



osn

JUNTAS SIMÉTRICAS
SYMMETRICAL SEALS

La empresa *Company*



Desde su creación en 1992, OSN se ha posicionado como un referente en el sector de los suministros industriales, destacando en la estanqueidad, fijación y transmisión. Nuestra empresa se caracteriza por su agilidad, versatilidad y capacidad de respuesta rápida, con un catálogo de más de 50.000 referencias en stock y la posibilidad de enviar los pedidos en 24 horas a toda la Península. Nuestro compromiso es ofrecer soluciones personalizadas y eficientes, adaptadas a las necesidades específicas de cada cliente y sector industrial.

Dentro del área de estanqueidad, OSN se presenta como un especialista indiscutible, ofreciendo una amplia gama de productos de máxima calidad que garantizan la seguridad y eficiencia de los sistemas hidráulicos y neumáticos. Entre los productos más destacados se encuentran los retenes. También disponemos de juntas tóricas, quadlings y v-rings, juntas metalbuna, cierres mecánicos, rascadores y juntas de pistón y vástago. Para satisfacer las necesidades más personalizadas, OSN también fabrica juntas a medida en cualquier tipo de elastómero, con la posibilidad de entregas rápidas y adaptadas a cada cliente.

En la línea de fijación, la oferta de OSN incluye anillos elásticos en medidas métricas y en pulgadas, fabricadas en acero al carbono o inoxidable, arandelas y pasadores. Nuestra empresa se posiciona como un socio estratégico en el ámbito del movimiento mecánico, con una amplia gama de rodamientos superpopulares en acero y acero inoxidable de gama económica en stock, rodamientos especiales para bicicletas y moto así como rótulas y cojinetes.

Otro de los grandes valores diferenciales de OSN es su capacidad para ofrecer kits personalizados. Estos kits se diseñan para facilitar la disponibilidad y la organización de las piezas esenciales en cada proyecto. Los clientes pueden acceder a kits de juntas tóricas, quadlings y bonded seals, que se organizan de forma práctica por medidas y materiales.

En OSN no solo ofrecemos productos, brindamos soluciones integrales y personalizadas que garantizan la eficiencia y la seguridad de cada proyecto industrial. Confíe en la experiencia, la calidad y la rapidez de un socio estratégico que siempre está a la altura de sus necesidades.

Since its foundation in 1992, OSN has established itself as a benchmark in the industrial supply sector, specialising in sealing, fastening and power transmission solutions. Our company is defined by its agility, versatility, and fast response capability, supported by a catalogue of more than 50,000 items in stock and the ability to ship orders within 24 hours anywhere in the Iberian Peninsula. Our commitment is to deliver efficient and customised solutions, fully adapted to the specific requirements of each customer and industrial sector.

Within the sealing division, OSN stands out as a true specialist, offering a wide range of high-performance products that ensure the reliability and efficiency of hydraulic and pneumatic systems. Among our flagship products are radial shaft seals, in addition to O-rings, quad-rings, V-rings, metal-rubber bonded seals, mechanical seals, wipers, and piston and rod seals. To meet the most specific needs, OSN also manufactures custom-made gaskets in any type of elastomer, with fast lead times tailored to each customer.

In the fastening line, OSN offers a complete range of circlips in both metric and imperial sizes, manufactured in carbon steel or stainless steel, as well as washers and pins. The company is also positioned as a strategic partner in the field of mechanical motion, with a wide stock of general-purpose bearings in steel and stainless steel, special bearings for bicycles and motorcycles, as well as rod ends and spherical plain bearings.

Another key differentiating value of OSN is its ability to provide customised kits. These kits are designed to improve availability and organisation of essential components for each project. Customers can choose from O-ring kits, quad-ring kits and bonded seal kits, arranged in a practical and efficient way according to sizes and materials.

At OSN, we do more than supply products—we provide integral, tailored solutions that ensure the efficiency, safety and reliability of every industrial project. Trust in the experience, quality and responsiveness of a strategic partner that is always ready to meet your needs.

Juntas Simétricas *Symmetrical Seals*

Las juntas simétricas son elementos de estanqueidad diseñados para aplicaciones hidráulicas dinámicas donde se requiere un sellado fiable y duradero tanto en vástagos como en pistones. Gracias a su geometría equilibrada, pueden emplearse en una amplia variedad de cilindros de simple y doble efecto, simplificando la gestión de referencias y facilitando las operaciones de mantenimiento.

La gama OSN incluye perfiles fabricados en diferentes materiales técnicos, como poliuretano, cauchos elastoméricos y versiones reforzadas con tejido técnico, permitiendo adaptar la solución a distintas condiciones de presión, velocidad, temperatura y compatibilidad química. Su combinación de elevada resistencia al desgaste, buena elasticidad y excelente capacidad de sellado las convierte en una alternativa de altas prestaciones para maquinaria industrial, hidráulica móvil, equipos de elevación, maquinaria agrícola y sistemas de automatización.

Symmetrical seals are sealing elements designed for dynamic hydraulic applications where reliable and durable sealing is required in both rod and piston applications. Thanks to their balanced geometry, they can be used in a wide range of single- and double-acting cylinders, simplifying reference management and facilitating maintenance operations.

The OSN range includes profiles manufactured from different engineering materials, such as polyurethane, elastomeric rubber compounds and versions reinforced with technical fabric, allowing the solution to be adapted to different pressure, speed, temperature and chemical compatibility requirements. Their combination of high wear resistance, good elasticity and excellent sealing performance makes them a high-performance solution for industrial machinery, mobile hydraulics, lifting equipment, agricultural machinery and automation systems.



DISEÑO

La característica principal de las juntas simétricas es su sección transversal equilibrada, con labios de sellado de geometría equivalente en ambos lados del perfil. Esta configuración permite distribuir uniformemente las cargas sobre las superficies de contacto, manteniendo una estanqueidad eficaz independientemente de la orientación de montaje o del sentido de actuación de la presión.

Los labios de sellado generan una precarga inicial que asegura el cierre incluso a bajas presiones. Cuando aumenta la presión del sistema, el propio fluido actúa sobre el perfil incrementando la fuerza de contacto y mejorando progresivamente la capacidad de sellado. Este comportamiento permite combinar una elevada estanqueidad con unos niveles de fricción contenidos, favoreciendo un funcionamiento suave y una larga vida útil de los componentes.

DESIGN

The main characteristic of symmetrical seals is their balanced cross-section, with sealing lips of equivalent geometry on both sides of the profile. This configuration allows loads to be distributed evenly across the contact surfaces, maintaining effective sealing regardless of the installation orientation or the direction in which pressure is applied.

The sealing lips generate an initial preload that ensures sealing even at low pressures. As system pressure increases, the fluid itself acts on the profile, increasing the contact force and progressively improving sealing performance. This behaviour makes it possible to combine high sealing efficiency with controlled friction levels, promoting smooth operation and a long service life of the components.

Juntas Simétricas *Symmetrical Seals*

Determinados perfiles de la gama incorporan materiales de alta resistencia mecánica o refuerzos textiles integrados que incrementan la estabilidad dimensional y mejoran la resistencia frente a la extrusión en condiciones severas de trabajo. Estas características permiten su utilización en aplicaciones sometidas a elevadas cargas hidráulicas, vibraciones, fluctuaciones de presión o condiciones de servicio continuas.

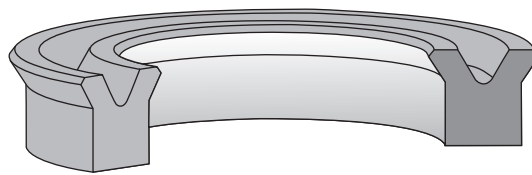
La selección del perfil más adecuado depende principalmente de las condiciones de trabajo de la aplicación. Para servicios generales con presiones moderadas y velocidades habituales, suelen emplearse perfiles estándar que ofrecen un equilibrio óptimo entre estanqueidad, fricción y facilidad de montaje. Cuando se trabaja con presiones más elevadas, holguras mayores o condiciones de servicio severas, es recomendable optar por diseños reforzados o fabricados con materiales de mayor resistencia mecánica, capaces de soportar mejor los esfuerzos de extrusión y las cargas dinámicas.

También deben considerarse factores como la calidad superficial de los componentes, la frecuencia de los ciclos de trabajo, la presencia de vibraciones, la temperatura de funcionamiento y la compatibilidad con el fluido utilizado. Los perfiles más compactos son adecuados cuando el espacio de instalación es reducido, mientras que las geometrías reforzadas ofrecen mayores márgenes de seguridad en equipos sometidos a cargas elevadas o funcionamiento continuo. La correcta combinación entre diseño, material y condiciones de servicio permite maximizar la vida útil de la junta y garantizar un rendimiento fiable a largo plazo.

Certain profiles in the range incorporate high-strength materials or integrated fabric reinforcements that increase dimensional stability and improve resistance to extrusion under severe operating conditions. These characteristics make them suitable for applications subject to high hydraulic loads, vibration, pressure fluctuations or continuous-duty operation.

The selection of the most suitable profile depends primarily on the operating conditions of the application. For general-purpose applications with moderate pressures and conventional operating speeds, standard profiles are commonly used, offering an optimum balance between sealing performance, friction and ease of installation. When operating at higher pressures, with greater clearances or under severe service conditions, reinforced designs or profiles manufactured from materials with higher mechanical strength are recommended, as they provide greater resistance to extrusion forces and dynamic loads.

Other factors must also be considered, such as the surface finish of the mating components, operating cycle frequency, presence of vibration, operating temperature and compatibility with the fluid being used. More compact profiles are suitable where installation space is limited, while reinforced geometries provide greater safety margins in equipment subjected to high loads or continuous operation. The correct combination of design, material and operating conditions makes it possible to maximise seal service life and ensure reliable long-term performance.



FUNCIÓN

La función principal de una junta simétrica es impedir el paso del fluido entre dos superficies en movimiento relativo, manteniendo la presión de trabajo dentro del sistema y evitando fugas internas o externas. Su diseño permite conservar la separación efectiva entre zonas presurizadas y no presurizadas, garantizando el rendimiento del cilindro durante todo el ciclo de funcionamiento.

Además de proporcionar estanqueidad, estas juntas contribuyen a reducir el desgaste de los componentes metálicos gracias al mantenimiento de una película lubricante controlada entre las superficies de contacto. Como resultado, se obtiene una mayor eficiencia energética, una reducción de los costes de mantenimiento y una prolongación de la vida útil del conjunto hidráulico.

FUNCTION

The primary function of a symmetrical seal is to prevent fluid from passing between two surfaces in relative motion, maintaining the operating pressure within the system and preventing internal or external leakage. Its design maintains an effective separation between pressurised and non-pressurised areas, ensuring cylinder performance throughout the entire operating cycle.

In addition to providing sealing, these seals help reduce wear on metallic components by maintaining a controlled lubricating film between the contact surfaces. This results in improved energy efficiency, reduced maintenance costs and an extended service life of the hydraulic assembly.

Juntas Simétricas Symmetrical Seals

INSTALACIÓN

Para garantizar un funcionamiento óptimo, el alojamiento y las superficies de deslizamiento deben encontrarse limpios, libres de rebabas, aristas vivas y defectos de mecanizado que puedan dañar los labios durante el montaje. Se recomienda verificar las dimensiones del alojamiento y respetar los acabados superficiales establecidos para cada aplicación.

Antes de la instalación es aconsejable lubricar ligeramente la junta con un fluido compatible con el sistema. Durante el montaje deben evitarse torsiones, pliegues y deformaciones permanentes del perfil. En aquellos casos donde existan roscas, aristas pronunciadas o pasos estrechos, resulta recomendable utilizar conos o útiles de montaje específicos para proteger las superficies funcionales y facilitar la inserción de la junta. Una vez instalada, debe comprobarse que la pieza se encuentra correctamente asentada y uniformemente posicionada en su alojamiento.

INSTALLATION

To ensure optimum performance, the housing and sliding surfaces must be clean and free from burrs, sharp edges and machining defects that could damage the sealing lips during installation. It is recommended to verify the housing dimensions and comply with the specified surface finishes for each application.

Before installation, the seal should be lightly lubricated with a fluid compatible with the system. Twisting, folding and permanent deformation of the profile must be avoided during assembly. Where threads, sharp edges or narrow passages are present, the use of suitable installation cones or assembly tools is recommended to protect the functional surfaces and facilitate insertion of the seal. Once installed, it must be checked that the seal is correctly seated and evenly positioned within its housing.



ALMACENAMIENTO Y MANIPULACIÓN

Las juntas deben conservarse en su embalaje original, en un lugar limpio, seco y protegido de la luz solar directa. Es recomendable evitar la exposición a fuentes de calor, radiación ultravioleta, ozono, humedad excesiva y agentes químicos que puedan alterar las propiedades físicas del material.

Durante la manipulación deben evitarse estiramientos innecesarios, deformaciones permanentes, cortes, golpes o el contacto con herramientas y superficies abrasivas. Antes de su instalación se recomienda realizar una inspección visual para verificar que la junta no presenta daños derivados del transporte o almacenamiento que puedan comprometer su capacidad de sellado.

STORAGE AND HANDLING

Seals should be kept in their original packaging, in a clean, dry location protected from direct sunlight. Exposure to heat sources, ultraviolet radiation, ozone, excessive humidity and chemical agents that could alter the physical properties of the material should be avoided.

During handling, unnecessary stretching, permanent deformation, cuts, impacts or contact with tools and abrasive surfaces must be avoided. Before installation, a visual inspection is recommended to verify that the seal has not suffered any damage during transport or storage that could compromise its sealing performance.

TIPOS DE JUNTAS SIMÉTRICAS

TYPES OF SYMMETRICAL SEALS

Todos los perfiles simétricos comparten el principio de doble labio y montaje reversible. La elección depende de la presión, del espacio en el alojamiento y del refuerzo o elemento energizante necesario.

All symmetrical profiles share the same double-lip principle and reversible fitting. The choice depends on the pressure, the space in the housing and the reinforcement or energizing element required.

● Poliuretano · *Polyurethane* ● Elastómero · *Elastomer* ○ PTFE · *PTFE*

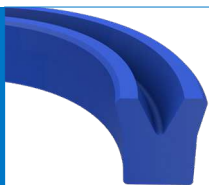


UNP <i>P.8</i>			Perfil simétrico y reversible de simple efecto, en poliuretano , apto como junta de vástago o de pistón. <i>Polyurethane symmetrical, reversible single-acting profile, suitable as either a rod or piston seal.</i>	-40°C 100°C	40MPa	< 0.5 m/s	6mm 2000mm
UNP1 <i>P.44</i>			Versión compacta del UNP para alojamientos radialmente reducidos, en poliuretano , con buen cierre incluso a baja presión. <i>Polyurethane compact version of the UNP for radially restricted housings, with good sealing even at low pressure.</i>	-40°C 100°C	40MPa	< 0.5 m/s	6mm 2000mm
UNR <i>P.52</i>			Junta en U simétrica y económica para servicio ligero y bajas presiones, en elastómero , disponible en distintos elastómeros. <i>Economical symmetrical U-seal for light-duty service and low pressures, available in various elastomer compounds.</i>	-50°C 350°C	40MPa	< 0.5 m/s	6mm 2000mm
HB <i>P.88</i>			Junta en U de poliuretano con tórica de precarga, para un cierre fiable a presiones bajas, variables y de choque. <i>Polyurethane U-seal with an energizing O-Ring, for reliable sealing at low, variable and shock pressures.</i>	-40°C 100°C	40MPa	< 0.5 m/s	6mm 2000mm
HBX <i>P.91</i>			Junta simétrica en poliuretano de doble efecto con quadring energizante, que sella en vacío y en alta y baja presión. <i>Polyurethane symmetrical double-acting seal with an energizing X-ring, sealing in vacuum and at high and low pressure.</i>	-40°C 100°C	40MPa	< 0.5 m/s	6mm 2000mm
JST <i>P.97</i>			Collarín de PTFE energizado por muelle metálico, para temperaturas extremas, alta velocidad y agresividad química. <i>PTFE spring-energized seal for extreme temperatures, high speed and chemically aggressive media.</i>	-200°C 260°C	45MPa	< 10 m/s	6mm 2600mm
UP1 <i>P.110</i>			Junta en U en elastómero , simétrica con respaldo reforzado con tejido, que evita la extrusión en la holgura y resiste los picos de presión. <i>Elastomer symmetrical U-seal with a fabric-reinforced back that prevents gap extrusion and withstands pressure peaks.</i>	-50°C 350°C	25MPa	< 0.5 m/s	6mm 2000mm



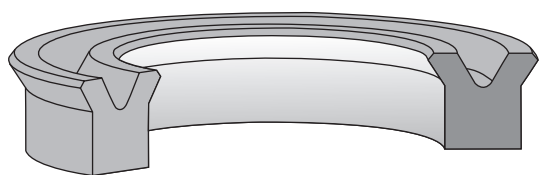
CNP <i>P.116</i>	 	Junta simétrica de tejido y caucho en poliuretano, que mantiene el sellado incluso con vástagos y aros guía desgastados. <i>Polyurethane symmetrical fabric-and-rubber seal that keeps sealing even with worn rods and guide rings.</i>	-40°C 100°C	20MPa	< 0.5 m/s	3mm 2000mm
CNR <i>P.138</i>	 	Junta simétrica de tejido y caucho de distintos elastómeros, según el fluido y la temperatura de trabajo. <i>Symmetrical fabric-and-rubber seal in various elastomer compounds, to suit the fluid and working temperature.</i>	-40°C 100°C	20MPa	< 0.5 m/s	3mm 2000mm

UNP

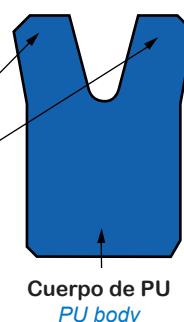


El UNP es una junta en U de perfil simétrico y simple efecto, apta tanto para vástago como para pistón gracias a su geometría reversible. Sus dos labios de estanqueidad con canto ligeramente rebajado garantizan un buen cierre estático y dinámico bajo carga de presión por un solo lado. Es una solución robusta, de montaje sencillo por encaje y amplio rango de aplicación, pensada para cilindros hidráulicos de exigencia moderada en la industria general y la hidráulica móvil.

The UNP is a symmetrical single-acting U-shaped seal, suitable for both rod and piston thanks to its reversible geometry. Its two sealing lips with a slightly recessed edge provide good static and dynamic sealing under one-sided pressure load. It is a robust solution, easy to fit by snap-on assembly and with a wide application range, designed for moderately demanding hydraulic cylinders in general industry and mobile hydraulics.



Labios de estanqueidad simétricos
Symmetrical sealing lips



Canto de estanqueidad
Sealing edge



-40°C
100°C



40MPa



< 0.5m/s



6mm
2000mm

- Perfil simétrico que permite el uso como junta de vástago o de pistón.
- Simple efecto, para carga de presión por un solo lado.
- Buen cierre estático y dinámico.
- Diseño robusto de larga vida útil.
- Montaje sencillo por encaje (snap-on).
- Amplio rango de dimensiones y de aplicación
- Buena relación calidad-precio para aplicaciones de exigencia moderada.



- *Symmetrical profile allowing use as rod or piston seal.*
- *Single acting, for one-sided pressure load.*
- *Good static and dynamic sealing effect.*
- *Robust design with long service life.*
- *Simple snap-on assembly.*
- *Wide range of dimensions and applications.*
- *Good price-performance ratio for moderately demanding applications.*

Fabricado en poliuretano (PU) con durezas de 92 a 95 Shore A, un material de gran resistencia mecánica y a la abrasión que ofrece un excelente comportamiento frente a aceites hidráulicos según DIN 51524, aceites y grasas lubricantes de base mineral y fluidos hidráulicos ignífugos HFA, HFB y HFC.

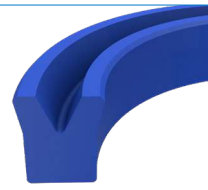


Made of polyurethane (PU) with hardnesses from 92 to 95 Shore A, a material of high mechanical and abrasion resistance that offers excellent performance against hydraulic oils to DIN 51524, mineral-based lubricating oils and greases, and HFA, HFB and HFC fire-resistant hydraulic fluids.

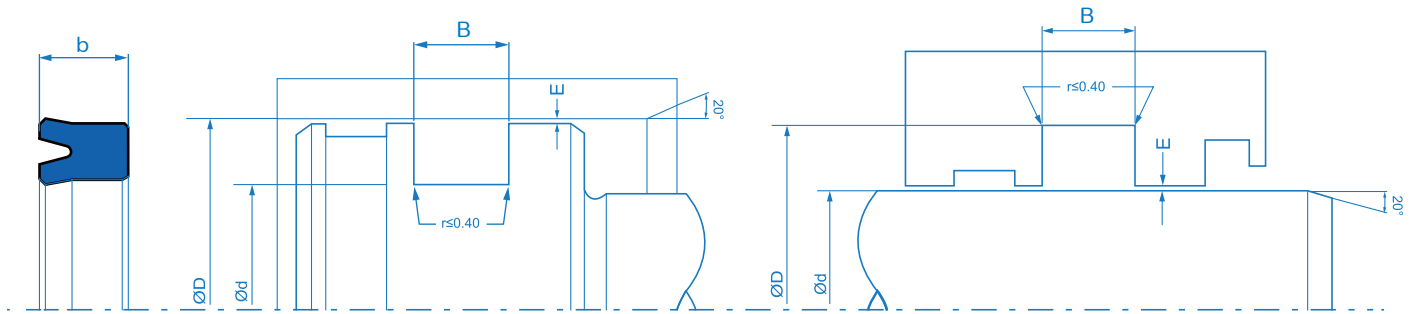
Montaje en ranura cerrada y mecanizada. Achaflanar y desbarbar los cantos del alojamiento y del vástago o pistón, y limpiar bien el alojamiento antes de instalar. No arrastrar la junta sobre cantos vivos, roscas o chaveteros, usando un casquillo de montaje si es necesario. Lubricar el vástago o pistón antes del montaje, calentar la junta en aceite a 80 °C facilita su colocación.



Fit in a closed, machined groove. Chamfer and deburr the edges of the housing and of the rod or piston, and clean the housing thoroughly before installation. Do not pull the seal over sharp edges, threads or keyways, using a mounting sleeve if necessary. Lubricate the rod or piston before assembly, heating the seal in oil at 80 °C makes fitting easier.

