M5	11,8	5	8,5	12/16/20	0,5	8
K1492.06X	А	M6	14	6	9,2	12/16/20/25	0,55	10
K1492.08X	А	M8	18	8	11,7	16/20/25/30/35	0,6	13
K1492.10X	А	M10	22	10	14	20/25/30/35/40	0,75	16
K1492.12X	А	M12	26,6	12	17	25/30/35/40/45	0,9	18
K1492.16X	А	M16	35	16	21,8	30/35/40/45/50/60	1,2	24

Order No.	Form	D	D1	D2	В	К	L	R	SW
K1492.04X	В	M4	10,8	4	14	6,9	25/30/35/40	0,45	7
K1492.05X	В	M5	11,8	5	16	8,5	25/30/35/40/45/50	0,5	8
K1492.06X	В	M6	14	6	18	9,2	30/35/40/45/50/60	0,55	10
K1492.08X	В	M8	18	8	22	11,7	40/45/50/60/70/80	0,6	13
K1492.10X	В	M10	22	10	26	14	45/50/60/70/80	0,75	16
K1492.12X	В	M12	26,6	12	30	17	50/60/70/80	0,9	18
K1492.16X	В	M16	35	16	38	21,8	70/80	1,2	24

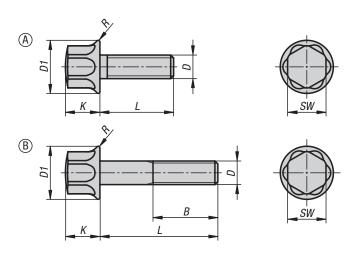


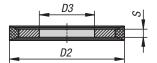


and seal and shim washer for Hygienic USIT® set











Set: hexagon head screw with collar K1492 + Hygienic USIT® seal and shim washer K1491.

Only the combination of a hexagon head screw with collar and the Hygienic USIT® seal and shim washer assures a cavity-free seal.

The hexagon head screw with collar for Hygienic USIT® seal and shim washers is ideal for fastening in sterile areas and also conforms to EHEDG regulations, which is confirmed with the relevant certificate.

Material:

Hexagon head screw: stainless steel 1.4404.

Washer: stainless steel 1.4404.

Seal ring:

70 EPDM 291 (black).

70 EPDM 253815 (white).

75 Fluoroprene® XP 45 (blue).

Version:

Hexagon head screw: polished

Sample order:

K1595.041X20

Note:

The EHEDG certificate is only valid when a combination of hexagon head screw with collar K1492 and specially matched Hygienic USIT® seal and shim washer K1491 is used.

Attention:

The function of the Hygienic USIT® screw connection system has been tested in combination with stainless steel materials and standard cleaning materials.

The user must check that it is suitable for the application in question.

Accessories:

Cap nut with collar K1493.

Sockets with plastic inserts K1361.

Ring/open-end spanner with protective caps K1362.





and seal and shim washer for Hygienic USIT® set

KIPP Stainless steel hexagon head screws with collar and seal and shim washer for Hygienic USIT® set

Order No. 70 EPDM 291 black	Order No. 70 EPDM 253815 white	Order No. fluoroprene XP 45 blue	Form	D	L	D1	В	K	R	SW	D2	D3	S	Approval / Certification
K1595.041X	K1595.042X	K1595.044X	Α	M4	8/10/12/16/20	10,8	-	6,9	0,45	7	9,7	4,1	1	EHEDG
K1595.041X	K1595.042X	K1595.044X	В	M4	25/30/35/40	10,8	14	6,9	0,45	7	9,7	4,1	1	EHEDG
K1595.051X	K1595.052X	K1595.054X	Α	M5	10/12/16/20	11,8	-	8,5	0,5	8	10,7	5,1	1	EHEDG
K1595.051X	K1595.052X	K1595.054X	В	M5	25/30/35/40/45/50	11,8	16	8,5	0,5	8	10,7	5,1	1	EHEDG
K1595.061X	K1595.062X	K1595.064X	Α	M6	12/16/20/25	14	-	9,2	0,55	10	13,1	6,1	1	EHEDG
K1595.061X	K1595.062X	K1595.064X	В	M6	30/35/40/45/50/60	14	18	9,2	0,55	10	13,1	6,1	1	EHEDG
K1595.081X	K1595.082X	K1595.084X	Α	M8	16/20/25/30/35	18	-	11,7	0,6	13	16,9	8,1	1	EHEDG
K1595.081X	K1595.082X	K1595.084X	В	M8	40/45/50/60/70/80	18	22	11,7	0,6	13	16,9	8,1	1	EHEDG
K1595.101X	K1595.102X	K1595.104X	Α	M10	20/25/30/35/40	22	-	14	0,75	16	21,2	10,1	1,5	EHEDG
K1595.101X	K1595.102X	K1595.104X	В	M10	45/50/60/70/80	22	26	14	0,75	16	21,2	10,1	1,5	EHEDG
K1595.121X	K1595.122X	K1595.124X	Α	M12	25/30/35/40/45	26,6	-	17	0,9	18	25,5	12,1	1,5	EHEDG
K1595.121X	K1595.122X	K1595.124X	В	M12	50/60/70/80	26,6	30	17	0,9	18	25,5	12,1	1,5	EHEDG
K1595.161X	K1595.162X	K1595.164X	Α	M16	30/35/40/45/50/60	35	-	21,8	1,2	24	33,9	16,1	1,5	EHEDG
K1595.161X	K1595.162X	K1595.164X	В	M16	70/80	35	38	21,8	1,2	24	33,9	16,1	1,5	EHEDG

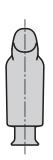
Clamping levers with internal thread and collar

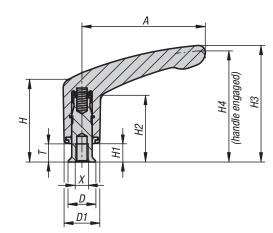


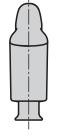
for Hygienic USIT® Freudenberg Process Seals sealing and shim washer

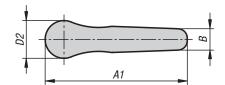














Material:

Metal parts stainless steel 1.4404. Shaft seal 70 EPDM 291.

