



HYGIENIC USIT®

DESCRIPTION

Sealing material: 75 Fluoroprene® XP 45 (blue), 70 EPDM 253815 (white), 70 EPDM 291 (black)

Metallic washer: 1.4404

Sizes available: M4, M5, M6, M8, M10, M12, M16

FUNCTION

EHEDG-conform, dead-space-free, static sealing in or at the product space, preventing the formation of microfilms and corrosion.

AREA OF APPLICATION

Sealing in open processes with direct media contact in the food and beverage segment as well as the pharmaceutical industry.

NOTES

Suitable screws and cap nuts in a hygienic design are available under the product name NOVOnox hygienic in cooperation with the Heinrich Kipp Werk (www.kippwerk.de/de/de/NOVOnox-hygienic.html).

ASSEMBLY

The Hygienic Usits were developed specially for use with screws and cap nuts for flange connections based on DIN EN 1665. The lip geometry is optimized solely for this purpose, ensuring perfect function. Use with components of a different geometry can cause the sealing lip to shear off.

In addition, the maximum torques listed in the table below must be observed. The use of impact wrenches is not permitted. When used with plastic contact surfaces, the deformation of the plastic can lead to increased abrasion. In the worst case, this strain can cause destruction of the sealing lip. The components that will be assembled must already be in contact before the assembly of the Hygienic Usit®. Otherwise this can cause damage to the seal due to long sliding paths between the screw head and the seal. Contact between screw head and seal should only take place during the last millimeter of tightening.

The function of the washer in this material combination must be tested in the respective application in the field at the customer's premises.

Properties	M4	M5	M6	M8	M10	M12	M16
Friction coefficient (µges)	0,23	0,23	0,23	0,23	0,23	0,23	0,23
Bore diameter (mm)	4,05	5,05	6,05	8,05	10,05	12,05	16,05
Tensile strength cross section (mm²)	8,78	14,2	20,1	36,6	58	84,3	157
Tension force FV (N)	1.405	2.272	3.216	3.856	9.280	13.488	25.120
Tightening torque MA (Nm)	2,03	3,87	6,55	15,63	30,63	53,51	131,43

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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