Item description/product images



Description

Product description:
U-rings are axially static sealing elements for
use in screw joints, valves, flanges
and hydraulic applications. They consist of a metal ring with a vulcanised-on, trapezoidal elastic sealing bead. When the fastener is tightened, the elastic sealing bead is compressed between the two flat surfaces. The thickness of the metal ring limits the maximum compression of the seal. When additional pressure is applied to the sealing point, the sealing bead is pressed further against the flat surfaces, thereby further enhancing the sealing effect.

U-rings are not suitable for use as thread locks.

Material:
Steel version: Washer steel 1.0330. Elastomer NBR, Shore 70A. Stainless steel version: Washer stainless steel 1.4301. Elastomer EPDM, Shore 70A, FDA-compliant.

Version:
Steel version Washer steel 1.0330, electro zinc-plated. Elastomer NBR, black. Stainless steel version: Washer stainless steel $s14301bright. Elastomer EPDM, black.

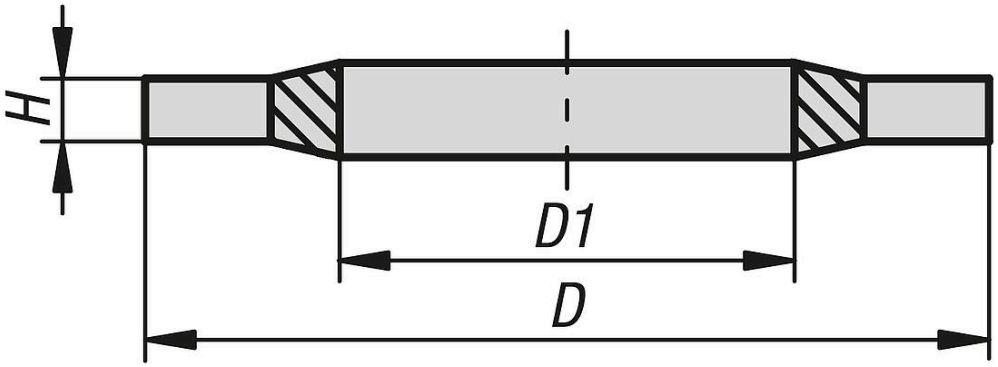
Note:
Flat, undamaged sealing faces are essential for a reliable seal. The maximum permissible surface roughness is Rmax ≤ 15 µm or Ra ≤ 3 µm. A seal can only be guaranteed to function securely and correctly if it is fitted carefully and professionally.

Technical data:
Process pressures:
≤ 100 MPa when fitted into a recess.
≤ 40 MPa when fitted without counterbore by ø < 40 mm.
≤ 25 MPa when fitted without counterbore by ø > 40 mm.

Temperature range:
NBR: -30°C to +80°C.
EPDM: -40°C to +130°C.

On request:
Further dimensions and materials.

Drawings



Overview of items

U-rings, steel or stainless steel

Order No.	Main material	Component material	Surface finish body	D	D1	H	Shore grade	Steel key	for screw
23902-04070451011	stainless steel	EPDM	bright	7	4,5	1	70A	1.4301	M4
23902-04070451022	steel	nitrile rubber	galvanised	7	4,5	1	70A	1.0330	M4
23902-05090571011	stainless steel	EPDM	bright	9	5,7	1	70A	1.4301	M5
23902-05090571022	steel	nitrile rubber	galvanised	9	5,7	1	70A	1.0330	M5
23902-06100671011	stainless steel	EPDM	bright	10	6,7	1	70A	1.4301	M6
23902-06100671022	steel	nitrile rubber	galvanised	10	6,7	1	70A	1.0330	M6
23902-08130871011	stainless steel	EPDM	bright	13	8,7	1	70A	1.4301	M8
23902-08130871022	steel	nitrile rubber	galvanised	13	8,7	1	70A	1.0330	M8
23902-10161071511	stainless steel	EPDM	bright	16	10,7	1,5	70A	1.4301	M10
23902-10161071522	steel	nitrile rubber	galvanised	16	10,7	1,5	70A	1.0330	M10
23902-12181271511	stainless steel	EPDM	bright	18	12,7	1,5	70A	1.4301	M12
23902-12181271522	steel	nitrile rubber	galvanised	18	12,7	1,5	70A	1.0330	M12
23902-16241671511	stainless steel	EPDM	bright	24	16,7	1,5	70A	1.4301	M16
23902-16241671522	steel	nitrile rubber	galvanised	24	16,7	1,5	70A	1.0330	M16
23902-20282071511	stainless steel	EPDM	bright	28	20,7	1,5	70A	1.4301	M20
23902-20282071522	steel	nitrile rubber	galvanised	28	20,7	1,5	70A	1.0330	M20