Version:

High-gloss polished.

Sample order:

K1316.308

Note:

Clamping lever designed for the hygienic sector. The completely closed grip part and the shaft seal prevent contamination of the lever internal workings. Additionally, the screw insert has a conical collar so that the fastening point can be hygienically sealed with the Hygienic USIT® sealing and shim washer. Due to the extremely high surface finish quality of much less than Ra 0.8 µm, hardly any dirt particles adhere to the surface. The highly polished surfaces enable easy cleaning

At rest, the lever is freely rotatable. Unintended opening of the lever is excluded. The toothing is protected against high wear for mounting on vibrating elements.

On request:

Other thread depths and inch threads.

Accessories:

Hygienic USIT® sealing and shim washer K1491.





KIPP Clamping levers with internal thread and collar for Hygienic USIT® Freudenberg Process Seals sealing and shim washer

Order No.	Х	T	D	D1	D2	Н	H1	H2	Н3	H4	Α	A1	В	No. of teeth
K1316.106	M6	10	14,2	21	21,7	36,7	8,8	27	50,6	47,6	47,4	58,2	11,8	16
K1316.206	M6	10	14,2	21	22,1	45,7	10,7	36,8	64,1	61,1	66,5	77,5	13	16
K1316.208	M8	14	18	21	22,1	45,7	10,7	36,8	64,1	61,1	66,5	77,5	13	16
K1316.308	M8	12	18	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20
K1316.310	M10	15	22,3	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20
K1316.312	M12	19	26,6	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20



Clamping levers with external thread and collar

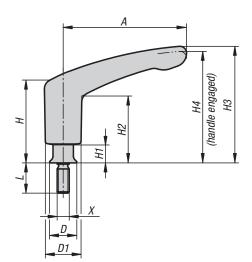


for Hygienic USIT® Freudenberg Process Seals sealing and shim washer

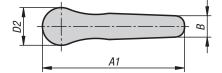














Material:

Metal parts stainless steel 1.4404. Shaft seal 70 EPDM 291.

Version:

High-gloss polished.

Sample order:

K1317.308X16

Note:

Clamping lever designed for the hygienic sector. The completely closed grip part and the shaft seal prevent contamination of the lever internal workings. Additionally, the screw insert has a conical collar so that the fastening point can be hygienically sealed with the Hygienic USIT® sealing and shim washer. Due to the extremely high surface finish quality of much less than Ra 0.8 µm, hardly any dirt particles adhere to the surface. The highly polished surfaces enable easy cleaning

At rest, the lever is freely rotatable. Unintended opening of the lever is excluded. The toothing is protected against high wear for mounting on vibrating elements.

On request:

Other screw lengths and inch threads.

Accessories:

Hygienic USIT® sealing and shim washer K1491.

press to engage (safety function)



KIPP Clamping levers with external thread and collar for Hygienic USIT® Freudenberg Process Seals sealing and shim washer

Order No.	Х	D	D1	D2	Н	H1	H2	Н3	H4	А	A1	В	No. of teeth	L
K1317.106X	M6	14,2	21	21,7	36,7	8,8	27	50,6	47,6	47,4	58,2	11,8	16	20/30/40/50
K1317.206X	M6	14,2	21	22,1	45,7	10,7	36,8	64,1	61,1	66,5	77,5	13	16	20/30/40/50
K1317.208X	M8	18	21	22,1	45,7	10,7	36,8	64,1	61,1	66,5	77,5	13	16	20/30/40/50/60
K1317.308X	M8	18	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	16/20/25/30/35/40/50/60
K1317.310X	M10	22,3	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	20/25/30/35/40/50/60
K1317.312X	M12	26,6	23,6	24,9	54,7	12,1	44	77	73,5	81,5	94	14,2	20	25/30/35/40/50/60



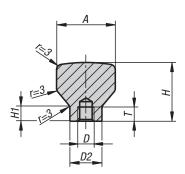
Wing nuts

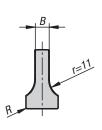


for Hygienic USIT® sealing and shim washer Freudenberg Process Seals













Material:

Steel parts stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1312.2004

Note:

The wing nut makes simple screw connections superbly feasible. They can be easily opened or retightened without tools.

The complete surface is polished to a high gloss with a surface finish of much less than Ra 0.8 μm . The contour is produced with generous radii and transitions. It doesn't matter in which position the wing grip is mounted, dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured. The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the screw-on point. The shaft of the wing nut is specially designed to suit this seal. An almost cavity-free seal of the screw-on point is created which satisfies hygienic regulations.

On request:

Other thread depths and inch threads.

Accessories:

Hygienic USIT® sealing and shim washer K1491 for the screw-on surface.

KIPP Wing nuts for Hygienic USIT® sealing and shim washer Freudenberg Process Seals

Order No.	А	В	D	D2	Н	H1	R	T
K1312.2004	20	4	M4	10,8	19	5,3	0,45	6
K1312.2105	21	5	M5	11,8	21	6	0,5	6
K1312.2506	25	6	M6	14,2	25	7	0,55	7
K1312.3308	33	8	M8	18	33	8,4	0,7	9
K1312.4010	40	10	M10	22,3	40	10	0,8	11



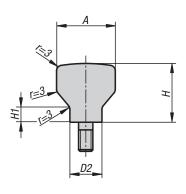
Wing screws

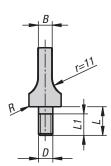


for Hygienic USIT® sealing and shim washer Freudenberg Process Seals













Material:

Steel parts stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1313.2004X8

Note:

The wing screw makes simple screw connections superbly feasible. They can be easily opened or retightened without tools.