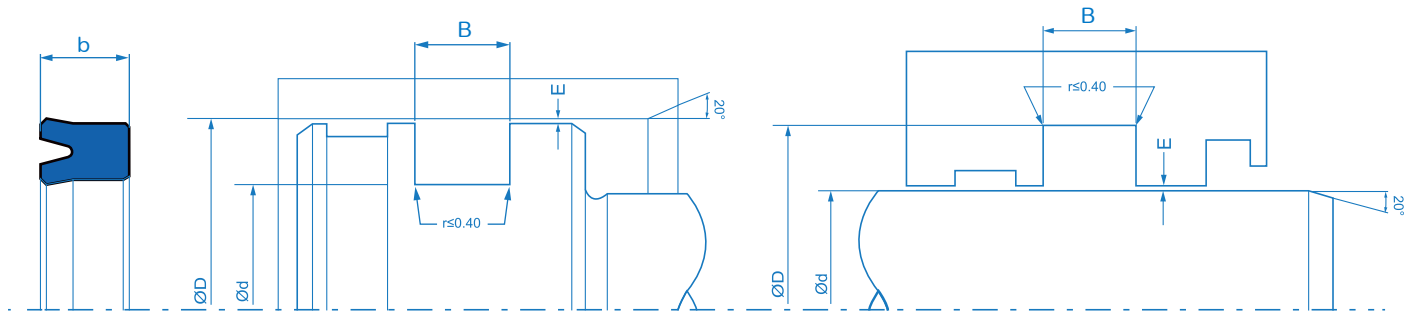
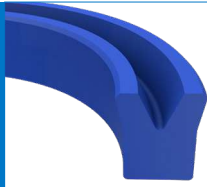


UNP

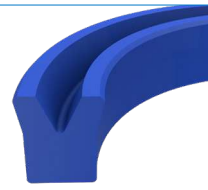


NO.	Ød	ØD	b	B	C
U-3*8*3.5 UNP	3	8	3.5	4	2.5
U-3*10*6 UNP	3	10	6	7	3.5
U-3*7*5 UNP	3	7	5	6	2
U-3*8*4.5 UNP	3	8	4.5	5	2.5
U-4*12*5.5 UNP	4	12	5.5	6.5	4
U-4*10*4 UNP	4	10	4	4.5	3
U-4*10*6 UNP	4	10	6	7	3
U-4*10*5 UNP	4	10	5	6	3
U-4*12*4 UNP	4	12	4	4.5	4
U-4*10*4.5 UNP	4	10	4.5	5	3
U-5*11*7 UNP	5	11	7	8	3
U-5*11*5 UNP	5	11	5	6	3
U-5*10*4 UNP	5	10	4	4.5	2.5
U-5*10*5 UNP	5	10	5	6	2.5
U-5*12*5 UNP	5	12	5	6	3.5
U-5*14*4.5 UNP	5	14	4.5	5	4
U-6*12*6 UNP	6	12	6	7	3
U-6*10*8 UNP	6	10	8	9	2
U-6*13*5.5 UNP	6	13	5.5	6.5	3.5
U-6*15*7.5 UNP	6	15	7.5	8.5	4
U-6*14*6 UNP	6	14	6	7	4
U-6*9*2 UNP	6	9	2	2.5	2
U-6*13*8 UNP	6	13	8	9	3.5
U-6*14*4 UNP	6	14	4	4.5	4
U-6*16*5 UNP	6	16	5	6	4.5
U-6*12*7 UNP	6	12	7	8	3

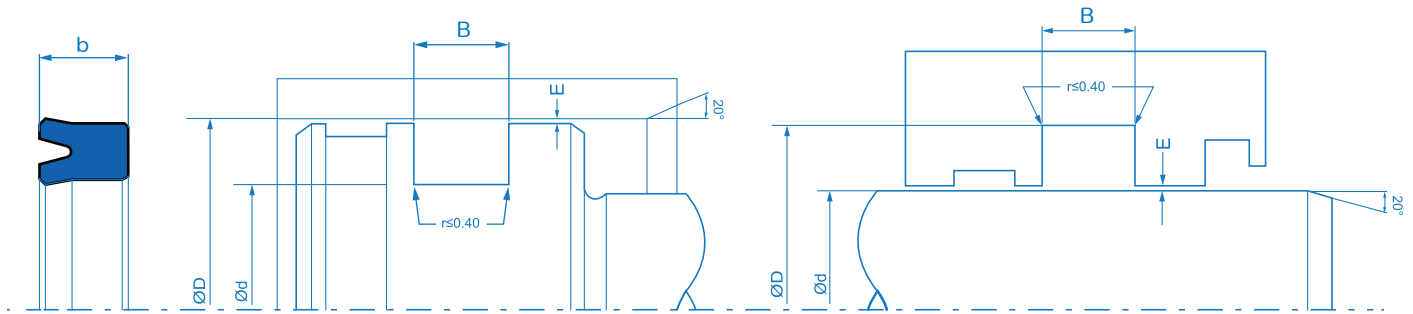
UNP



NO.	Ød	ØD	b	B	C
U-6*10*3 UNP	6	10	3	3.5	2
U-6*15*5 UNP	6	15	5	6	4
U-6*16*6 UNP	6	16	6	7	4.5
U-6*12*4 UNP	6	12	4	4.5	3
U-6*18*8 UNP	6	18	8	9	5
U-7*15*5 UNP	7	15	5	6	4
U-7*14*7 UNP	7	14	7	8	3.5
U-7*15*7 UNP	7	15	7	8	4
U-7*13*3.5 UNP	7	13	3.5	4	3
U-7*12*2.55 UNP	7	12	2.55	3.05	3
U-8*18*8 UNP	8	18	8	9	4.5
U-8*14*6 UNP	8	14	6	7	3
U-8*12*5 UNP	8	12	5	6	2
U-8*18*9 UNP	8	18	9	10	4.5
U-8*15*6 UNP	8	15	6	7	3.5
U-8*16*5.3 UNP	8	16	5.3	6.3	4
U-8*20*8 UNP	8	20	8	9	5
U-8*15*5 UNP	8	15	5	6	3.5
U-8*16*6 UNP	8	16	6	7	4
U-8*16*8 UNP	8	16	8	9	4
U-8*14*4 UNP	8	14	4	4.5	3
U-8*15*8 UNP	8	15	8	9	3.5
U-8*12*4 UNP	8	12	4	4.5	2
U-8*17*6 UNP	8	17	6	7	4
U-9*17*6 UNP	9	17	6	7	4
U-9*19*6 UNP	9	19	6	7	4.5

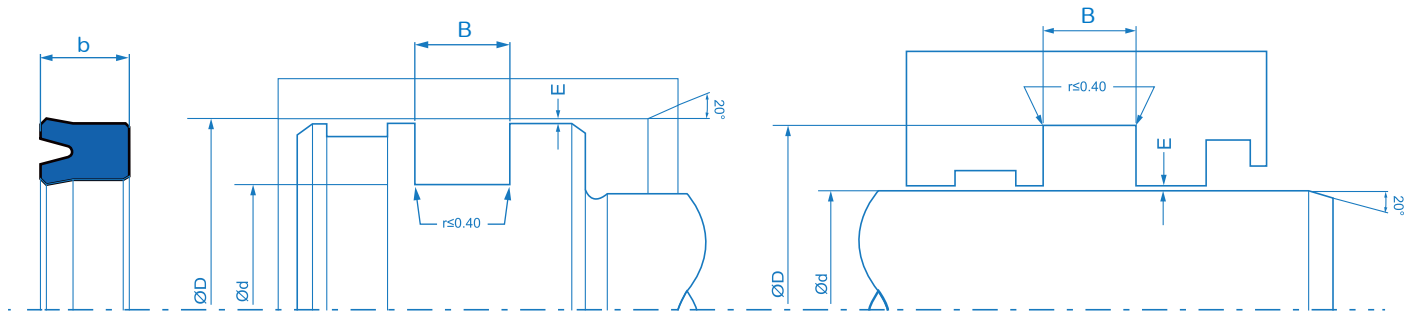
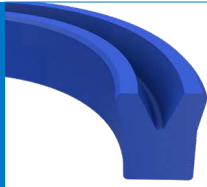


UNP

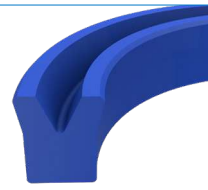


NO.	Ød	ØD	b	B	C
U-9*16*4 UNP	9	16	4	4.5	3.5
U-9*16*7 UNP	9	16	7	8	3.5
U-9*17*5.5 UNP	9	17	5.5	6.5	4
U-9*15*8 UNP	9	15	8	9	3
U-9.4*14*2.9 UNP	9.4	14	2.9	3.4	2
U-10*20*8 UNP	10	20	8	9	4.5
U-10*22*6 UNP	10	22	6	7	5
U-10*18*8 UNP	10	18	8	9	4
U-10*18*4 UNP	10	18	4	4.5	4
U-10*28*10 UNP	10	28	10	11	6
U-10*18*6 UNP	10	18	6	7	4
U-10*25*10 UNP	10	25	10	11	5.5
U-10*26*9.5 UNP	10	26	9.5	10.5	6
U-10*25*8 UNP	10	25	8	9	5.5
U-10*14*4 UNP	10	14	4	4.5	2
U-10*20*6.5 UNP	10	20	6.5	7.5	4.5
U-10*20*4.5 UNP	10	20	4.5	5	4.5
U-10*22*8 UNP	10	22	8	9	5
U-10*16*4.5 UNP	10	16	4.5	5	3
U-10*20*6 UNP	10	20	6	7	4.5
U-10*18*5.5 UNP	10	18	5.5	6.5	4
U-10*18*5 UNP	10	18	5	6	4
U-10*16*4 UNP	10	16	4	4.5	3
U-10*15*4 UNP	10	15	4	4.5	2.5
U-10*16*6 UNP	10	16	6	7	3
U-10*16*5 UNP	10	16	5	6	3

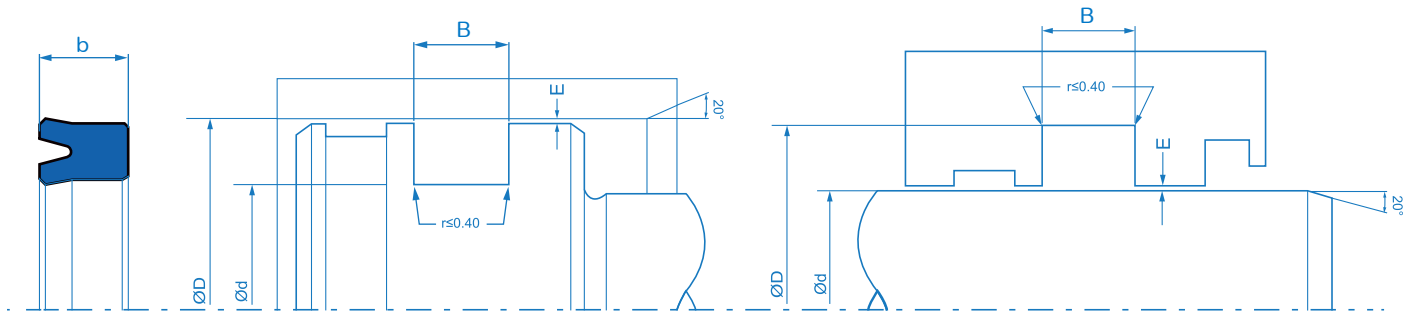
UNP



NO.	Ød	ØD	b	B	C
U-10*20*7 UNP	10	20	7	8	4.5
U-10*22*9 UNP	10	22	9	10	5
U-10*26*8 UNP	10	26	8	9	6
U-11.2*19.2*5 UNP	11.2	19.2	5	6	4
U-11*18.35*5 UNP	11	18.35	5	6	3.5
U-12*22*8 UNP	12	22	8	9	4.5
U-12*20*8 UNP	12	20	8	9	4
U-12*32*10 UNP	12	32	10	11	6
U-12*24*10 UNP	12	24	10	11	5
U-12*18*6 UNP	12	18	6	7	3
U-12*18*4 UNP	12	18	4	4.5	3
U-12*18*5 UNP	12	18	5	6	3
U-12*20*5.5 UNP	12	20	5.5	6.5	4
U-12.7*25.4*6.35 UNP	12.7	25.4	6.35	7.35	5
U-12*16*3 UNP	12	16	3	3.5	2
U-12*22*5 UNP	12	22	5	6	4.5
U-12*18*8 UNP	12	18	8	9	3
U-12*20*5 UNP	12	20	5	6	4
U-12*22*5.5 UNP	12	22	5.5	6.5	4.5
U-12*25*8 UNP	12	25	8	9	5
U-12*24*6 UNP	12	24	6	7	5
U-12*28*10 UNP	12	28	10	11	6
U-12*22*7 UNP	12	22	7	8	4.5
U-12*22*6 UNP	12	22	6	7	4.5
U-12*17*3 UNP	12	17	3	3.5	2.5
U-12*26*10 UNP	12	26	10	11	5.5

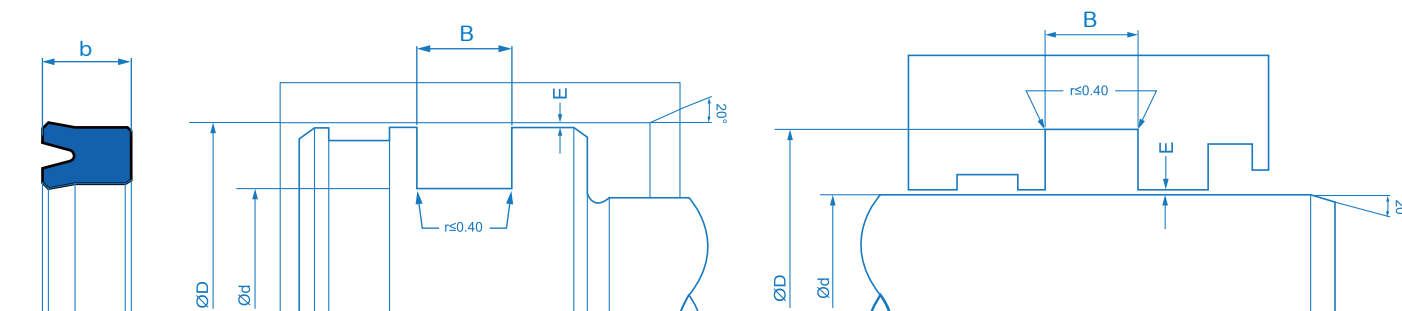
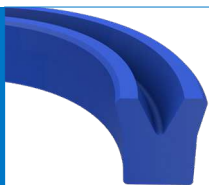


UNP

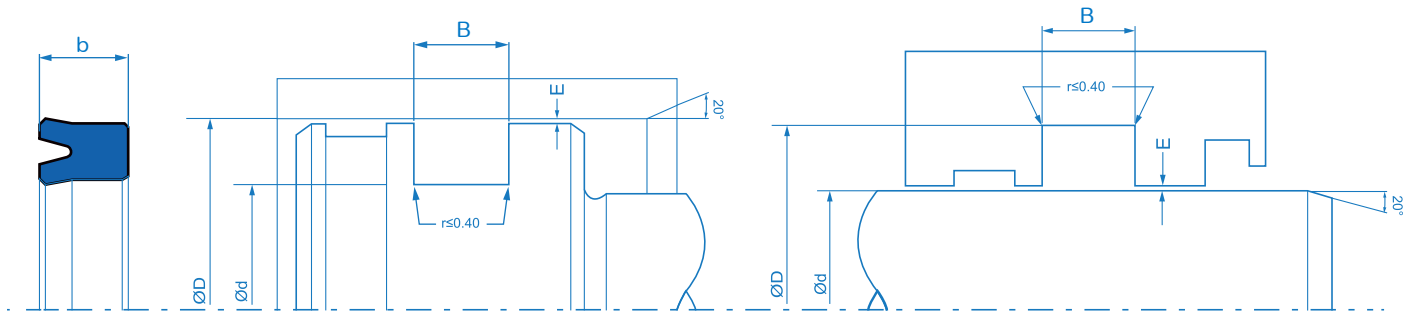


NO.	Ød	ØD	b	B	C
U-13*25*8 UNP	13	25	8	9	5
U-14*24*8 UNP	14	24	8	9	4.5
U-14*22*5 UNP	14	22	5	6	4
U-14*20*6 UNP	14	20	6	7	3
U-14*20*4 UNP	14	20	4	4.5	3
U-14*22*4 UNP	14	22	4	4.5	4
U-14*22*8 UNP	14	22	8	9	4
U-14.5*18*3.75 UNP	14.5	18	3.75	4.25	2
U-14*20*8 UNP	14	20	8	9	3
U-14*32*8 UNP	14	32	8	9	6
U-14*22*6 UNP	14	22	6	7	4
U-14*28*7 UNP	14	28	7	8	5.5
U-14*24*5 UNP	14	24	5	6	4.5
U-14*22*12 UNP	14	22	12	13	4
U-14*24*6 UNP	14	24	6	7	4.5
U-14*28*10 UNP	14	28	10	11	5.5
U-14*20*5 UNP	14	20	5	6	3
U-15*25*8 UNP	15	25	8	9	4.5
U-15*22*5.5 UNP	15	22	5.5	6.5	3.5
U-15*25*10 UNP	15	25	10	11	4.5
U-15*22*5 UNP	15	22	5	6	3.5
U-15*25*5 UNP	15	25	5	6	4.5
U-15*22*4 UNP	15	22	4	4.5	3.5
U-15*25*6 UNP	15	25	6	7	4.5
U-15*21.5*4.5 UNP	15	21.5	4.5	5	3
U-15*21*5 UNP	15	21	5	6	3

UNP

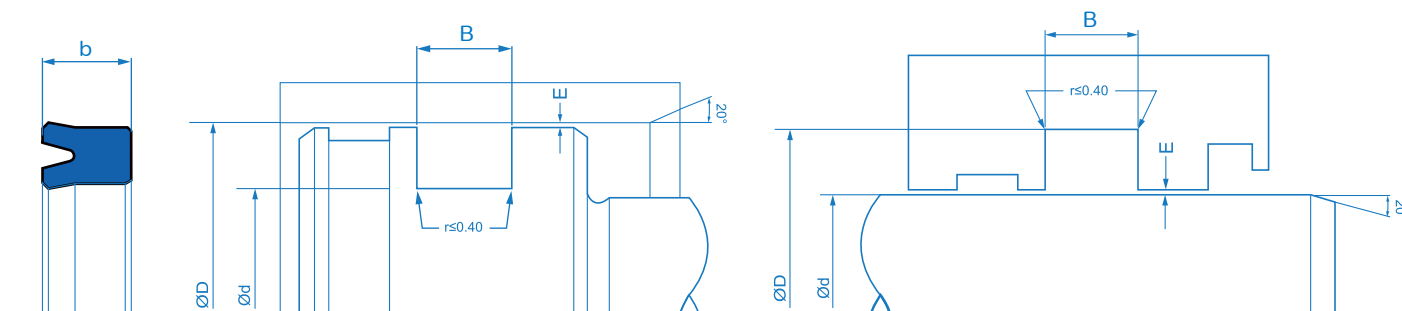
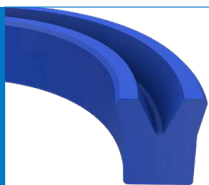


NO.	Ød	ØD	b	B	C
U-15*22*8 UNP	15	22	8	9	3.5
U-15*20*3 UNP	15	20	3	3.5	2.5
U-15*21*3.5 UNP	15	21	3.5	4	3
U-15*28*10 UNP	15	28	10	11	5
U-15*30*10 UNP	15	30	10	11	5.5
U-15*30*8 UNP	15	30	8	9	5.5
U-15*28*8 UNP	15	28	8	9	5
U-15*30*6 UNP	15	30	6	7	5.5
U-16*26*8 UNP	16	26	8	9	4.5
U-16*22*5 UNP	16	22	5	6	3
U-16*22*4 UNP	16	22	4	4.5	3
U-16*24*5 UNP	16	24	5	6	4
U-16*30*7 UNP	16	30	7	8	5.5
U-16*24*6.5 UNP	16	24	6.5	7.5	4
U-16*24*4 UNP	16	24	4	4.5	4
U-16*32*10 UNP	16	32	10	11	6
U-16*22*7 UNP	16	22	7	8	3
U-16*26*10 UNP	16	26	10	11	4.5
U-16*24*9 UNP	16	24	9	10	4
U-16*25*5 UNP	16	25	5	6	4
U-16*24*6 UNP	16	24	6	7	4
U-16*22*10 UNP	16	22	10	11	3
U-16*28*6 UNP	16	28	6	7	5
U-16*26*6 UNP	16	26	6	7	4.5
U-16*22*3 UNP	16	22	3	3.5	3
U-16*29*6 UNP	16	29	6	7	5

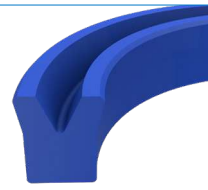


NO.	Ød	ØD	b	B	C
U-16*26*5 UNP	16	26	5	6	4.5
U-17*32*10 UNP	17	32	10	11	5.5
U-17*25*4 UNP	17	25	4	4.5	4
U-17*28*7 UNP	17	28	7	8	5
U-18*28*8 UNP	18	28	8	9	4.5
U-18*30*6 UNP	18	30	6	7	5
U-18*26*5 UNP	18	26	5	6	4
U-18*24*4 UNP	18	24	4	4.5	3
U-18*25*5.5 UNP	18	25	5.5	6.5	3.5
U-18*25*6 UNP	18	25	6	7	3.5
U-18*28*6 UNP	18	28	6	7	4.5
U-18*24*8 UNP	18	24	8	9	3
U-18*26*4 UNP	18	26	4	4.5	4
U-18*30*7.5 UNP	18	30	7.5	8.5	5
U-18*30*8.5 UNP	18	30	8.5	9.5	5
U-18*30*10 UNP	18	30	10	11	5
U-18*32*7 UNP	18	32	7	8	5.5
U-18*25*5 UNP	18	25	5	6	3.5
U-19*25*6 UNP	19	25	6	7	3
U-19.05*23.91*4.81 UNP	19.05	23.91	4.81	5.81	2
U-19*26*6.7 UNP	19	26	6.7	7.7	3.5
U-19*25*5 UNP	19	25	5	6	3
U-19*26*6 UNP	19	26	6	7	3.5
U-20*30*8 UNP	20	30	8	9	4.5
U-20*28*5 UNP	20	28	5	6	4
U-20*30*10 UNP	20	30	10	11	4.5

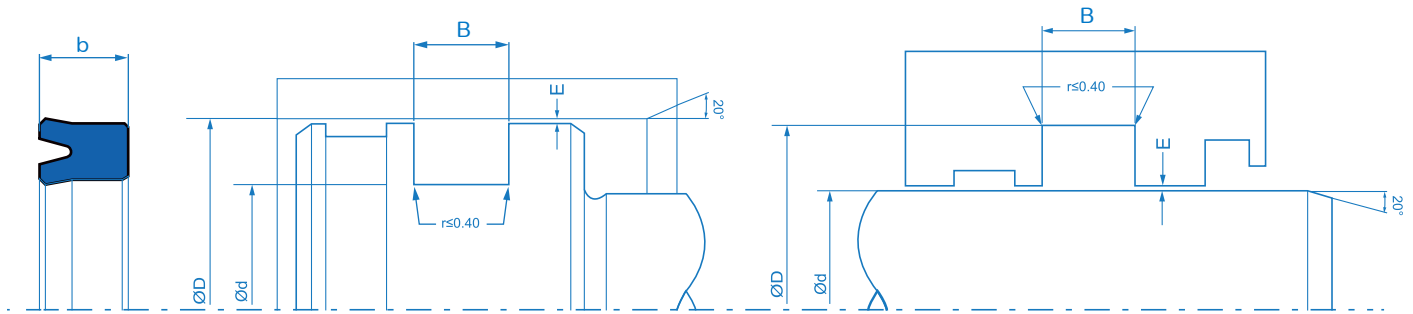
UNP



NO.	Ød	ØD	b	B	C
U-20*32*5 UNP	20	32	5	6	5
U-20*36*12 UNP	20	36	12	13	6
U-20*28*4 UNP	20	28	4	4.5	4
U-20*25*3 UNP	20	25	3	3.5	2.5
U-20*36*10 UNP	20	36	10	11	6
U-20*40*12 UNP	20	40	12	13	6
U-20*32*11 UNP	20	32	11	12	5
U-20*35*12 UNP	20	35	12	13	5.5
U-20*25*3.5 UNP	20	25	3.5	4	2.5
U-20*35*10 UNP	20	35	10	11	5.5
U-20*40*10 UNP	20	40	10	11	6
U-20*40*9 UNP	20	40	9	10	6
U-20*36*8 UNP	20	36	8	9	6
U-20*24*3 UNP	20	24	3	3.5	2
U-20*28*8 UNP	20	28	8	9	4
U-20*32*8 UNP	20	32	8	9	5
U-20*26*6 UNP	20	26	6	7	3
U-20*26*5 UNP	20	26	5	6	3
U-20*35*7 UNP	20	35	7	8	5.5
U-20*30*4 UNP	20	30	4	4.5	4.5
U-20*42*12 UNP	20	42	12	13	6
U-20*28*5.5 UNP	20	28	5.5	6.5	4
U-20*25*5 UNP	20	25	5	6	2.5
U-20*26*4 UNP	20	26	4	4.5	3
U-20*28*10 UNP	20	28	10	11	4
U-20*27*4 UNP	20	27	4	4.5	3.5

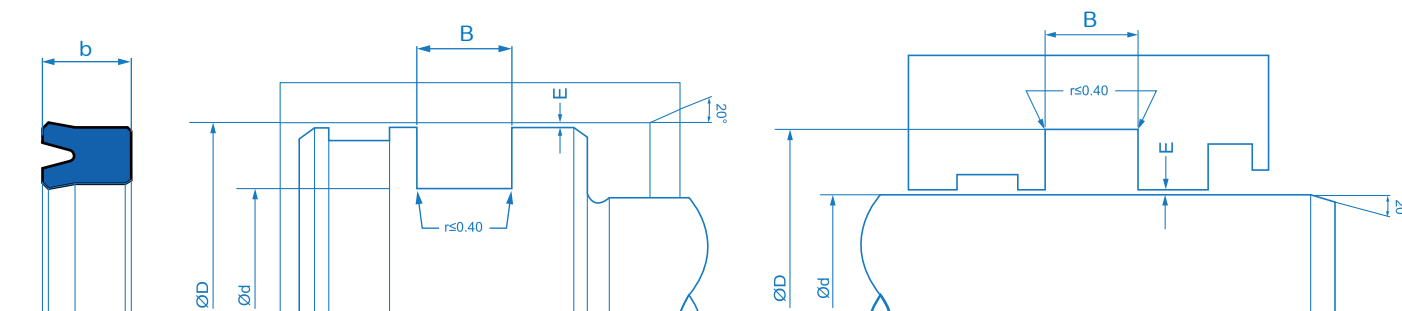
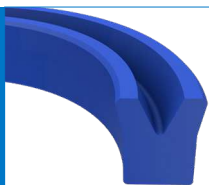


UNP

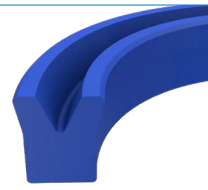


NO.	Ød	ØD	b	B	C
U-20*33*10 UNP	20	33	10	11	5
U-20*27*6 UNP	20	27	6	7	3.5
U-20*32*7.5 UNP	20	32	7.5	8.5	5
U-20*30*6 UNP	20	30	6	7	4.5
U-20*32*6 UNP	20	32	6	7	5
U-20*28*6 UNP	20	28	6	7	4
U-20*30*5 UNP	20	30	5	6	4.5
U-22*32*8 UNP	22	32	8	9	4.5
U-22*32*7 UNP	22	32	7	8	4.5
U-22*42*10 UNP	22	42	10	11	6
U-22*34*10 UNP	22	34	10	11	5
U-22*32*6 UNP	22	32	6	7	4.5
U-22*40*10 UNP	22	40	10	11	6
U-22.4*32.4*8 UNP	22.4	32.4	8	9	4.5
U-22*30*8 UNP	22	30	8	9	4
U-22.4*30*5 UNP	22.4	30	5	6	3.5
U-22*33*5.5 UNP	22	33	5.5	6.5	5
U-22*38*6 UNP	22	38	6	7	6
U-22*30*5 UNP	22	30	5	6	4
U-22*38*10 UNP	22	38	10	11	6
U-22*32*10 UNP	22	32	10	11	4.5
U-22*32*5 UNP	22	32	5	6	4.5
U-22*30*10 UNP	22	30	10	11	4
U-22*46*12 UNP	22	46	12	13	7
U-22*34*6 UNP	22	34	6	7	5
U-22*30*6 UNP	22	30	6	7	4