The complete surface is polished to a high gloss with a surface finish of much less than Ra 0.8 μm . The contour is produced with generous radii and transitions. It doesn't matter in which position the wing grip is mounted, dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured. The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the screw-on point. The shaft of the wing screw is specially designed to suit this seal. An almost cavity-free seal of the screw-on point is created which satisfies hygienic regulations.

On request:

Other screw lengths and inch threads.

Accessories:

Hygienic USIT $^{\! \odot}$ sealing and shim washer K1491 for the screw-on surface.

KIPP Wing screws for Hygienic USIT® sealing and shim washer Freudenberg Process Seals

Order No.	А	В	D	D2	Н	H1	L	L1	R	
K1313.2004X8	20	4	M4	10,8	19	5,3	8	7	0,45	
K1313.2105X10	21	5	M5	11,8	21	6	10	9	0,5	
K1313.2506X12	25	6	M6	14,2	25	7	12	11	0,55	
K1313.3308X16	33	8	M8	18	33	8,4	16	15	0,7	
K1313.4010X20	40	10	M10	22,3	40	10	20	19	0,8	



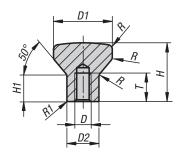
Mushroom knobs female thread with high head



for Hygienic USIT® Freudenberg Process Seals sealing and shim washer











Material:

Steel parts stainless steel 1.4404.

Version

High-gloss polished.

Sample order:

K1308.2004

Note:

The high head makes the mushroom knob ideal for manual pull and push movements.

The complete surface is polished to a high gloss with a surface finish of much less than Ra $0.8\,\mu m$. The contour is produced with generous radii and transitions. It doesn't matter in which position the mushroom knob is mounted, dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured.

The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the screw-on point. The shaft of the mushroom knob is specially designed to suit this seal. An almost cavity-free seal of the screw-on point is created which satisfies hygienic regulations.

On request:

Inch threads, thread depths, form variations.

Accessories:

Hygienic $USIT^{\scriptsize @}$ sealing and shim washer K1491 for the screw-on surface.

KIPP Mushroom knobs, female thread with high head, for Hygienic USIT® sealing and shim washer

Order No.	D	D1	D2	Н	H1	T	R	R1
K1308.2004	M4	20	10,8	19	8	10	3	0,45
K1308.2105	M5	21	11,8	21	10	12	3	0,5
K1308.2506	M6	25	14,2	25	12	12	3	0,55
K1308.3308	M8	33	18	33	15	16	4	0,7
K1308.4010	M10	40	22,3	40	19	20	4	0,8



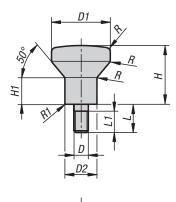
Mushroom knobs male thread with high head



for Hygienic USIT® sealing and shim washer Freudenberg Process Seals











Material:

Steel parts stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1309.2004X8

Note:

The high head makes the mushroom knob ideal for manual pull and push movements.

The complete surface is polished to a high gloss with a surface finish of much less than Ra 0.8 μm . The contour is produced with generous radii and transitions. It doesn't matter in which position the mushroom knob is mounted, dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured.

The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the screw-on point. The shaft of the mushroom knob is specially designed to suit this seal. An almost cavity-free seal of the screw-on point is created which satisfies hygienic regulations.

On request:

Inch threads, thread lengths, form variations.

Accessories:

Hygienic USIT® sealing and shim washer K1491 for the screw-on surface.

KIPP Mushroom knobs male thread, with high head, for Hygienic USIT® sealing and shim washer

Order No.	D	D1	D2	Н	H1	L	L1	R	R1	
K1309.2004X8	M4	20	10,8	19	8	8	7	3	0,45	
K1309.2105X10	M5	21	11,8	21	10	10	9	3	0,5	
K1309.2506X12	M6	25	14,2	25	12	12	11	3	0,55	
K1309.3308X16	M8	33	18	33	15	16	15	4	0,7	
K1309.4010X20	M10	40	22,3	40	19	20	19	4	0,8	



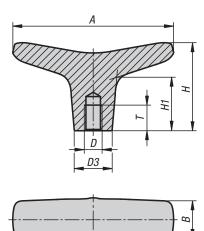
T-grips with female thread in stainless steel



for Hygienic USIT® sealing and shim washer Freudenberg Process Seals









Material:

Stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1515.5505

Note:

The complete surface is polished to a high gloss with a surface finish of Ra 0.8 μ m. This means that dirt and impurities can hardly adhere. Easy cleaning is ensured. The Hygienic USIT® sealing and shim washers from Freudenberg Process are used to seal the fastening point. The shaft of the T-grip is specially designed to suit this seal. A cavity-free seal of the fastening point is created, which satisfies hygienic regulations.

On request:

Other thread depths, inch threads, male threads.

Accessories:

Hygienic USIT® sealing and shim washer K1491 for the screw-on surface.

KIPP T-grips with female thread in stainless steel for Hygienic USIT® sealing and shim washer Freudenberg Process Seals

Order No.	А	В	D	D3	Н	H1	Т
K1515.5505	55,2	12,3	M5	11,65	32,9	21	7,5
K1515.6506	65,3	14	M6	14	37	22,7	9
K1515.7508	75,3	17,7	M8	17,8	41,2	24,9	12

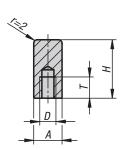


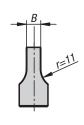
Wing nuts narrow

in Hygienic DESIGN

















Material:

Stainless steel 1.4404.

Version:

Polished.

Sample order:

K1314.04

Note:

The wing nut makes simple screw connections feasible. They can be easily opened or re-tightened without tools.

The complete surface is polished with a surface finish of less than Ra 0.8 $\mu m.$ The contour is rounded with smooth transitions. Due to the polished surface dirt and residue from products or cleaners seldom adheres. Easy cleaning is ensured.

On request:

Inch threads, external threads.

KIPP Wing nuts narrow in Hygienic DESIGN

Order No.	А	В	D	Н	Т
K1314.04	9	4,5	M4	20	6
K1314.05	10	4,5	M5	22	6
K1314.06	12	5,5	M6	22	7
K1314.08	16	8	M8	25	9
K1314.10	20	10	M10	30	11



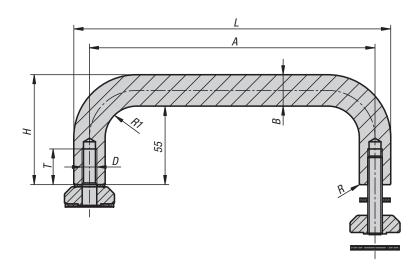
Pull handles



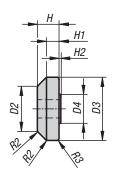
for Hygienic USIT® sealing and shim washer Freudenberg Process Seals

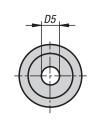














Material:

Stainless steel 1.4404.

Version:

High-gloss polished.

Sample order:

K1364.30006

Note:

Solid pull handles, polished overall to a high gloss. The resulting surface finish of less than Ra 0.8 μ m allows residue from products or cleaners to seldom adhere. This, together with the large radii make the handle extremely easy to clean.

Through the optionally available support disc, the contact surface i.e. the transferable force is considerably increased.

Screwing on directly or using the intermediate support disc is carried out using the Hygienic USIT® sealing washer from Freudenberg Process Seals. The as normal time-consuming welding of the handle, grinding and polishing the weld is not required. All fastening points and the screw-on surface are hygienically handled.

On request:

External threads, inch threads, longer and higher versions.

Accessories:

Hygienic USIT $^{\circ}$ sealing and shim washer K1491 for the screw-on surface and the support disc.



Pull handles



for Hygienic USIT® sealing and shim washer Freudenberg Process Seals

KIPP Pull handles

Order No.	А	В	D	Н	L	R	R1	T
K1364.12005	120	11,8	M5	66,8	131,8	0,5	13	12,5
K1364.20005	200	11,8	M5	66,8	211,8	0,5	13	12,5
K1364.30005	300	11,8	M5	66,8	311,8	0,5	13	12,5
K1364.12006	120	14,2	M6	69,2	134,2	0,55	16	15
K1364.20006	200	14,2	M6	69,2	214,2	0,55	16	15
K1364.30006	300	14,2	M6	69,2	314,2	0,55	16	15
K1364.12008	120	18	M8	73	138	0,6	19	20
K1364.20008	200	18	M8	73	218	0,6	19	20
K1364.30008	300	18	M8	73	318	0,6	19	20
K1364.12010	120	22,3	M10	77,3	142,3	0,75	23,5	25
K1364.20010	200	22,3	M10	77,3	222,3	0,75	23,5	25
K1364.30010	300	22,3	M10	77,3	322,3	0,75	23,5	25

KIPP Circular plates

Order No.	for screws	D2	D3	D4	D5	Н	H1	H2	R2	R3
K1365.05	M5	13,5	18	8	5,2	6	3,5	0,7	1,5	0,6
K1365.06	M6	15,7	22,3	10	6,2	8	4,8	0,7	1,5	0,75
K1365.08	M8	20	26,6	12	8,2	10	6,7	1	2	0,9
K1365.10	M10	24,3	35	16	10,2	12	7	1	2	1,2

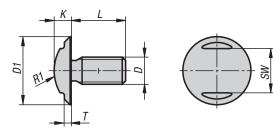


Ball head screw

in Hygienic DESIGN











Material:

Stainless steel 1.4404.

Version: Polished.

Sample order:

K1329.06X20 (include length L)

Ideal elements for fastening cladding panels, Plexiglas covers etc. The oversized flange and the thread undercut ensure a stress-free, uniform force distribution on the respective surfaces. Projecting edges are kept to a minimum by the head height being kept as low as possible. An open-end spanner is used to screw the fastener in.

The surface of the ball head screw is polished and, with regard to design optimised for the use in hygienic environments. The surface is polished to a surface finish of less than Ra 0.8 μm . Dirt and residue from products or cleaners seldom adheres and easy cleaning is ensured.

Accessories:

For damage-free tightening and loosening of the screw we recommend the open-end spanners with protective cap, see article No. K1362 ... together with the protective caps K1362 ...

KIPP Ball head screw in Hygienic DESIGN

Order No.	D	D1	К	T	SW	R1	L
K1329.03X	M3	8	2	0,6	5	5,2	4/5/6/8/10
K1329.04X	M4	11	3	1	6	6,7	5/6/8/10/12
K1329.05X	M5	14	4	1	8	8,6	6/8/10/12/16
K1329.06X	M6	17	5	1,5	10	10	8/10/12/16/20
K1329.08X	M8	20	5	1,5	13	13	10/12/16/20/25
K1329.10X	M10	22	6	1,5	15	13,5	12/16/20/25/30/37
K1329.12X	M12	27	7,5	1,5	19	16,3	16/20/25/30/35
K1329.16X	M16	36	9	1,5	24	23	20/25/30/35/40

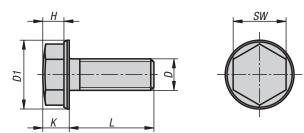


Hexagon head screws, stainless steel

in Hygienic DESIGN











Material:

Stainless steel 1.4404

Version:

Polished.