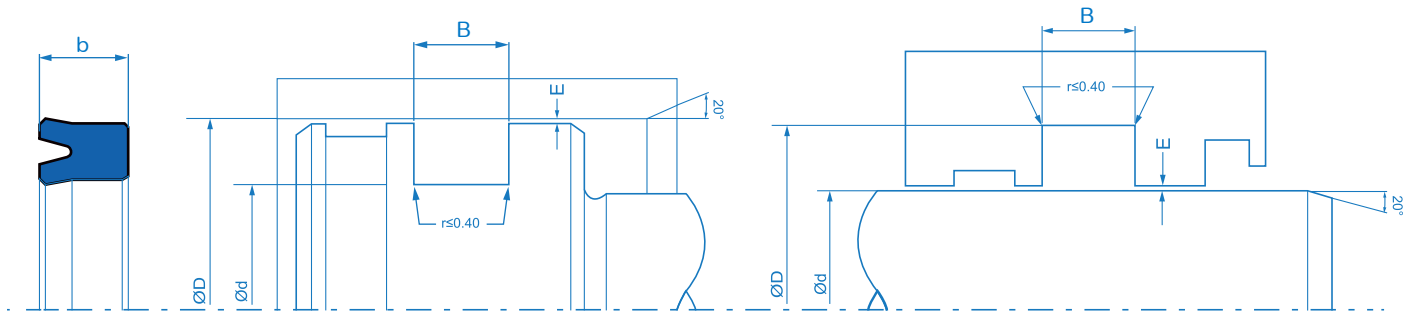
UNP



NO.	Ød	ØD	b	B	C
U-23*35*7 UNP	23	35	7	8	5
U-23.5*31.5*5 UNP	23.5	31.5	5	6	4
U-24*34*5 UNP	24	34	5	6	4.5
U-24*32*4 UNP	24	32	4	4.5	4
U-24*40*8 UNP	24	40	8	9	6
U-24*32*8 UNP	24	32	8	9	4
U-24*32*5 UNP	24	32	5	6	4
U-24*34*4 UNP	24	34	4	4.5	4.5
U-24.5*32*5 UNP	24.5	32	5	6	3.5
U-25*40*10 UNP	25	40	10	11	5.5
U-25*33*4 UNP	25	33	4	4.5	4
U-25*35*10 UNP	25	35	10	11	4.5
U-25*36*6.9 UNP	25	36	6.9	7.9	5
U-25*35*5 UNP	25	35	5	6	4.5
U-25*35*7 UNP	25	35	7	8	4.5
U-25*35*8 UNP	25	35	8	9	4.5
U-25*37*7 UNP	25	37	7	8	5
U-25*38*9 UNP	25	38	9	10	5
U-25*45*10 UNP	25	45	10	11	6
U-25*32*7 UNP	25	32	7	8	3.5
U-25*33*6.5 UNP	25	33	6.5	7.5	4
U-25*38*7 UNP	25	38	7	8	5
U-25*33*6 UNP	25	33	6	7	4
U-25*33*5.5 UNP	25	33	5.5	6.5	4
U-25*40*7.5 UNP	25	40	7.5	8.5	5.5
U-25.4*31.75*6.35 UNP	25.4	31.75	6.35	7.35	3

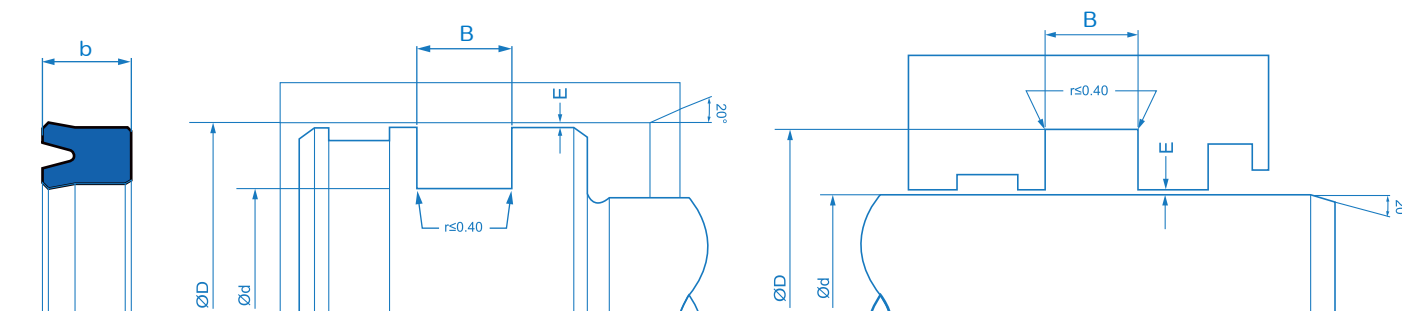
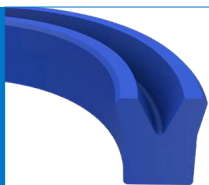


UNP

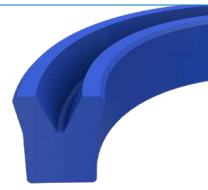


NO.	Ød	ØD	b	B	C
U-25*38*6 UNP	25	38	6	7	5
U-25*32*5 UNP	25	32	5	6	3.5
U-25*31*3 UNP	25	31	3	3.5	3
U-25*38*10 UNP	25	38	10	11	5
U-25*50*12 UNP	25	50	12	13	7
U-25*32*4 UNP	25	32	4	4.5	3.5
U-25*33*7 UNP	25	33	7	8	4
U-25*40*11 UNP	25	40	11	12	5.5
U-25*35*6 UNP	25	35	6	7	4.5
U-25*33*5 UNP	25	33	5	6	4
U-26*42*8 UNP	26	42	8	9	6
U-27*35*4 UNP	27	35	4	4.5	4
U-27*38*6 UNP	27	38	6	7	5
U-27*36*6 UNP	27	36	6	7	4
U-28*32.8*3 UNP	28	32.8	3	3.5	2
U-28*43*10 UNP	28	43	10	11	5.5
U-28*36*6 UNP	28	36	6	7	4
U-28*36*5 UNP	28	36	5	6	4
U-28*38*10 UNP	28	38	10	11	4.5
U-28*44*8 UNP	28	44	8	9	6
U-28*40*8 UNP	28	40	8	9	5
U-28*36*8 UNP	28	36	8	9	4
U-28*33*6 UNP	28	33	6	7	2.5
U-28*38*8 UNP	28	38	8	9	4.5
U-28*35.5*5 UNP	28	35.5	5	6	3.5
U-28*35*5 UNP	28	35	5	6	3.5

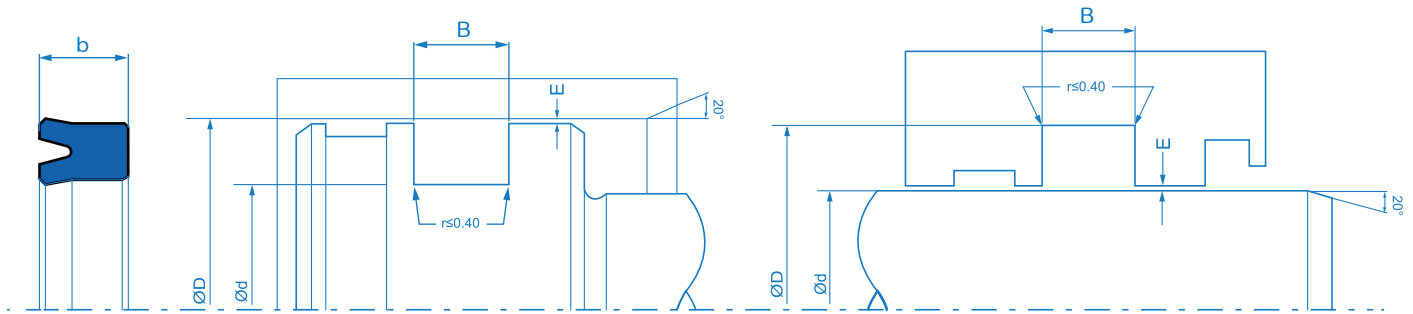
UNP



NO.	Ød	ØD	b	B	C
U-28*40*10 UNP	28	40	10	11	5
U-28*38*7 UNP	28	38	7	8	4.5
U-28*33*3 UNP	28	33	3	3.5	2.5
U-28*36*10 UNP	28	36	10	11	5
U-28*38*5 UNP	28	38	5	6	4.5
U-28*48*8.5 UNP	28	48	8.5	9.5	6
U-28*36*4 UNP	28	36	4	4.5	4
U-28*40*6 UNP	28	40	6	7	5
U-28*48*10 UNP	28	48	10	11	6
U-28*48*12 UNP	28	48	12	13	6
U-28*35*6 UNP	28	35	6	7	3.5
U-30*45*10 UNP	30	45	10	11	5.5
U-30*40*10 UNP	30	40	10	11	4.5
U-30*38*5.5 UNP	30	38	5.5	6.5	4
U-30*40*6 UNP	30	40	6	7	4.5
U-30*37*6 UNP	30	37	6	7	3.5
U-30*38*6 UNP	30	38	6	7	4
U-30*36*3 UNP	30	36	3	3.5	3
U-30*45*9 UNP	30	45	9	10	5.5
U-30*50*8 UNP	30	50	8	9	6
U-30*40*5 UNP	30	40	5	6	4.5
U-30*43*10 UNP	30	43	10	11	5
U-30*38*5 UNP	30	38	5	6	4
U-30*37*8 UNP	30	37	8	9	3.5
U-30*40*6.5 UNP	30	40	6.5	7.5	4.5
U-30*38*10 UNP	30	38	10	11	4

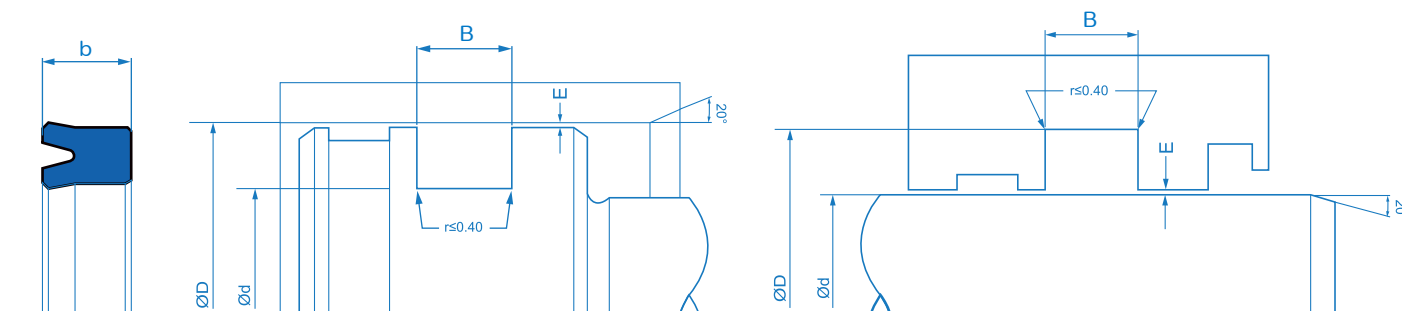
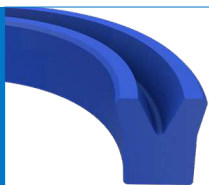


UNP

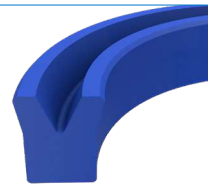


NO.	Ød	ØD	b	B	C
U-30*40*8 UNP	30	40	8	9	4.5
U-30*42*10 UNP	30	42	10	11	5
U-30*50*10 UNP	30	50	10	11	6
U-30*50*12 UNP	30	50	12	13	6
U-30*40*7 UNP	30	40	7	8	4.5
U-30*38*4 UNP	30	38	4	4.5	4
U-31.5*41.5*6 UNP	31.5	41.5	6	7	4.5
U-31.5*46.5*10.2 UNP	31.5	46.5	10.2	11.2	5.5
U-32*47*10 UNP	32	47	10	11	5.5
U-32*40*8 UNP	32	40	8	9	4
U-32*40*5 UNP	32	40	5	6	4
U-32*44*6.35 UNP	32	44	6.35	7.35	5
U-32*40*5.7 UNP	32	40	5.7	6.7	4
U-32*42*8 UNP	32	42	8	9	4.5
U-32*42*7 UNP	32	42	7	8	4.5
U-32*40*10 UNP	32	40	10	11	4
U-32*50*10 UNP	32	50	10	11	6
U-32*42*10 UNP	32	42	10	11	4.5
U-32*44*11.5 UNP	32	44	11.5	12.5	5
U-32*38*6 UNP	32	38	6	7	3
U-32*52*10 UNP	32	52	10	11	6
U-32*44*6 UNP	32	44	6	7	5
U-32*45*8 UNP	32	45	8	9	5
U-32*48*10 UNP	32	48	10	11	6
U-32*42*6 UNP	32	42	6	7	4.5
U-32*45*10 UNP	32	45	10	11	5

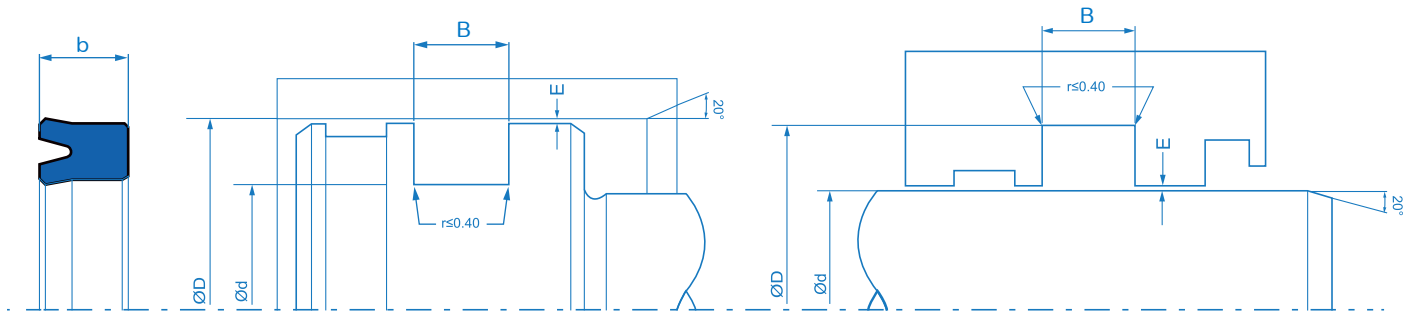
UNP



NO.	Ød	ØD	b	B	C
U-32*50*12 UNP	32	50	12	13	6
U-32*40*4 UNP	32	40	4	4.5	4
U-33*43*6 UNP	33	43	6	7	4.5
U-33*43*10 UNP	33	43	10	11	4.5
U-33*40*4 UNP	33	40	4	4.5	3.5
U-33*45*10 UNP	33	45	10	11	5
U-34*44*5 UNP	34	44	5	6	4.5
U-34*44*9 UNP	34	44	9	10	4.5
U-34*42*10 UNP	34	42	10	11	5
U-35*50*10 UNP	35	50	10	11	5.5
U-35*43*6 UNP	35	43	6	7	4
U-35*45*8 UNP	35	45	8	9	4.5
U-35*45*7 UNP	35	45	7	8	4.5
U-35.5*45*6 UNP	35.5	45	6	7	4
U-35*46*8 UNP	35	46	8	9	5
U-35*48*8 UNP	35	48	8	9	5
U-35*48*10 UNP	35	48	10	11	5
U-35*42*4 UNP	35	42	4	4.5	3.5
U-35*43*7 UNP	35	43	7	8	4
U-35*45*6 UNP	35	45	6	7	4.5
U-35*47*6 UNP	35	47	6	7	5
U-35*50*7.5 UNP	35	50	7.5	8.5	5.5
U-35*45*10 UNP	35	45	10	11	4.5
U-35*55*10 UNP	35	55	10	11	6
U-35*55*12 UNP	35	55	12	13	6
U-35*52*12 UNP	35	52	12	13	6

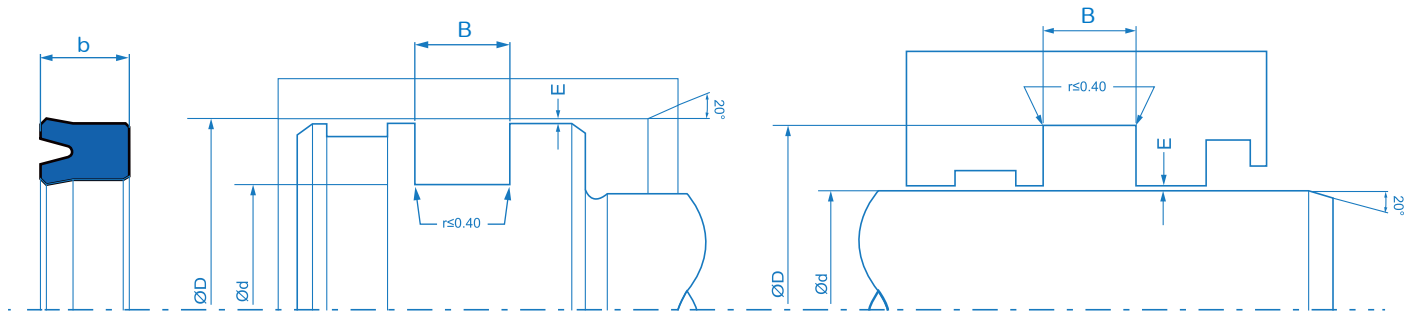
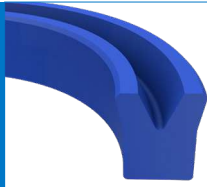


UNP

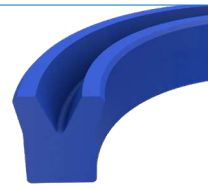


NO.	Ød	ØD	b	B	C
U-35*50*8 UNP	35	50	8	9	5.5
U-36*51*10 UNP	36	51	10	11	5.5
U-36*51*7.1 UNP	36	51	7.1	8.1	5.5
U-36*48*10 UNP	36	48	10	11	5
U-36*44*5.7 UNP	36	44	5.7	6.7	4
U-36*44*8 UNP	36	44	8	9	4
U-36*50*8 UNP	36	50	8	9	5.5
U-36*46*7 UNP	36	46	7	8	4.5
U-36*48*6 UNP	36	48	6	7	5
U-36*46*6 UNP	36	46	6	7	4.5
U-36*44*4 UNP	36	44	4	4.5	4
U-36*46*5 UNP	36	46	5	6	4.5
U-36*43*6 UNP	36	43	6	7	3.5
U-36*46*8 UNP	36	46	8	9	4.5
U-38*52.5*9.5 UNP	38	52.5	9.5	10.5	5.5
U-38*55*10 UNP	38	55	10	11	6
U-38*45*5 UNP	38	45	5	6	5.5
U-38*45*6 UNP	38	45	6	7	3.5
U-38*48*7.5 UNP	38	48	7.5	8.5	4.5
U-38*48*8 UNP	38	48	8	9	4.5
U-38*45*9 UNP	38	45	9	10	3.5
U-38*58*10 UNP	38	58	10	11	6
U-38*50*6 UNP	38	50	6	7	5
U-38*50*10 UNP	38	50	10	11	5
U-38.1*50.8*6.35 UNP	38.1	50.8	6.35	7.35	5
U-38.1*50.8*7.14 UNP	38.1	50.8	7.14	8.14	5

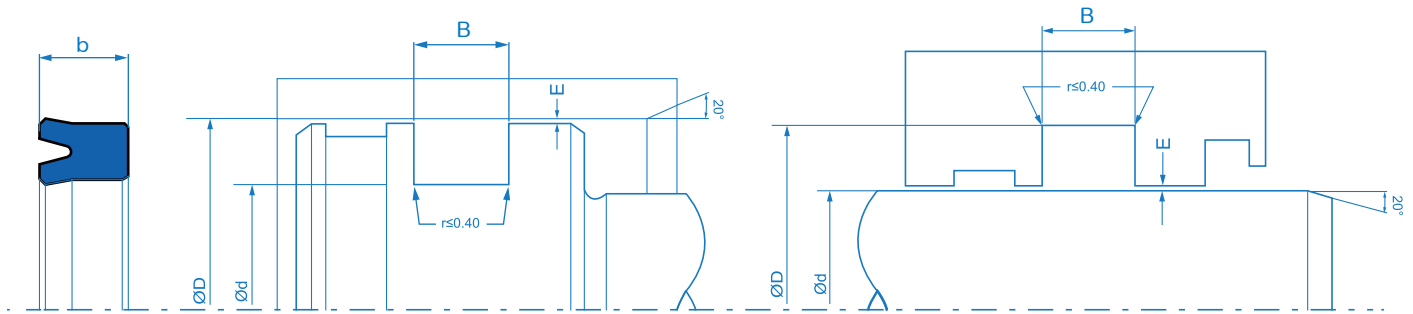
UNP



NO.	Ød	ØD	b	B	C
U-38*50*9 UNP	38	50	9	10	5
U-38*48*6 UNP	38	48	6	7	4.5
U-38.1*47.62*6.35 UNP	38.1	47.62	6.35	7.35	4
U-39*58*10 UNP	39	58	10	11	6
U-40*55*10 UNP	40	55	10	11	5.5
U-40*50*6 UNP	40	50	6	7	4.5
U-40*52*12 UNP	40	52	12	13	5
U-40*60*10 UNP	40	60	10	11	6
U-40*60*12 UNP	40	60	12	13	6
U-40*50*9 UNP	40	50	9	10	4.5
U-40*50*7 UNP	40	50	7	8	4.5
U-40*56*10 UNP	40	56	10	11	6
U-40*56*6 UNP	40	56	6	7	6
U-40*48*8 UNP	40	48	8	9	4
U-40*59*10 UNP	40	59	10	11	6
U-40*55*10.5 UNP	40	55	10.5	11.5	5.5
U-40*50*5 UNP	40	50	5	6	4.5
U-40*55*8 UNP	40	55	8	9	5.5
U-40*50*11 UNP	40	50	11	12	4.5
U-40*65*12 UNP	40	65	12	13	7
U-40*48*10 UNP	40	48	10	11	4
U-40*55*12 UNP	40	55	12	13	5.5
U-40*52*10 UNP	40	52	10	11	5
U-40*52*8 UNP	40	52	8	9	5
U-40*50*6.5 UNP	40	50	6.5	7.5	4.5
U-40*62*12 UNP	40	62	12	13	6

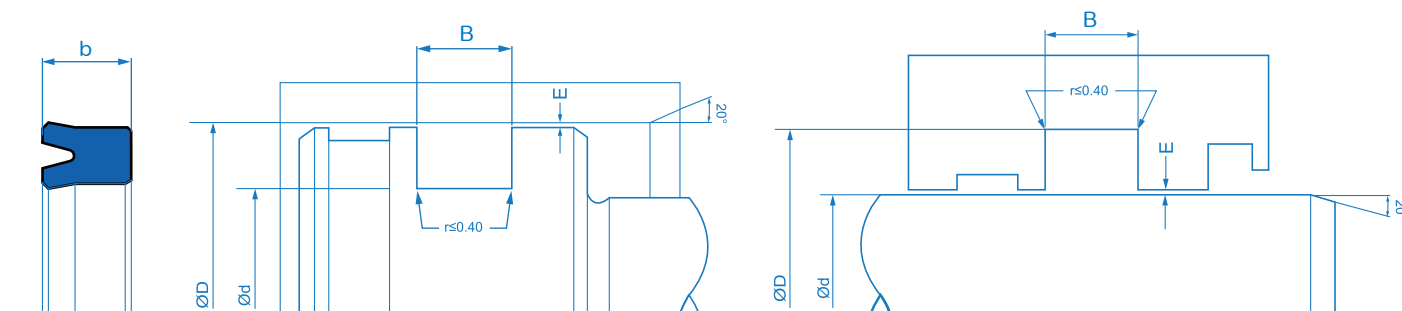
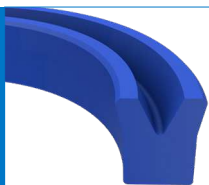