Sample order:

K1411.03X06

(include length L e.g. 06 for L = 6 mm.)

Note:

The surface of the hexagon head bolt is polished and, with regard to design optimised for the use in hygienic environments.

The bolt head is convex on the top face and the collar has a conical formed top surface.

Instead of troublesome embossing or indentations, the bolt head is smooth with a surface finish of Ra 0.8 $\mu m.$ Dirt and residue from products or cleaners seldom adheres and easy cleaning is ensured.

KIPP Hexagon head screws, stainless steel in Hygienic DESIGN

Order No.	D	D1	Н	K	L	SW
K1411.03X	M3	7	3	3,8	6/8/12/16/20/25/30	5,5
K1411.04X	M4	9,2	3	4	8/12/16/20/25/30/35/40	7
K1411.05X	M5	10,5	3,7	4,7	12/16/20/25/30/35/40/45/50	8
K1411.06X	M6	13	4	5	12/16/20/25/30/35/40/45/50/55/60	10
K1411.08X	M8	16,8	5,5	6,5	16/20/25/30/35/40/45/50/55/60	13
K1411.10X	M10	20,6	7,3	8,3	20/25/30/35/40/45/50/55/60	16

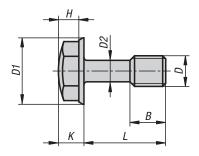


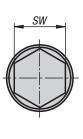
Hexagon bolts with narrow shaft

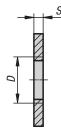
in Hygienic DESIGN

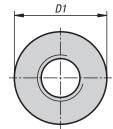
















Material:

Stainless steel 1.4404.

Version:

Polished.

Sample order:

K1330.06X30 (include length L)

Note:

Narrow shaft bolts are preferably secured against unintentional loss with a retaining element. This satisfies the EU standard 2006/42/EG. With the optionally available retaining washer the bolt is permanently combined with the component before screwing in. The washer is screwed over the threaded section and can then move freely on the narrow shaft. The shaft is not damaged by e.g. notching caused by a spring effect. By manual operation it is not possible that the washer screws itself out again. However, by careful manipulation the washer can be removed from the bolt without damaging either.

The surface of the hexagon head bolt is polished and, with regard to design optimised for the use in hygienic environments. The bolt head is convex on the top face and the collar has a conical formed top surface. Instead of troublesome embossing or indentations, the bolt head is smooth with a surface finish of less than Ra 0.8 μ m. Dirt and residue from products or cleaners seldom adheres and easy cleaning is ensured.

On request:

Inch threads, thread lengths, shaft lengths

Accessories:

Locking washer K1331.



Hexagon bolts with narrow shaft



in Hygienic DESIGN

KIPP Hexagon bolts with narrow shaft in Hygienic DESIGN

Order No.	D	D1	D2	В	Н	K	L	SW
K1330.03X	M3	7	2,1	4,5	3	3,8	6/8/10/12	5,5
K1330.04X	M4	9,2	3,1	5	3	4	6/8/10/12/16	7
K1330.04X	M4	9,2	3,1	14	3	4	20	7
K1330.05X	M5	10,5	3,7	6	3,7	4,7	8/10/12/16/20	8
K1330.05X	M5	10,5	3,7	16	3,7	4,7	25	8
K1330.06X	M6	13	4,2	7	4	5	8/10/12/16/20	10
K1330.06X	M6	13	4,2	18	4	5	25/30/35/40/45/50/60	10
K1330.08X	M8	16,8	6	9	5,5	6,5	12/14/16/20/25	13
K1330.08X	M8	16,8	6	22	5,5	6,5	30/35/40/45/50/55/60/65/70	13
K1330.10X	M10	20,6	7,7	12	7,3	8,3	20/25/30/35	16
K1330.10X	M10	20,6	7,7	26	7,3	8,3	40/45/50/55/60/65/70/75/80	16

KIPP Retaining washers for narrow shank screws

Order No.	D	D1	S
K1331.03	M3	6	1,5
K1331.04	M4	8	1,5
K1331.05	M5	10	1,5
K1331.06	M6	12	1,5
K1331.08	M8	16	2
K1331.10	M10	20	2

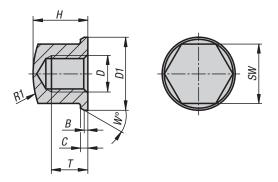


Cap nut compact

in Hygienic DESIGN













Material:

Stainless steel 1.4404.

Version:

Polished.

Sample order:

K1332.08

Note:

The surface of the cap nut is polished and, with regard to design optimised for the use in hygienic environments. The top of the nut is spherical and the collar has a conical formed top face. The nut has been designed as a low version so as to keep troublesome corners as few as possible. Due to the extremely high quality surface finish of much less than Ra $0.8\,\mu m$, hardly any dirt particles adhere to the surface.

On request:

Inch threads, high versions.

KIPP Cap nut compact in Hygienic DESIGN

Order No.	D	D1	В	С	Н	R1	SW	T	W
K1332.03	M3	6,8	0,25	0,5	4,95	8,8	5,5	3	20
K1332.04	M4	9	0,3	0,8	6,5	10	7	4	30
K1332.05	M5	10	0,5	1	7	16	8	4	30
K1332.06	M6	12	0,8	1	9	16	10	6	30
K1332.08	M8	16	0,8	1,6	12	20	13	8	30
K1332.10	M10	20	1	2	14	32	16	10	30
K1332.12	M12	24	1	2,5	16	35	19	11	30



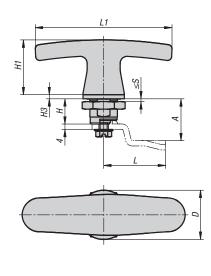
Quarter-turn lock in Hygienic DESIGN



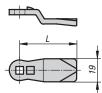
with T-grip











Material:

Housing and actuation: 1.4404. Earthing nut and ratchet screw: 1.4301. Seal: blue silicon, FDA conform.

Version:

Bright.

Grip polished.

Sample order:

K1452.1188

Note:

The hygienic stainless steel quarter turn lock prevents bacterial attack and fulfils the strict regulations of testing principles for foodstuff machinery and hygien.

The well concieved geometric form, the mirror polished stainless steel surface and the central circumferential seal reliably prevent dirt accumulation. Water, cleaning agents etc. can drain off fully and so prevent contamination.

Especially in processes where the resistance of the seal to cleaning and disinfection agents is very important, optimised control cabinets, terminal boxes and command panels are a must. Specifically designed after the principles of Hygienic DESIGN, the hygienic quarter turn lock HD fulfils the strict regulations of the foodstuff processing industry and passes therefore optimally in their professional hygienic applications. The special seal is suitable for high pressure washing up to max. 100 bar and fulfils IP65/67. Furthermore, the seal is temperature stable up to 80°C and the blue colour satisfies FDA regulations (reliably prevents a confusion with foodstuffs).

Please order required tongue version separately. Every tongue can be combined with every housing.

KIPP Quarter-turn lock in Hygienic DESIGN with T-grip

Order No.	D	Н	H1	Н3	L1	S max.
K1452.1188	30	18	40	3	100	8

KIPP Tongue for quarter-turn locks

Order No.	A	L
K1340.45060	6	45
K1340.45080	8	45
K1340.45100	10	45
K1340.45140	14	45
K1340.45160	16	45
K1340.45180	18	45
K1340.45200	20	45
K1340.45220	22	45
K1340.45240	24	45
K1340.45260	26	45
K1340.45280	28	45
K1340.45320	32	45
K1340.45500	50	45

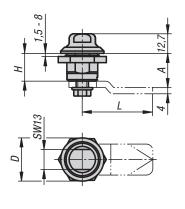


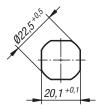
Quarter-turn lock in Hygienic DESIGN

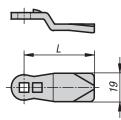














Material:

Housing, actuation and fastening nut 1.4404 stainless steel.

O-rings red silicone, conforming to FDA. Tongue 1.4301 stainless steel.

Version:

Bright.

Sample order:

Quarter turn lock K1353.18 Tongue K1340.45060

Note:

The quarter turn lock fulfills the hygienic requirements acc. to DIN EN 1672-2 and DIN EN 14159. Especially suitable for the food and beverage industry.

Please order required tongue version separately. Every tongue can be combined with every housing.

Accessories:

Lock key K1335.113 Ring spanner K1362.13 Protective insert K1362.1310

KIPP Quarter-turn lock in Hygienic DESIGN

Order No.	Actuation	D	Н
K1353.18	double flat	28	18

KIPP Tongue for quarter-turn lock

Order No.	А	L
K1340.45060	6	45
K1340.45080	8	45
K1340.45100	10	45
K1340.45140	14	45
K1340.45160	16	45
K1340.45180	18	45
K1340.45200	20	45
K1340.45220	22	45
K1340.45240	24	45
K1340.45260	26	45
K1340.45280	28	45
K1340.45320	32	45
K1340.45500	50	45

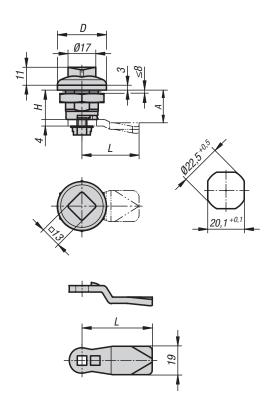


Quarter-turn lock in Hygienic DESIGN











Order No.	Actuation	D	Н
K1354.18	square	30	18

KIPP Tongue for quarter-turn lock

Order No.	А	L
	<u> </u>	. <u>.</u>
K1340.45060	6	45
K1340.45080	8	45
K1340.45100	10	45
K1340.45140	14	45
K1340.45160	16	45
K1340.45180	18	45
K1340.45200	20	45
K1340.45220	22	45
K1340.45240	24	45
K1340.45260	26	45
K1340.45280	28	45
K1340.45320	32	45
K1340.45500	50	45



Material:

Housing and actuation: 1.4404.
Earthing nut and ratchet screw: 1.4301.
Seal: blue silicon, FDA conform.

Tongue 1.4301.

Version:

Bright.

Sample order:

Quarter turn lock K1354.18 Tongue K1340.45060

Note:

The hygienic stainless steel quarter turn lock prevents bacterial attack and fulfils the strict regulations of testing principles for foodstuff machinery and hygien. The well concieved geometric form, the mirror polished stainless steel surface and the central circumferential seal reliably prevent dirt accumulation. Water, cleaning agents etc. can drain off fully and so prevent contamination.

Especially in processes where the resistance of the seal to cleaning and disinfection agents is very important, optimised control cabinets, terminal boxes and command panels are a must. Specifically designed after the principles of Hygienic DESIGN, the hygienic quarter turn lock HD fulfils the strict regulations of the foodstuff processing industry and passes therefore optimally in their professional hygienic applications. The special seal is suitable for high pressure washing up to max. 100 bar and fulfils IP65/67. Furthermore, the seal is temperature stable up to 80°C and the blue colour satisfies FDA regulations (reliably prevents a confusion with foodstuffs).

Please order required tongue version separately. Every tongue can be combined with every housing.