UNP

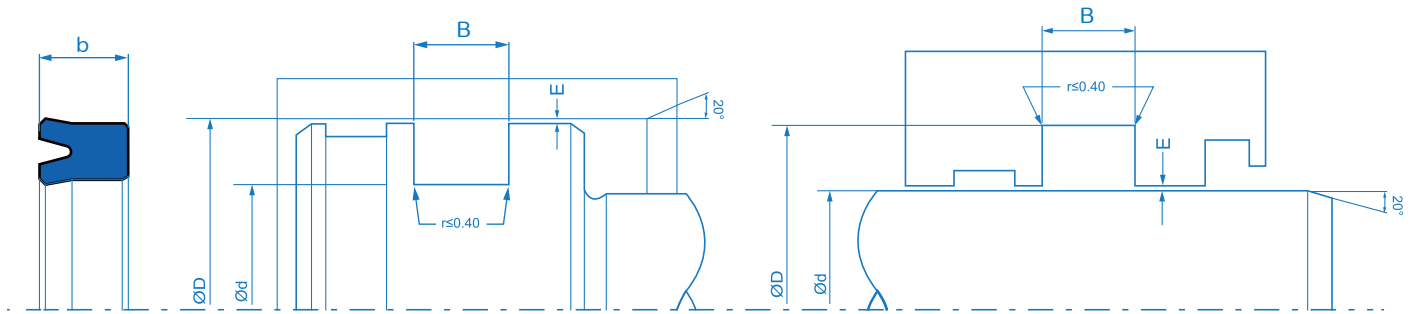


NO.	Ød	ØD	b	B	C
U-40*50*8 UNP	40	50	8	9	4.5
U-40*65*10 UNP	40	65	10	11	7
U-40*56*8 UNP	40	56	8	9	6
U-40*48*11 UNP	40	48	11	12	4
U-40*55*7 UNP	40	55	7	8	5.5
U-40*52*6 UNP	40	52	6	7	5
U-40*50*10 UNP	40	50	10	11	4.5
U-42*50*5 UNP	42	50	5	6	4
U-42*62*12 UNP	42	62	12	13	6
U-42*55*8 UNP	42	55	8	9	5
U-42*57*8 UNP	42	57	8	9	5.5
U-42*50*8 UNP	42	50	8	9	4
U-42*51*11 UNP	42	51	11	12	4
U-42*52*10 UNP	42	52	10	11	4.5
U-42*50*6 UNP	42	50	6	7	4
U-42*52*7 UNP	42	52	7	8	4.5
U-42*53*10 UNP	42	53	10	11	5
U-42*63*10 UNP	42	63	10	11	6
U-43*63*10 UNP	43	63	10	11	6
U-44*57*9 UNP	44	57	9	10	5
U-45*60*10 UNP	45	60	10	11	5.5
U-45*53*7 UNP	45	53	7	8	4
U-45*55*6 UNP	45	55	6	7	4.5
U-45*53*8 UNP	45	53	8	9	4
U-45*62*6 UNP	45	62	6	7	6
U-45*55*8 UNP	45	55	8	9	4.5

UNP

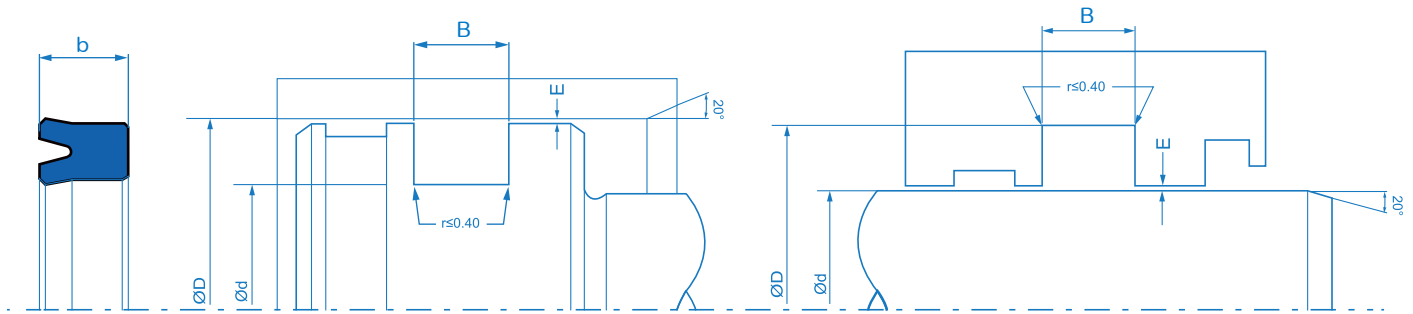
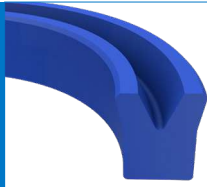


NO.	Ød	ØD	b	B	C
U-45*55*7 UNP	45	55	7	8	4.5
U-45*56*7 UNP	45	56	7	8	5
U-45*53*10 UNP	45	53	10	11	4
U-45*56*8 UNP	45	56	8	9	5
U-45*55*10 UNP	45	55	10	11	4.5
U-45*55*6.5 UNP	45	55	6.5	7.5	4.5
U-45*63*10 UNP	45	63	10	11	6
U-45*58*10 UNP	45	58	10	11	5
U-45*57*6 UNP	45	57	6	7	5
U-45*63*12 UNP	45	63	12	13	6
U-45*65*10 UNP	45	65	10	11	6
U-45*65*12 UNP	45	65	12	13	6
U-45*70*12 UNP	45	70	12	13	7
U-46*70*12 UNP	46	70	12	13	7
U-46*56*7 UNP	46	56	7	8	4.5
U-47*65*12 UNP	47	65	12	13	6
U-47.62*63.5*11.5 UNP	47.62	63.5	11.5	12.5	6
U-47.62*57.15*6.35 UNP	47.62	57.15	6.35	7.35	4
U-48*63*12 UNP	48	63	12	13	5.5
U-48*60*9 UNP	48	60	9	10	5
U-48*68*12 UNP	48	68	12	13	6
U-48*58*6.5 UNP	48	58	6.5	7.5	4.5
U-48*68*10 UNP	48	68	10	11	6
U-48*60*6 UNP	48	60	6	7	5
U-48*63*10 UNP	48	63	10	11	5.5
U-48*58*10 UNP	48	58	10	11	4.5

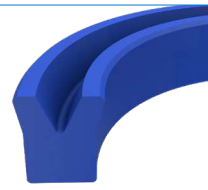


NO.	Ød	ØD	b	B	C
U-48*60*10 UNP	48	60	10	11	5
U-50*65*10 UNP	50	65	10	11	5.5
U-50*60*10 UNP	50	60	10	11	4.5
U-50*62*9 UNP	50	62	9	10	5
U-50*60*5 UNP	50	60	5	6	4.5
U-50*63*8 UNP	50	63	8	9	5
U-50*63*9 UNP	50	63	9	10	5
U-50*65*12 UNP	50	65	12	13	5.5
U-50*68*12 UNP	50	68	12	13	6
U-50*70*8 UNP	50	70	8	9	6
U-50*70*10 UNP	50	70	10	11	6
U-50*70*12 UNP	50	70	12	13	6
U-50.8*63.5*9.52 UNP	50.8	63.5	9.52	10.52	5
U-50*60*8 UNP	50	60	8	9	4.5
U-50.8*60.3*4.76 UNP	50.8	60.3	4.76	5.76	4
U-50*65*9 UNP	50	65	9	10	5.5
U-50*63*10 UNP	50	63	10	11	5
U-50*63*7 UNP	50	63	7	8	5
U-50*68*8 UNP	50	68	8	9	6
U-50*60*6.5 UNP	50	60	6.5	7.5	4.5
U-50.8*63.5*6.35 UNP	50.8	63.5	6.35	7.35	5
U-50.8*66.67*7.92 UNP	50.8	66.67	7.92	8.92	6
U-50*58*8 UNP	50	58	8	9	4
U-50*60*6 UNP	50	60	6	7	4.5
U-50*60*12 UNP	50	60	12	13	4.5
U-50*60*7 UNP	50	60	7	8	4.5

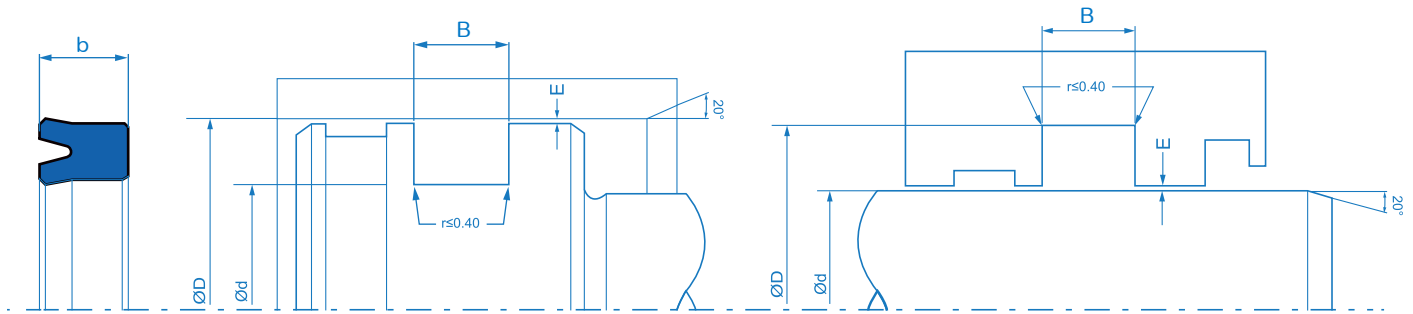
UNP



NO.	Ød	ØD	b	B	C
U-50*57*10 UNP	50	57	10	11	3.5
U-50*63*6 UNP	50	63	6	7	5
U-50*62*6 UNP	50	62	6	7	5
U-52*62*12 UNP	52	62	12	13	4.5
U-52*62*6 UNP	52	62	6	7	4.5
U-52*72*10 UNP	52	72	10	11	6
U-52*62*7 UNP	52	62	7	8	4.5
U-52*62*8 UNP	52	62	8	9	4.5
U-53*63*12 UNP	53	63	12	13	4.5
U-53*63*7.5 UNP	53	63	7.5	8.5	4.5
U-53*63*6.5 UNP	53	63	6.5	7.5	4.5
U-53*63*6 UNP	53	63	6	7	4.5
U-53*73*12 UNP	53	73	12	13	6
U-53*63*5 UNP	53	63	5	6	4.5
U-53*63*7 UNP	53	63	7	8	4.5
U-53*63*8 UNP	53	63	8	9	4.5
U-55*75*12 UNP	55	75	12	13	6
U-55*65*12 UNP	55	65	12	13	4.5
U-55*65*6 UNP	55	65	6	7	4.5
U-55*67*10 UNP	55	67	10	11	5
U-55*75*10 UNP	55	75	10	11	6
U-55*80*10 UNP	55	80	10	11	7
U-55*65*8 UNP	55	65	8	9	4.5
U-55*63*10 UNP	55	63	10	11	4
U-55*65*6.5 UNP	55	65	6.5	7.5	4.5
U-55*70*9 UNP	55	70	9	10	5.5

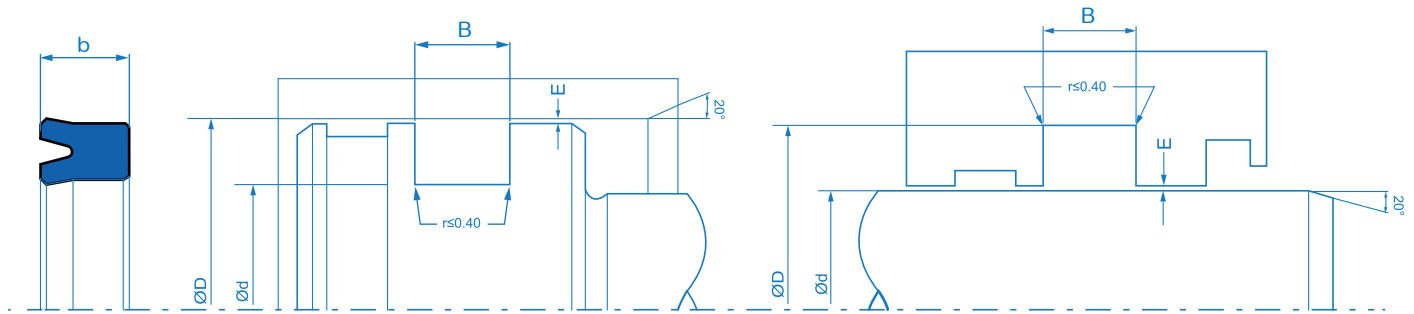
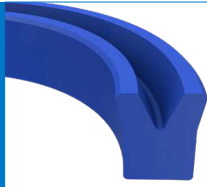


UNP

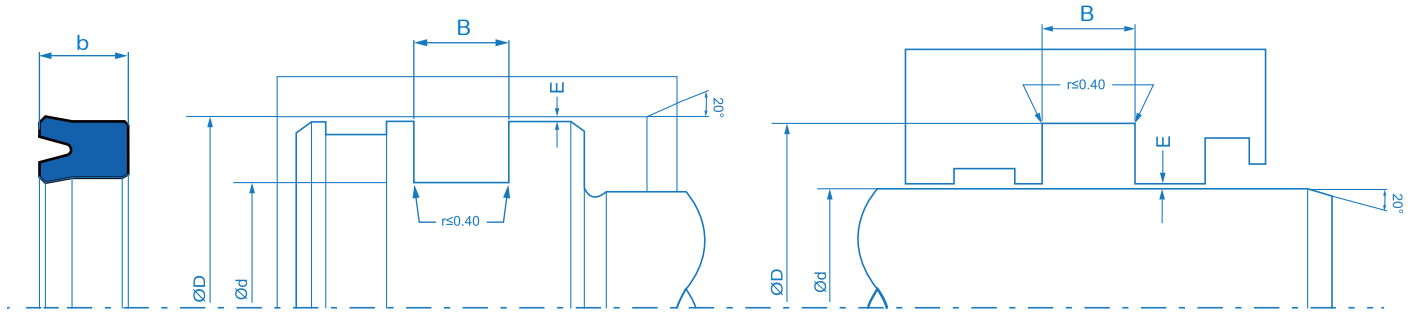


NO.	Ød	ØD	b	B	C
U-55*65*5 UNP	55	65	5	6	4.5
U-55*70*7.5 UNP	55	70	7.5	8.5	5.5
U-55*70*10 UNP	55	70	10	11	5.5
U-55*70*12 UNP	55	70	12	13	5.5
U-55*80*15 UNP	55	80	15	16	7
U-55*80*12 UNP	55	80	12	13	7
U-55*65*10 UNP	55	65	10	11	4.5
U-55*63*8 UNP	55	63	8	9	4
U-56*76*12 UNP	56	76	12	13	6
U-56*80*15 UNP	56	80	15	16	7
U-56*71*10 UNP	56	71	10	11	5.5
U-56*66*5 UNP	56	66	5	6	4.5
U-56*70*12 UNP	56	70	12	13	5.5
U-56*66*6 UNP	56	66	6	7	4.5
U-56*66*10 UNP	56	66	10	11	4.5
U-57.15*69.85*10 UNP	57.15	69.85	10	11	5
U-57.15*76.2*10 UNP	57.15	76.2	10	11	6
U-58*70*6 UNP	58	70	6	7	5
U-58*68*6 UNP	58	68	6	7	4.5
U-60*80*12 UNP	60	80	12	13	6
U-60*80*10 UNP	60	80	10	11	6
U-60*68*8 UNP	60	68	8	9	4
U-60*80*16 UNP	60	80	16	17	6
U-60*71*7 UNP	60	71	7	8	5
U-60.33*73.02*7.95 UNP	60.33	73.02	7.95	8.95	5
U-60*70*8 UNP	60	70	8	9	4.5

UNP

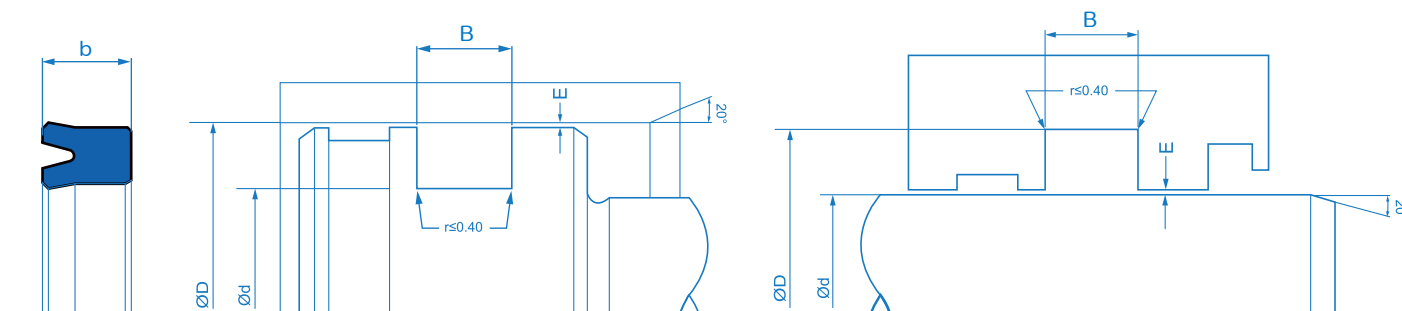
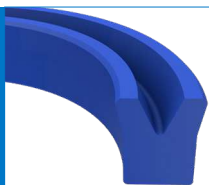


NO.	Ød	ØD	b	B	C
U-60*70*12 UNP	60	70	12	13	4.5
U-60*75*12 UNP	60	75	12	13	5.5
U-60*70*13 UNP	60	70	13	14	4.5
U-60*70*6 UNP	60	70	6	7	4.5
U-60*70*7 UNP	60	70	7	8	4.5
U-60*75*10 UNP	60	75	10	11	5.5
U-60*70*5 UNP	60	70	5	6	4.5
U-60*70*10 UNP	60	70	10	11	4.5
U-61*80*12 UNP	61	80	12	13	6
U-61*71*6 UNP	61	71	6	7	4.5
U-61*69*8 UNP	61	69	8	9	4
U-63*83*12 UNP	63	83	12	13	6
U-63*72*6 UNP	63	72	6	7	4
U-63*73*8 UNP	63	73	8	9	4.5
U-63*75*10 UNP	63	75	10	11	5
U-63.5*82.55*14.28 UNP	63.5	82.55	14.28	15.28	6
U-63.5*76.2*10.5 UNP	63.5	76.2	10.5	11.5	5
U-63.5*76.2*9.52 UNP	63.5	76.2	9.52	10.52	5
U-63*73*6 UNP	63	73	6	7	4.5
U-63*73*10 UNP	63	73	10	11	4.5
U-63*78*10 UNP	63	78	10	11	5.5
U-63.5*76.2*7.92 UNP	63.5	76.2	7.92	8.92	5
U-65*85*12 UNP	65	85	12	13	6
U-65*80*12 UNP	65	80	12	13	5.5
U-65*85*10 UNP	65	85	10	11	6
U-65*90*12 UNP	65	90	12	13	7

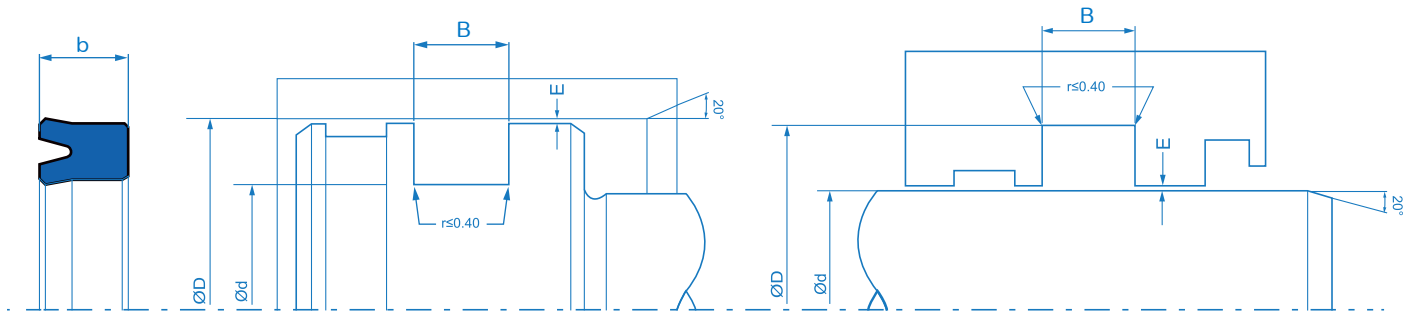


NO.	Ød	ØD	b	B	C
U-65*80*11 UNP	65	80	11	12	5.5
U-65*90*8 UNP	65	90	8	9	7
U-65*90*13 UNP	65	90	13	14	7
U-65*90*15 UNP	65	90	15	16	7
U-65*75*10 UNP	65	75	10	11	4.5
U-65*75*6 UNP	65	75	6	7	4.5
U-65*75*12 UNP	65	75	12	13	4.5
U-65*80*10 UNP	65	80	10	11	5.5
U-66*77*6 UNP	66	77	6	7	5
U-66*76*6 UNP	66	76	6	7	4.5
U-67*77*6 UNP	67	77	6	7	4.5
U-68*76*9 UNP	68	76	9	10	4
U-68*80*12 UNP	68	80	12	13	5
U-68*78*10 UNP	68	78	10	11	4.5
U-70*90*12 UNP	70	90	12	13	6
U-70*80*12 UNP	70	80	12	13	4.5
U-70*82*9.7 UNP	70	82	9.7	10.7	5
U-70*85*6 UNP	70	85	6	7	5.5
U-70*80*6 UNP	70	80	6	7	4.5
U-70*84*10 UNP	70	84	10	11	5.5
U-70*80*10 UNP	70	80	10	11	4.5
U-70*85*10 UNP	70	85	10	11	5.5
U-70*85*8 UNP	70	85	8	9	5.5
U-70*85*7.5 UNP	70	85	7.5	8.5	5.5
U-70*90*15 UNP	70	90	15	16	6
U-70*85*9 UNP	70	85	9	10	5.5

UNP

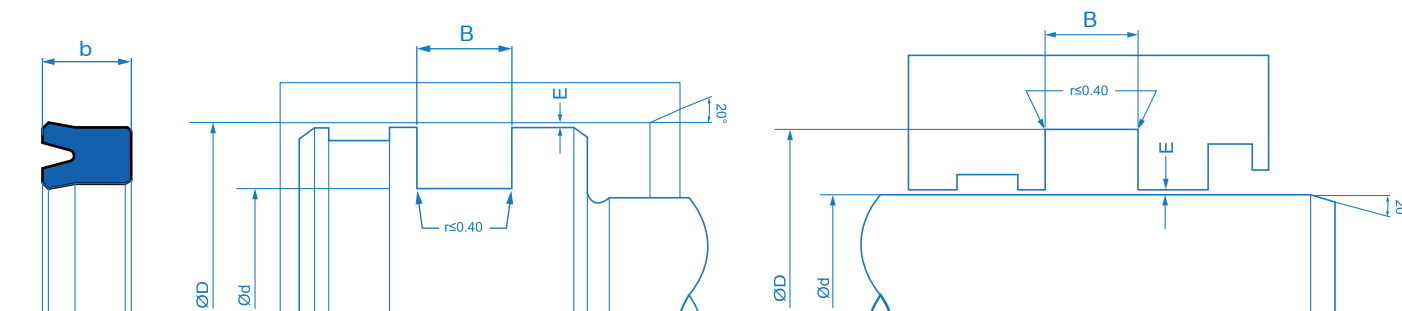
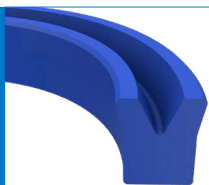


NO.	Ød	ØD	b	B	C
U-70*80*8 UNP	70	80	8	9	4.5
U-70*82*10 UNP	70	82	10	11	5
U-70*82*9 UNP	70	82	9	10	5
U-70*80*7.5 UNP	70	80	7.5	8.5	4.5
U-70*85*12 UNP	70	85	12	13	5.5
U-70*80*5.5 UNP	70	80	5.5	6.5	4.5
U-70*90*10 UNP	70	90	10	11	6
U-70*80*5 UNP	70	80	5	6	4.5
U-70*80*7 UNP	70	80	7	8	4.5
U-70*78*9 UNP	70	78	9	10	4
U-70*80*6.7 UNP	70	80	6.7	7.7	4.5
U-71*80*6 UNP	71	80	6	7	4
U-72*90*10 UNP	72	90	10	11	6
U-75*95*12 UNP	75	95	12	13	6
U-75*85*12 UNP	75	85	12	13	4.5
U-75*90*12 UNP	75	90	12	13	5.5
U-75*90*10 UNP	75	90	10	11	5.5
U-75*85*7 UNP	75	85	7	8	4.5
U-75*85*6 UNP	75	85	6	7	4.5
U-75*90*9 UNP	75	90	9	10	5.5
U-75*95*10 UNP	75	95	10	11	6
U-75*85*10 UNP	75	85	10	11	4.5
U-76.2*95.25*10 UNP	76.2	95.25	10	11	6
U-76.2*88.9*9.52 UNP	76.2	88.9	9.52	10.52	5
U-76*84*8 UNP	76	84	8	9	4
U-76.2*95.25*12.7 UNP	76.2	95.25	12.7	13.7	6

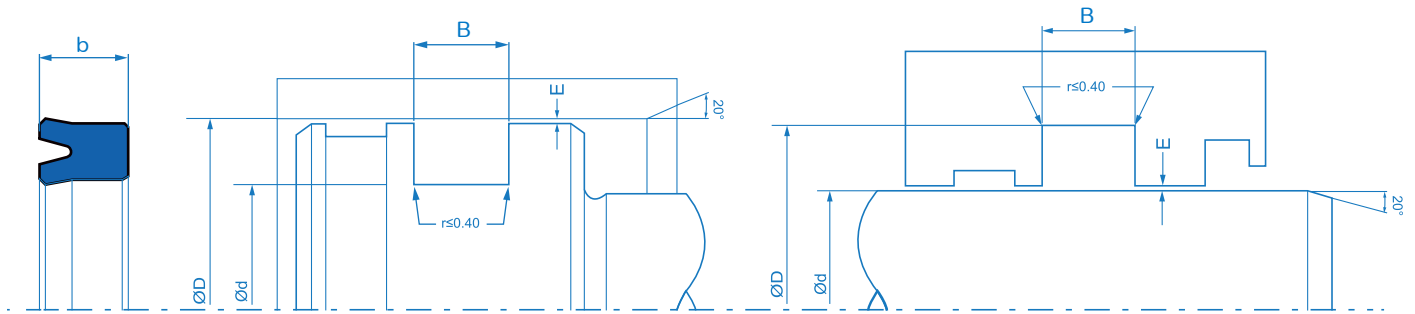


NO.	Ød	ØD	b	B	C
U-76.2*92.07*7.92 UNP	76.2	92.07	7.92	8.92	6
U-80*100*12 UNP	80	100	12	13	6
U-80*90*5.4 UNP	80	90	5.4	6.4	4.5
U-80*90*5 UNP	80	90	5	6	4.5
U-80*90*11 UNP	80	90	11	12	4.5
U-80*95*10 UNP	80	95	10	11	5.5
U-80*90*7 UNP	80	90	7	8	4.5
U-80*100*15 UNP	80	100	15	16	6
U-80*105*15 UNP	80	105	15	16	7
U-80*90*9 UNP	80	90	9	10	4.5
U-80*92*10 UNP	80	92	10	11	5
U-80*90*10 UNP	80	90	10	11	4.5
U-80*95*8 UNP	80	95	8	9	5.5
U-80*95*9 UNP	80	95	9	10	5.5
U-80*95*12 UNP	80	95	12	13	5.5
U-80*90*6 UNP	80	90	6	7	4.5
U-80*90*12 UNP	80	90	12	13	4.5
U-80*100*10 UNP	80	100	10	11	6
U-80*105*10 UNP	80	105	10	11	7
U-82*92*10 UNP	82	92	10	11	4.5
U-82*102*10 UNP	82	102	10	11	6
U-82.55*101.6*14.8 UNP	82.55	101.6	14.8	15.8	6
U-82*95*10 UNP	82	95	10	11	5
U-85*105*12 UNP	85	105	12	13	6
U-85*102*9 UNP	85	102	9	10	6
U-85*95*6 UNP	85	95	6	7	4.5

UNP

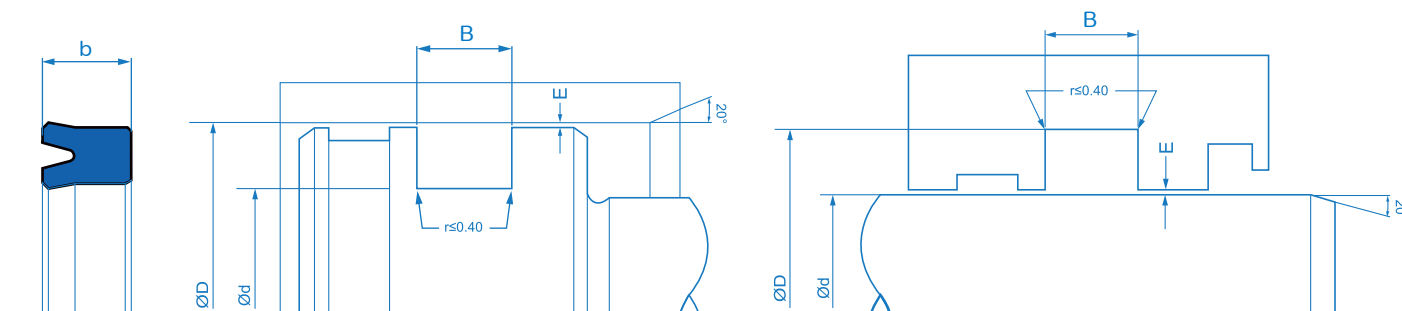
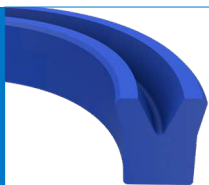


NO.	Ød	ØD	b	B	C
U-85*105*10 UNP	85	105	10	11	6
U-85*95*8.5 UNP	85	95	8.5	9.5	4.5
U-85*95*9 UNP	85	95	9	10	4.5
U-85*110*12 UNP	85	110	12	13	7
U-85*100*9 UNP	85	100	9	10	5.5
U-85*100*25 UNP	85	100	25	26	5.5
U-85*100*12 UNP	85	100	12	13	5.5
U-85*95*10 UNP	85	95	10	11	4.5
U-85*100*10 UNP	85	100	10	11	5.5
U-85*105*15 UNP	85	105	15	16	6
U-86*96*6 UNP	86	96	6	7	4.5
U-88.8*100.5*9.5 UNP	88.8	100.5	9.5	10.5	5.5
U-88.8*103.35*12 UNP	88.8	103.35	12	13	5.5
U-88.9*107.95*12.7 UNP	88.9	107.95	12.7	13.7	6
U-88*98*6 UNP	88	98	6	7	4.5
U-90*110*12 UNP	90	110	12	13	6
U-90*100*6.8 UNP	90	100	6.8	7.8	4.5
U-90*100*10 UNP	90	100	10	11	4.5
U-90*105*10 UNP	90	105	10	11	5.5
U-90*100*12 UNP	90	100	12	13	4.5
U-90*100*5 UNP	90	100	5	6	4.5
U-90*120*15 UNP	90	120	15	16	7
U-90*105*9 UNP	90	105	9	10	5.5
U-90*100*8 UNP	90	100	8	9	4.5
U-90*110*10 UNP	90	110	10	11	6
U-90*110*15 UNP	90	110	15	16	6

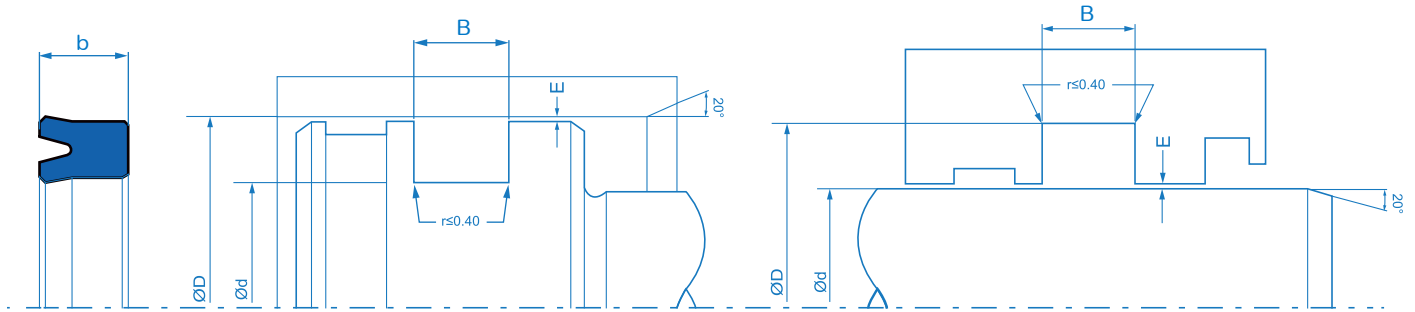


NO.	Ød	ØD	b	B	C
U-90*115*12 UNP	90	115	12	13	7
U-90*105*12 UNP	90	105	12	13	5.5
U-90*100*6 UNP	90	100	6	7	4.5
U-95*110*10 UNP	95	110	10	11	5.5
U-95*115*12 UNP	95	115	12	13	6
U-95*115*15 UNP	95	115	15	16	6
U-95*120*12 UNP	95	120	12	13	7
U-95*110*9 UNP	95	110	9	10	5.5
U-95*110*12 UNP	95	110	12	13	5.5
U-95*125*15 UNP	95	125	15	16	7
U-96*105*11 UNP	96	105	11	12	4
U-98*112*9 UNP	98	112	9	10	5.5
U-100*125*15 UNP	100	125	15	16	7
U-100*120*12 UNP	100	120	12	13	6
U-100*115*10 UNP	100	115	10	11	5.5
U-100*115*13 UNP	100	115	13	14	5.5
U-100*120*10 UNP	100	120	10	11	6
U-100*125*12 UNP	100	125	12	13	7
U-100*120*15 UNP	100	120	15	16	6
U-100*130*18 UNP	100	130	18	19	7
U-100*113*12.5 UNP	100	113	12.5	13.5	5
U-100*110*5 UNP	100	110	5	6	4.5
U-100*130*15 UNP	100	130	15	16	7
U-100*110*8 UNP	100	110	8	9	4.5
U-100*115*12 UNP	100	115	12	13	5.5
U-100*115*9 UNP	100	115	9	10	5.5

UNP

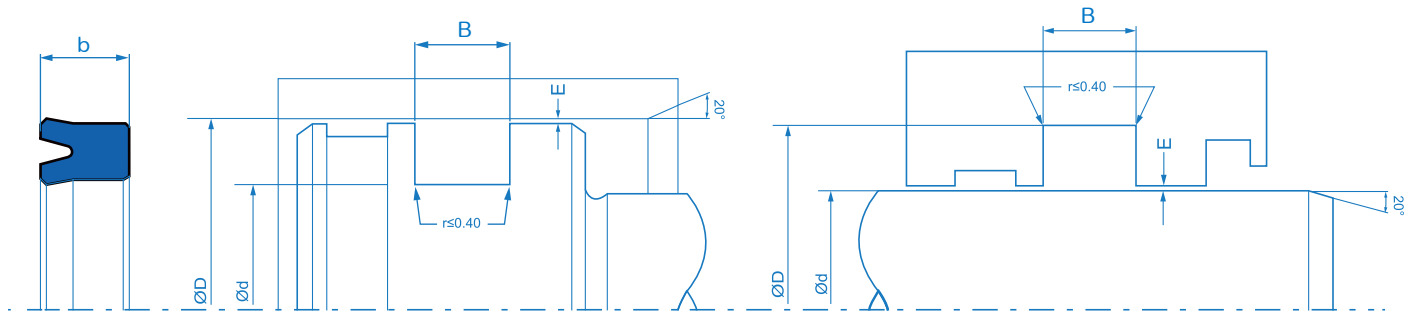
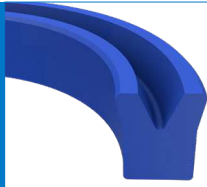


NO.	Ød	ØD	b	B	C
U-101.5*114.3*9.5 UNP	101.5	114.3	9.5	10.5	5
U-101.6*127*19.5 UNP	101.6	127	19.5	20.5	7
U-105*130*15 UNP	105	130	15	16	7
U-105*120*8 UNP	105	120	8	9	5.5
U-105*120*11 UNP	105	120	11	12	5.5
U-105*130*18 UNP	105	130	18	19	7
U-105*120*12 UNP	105	120	12	13	5.5
U-105*120*15 UNP	105	120	15	16	5.5
U-105*125*12 UNP	105	125	12	13	6
U-105*125*15 UNP	105	125	15	16	6
U-105*115*12 UNP	105	115	12	13	4.5
U-105*120*9 UNP	105	120	9	10	5.5
U-105*125*10 UNP	105	125	10	11	6
U-106*120*8.5 UNP	106	120	8.5	9.5	5.5
U-106*120*9 UNP	106	120	9	10	5.5
U-107*130*15 UNP	107	130	15	16	7
U-110*135*18 UNP	110	135	18	19	7
U-110*120*8 UNP	110	120	8	9	4.5
U-110*135*12 UNP	110	135	12	13	7
U-110*140*18 UNP	110	140	18	19	7
U-110*125*12 UNP	110	125	12	13	5.5
U-110*130*10 UNP	110	130	10	11	6
U-110*130*15 UNP	110	130	15	16	6
U-110*130*12 UNP	110	130	12	13	6
U-110*130*11.5 UNP	110	130	11.5	12.5	6
U-110*130*18 UNP	110	130	18	19	6

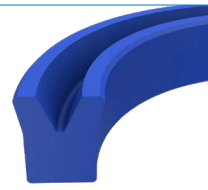


NO.	Ød	ØD	b	B	C
U-110*125*9 UNP	110	125	9	10	5.5
U-112*125*9 UNP	112	125	9	10	5
U-112*125*8.5 UNP	112	125	8.5	9.5	5
U-114.8*125*5.7 UNP	114.8	125	5.7	6.7	4.5
U-115*140*18 UNP	115	140	18	19	7
U-115*125*8 UNP	115	125	8	9	4.5
U-115*130*15 UNP	115	130	15	16	5.5
U-115*135*15 UNP	115	135	15	16	6
U-115*130*10 UNP	115	130	10	11	5.5
U-115*125*15 UNP	115	125	15	16	4.5
U-115*130*9 UNP	115	130	9	10	5.5
U-115*140*15 UNP	115	140	15	16	7
U-115*125*12 UNP	115	125	12	13	4.5
U-115*145*15 UNP	115	145	15	16	7
U-115*145*12 UNP	115	145	12	13	7
U-118.07*127*5.9 UNP	118.07	127	5.9	6.9	4.5
U-118*132*8.5 UNP	118	132	8.5	9.5	5.5
U-120*145*18 UNP	120	145	18	19	7
U-120*150*15 UNP	120	150	15	16	7
U-120*135*15 UNP	120	135	15	16	5.5
U-120*132*10 UNP	120	132	10	11	5
U-120*150*18 UNP	120	150	18	19	7
U-120*140*10 UNP	120	140	10	11	6
U-120*130*7 UNP	120	130	7	8	4.5
U-120*140*15 UNP	120	140	15	16	6
U-120*128*6 UNP	120	128	6	7	4

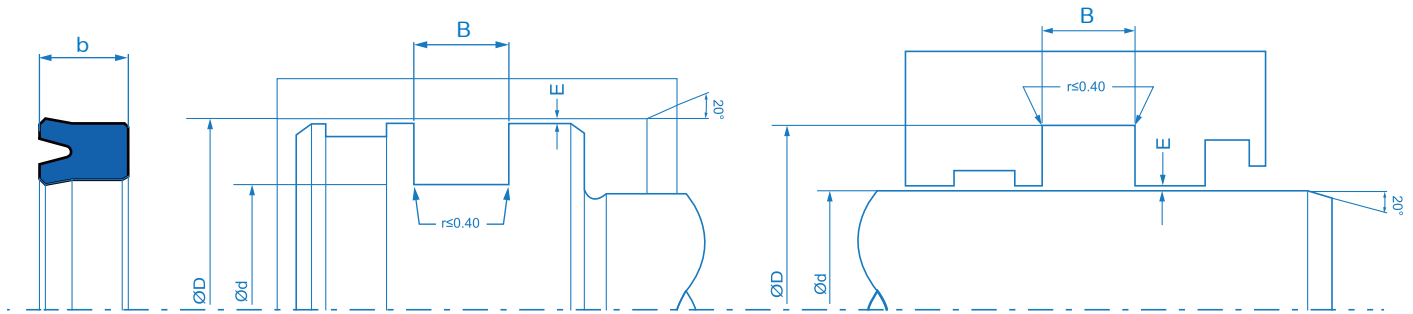
UNP



NO.	Ød	ØD	b	B	C
U-120*140*12 UNP	120	140	12	13	6
U-120*135*9 UNP	120	135	9	10	5.5
U-125*155*18 UNP	125	155	18	19	7
U-125*150*18 UNP	125	150	18	19	7
U-125*140*11 UNP	125	140	11	12	5.5
U-125*145*15 UNP	125	145	15	16	6
U-125*145*10 UNP	125	145	10	11	6
U-125*140*9 UNP	125	140	9	10	5.5
U-125*140*8.5 UNP	125	140	8.5	9.5	5.5
U-125*155*15 UNP	125	155	15	16	7
U-127*151*16 UNP	127	151	16	17	7
U-127*152.4*19.5 UNP	127	152.4	19.5	20.5	7
U-130*150*15 UNP	130	150	15	16	6
U-130*160*18 UNP	130	160	18	19	7
U-130*140*8 UNP	130	140	8	9	4.5
U-130*152*13 UNP	130	152	13	14	6
U-130*160*12 UNP	130	160	12	13	7
U-130*160*15 UNP	130	160	15	16	7
U-130*145*9 UNP	130	145	9	10	5.5
U-130*140*5 UNP	130	140	5	6	4.5
U-130*150*16 UNP	130	150	16	17	6
U-135*150*15 UNP	135	150	15	16	5.5
U-135*165*15 UNP	135	165	15	16	7
U-135*150*9 UNP	135	150	9	10	5.5
U-136*150*9 UNP	136	150	9	10	5.5
U-137.5*152*10.9 UNP	137.5	152	10.9	11.9	5.5

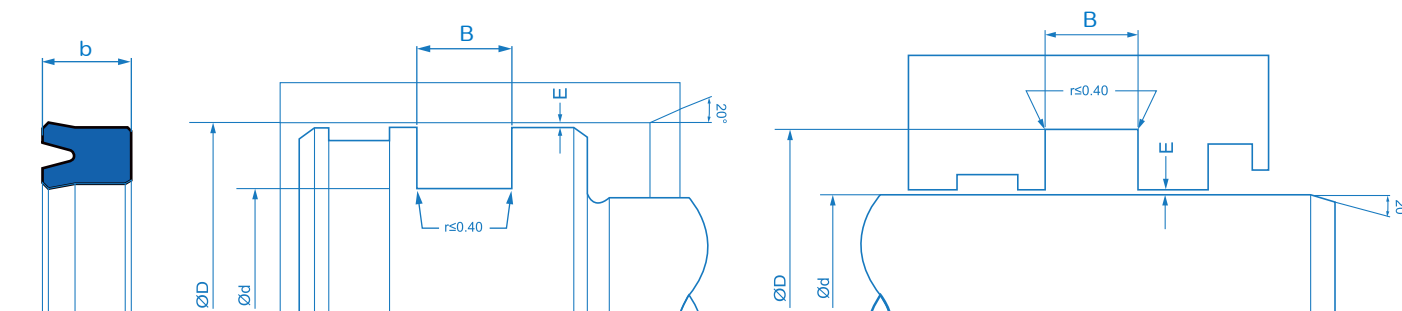
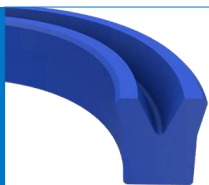


UNP

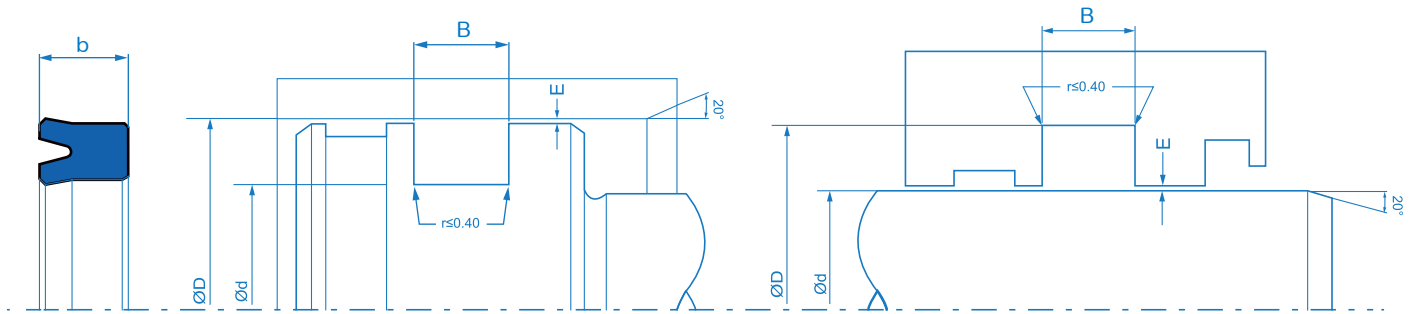


NO.	Ød	ØD	b	B	C
U-140*170*18 UNP	140	170	18	19	7
U-140*160*15 UNP	140	160	15	16	6
U-140*160*16 UNP	140	160	16	17	6
U-140*160*8 UNP	140	160	8	9	6
U-140*160*10 UNP	140	160	10	11	6
U-140*165*18 UNP	140	165	18	19	7
U-140*155*9 UNP	140	155	9	10	5.5
U-140*160*12 UNP	140	160	12	13	6
U-140*150*6 UNP	140	150	6	7	4.5
U-140*165*15 UNP	140	165	15	16	7
U-145*160*8 UNP	145	160	8	9	5.5
U-145*170*18 UNP	145	170	18	19	7
U-145*175*18 UNP	145	175	18	19	7
U-145*160*9 UNP	145	160	9	10	5.5
U-150*180*18 UNP	150	180	18	19	7
U-150*170*15 UNP	150	170	15	16	6
U-150*180*15 UNP	150	180	15	16	7
U-150*170*12 UNP	150	170	12	13	6
U-150*165*9 UNP	150	165	9	10	5.5
U-150*165*10 UNP	150	165	10	11	5.5
U-151*163*12.7 UNP	151	163	12.7	13.7	5.5
U-152.4*177.8*19.5 UNP	152.4	177.8	19.5	20.5	7
U-155*175*14 UNP	155	175	14	15	6
U-155*175*15 UNP	155	175	15	16	6
U-155*170*9 UNP	155	170	9	10	5.5
U-160*190*22 UNP	160	190	22	23	7

UNP

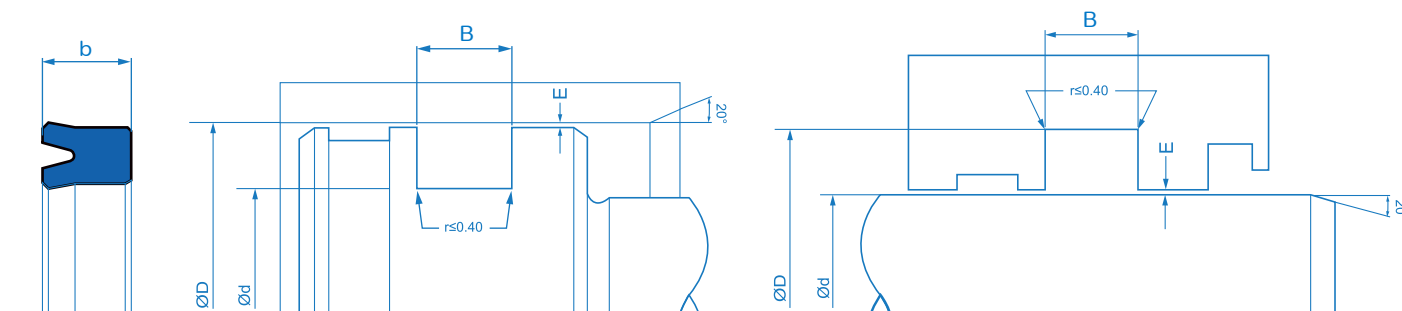
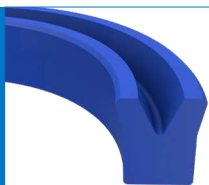


NO.	Ød	ØD	b	B	C
U-160*180*15 UNP	160	180	15	16	6
U-160*195*17 UNP	160	195	17	18	9
U-160*175*9 UNP	160	175	9	10	5.5
U-160*185*15 UNP	160	185	15	16	7
U-165*185*15 UNP	165	185	15	16	6
U-165*195*20 UNP	165	195	20	21	7
U-165*180*9 UNP	165	180	9	10	5.5
U-165*180*15 UNP	165	180	15	16	5.5
U-170*200*15 UNP	170	200	15	16	7
U-170*200*22 UNP	170	200	22	23	7
U-170*190*15 UNP	170	190	15	16	6
U-170*190*10 UNP	170	190	10	11	6
U-170*185*9 UNP	170	185	9	10	5.5
U-170*200*18 UNP	170	200	18	19	7
U-175*215*20 UNP	175	215	20	21	9
U-175*200*16 UNP	175	200	16	17	7
U-175*200*15 UNP	175	200	15	16	7
U-175*195*15 UNP	175	195	15	16	6
U-175*190*9 UNP	175	190	9	10	5.5
U-180*210*22 UNP	180	210	22	23	7
U-180*200*15 UNP	180	200	15	16	6
U-180*205*15 UNP	180	205	15	16	7
U-180*200*12 UNP	180	200	12	13	6
U-185*195*12 UNP	185	195	12	13	4.5
U-185*200*9 UNP	185	200	9	10	5.5
U-190*220*25 UNP	190	220	25	26	7

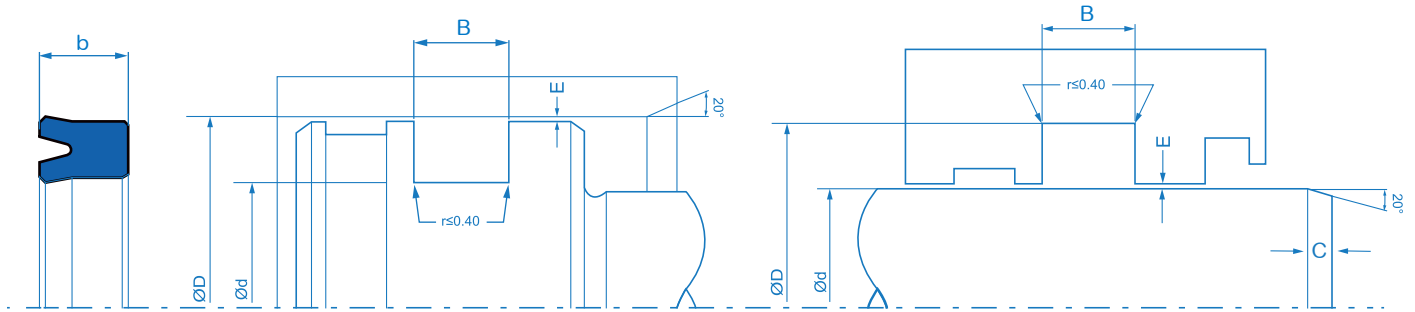


NO.	Ød	ØD	b	B	C
U-190*210*15 UNP	190	210	15	16	6
U-190*215*20 UNP	190	215	20	21	7
U-190*210*12 UNP	190	210	12	13	6
U-190*206*20 UNP	190	206	20	21	6
U-200*230*22 UNP	200	230	22	23	7
U-200*240*20 UNP	200	240	20	21	9
U-200*235*20 UNP	200	235	20	21	9
U-200*220*15 UNP	200	220	15	16	6
U-200*230*18 UNP	200	230	18	19	7
U-200*225*18 UNP	200	225	18	19	7
U-200*220*12 UNP	200	220	12	13	6
U-200*220*16 UNP	200	220	16	17	6
U-200*230*15 UNP	200	230	15	16	7
U-200*225*15 UNP	200	225	15	16	7
U-204*224*12 UNP	204	224	12	13	6
U-210*230*15 UNP	210	230	15	16	6
U-210*240*18 UNP	210	240	18	19	7
U-210*235*15 UNP	210	235	15	16	7
U-210*230*12 UNP	210	230	12	13	6
U-215*245*18 UNP	215	245	18	19	7
U-220*250*20 UNP	220	250	20	21	7
U-220*250*15 UNP	220	250	15	16	7
U-220*250*18 UNP	220	250	18	19	7
U-220*240*12 UNP	220	240	12	13	6
U-224*244*12 UNP	224	244	12	13	6
U-225*250*15 UNP	225	250	15	16	7