Accessories:

Lock key K1335.113 Ring spanner K1362.16 Protective insert K1362.1613

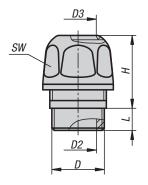


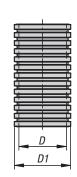
Cable fasteners, stainless steel or plastic



in Hygienic DESIGN









Material

Cable fasteners: Stainless steel 1.4404 or PVDF. Hose: Plastic.

Version:

Cable fasteners: Stainless steel bright.

Plastic transparent. Hose: Plastic blue.

Sample order:

K1453.12150

Note:

Washers supplied. EN 60423 metric thread. IP rating 66, 68 up to 15 bar, 69K. EHEDG certified





KIPP Cable fasteners, stainless steel or plastic, Hygienic DESIGN

Order No. stainless steel	Order No. plastic	D	D2	D3	Н	SW	L
K1453.12150	-	M12x1,5	8	7-5	19	17	7
K1453.16150	K1453.16151	M16x1,5	10	9-7	21/25	20/22	9
K1453.20150	K1453.20151	M20x1,5	12,5	12-9	27/29	24/26	9
K1453.25150	K1453.25151	M25x1,5	18,5	18-15	27/31	30/32	10
K1453.32150	K1453.32151	M32x1,5	25,3	23-20	27/32	36/38	11

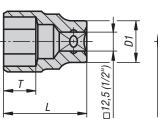
KIPP Corrugated tube hose

Order No.	D	D1	L	Nominal size
K1461.1250	11,8	16	50 m	12
K1461.1750	15,6	21,6	50 m	17

Sockets and plastic inserts

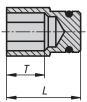


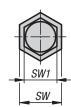












Material:

Socket tool steel. Insert special PETP.

Version:

Socket chromium-plated.

Sample order:

K1361.1112 (Socket SW11)

K1361.0805 (Plastic insert SW8 for M5 hex head screw)

Note:

Socket:

Socket with 1/2" drive, made by Hazet. Specially modified, for holding the plastic inserts. The plastic inserts are securely held by the inner form and length of the socket. Optimal drive torque is transmitted to the screw head. By careful use, metallic contact between the socket and the hex head is prevented. Contact corrosion is eliminated.

Plastic insert:

Plastic inserts for tightening and loosening the screws and nuts of the KIPP product range NOVOnox hygienic. Polished and sensitive surfaces are protected and a later contact corrosion is avoided.

The plastic inserts are made from a specially manufactured PETP and have FDA approval. The inserts are pressed into the special socket manually. The form fit and locking device ensures an optimal hold in the socket. No special tools are required to exchange the worn out inserts.

By a tightening torque of μ 0.12 coefficient of friction (DIN for A4-70 for screws and nuts), the plastic inserts have a life expectancy of up to 1000 alternating cycles.

Drawing reference:

A) Socket

B) Plastic insert

KIPP Sockets

Order No.	D	D1	L	T	SW
K1361.1012	15,3	22	36,6	10,6	10
K1361.1112	16,6	22	37,3	10,1	11
K1361.1312	19,1	22	37,3	10,6	13
K1361.1612	22,9	23,6	37,1	11,3	16
K1361.1912	26,6	23	37	13,2	19
K1361.2112	29	25	36,8	12,9	21
K1361.2712	35,2	25	44,4	18,1	27

KIPP Plastic inserts

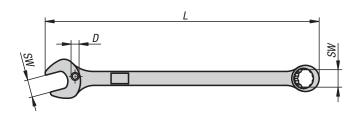
Order No.	L	Т	SW	SW1	Suitable for hexagon screws
K1361.0805	18	6	11	8	M5
K1361.1006	19,5	10	13	10	M6
K1361.1308	21,5	11	16	13	M8
K1361.1610	22	13,5	19	16	M10
K1361.1812	21,5	12	21	18	M12
K1361.2416	26,5	18	27	24	M16

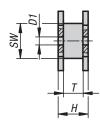
Combination spanner with protective caps

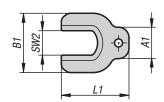




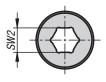


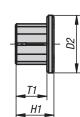


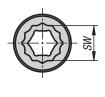














Material:

Combination spanner tool steel. Protective cap AlSi1MgMn.

Sample order:

K1362.10 combination spanner K1362.1007 caps for open-end spanner K1362.11007 caps for ring spanner

Note:

The protective cap was specially developed for tightening and loosening screw connections with sensitive surfaces. With normal tools, the surface of polished screws are so damaged even by the first tightening, that cavities are created making easy and effective cleaning no longer possible.

The protective caps ensure damage free tightening and loosening of fasteners with outer contours. The soft aluminium leaves no scratches or other damage on sensitive surfaces. As the aluminium cap is placed over the hard tool steel, the actual tightening load / tightening torque is taken up by the combination spanner. By proper and professional use the protective caps have a service life of ca. 1000 operating cycles.

Additionally, with the protective caps the risk of contact corrosion is reliably prevented on stainless steel fasteners. The projecting contour largely prevents unintentional contact points between spanner and stainless steel screw. The protective caps are made of the aluminium alloy EN AW 6082 and so comply with EN 602 - aluminium in contact with food. The protective cap is safely held in the spanner by a special moulding or sprung clip element. The cap cannot fall out on its own. Damaged protective caps can be exchanged manually.

On request:

Other sizes.