UNP



NO.	Ød	ØD	b	B	C
U-225*250*18 UNP	225	250	18	19	7
U-225*245*12 UNP	225	245	12	13	6
U-230*250*15 UNP	230	250	15	16	6
U-230*260*18 UNP	230	260	18	19	7
U-230*250*12 UNP	230	250	12	13	6
U-235*255*12 UNP	235	255	12	13	6
U-240*260*16 UNP	240	260	16	17	6
U-240*270*18 UNP	240	270	18	19	7
U-240*265*18 UNP	240	265	18	19	7
U-240*260*13 UNP	240	260	13	14	6
U-245*275*18 UNP	245	275	18	19	7
U-250*270*15 UNP	250	270	15	16	6
U-250*275*19 UNP	250	275	19	20	7
U-250*280*22 UNP	250	280	22	23	7
U-250*280*18 UNP	250	280	18	19	7
U-250*270*12 UNP	250	270	12	13	6
U-260*290*18 UNP	260	290	18	19	7
U-260*280*15 UNP	260	280	15	16	6
U-260*280*14 UNP	260	280	14	15	6
U-265*290*18 UNP	265	290	18	19	7
U-270*300*18 UNP	270	300	18	19	7
U-270*300*22 UNP	270	300	22	23	7
U-270*300*15 UNP	270	300	15	16	7
U-275*295*15 UNP	275	295	15	16	6
U-280*300*15 UNP	280	300	15	16	6
U-280*310*15 UNP	280	310	15	16	7



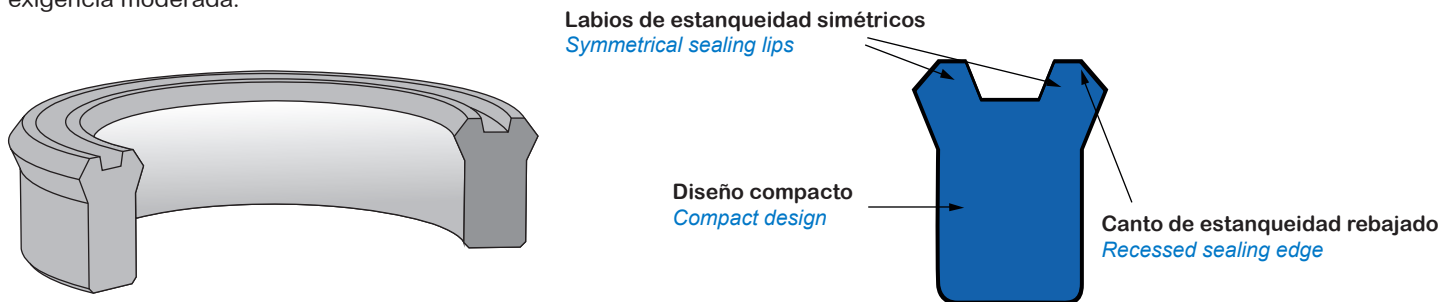
NO.	Ød	ØD	b	B	C
U-280*300*14 UNP	280	300	14	15	6
U-290*310*12 UNP	290	310	12	13	6
U-300*330*17 UNP	300	330	17	18	7
U-310*330*15 UNP	310	330	15	16	6
U-320*350*15 UNP	320	350	15	16	7
U-340*360*15 UNP	340	360	15	16	6
U-360*380*16 UNP	360	380	16	17	6
U-375*395*12 UNP	375	395	12	13	6
U-430*450*15 UNP	430	450	15	16	6

UNP1



El UNP1 es una junta en U de perfil simétrico y simple efecto, de diseño compacto para alojamientos radialmente reducidos. Apta para vástago o pistón gracias a su geometría reversible, sus labios con canto de estanqueidad rebajado ofrecen un excelente cierre incluso a bajas presiones y una buena estanqueidad estática y dinámica. Es una solución robusta y de montaje sencillo para cilindros hidráulicos de exigencia moderada.

The UNP1 is a symmetrical single-acting U-shaped seal with a compact design for radially restricted housings. Suitable for rod or piston thanks to its reversible geometry, its lips with a recessed sealing edge provide excellent sealing even at low pressure and good static and dynamic tightness. It is a robust, easy-to-fit solution for moderately demanding hydraulic cylinders.



-40°C
100°C



40MPa



< 0.5m/s



6mm
2000mm

- Diseño compacto para alojamientos radialmente reducidos.
- Perfil simétrico que permite el uso como junta de vástago o de pistón.
- Simple efecto, para carga de presión por un solo lado.
- Excelente cierre incluso en el rango de bajas presiones.
- Buena estanqueidad estática y dinámica
- Montaje sencillo por encaje (snap-on) y larga vida útil.



- Compact design for radially restricted housings.
- Symmetrical profile allowing use as rod or piston seal.
- Single acting, for one-sided pressure load.
- Excellent sealing effect even in the low-pressure range.
- Good static and dynamic tightness.
- Simple snap-on assembly and long service life.

Fabricado en poliuretano (PU) de 92 a 95 Shore A, material de gran resistencia mecánica y a la abrasión que ofrece un excelente comportamiento frente a aceites hidráulicos según DIN 51524, aceites y grasas lubricantes de base mineral y fluidos hidráulicos ignífugos HFA, HFB y HFC.

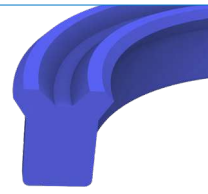


Made of polyurethane (PU) with a hardness of 92 to 95 Shore A, a material of high mechanical and abrasion resistance that offers excellent performance against hydraulic oils to DIN 51524, mineral-based lubricating oils and greases, and HFA, HFB and HFC fire-resistant hydraulic fluids.

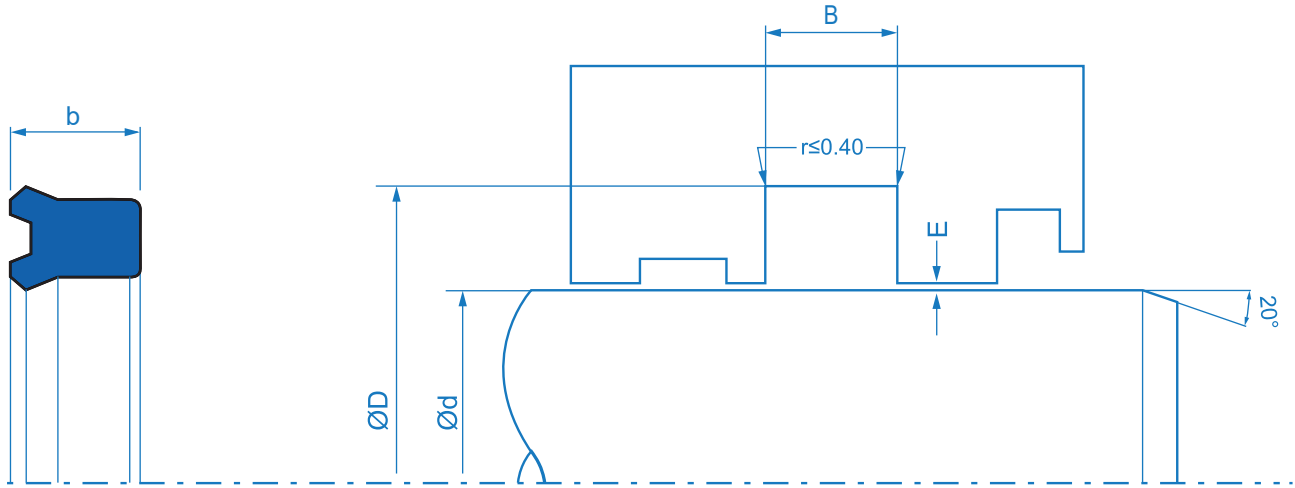
Montaje en ranura cerrada y mecanizada. Achaflanar y desbarbar los cantos del alojamiento y del vástago o pistón, y limpiar bien el alojamiento antes de instalar. No arrastrar la junta sobre cantos vivos, roscas o chaveteros, usando un casquillo de montaje si es necesario. Lubricar el vástago o pistón antes del montaje, calentar la junta en aceite a 80 °C facilita su colocación.



Fit in a closed, machined groove. Chamfer and deburr the edges of the housing and of the rod or piston, and clean the housing thoroughly before installation. Do not pull the seal over sharp edges, threads or keyways, using a mounting sleeve if necessary. Lubricate the rod or piston before assembly, heating the seal in oil at 80 °C makes fitting easier.

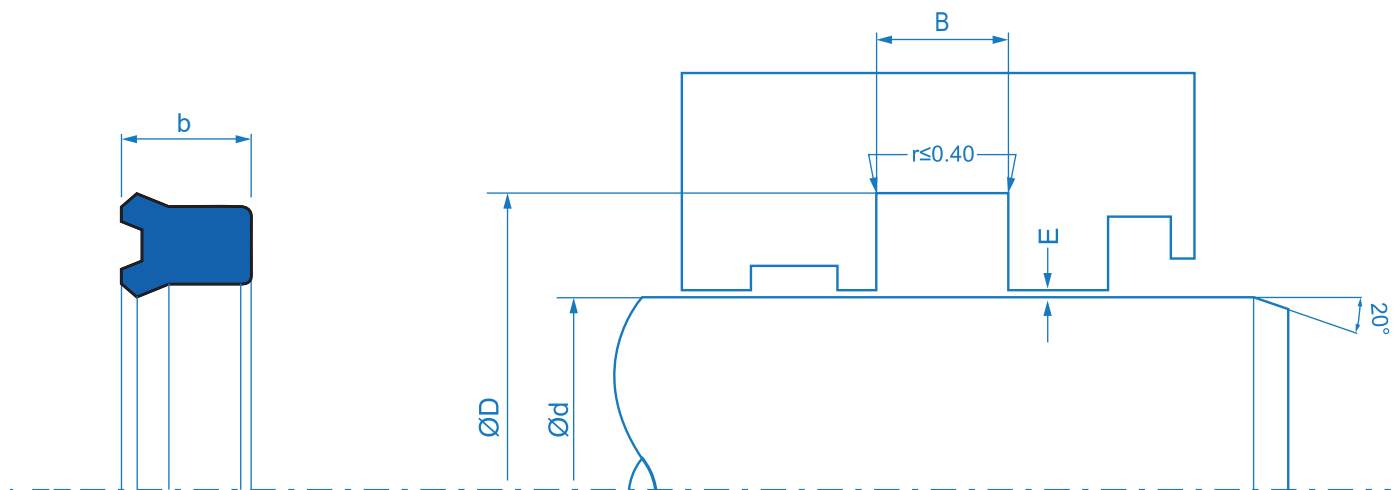


UNP1

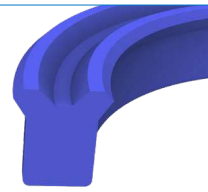


NO.	Ød	ØD	b
U-6*14*5.7 UNP1	6	14	5.7
U-8*16*5.7 UNP1	8	16	5.7
U-10*16*5 UNP1	10	16	5
U-10*18*5.5 UNP1	10	18	5.5
U-10*18*5.7 UNP1	10	18	5.7
U-12*18*4.5 UNP1	12	18	4.5
U-12*20*5.5 UNP1	12	20	5.5
U-12*20*5.7 UNP1	12	20	5.7
U-14*22*5.5 UNP1	14	22	5.5
U-14*22*5.7 UNP1	14	22	5.7
U-16*22*4 UNP1	16	22	4
U-16*24*6 UNP1	16	24	6
U-18*25*5.1 UNP1	18	25	5.1
U-18*26*6 UNP1	18	26	6
U-18*28*5.8 UNP1	18	28	5.8
U-18*28*7 UNP1	18	28	7
U-20*26*5 UNP1	20	26	5
U-20*26*5.5 UNP1	20	26	5.5
U-20*27*5.7 UNP1	20	27	5.7
U-20*28*5.8 UNP1	20	28	5.8
U-20*28*6 UNP1	20	28	6
U-20*28*7 UNP1	20	28	7
U-20*30*7.2 UNP1	20	30	7.2
U-20*30*8 UNP1	20	30	8
U-20*30*10 UNP1	20	30	10
U-21*27*4 UNP1	21	27	4

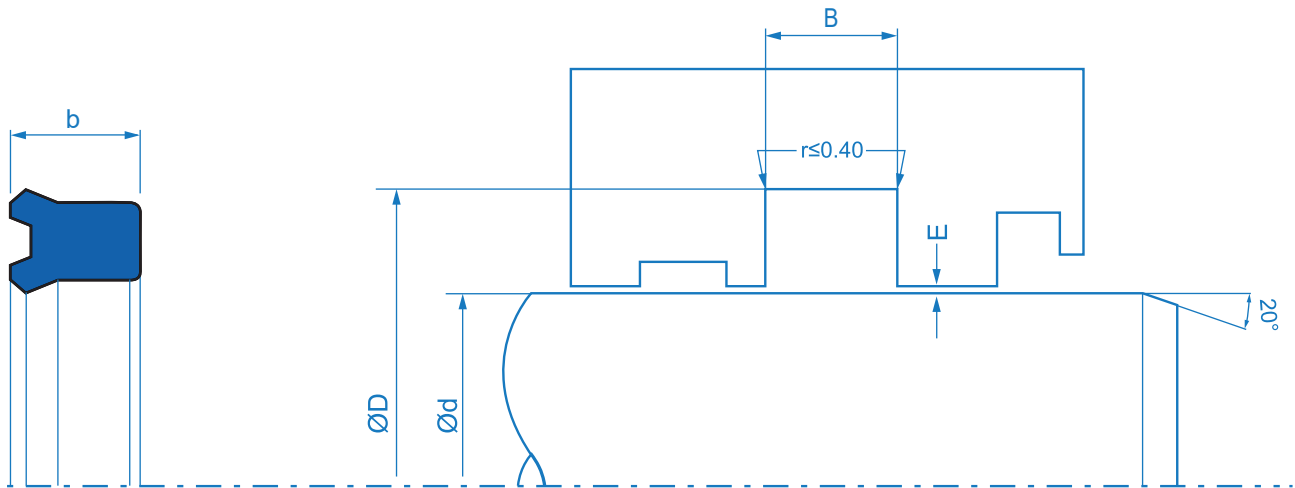
UNP1



NO.	Ød	ØD	b
U-22*28*4.5 UNP1	22	28	4.5
U-22*28*5 UNP1	22	28	5
U-22*29*5 UNP1	22	29	5
U-22*30*6 UNP1	22	30	6
U-22*30*7 UNP1	22	30	7
U-22*32*7 UNP1	22	32	7
U-22*32*8 UNP1	22	32	8
U-24*30*8 UNP1	24	30	8
U-24*32*6 UNP1	24	32	6
U-24*34*6 UNP1	24	34	6
U-25*32*4 UNP1	25	32	4
U-25*33*5.8 UNP1	25	33	5.8
U-25*33*6 UNP1	25	33	6
U-25*33*8 UNP1	25	33	8
U-25*35*5 UNP1	25	35	5
U-25*35*5.8 UNP1	25	35	5.8
U-25*35*7 UNP1	25	35	7
U-25*35*8 UNP1	25	35	8
U-25*35*9 UNP1	25	35	9
U-25*35*10 UNP1	25	35	10
U-25*36*5 UNP1	25	36	5
U-25*38*10 UNP1	25	38	10
U-28*36*5.8 UNP1	28	36	5.8
U-28*36*8 UNP1	28	36	8
U-28*38*7 UNP1	28	38	7
U-30*38*5.8 UNP1	30	38	5.8

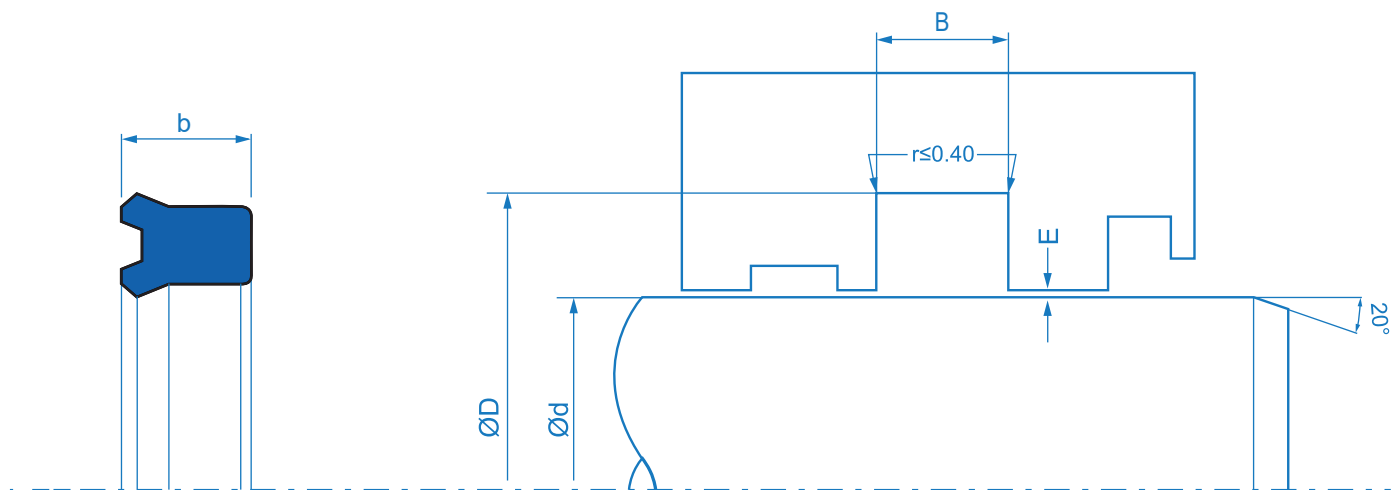


UNP1

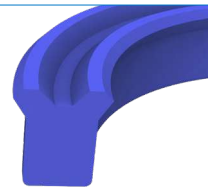


NO.	Ød	ØD	b
U-30*38*6 UNP1	30	38	6
U-30*38*8 UNP1	30	38	8
U-30*40*7 UNP1	30	40	7
U-30*40*10 UNP1	30	40	10
U-32*40*5.8 UNP1	32	40	5.8
U-32*40*6 UNP1	32	40	6
U-32*40*8 UNP1	32	40	8
U-32*42*7 UNP1	32	42	7
U-32*42*8 UNP1	32	42	8
U-32*42*10 UNP1	32	42	10
U-35*43*6 UNP1	35	43	6
U-35*45*7 UNP1	35	45	7
U-35*45*10 UNP1	35	45	10
U-36*44*6 UNP1	36	44	6
U-36*44*8 UNP1	36	44	8
U-36*46*7 UNP1	36	46	7
U-36*46*10 UNP1	36	46	10
U-38*45*6 UNP1	38	45	6
U-40*48*5.8 UNP1	40	48	5.8
U-40*48*6 UNP1	40	48	6
U-40*48*8 UNP1	40	48	8
U-40*50*6 UNP1	40	50	6
U-40*50*7 UNP1	40	50	7
U-40*50*10 UNP1	40	50	10
U-42*50*6 UNP1	42	50	6
U-42*52*8.5 UNP1	42	52	8.5

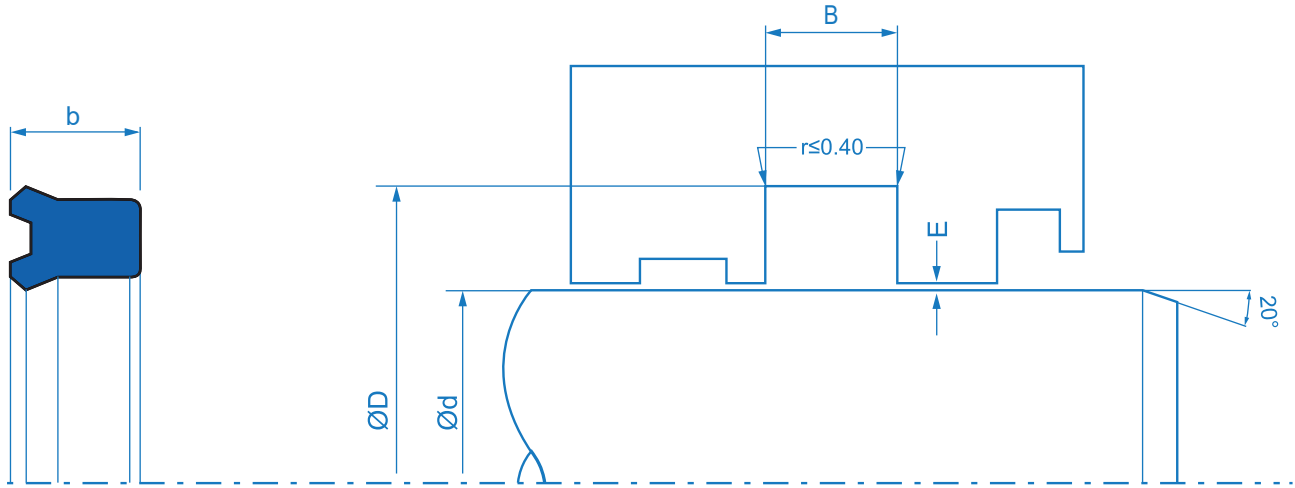
UNP1



NO.	Ød	ØD	b
U-42*53*9 UNP1	42	53	9
U-45*53*6 UNP1	45	53	6
U-45*53*8 UNP1	45	53	8
U-45*53*10 UNP1	45	53	10
U-45*55*7 UNP1	45	55	7
U-45*55*10 UNP1	45	55	10
U-46*54*8 UNP1	46	54	8
U-50*58*8 UNP1	50	58	8
U-50*60*7 UNP1	50	60	7
U-50*60*10 UNP1	50	60	10
U-50*62*8 UNP1	50	62	8
U-50*62*10 UNP1	50	62	10
U-50*65*10 UNP1	50	65	10
U-55*63*8 UNP1	55	63	8
U-55*65*7.2 UNP1	55	65	7.2
U-55*65*7.5 UNP1	55	65	7.5
U-55*65*10 UNP1	55	65	10
U-55*65*12 UNP1	55	65	12
U-56*66*6.5 UNP1	56	66	6.5
U-56*66*10 UNP1	56	66	10
U-56*71*8.5 UNP1	56	71	8.5
U-60*68*6 UNP1	60	68	6
U-60*68*8 UNP1	60	68	8
U-60*68*13 UNP1	60	68	13
U-60*70*7 UNP1	60	70	7
U-60*70*7.2 UNP1	60	70	7.2

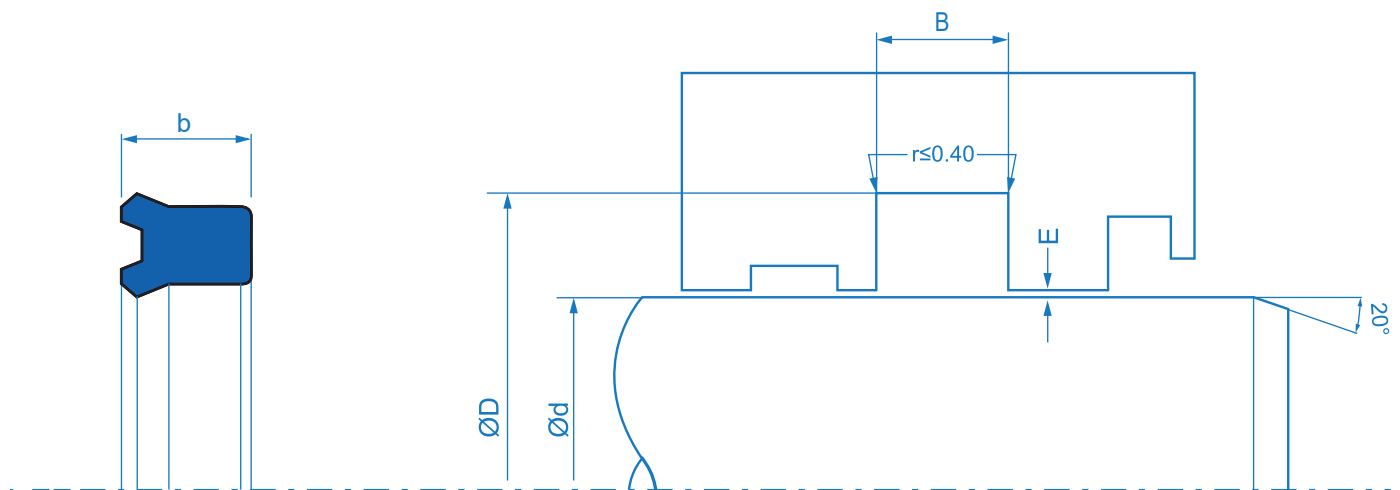


UNP1



NO.	Ød	ØD	b
U-60*70*7.5 UNP1	60	70	7.5
U-60*70*10 UNP1	60	70	10
U-60*70*12 UNP1	60	70	12
U-60*72*9 UNP1	60	72	9
U-61*69*8 UNP1	61	69	8
U-63*71*8 UNP1	63	71	8
U-63*75*8.5 UNP1	63	75	8.5
U-63*75*10 UNP1	63	75	10
U-65*73*8 UNP1	65	73	8
U-65*75*12 UNP1	65	75	12
U-65*77*9 UNP1	65	77	9
U-66*80*10.5 UNP1	66	80	10.5
U-68*76*8 UNP1	68	76	8
U-70*78*8 UNP1	70	78	8
U-70*80*7 UNP1	70	80	7
U-70*80*10 UNP1	70	80	10
U-70*80*12 UNP1	70	80	12
U-70*82*9 UNP1	70	82	9
U-71*79*8 UNP1	71	79	8
U-72*78*6.5 UNP1	72	78	6.5
U-75*85*7.2 UNP1	75	85	7.2
U-75*85*12 UNP1	75	85	12
U-76*84*8 UNP1	76	84	8
U-78*86*13 UNP1	78	86	13
U-78*93*10.5 UNP1	78	93	10.5
U-79.75*85.99*6.5 UNP1	79.75	85.99	6.5