Combination spanner with protective caps



KIPP Combination spanner

Order No.	SW	А	В	L	D
K1362.10	10	5	8	154,5	5
K1362.11	11	5,5	8,4	168,5	5
K1362.13	13	6,3	10	193	6
K1362.16	16	7	11,4	230,5	6
K1362.19	19	8	13,5	268,5	7
K1362.21	21	8,5	13,7	292	7
K1362.27	27	10,5	16	380	9

KIPP Cap for open-end spanner

Order No.	SW	SW2	A1	B1	L1	D1	T	Н
K1362.1007	10	7	9	17	19,4	2,3	5,6	8,6
K1362.1108	11	8	9	18	20,7	2,3	5,7	8,7
K1362.1310	13	10	10	22	23,2	3	6,7	10,7
K1362.1613	16	13	13	27	28,6	3	7,7	11,7
K1362.1916	19	16	13	30	32,5	4	8,6	12,6
K1362.2118	21	18	13	32	35	4	9	13
K1362.2724	27	24	14	40	43,8	4	10,8	15

KIPP Cap for ring spanner

Order No.	SW	SW2	D2	T1	H1
K1362.11007	10	7	16,5	8	11
K1362.11108	11	8	18	9,4	11,4
K1362.11310	13	10	21	11	13
K1362.11613	16	13	25	12,4	14,4
K1362.11916	19	16	30	14,5	16,5
K1362.12118	21	18	32	14,7	16,7
K1362.12724	27	24	41	17	19



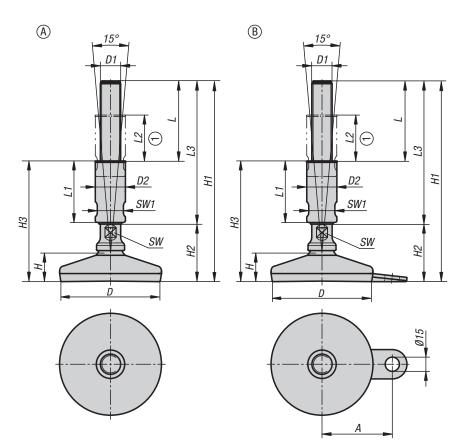
Levelling feet in Hygienic DESIGN











Material:

Foot plate and threaded spindle stainless steel 1.4301. Rubber base (NBR) Shore 85 +/-5, FDA tested. Rubber seal, silicone, FDA tested.

Version:

Foot plate, high-gloss polished. Threaded spindle, bright. Rubber base, black. Rubber seal, blue.

Sample order:

K1303.108016X140 (include length L3)

Note:

Certified according to 3-A Sanitary Standard 88-00.

The high surface quality, the double sealing of the thread and the special seal on the machine foot's spindle joint prevent dirt from sticking and reduce cleaning times to a minimum.

The machine foot is supplied with the 3-A logo.

Application:

The machine foot is particularly suitable for machines, plants and appliances in the foodstuff industry, breweries, dairies, beverage and pharmaceutical industries.

Accessories:

Hygienic USIT® sealing and shim washer K1491. Hexagon cap nut with collar K1493.

Drawing reference:

1) Adjustment range



Levelling feet in Hygienic DESIGN



KIPP Form A

Order No.	Form	D	D1	D2	Н	H1	H2	НЗ	L	L1	L2	L3	SW	SW1	Load rating max. kN (static load only)
K1303.108016X	Α	80	M16	24	25	193/243	53	114/139	79/104	60/85	45/70	140/190	13	20	20
K1303.108020X	Α	80	M20	30	25	193/243	53	114/139	79/104	60/85	45/70	140/190	17	26	20
K1303.108024X	Α	80	M24	35	25	193/243	53	114/139	79/104	60/85	45/70	140/190	20	30	20
K1303.110016X	Α	100	M16	24	28	196/246	56	117/142	79/104	60/85	45/70	140/190	13	20	25
K1303.110020X	Α	100	M20	30	28	196/246	56	117/142	79/104	60/85	45/70	140/190	17	26	25
K1303.110024X	Α	100	M24	35	28	196/246	56	117/142	79/104	60/85	45/70	140/190	20	30	25
K1303.112016X	Α	120	M16	24	32	200/250	60	121/146	79/104	60/85	45/70	140/190	13	20	30
K1303.112020X	Α	120	M20	30	32	200/250	60	121/146	79/104	60/85	45/70	140/190	17	26	30
K1303.112024X	Α	120	M24	35	32	200/250	60	121/146	79/104	60/85	45/70	140/190	20	30	30

KIPP Form B with fastening tab

Order No.	Form	A	D	D1	D2	Н	H1	H2	Н3	L	L1	L2	L3	SW	SW1	Load rating max. kN (static load only)
K1303.208016X140	В	54	80	M16	24	25	193	53	114	79	60	45	140	13	20	20
K1303.208016X190	В	54	80	M16	24	25	243	53	139	104	85	70	190	13	20	20
K1303.208020X140	В	54	80	M20	30	25	193	53	114	79	60	45	140	17	26	20
K1303.208020X190	В	54	80	M20	30	25	243	53	139	104	85	70	190	17	26	20
K1303.208024X140	В	54	80	M24	35	25	193	53	114	79	60	45	140	20	30	20
K1303.208024X190	В	54	80	M24	35	25	243	53	139	104	85	70	190	20	30	20
K1303.210016X140	В	69	100	M16	24	28	196	56	117	79	60	45	140	13	20	25
K1303.210016X190	В	69	100	M16	24	28	246	56	142	104	85	70	190	13	20	25
K1303.210020X140	В	69	100	M20	30	28	196	56	117	79	60	45	140	17	26	25
K1303.210020X190	В	69	100	M20	30	28	246	56	142	104	85	70	190	17	26	25
K1303.210024X140	В	69	100	M24	35	28	196	56	117	79	60	45	140	20	30	25
K1303.210024X190	В	69	100	M24	35	28	246	56	142	104	85	70	190	20	30	25



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HEINRICH KIPP WERK GmbH & Co. KG

Heubergstraße 2
72172 Sulz am Neckar
GERMANY
Tel. +49 7454 793-0
Fax +49 7454 793-7982
info@kipp.com
www.kipp.com