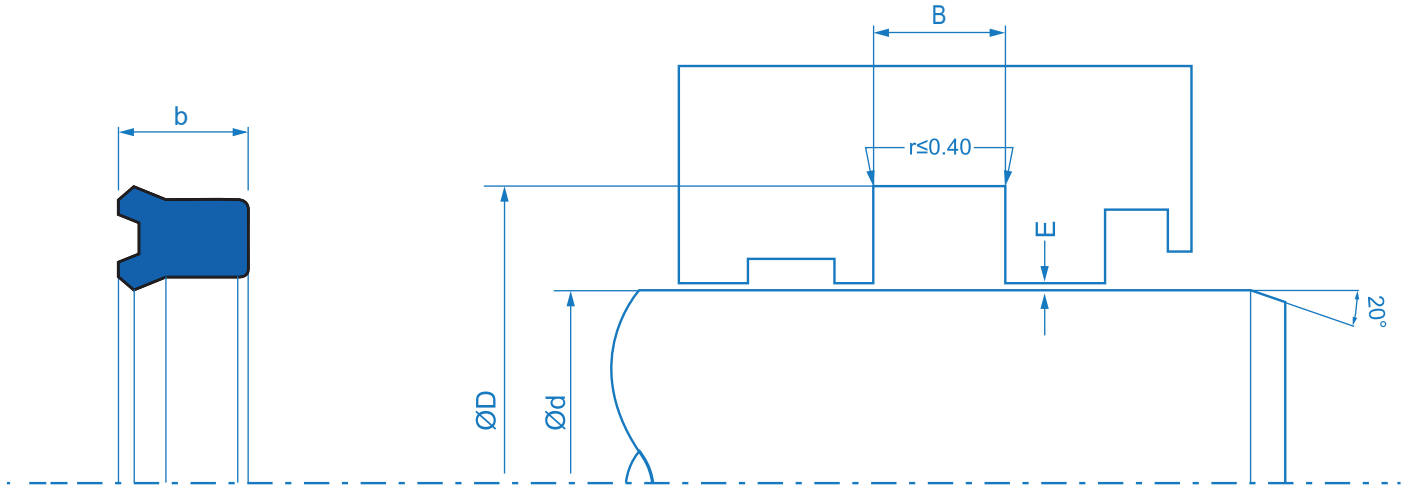
UNP1



NO.	Ød	ØD	b
U-80*88*8 UNP1	80	88	8
U-80*90*7.2 UNP1	80	90	7.2
U-80*90*12 UNP1	80	90	12
U-80*90*14 UNP1	80	90	14
U-81*89*8 UNP1	81	89	8
U-85*95*5 UNP1	85	95	5
U-85*95*7 UNP1	85	95	7
U-85*97*9 UNP1	85	97	9
U-87*95*8 UNP1	87	95	8
U-88*96*8 UNP1	88	96	8
U-90*98*8 UNP1	90	98	8
U-90*100*6.5 UNP1	90	100	6.5
U-91*99*8 UNP1	91	99	8
U-95*112*11.5 UNP1	95	112	11.5
U-97*105*8 UNP1	97	105	8
U-97*105*13 UNP1	97	105	13
U-100*108*8 UNP1	100	108	8
U-100*108*11.5 UNP1	100	108	11.5
U-107*115*8 UNP1	107	115	8
U-110*130*14.5 UNP1	110	130	14.5
U-118*126*13 UNP1	118	126	13
U-120*135*15 UNP1	120	135	15
U-125*133*6.5 UNP1	125	133	6.5
U-126*134*8 UNP1	126	134	8
U-143*151*13 UNP1	143	151	13
U-145*153*8 UNP1	145	153	8

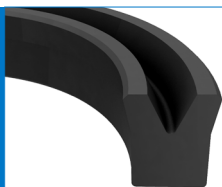


UNP1



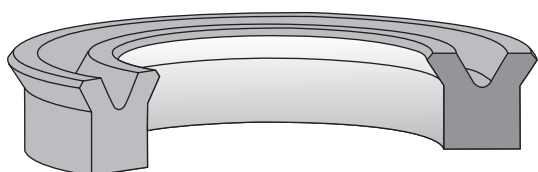
NO.	$\varnothing d$	$\varnothing D$	b
U-150*160*12.5 UNP1	150	160	12.5
U-180*190*12.5 UNP1	180	190	12.5

UNR



El UNR es una junta en U de perfil simétrico y simple efecto, con el labio de estanqueidad rebajado. Gracias a su geometría reversible puede montarse como junta de vástago o de pistón. Es una solución económica y versátil, de montaje sencillo por encaje, pensada para cilindros de servicio ligero y estándar que trabajan preferentemente a bajas presiones, con un buen cierre estático y dinámico.

The UNR is a symmetrical single-acting U-shaped seal with a recessed sealing lip. Thanks to its reversible geometry it can be fitted as a rod or piston seal. It is an economical and versatile solution, easy to fit by snap-on assembly, designed for light-duty and standard cylinders working preferably at low pressures, with good static and dynamic sealing.



Labios de sellado simétricos
Symmetrical sealing lips

Anillo perfilado
Profile ring



-50°C
350°C



40MPa



< 0.5m/s



6mm
2000mm

- Perfil simétrico que permite el uso como junta de vástago o de pistón.
- Simple efecto, para carga de presión por un solo lado.
- Labio de estanqueidad rebajado para un buen cierre a bajas presiones.
- Buen comportamiento estático y dinámico.
- Montaje sencillo por encaje (snap-on).
- Amplio rango de dimensiones y de aplicación.
- Buena relación calidad-precio para aplicaciones de exigencia moderada.



- Symmetrical profile allowing use as rod or piston seal.
- Single acting, for one-sided pressure load.
- Recessed sealing lip for good sealing at low pressures.
- Good static and dynamic performance.
- Simple snap-on assembly.
- Wide range of dimensions and applications.
- Good price-performance ratio for moderately demanding applications.

Disponible en distintos compuestos según el fluido y la temperatura de trabajo: NBR, EPDM, FKM, FFKM, NR, CR y VMQ en durezas de 70 a 90 Shore A. PTFE en durezas de 60 Shore D. Ofrece un buen comportamiento frente a aceites hidráulicos según DIN 51524 partes 1 a 3, aceites y grasas lubricantes de base mineral y fluidos hidráulicos ignífugos HFA, HFB y HFC según VDMA 24317. La compatibilidad concreta y los rangos de temperatura dependen del compuesto elegido.

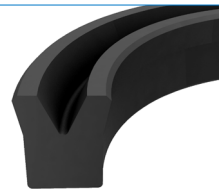


Available in different compounds depending on the working fluid and temperature: NBR, EPDM, FKM, FFKM, NR, CR and VMQ in hardnesses from 70 to 90 Shore A. PTFE in a hardness of 60 Shore D. It offers good behaviour with hydraulic oils according to DIN 51524 parts 1 to 3, mineral-based lubricating oils and greases, and flame-retardant hydraulic fluids HFA, HFB and HFC according to VDMA 24317. The specific compatibility and temperature ranges depend on the compound selected.

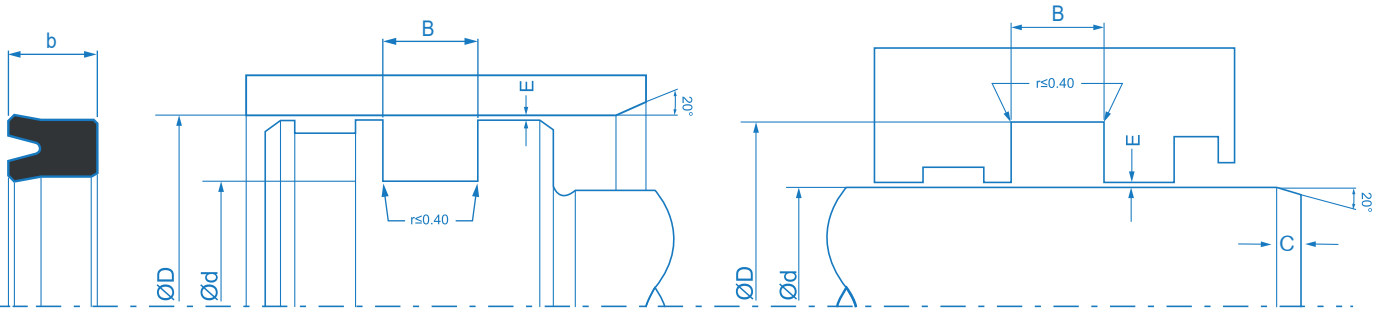
Montaje en ranura cerrada y mecanizada (se requiere espacio axialmente accesible en diámetros pequeños). Achaflanar y desbarbar los cantos del alojamiento y del vástago o pistón, y limpiar bien el alojamiento antes de instalar. No arrastrar la junta sobre cantos vivos, roscas o chaveteros, usando un casquillo de montaje si es necesario.



Fit in a closed, machined groove (axially accessible space is required for small diameters). Chamfer and deburr the edges of the housing and of the rod or piston, and clean the housing thoroughly before installation. Do not pull the seal over sharp edges, threads or keyways, using a mounting sleeve if necessary.

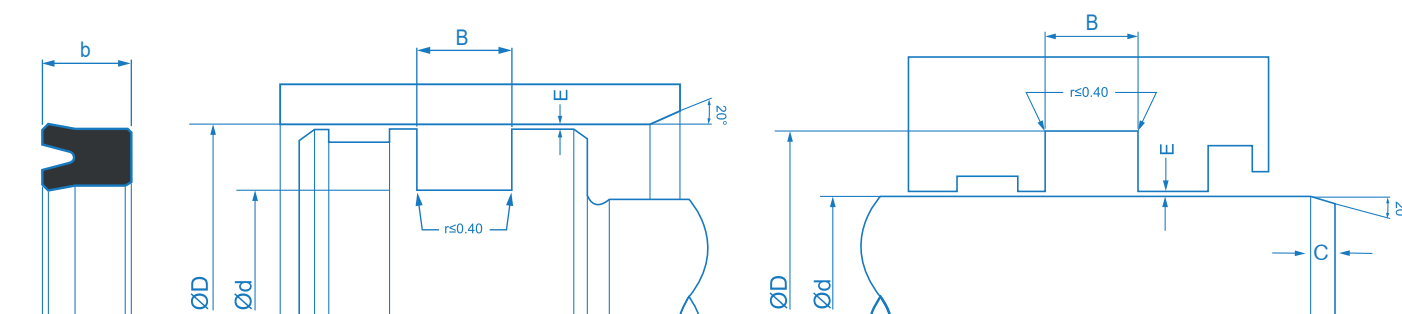
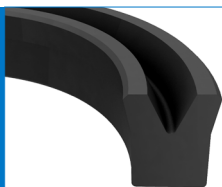


UNR

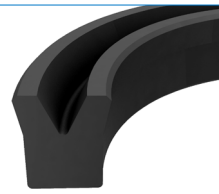


NO.	Ød	ØD	b	B	C
U-3*8*3.5 UNR	3	8	3.5	4	2.5
U-3*10*6 UNR	3	10	6	7	3.5
U-3*7*5 UNR	3	7	5	6	2
U-3*8*4.5 UNR	3	8	4.5	5	2.5
U-4*12*5.5 UNR	4	12	5.5	6.5	4
U-4*10*4 UNR	4	10	4	4.5	3
U-4*10*6 UNR	4	10	6	7	3
U-4*10*5 UNR	4	10	5	6	3
U-4*12*4 UNR	4	12	4	4.5	4
U-4*10*4.5 UNR	4	10	4.5	5	3
U-5*11*7 UNR	5	11	7	8	3
U-5*11*5 UNR	5	11	5	6	3
U-5*10*4 UNR	5	10	4	4.5	2.5
U-5*10*5 UNR	5	10	5	6	2.5
U-5*12*5 UNR	5	12	5	6	3.5
U-5*14*4.5 UNR	5	14	4.5	5	4
U-6*12*6 UNR	6	12	6	7	3
U-6*10*8 UNR	6	10	8	9	2
U-6*13*5.5 UNR	6	13	5.5	6.5	3.5
U-6*15*7.5 UNR	6	15	7.5	8.5	4
U-6*14*6 UNR	6	14	6	7	4
U-6*9*2 UNR	6	9	2	2.5	2
U-6*13*8 UNR	6	13	8	9	3.5
U-6*14*4 UNR	6	14	4	4.5	4
U-6*16*5 UNR	6	16	5	6	4.5
U-6*12*7 UNR	6	12	7	8	3

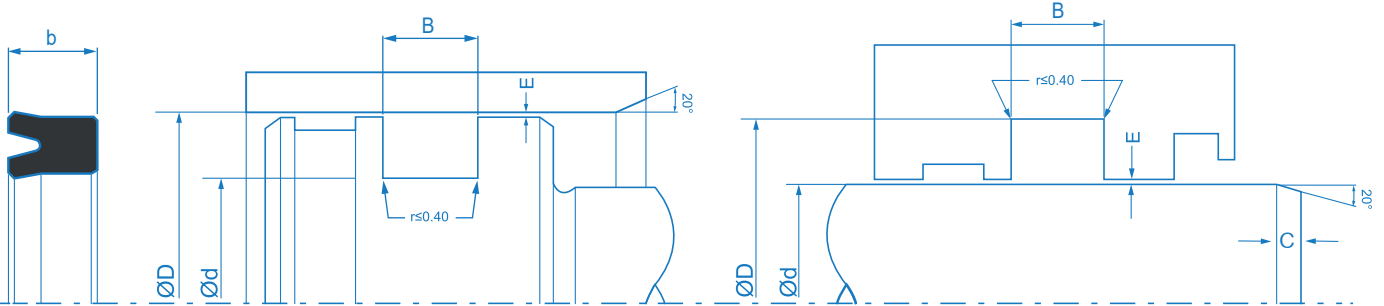
UNR



NO.	Ød	ØD	b	B	C
U-6*10*3 UNR	6	10	3	3.5	2
U-6*15*5 UNR	6	15	5	6	4
U-6*16*6 UNR	6	16	6	7	4.5
U-6*12*4 UNR	6	12	4	4.5	3
U-6*18*8 UNR	6	18	8	9	5
U-7*15*5 UNR	7	15	5	6	4
U-7*14*7 UNR	7	14	7	8	3.5
U-7*15*7 UNR	7	15	7	8	4
U-7*13*3.5 UNR	7	13	3.5	4	3
U-7*12*2.55 UNR	7	12	2.55	3.05	3
U-8*18*8 UNR	8	18	8	9	4.5
U-8*14*6 UNR	8	14	6	7	3
U-8*12*5 UNR	8	12	5	6	2
U-8*18*9 UNR	8	18	9	10	4.5
U-8*15*6 UNR	8	15	6	7	3.5
U-8*16*5.3 UNR	8	16	5.3	6.3	4
U-8*20*8 UNR	8	20	8	9	5
U-8*15*5 UNR	8	15	5	6	3.5
U-8*16*6 UNR	8	16	6	7	4
U-8*16*8 UNR	8	16	8	9	4
U-8*14*4 UNR	8	14	4	4.5	3
U-8*15*8 UNR	8	15	8	9	3.5
U-8*12*4 UNR	8	12	4	4.5	2
U-8*17*6 UNR	8	17	6	7	4
U-9*17*6 UNR	9	17	6	7	4
U-9*19*6 UNR	9	19	6	7	4.5

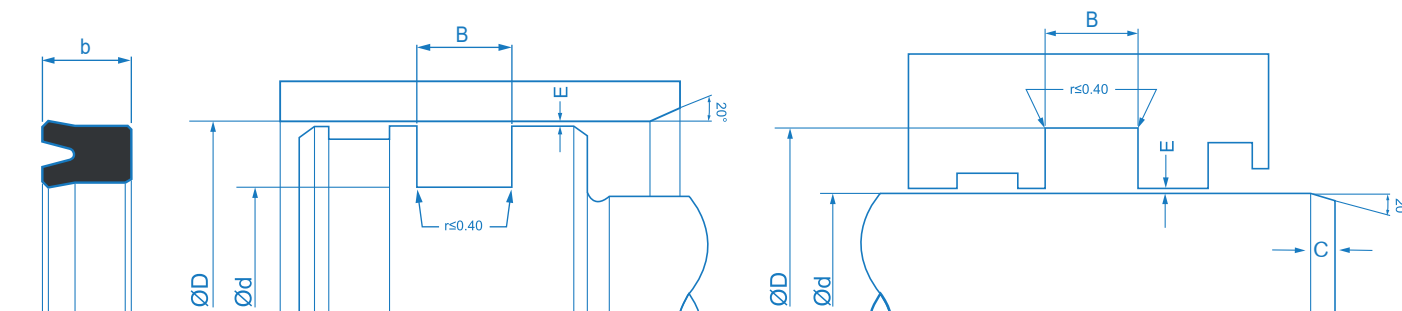
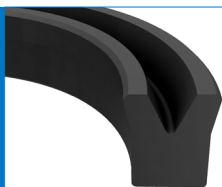


UNR

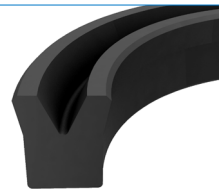


NO.	Ød	ØD	b	B	C
U-9*16*4 UNR	9	16	4	4.5	3.5
U-9*16*7 UNR	9	16	7	8	3.5
U-9*17*5.5 UNR	9	17	5.5	6.5	4
U-9*15*8 UNR	9	15	8	9	3
U-9.4*14*2.9 UNR	9.4	14	2.9	3.4	2
U-10*20*8 UNR	10	20	8	9	4.5
U-10*22*6 UNR	10	22	6	7	5
U-10*18*8 UNR	10	18	8	9	4
U-10*18*4 UNR	10	18	4	4.5	4
U-10*28*10 UNR	10	28	10	11	6
U-10*18*6 UNR	10	18	6	7	4
U-10*25*10 UNR	10	25	10	11	5.5
U-10*26*9.5 UNR	10	26	9.5	10.5	6
U-10*25*8 UNR	10	25	8	9	5.5
U-10*14*4 UNR	10	14	4	4.5	2
U-10*20*6.5 UNR	10	20	6.5	7.5	4.5
U-10*20*4.5 UNR	10	20	4.5	5	4.5
U-10*22*8 UNR	10	22	8	9	5
U-10*16*4.5 UNR	10	16	4.5	5	3
U-10*20*6 UNR	10	20	6	7	4.5
U-10*18*5.5 UNR	10	18	5.5	6.5	4
U-10*18*5 UNR	10	18	5	6	4
U-10*16*4 UNR	10	16	4	4.5	3
U-10*15*4 UNR	10	15	4	4.5	2.5
U-10*16*6 UNR	10	16	6	7	3
U-10*16*5 UNR	10	16	5	6	3

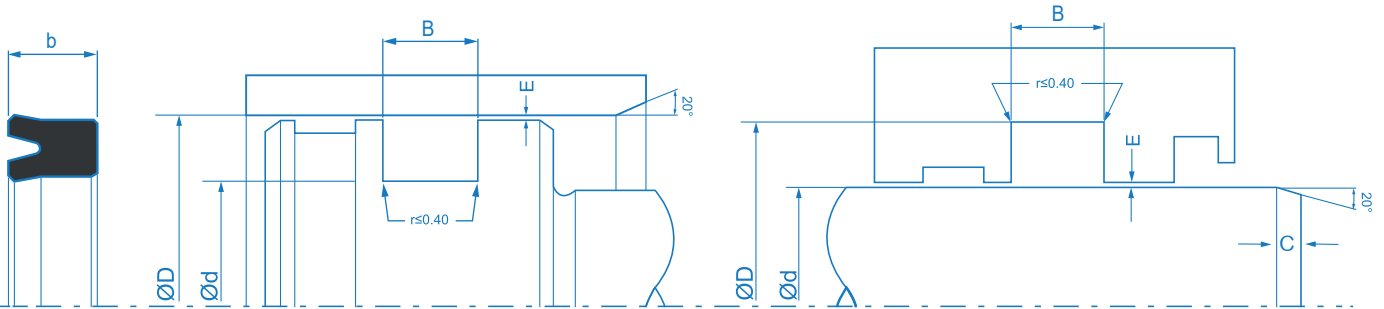
UNR



NO.	Ød	ØD	b	B	C
U-10*20*7 UNR	10	20	7	8	4.5
U-10*22*9 UNR	10	22	9	10	5
U-10*26*8 UNR	10	26	8	9	6
U-11.2*19.2*5 UNR	11.2	19.2	5	6	4
U-11*18.35*5 UNR	11	18.35	5	6	3.5
U-12*22*8 UNR	12	22	8	9	4.5
U-12*20*8 UNR	12	20	8	9	4
U-12*32*10 UNR	12	32	10	11	6
U-12*24*10 UNR	12	24	10	11	5
U-12*18*6 UNR	12	18	6	7	3
U-12*18*4 UNR	12	18	4	4.5	3
U-12*18*5 UNR	12	18	5	6	3
U-12*20*5.5 UNR	12	20	5.5	6.5	4
U-12.7*25.4*6.35 UNR	12.7	25.4	6.35	7.35	5
U-12*16*3 UNR	12	16	3	3.5	2
U-12*22*5 UNR	12	22	5	6	4.5
U-12*18*8 UNR	12	18	8	9	3
U-12*20*5 UNR	12	20	5	6	4
U-12*22*5.5 UNR	12	22	5.5	6.5	4.5
U-12*25*8 UNR	12	25	8	9	5
U-12*24*6 UNR	12	24	6	7	5
U-12*28*10 UNR	12	28	10	11	6
U-12*22*7 UNR	12	22	7	8	4.5
U-12*22*6 UNR	12	22	6	7	4.5
U-12*17*3 UNR	12	17	3	3.5	2.5
U-12*26*10 UNR	12	26	10	11	5.5

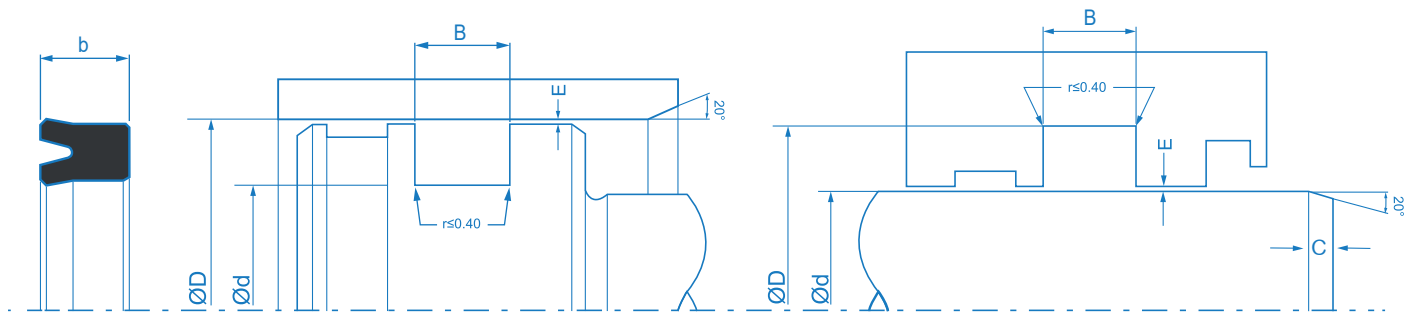
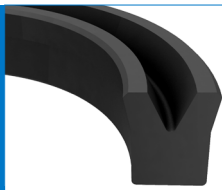


UNR

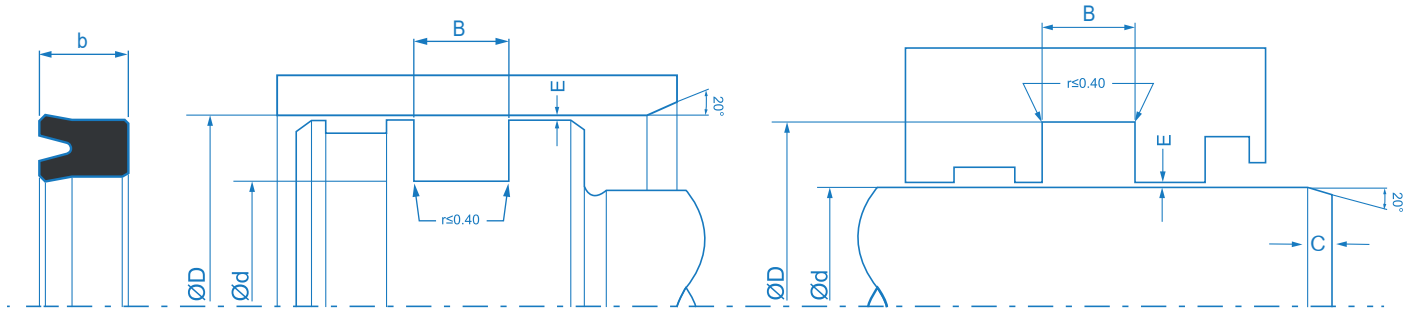


NO.	Ød	ØD	b	B	C
U-13*25*8 UNR	13	25	8	9	5
U-14*24*8 UNR	14	24	8	9	4.5
U-14*22*5 UNR	14	22	5	6	4
U-14*20*6 UNR	14	20	6	7	3
U-14*20*4 UNR	14	20	4	4.5	3
U-14*22*4 UNR	14	22	4	4.5	4
U-14*22*8 UNR	14	22	8	9	4
U-14.5*18*3.75 UNR	14.5	18	3.75	4.25	2
U-14*20*8 UNR	14	20	8	9	3
U-14*32*8 UNR	14	32	8	9	6
U-14*22*6 UNR	14	22	6	7	4
U-14*28*7 UNR	14	28	7	8	5.5
U-14*24*5 UNR	14	24	5	6	4.5
U-14*22*12 UNR	14	22	12	13	4
U-14*24*6 UNR	14	24	6	7	4.5
U-14*28*10 UNR	14	28	10	11	5.5
U-14*20*5 UNR	14	20	5	6	3
U-15*25*8 UNR	15	25	8	9	4.5
U-15*22*5.5 UNR	15	22	5.5	6.5	3.5
U-15*25*10 UNR	15	25	10	11	4.5
U-15*22*5 UNR	15	22	5	6	3.5
U-15*25*5 UNR	15	25	5	6	4.5
U-15*22*4 UNR	15	22	4	4.5	3.5
U-15*25*6 UNR	15	25	6	7	4.5
U-15*21.5*4.5 UNR	15	21.5	4.5	5	3
U-15*21*5 UNR	15	21	5	6	3

UNR

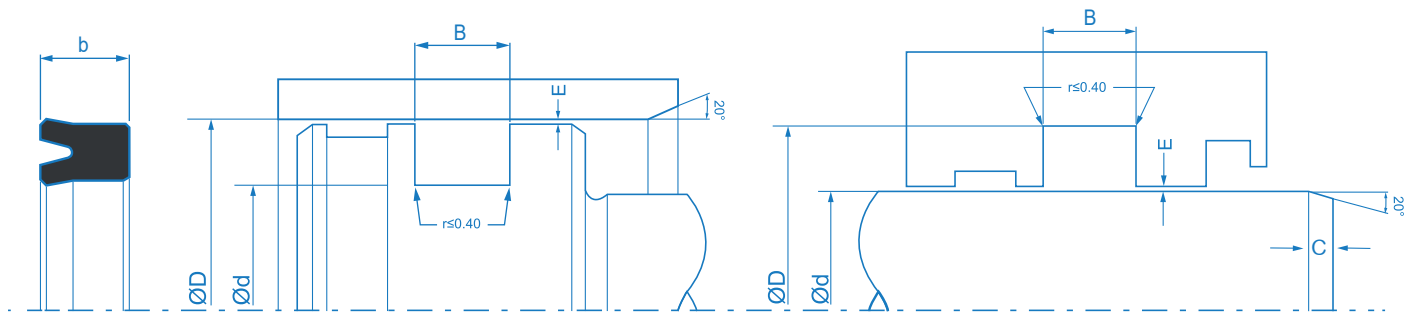
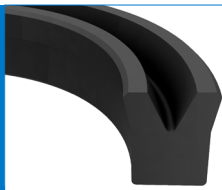


NO.	Ød	ØD	b	B	C
U-15*22*8 UNR	15	22	8	9	3.5
U-15*20*3 UNR	15	20	3	3.5	2.5
U-15*21*3.5 UNR	15	21	3.5	4	3
U-15*28*10 UNR	15	28	10	11	5
U-15*30*10 UNR	15	30	10	11	5.5
U-15*30*8 UNR	15	30	8	9	5.5
U-15*28*8 UNR	15	28	8	9	5
U-15*30*6 UNR	15	30	6	7	5.5
U-16*26*8 UNR	16	26	8	9	4.5
U-16*22*5 UNR	16	22	5	6	3
U-16*22*4 UNR	16	22	4	4.5	3
U-16*24*5 UNR	16	24	5	6	4
U-16*30*7 UNR	16	30	7	8	5.5
U-16*24*6.5 UNR	16	24	6.5	7.5	4
U-16*24*4 UNR	16	24	4	4.5	4
U-16*32*10 UNR	16	32	10	11	6
U-16*22*7 UNR	16	22	7	8	3
U-16*26*10 UNR	16	26	10	11	4.5
U-16*24*9 UNR	16	24	9	10	4
U-16*25*5 UNR	16	25	5	6	4
U-16*24*6 UNR	16	24	6	7	4
U-16*22*10 UNR	16	22	10	11	3
U-16*28*6 UNR	16	28	6	7	5
U-16*26*6 UNR	16	26	6	7	4.5
U-16*22*3 UNR	16	22	3	3.5	3
U-16*29*6 UNR	16	29	6	7	5

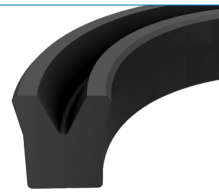


NO.	Ød	ØD	b	B	C
U-16*26*5 UNR	16	26	5	6	4.5
U-17*32*10 UNR	17	32	10	11	5.5
U-17*25*4 UNR	17	25	4	4.5	4
U-17*28*7 UNR	17	28	7	8	5
U-18*28*8 UNR	18	28	8	9	4.5
U-18*30*6 UNR	18	30	6	7	5
U-18*26*5 UNR	18	26	5	6	4
U-18*24*4 UNR	18	24	4	4.5	3
U-18*25*5.5 UNR	18	25	5.5	6.5	3.5
U-18*25*6 UNR	18	25	6	7	3.5
U-18*28*6 UNR	18	28	6	7	4.5
U-18*24*8 UNR	18	24	8	9	3
U-18*26*4 UNR	18	26	4	4.5	4
U-18*30*7.5 UNR	18	30	7.5	8.5	5
U-18*30*8.5 UNR	18	30	8.5	9.5	5
U-18*30*10 UNR	18	30	10	11	5
U-18*32*7 UNR	18	32	7	8	5.5
U-18*25*5 UNR	18	25	5	6	3.5
U-19*25*6 UNR	19	25	6	7	3
U-19.05*23.91*4.81 UNR	19.05	23.91	4.81	5.81	2
U-19*26*6.7 UNR	19	26	6.7	7.7	3.5
U-19*25*5 UNR	19	25	5	6	3
U-19*26*6 UNR	19	26	6	7	3.5
U-20*30*8 UNR	20	30	8	9	4.5
U-20*28*5 UNR	20	28	5	6	4
U-20*30*10 UNR	20	30	10	11	4.5

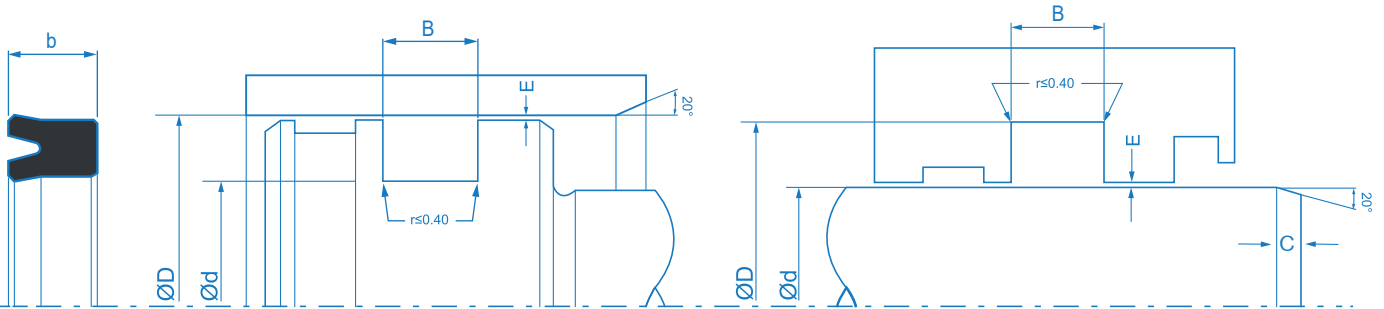
UNR



NO.	Ød	ØD	b	B	C
U-20*32*5 UNR	20	32	5	6	5
U-20*36*12 UNR	20	36	12	13	6
U-20*28*4 UNR	20	28	4	4.5	4
U-20*25*3 UNR	20	25	3	3.5	2.5
U-20*36*10 UNR	20	36	10	11	6
U-20*40*12 UNR	20	40	12	13	6
U-20*32*11 UNR	20	32	11	12	5
U-20*35*12 UNR	20	35	12	13	5.5
U-20*25*3.5 UNR	20	25	3.5	4	2.5
U-20*35*10 UNR	20	35	10	11	5.5
U-20*40*10 UNR	20	40	10	11	6
U-20*40*9 UNR	20	40	9	10	6
U-20*36*8 UNR	20	36	8	9	6
U-20*24*3 UNR	20	24	3	3.5	2
U-20*28*8 UNR	20	28	8	9	4
U-20*32*8 UNR	20	32	8	9	5
U-20*26*6 UNR	20	26	6	7	3
U-20*26*5 UNR	20	26	5	6	3
U-20*35*7 UNR	20	35	7	8	5.5
U-20*30*4 UNR	20	30	4	4.5	4.5
U-20*42*12 UNR	20	42	12	13	6
U-20*28*5.5 UNR	20	28	5.5	6.5	4
U-20*25*5 UNR	20	25	5	6	2.5
U-20*26*4 UNR	20	26	4	4.5	3
U-20*28*10 UNR	20	28	10	11	4
U-20*27*4 UNR	20	27	4	4.5	3.5

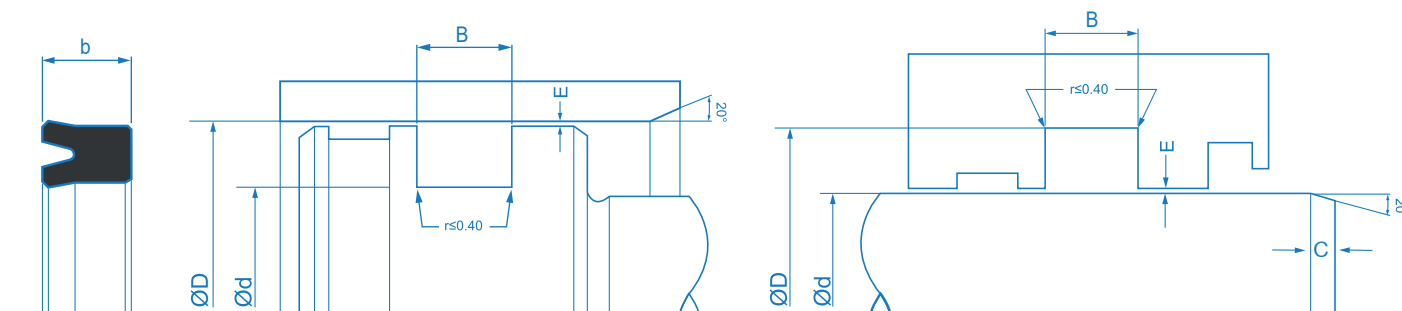
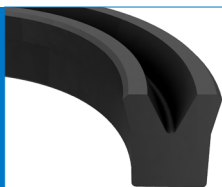


UNR

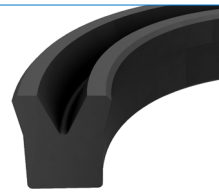


NO.	Ød	ØD	b	B	C
U-20*33*10 UNR	20	33	10	11	5
U-20*27*6 UNR	20	27	6	7	3.5
U-20*32*7.5 UNR	20	32	7.5	8.5	5
U-20*30*6 UNR	20	30	6	7	4.5
U-20*32*6 UNR	20	32	6	7	5
U-20*28*6 UNR	20	28	6	7	4
U-20*30*5 UNR	20	30	5	6	4.5
U-22*32*8 UNR	22	32	8	9	4.5
U-22*32*7 UNR	22	32	7	8	4.5
U-22*42*10 UNR	22	42	10	11	6
U-22*34*10 UNR	22	34	10	11	5
U-22*32*6 UNR	22	32	6	7	4.5
U-22*40*10 UNR	22	40	10	11	6
U-22.4*32.4*8 UNR	22.4	32.4	8	9	4.5
U-22*30*8 UNR	22	30	8	9	4
U-22.4*30*5 UNR	22.4	30	5	6	3.5
U-22*33*5.5 UNR	22	33	5.5	6.5	5
U-22*38*6 UNR	22	38	6	7	6
U-22*30*5 UNR	22	30	5	6	4
U-22*38*10 UNR	22	38	10	11	6
U-22*32*10 UNR	22	32	10	11	4.5
U-22*32*5 UNR	22	32	5	6	4.5
U-22*30*10 UNR	22	30	10	11	4
U-22*46*12 UNR	22	46	12	13	7
U-22*34*6 UNR	22	34	6	7	5
U-22*30*6 UNR	22	30	6	7	4

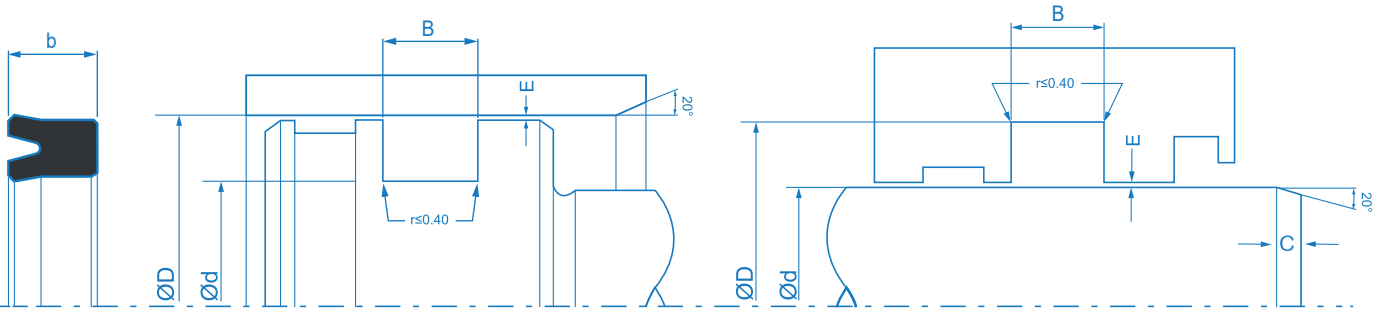
UNR



NO.	Ød	ØD	b	B	C
U-23*35*7 UNR	23	35	7	8	5
U-23.5*31.5*5 UNR	23.5	31.5	5	6	4
U-24*34*5 UNR	24	34	5	6	4.5
U-24*32*4 UNR	24	32	4	4.5	4
U-24*40*8 UNR	24	40	8	9	6
U-24*32*8 UNR	24	32	8	9	4
U-24*32*5 UNR	24	32	5	6	4
U-24*34*4 UNR	24	34	4	4.5	4.5
U-24.5*32*5 UNR	24.5	32	5	6	3.5
U-25*40*10 UNR	25	40	10	11	5.5
U-25*33*4 UNR	25	33	4	4.5	4
U-25*35*10 UNR	25	35	10	11	4.5
U-25*36*6.9 UNR	25	36	6.9	7.9	5
U-25*35*5 UNR	25	35	5	6	4.5
U-25*35*7 UNR	25	35	7	8	4.5
U-25*35*8 UNR	25	35	8	9	4.5
U-25*37*7 UNR	25	37	7	8	5
U-25*38*9 UNR	25	38	9	10	5
U-25*45*10 UNR	25	45	10	11	6
U-25*32*7 UNR	25	32	7	8	3.5
U-25*33*6.5 UNR	25	33	6.5	7.5	4
U-25*38*7 UNR	25	38	7	8	5
U-25*33*6 UNR	25	33	6	7	4
U-25*33*5.5 UNR	25	33	5.5	6.5	4
U-25*40*7.5 UNR	25	40	7.5	8.5	5.5
U-25.4*31.75*6.35 UNR	25.4	31.75	6.35	7.35	3

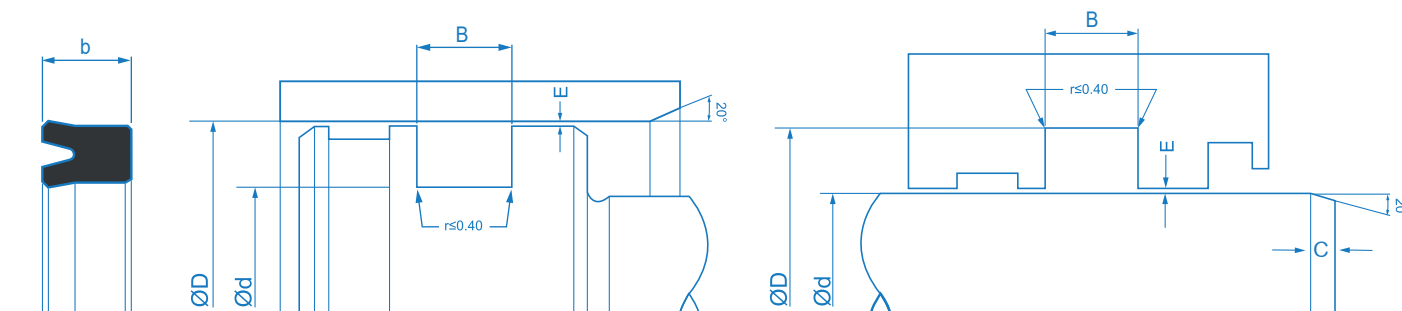
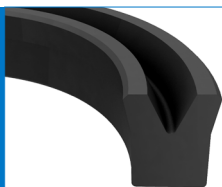


UNR

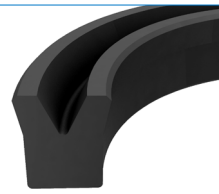


NO.	Ød	ØD	b	B	C
U-25*38*6 UNR	25	38	6	7	5
U-25*32*5 UNR	25	32	5	6	3.5
U-25*31*3 UNR	25	31	3	3.5	3
U-25*38*10 UNR	25	38	10	11	5
U-25*50*12 UNR	25	50	12	13	7
U-25*32*4 UNR	25	32	4	4.5	3.5
U-25*33*7 UNR	25	33	7	8	4
U-25*40*11 UNR	25	40	11	12	5.5
U-25*35*6 UNR	25	35	6	7	4.5
U-25*33*5 UNR	25	33	5	6	4
U-26*42*8 UNR	26	42	8	9	6
U-27*35*4 UNR	27	35	4	4.5	4
U-27*38*6 UNR	27	38	6	7	5
U-27*36*6 UNR	27	36	6	7	4
U-28*32.8*3 UNR	28	32.8	3	3.5	2
U-28*43*10 UNR	28	43	10	11	5.5
U-28*36*6 UNR	28	36	6	7	4
U-28*36*5 UNR	28	36	5	6	4
U-28*38*10 UNR	28	38	10	11	4.5
U-28*44*8 UNR	28	44	8	9	6
U-28*40*8 UNR	28	40	8	9	5
U-28*36*8 UNR	28	36	8	9	4
U-28*33*6 UNR	28	33	6	7	2.5
U-28*38*8 UNR	28	38	8	9	4.5
U-28*35.5*5 UNR	28	35.5	5	6	3.5
U-28*35*5 UNR	28	35	5	6	3.5

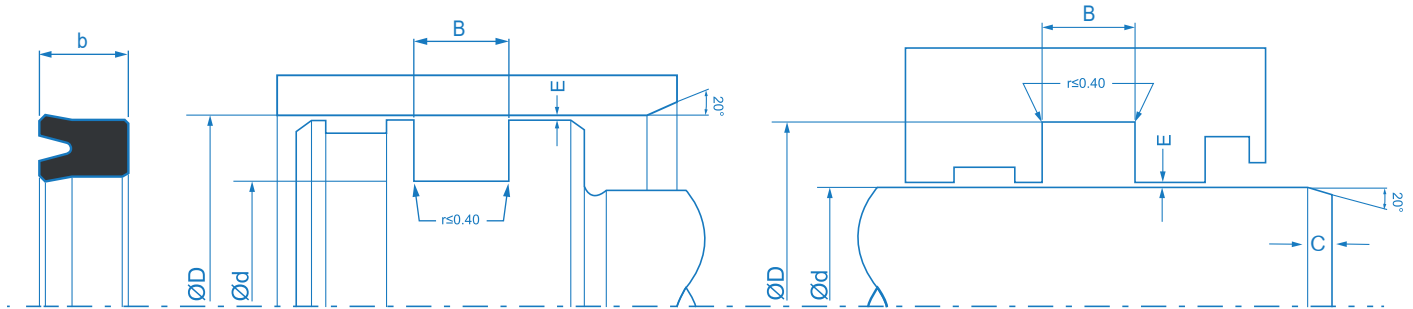
UNR



NO.	Ød	ØD	b	B	C
U-28*40*10 UNR	28	40	10	11	5
U-28*38*7 UNR	28	38	7	8	4.5
U-28*33*3 UNR	28	33	3	3.5	2.5
U-28*36*10 UNR	28	36	10	11	5
U-28*38*5 UNR	28	38	5	6	4.5
U-28*48*8.5 UNR	28	48	8.5	9.5	6
U-28*36*4 UNR	28	36	4	4.5	4
U-28*40*6 UNR	28	40	6	7	5
U-28*48*10 UNR	28	48	10	11	6
U-28*48*12 UNR	28	48	12	13	6
U-28*35*6 UNR	28	35	6	7	3.5
U-30*45*10 UNR	30	45	10	11	5.5
U-30*40*10 UNR	30	40	10	11	4.5
U-30*38*5.5 UNR	30	38	5.5	6.5	4
U-30*40*6 UNR	30	40	6	7	4.5
U-30*37*6 UNR	30	37	6	7	3.5
U-30*38*6 UNR	30	38	6	7	4
U-30*36*3 UNR	30	36	3	3.5	3
U-30*45*9 UNR	30	45	9	10	5.5
U-30*50*8 UNR	30	50	8	9	6
U-30*40*5 UNR	30	40	5	6	4.5
U-30*43*10 UNR	30	43	10	11	5
U-30*38*5 UNR	30	38	5	6	4
U-30*37*8 UNR	30	37	8	9	3.5
U-30*40*6.5 UNR	30	40	6.5	7.5	4.5
U-30*38*10 UNR	30	38	10	11	4

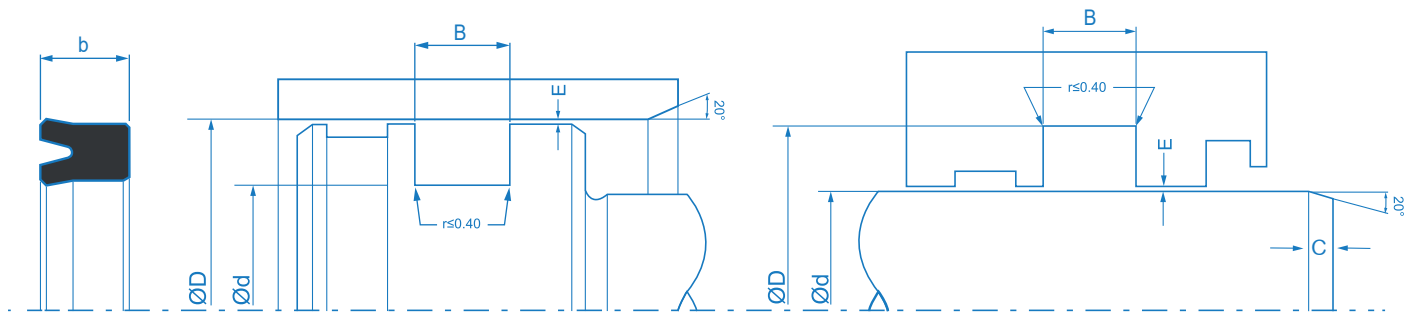
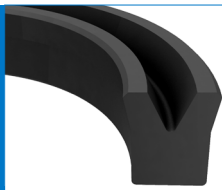


UNR

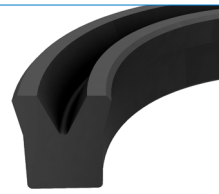


NO.	Ød	ØD	b	B	C
U-30*40*8 UNR	30	40	8	9	4.5
U-30*42*10 UNR	30	42	10	11	5
U-30*50*10 UNR	30	50	10	11	6
U-30*50*12 UNR	30	50	12	13	6
U-30*40*7 UNR	30	40	7	8	4.5
U-30*38*4 UNR	30	38	4	4.5	4
U-31.5*41.5*6 UNR	31.5	41.5	6	7	4.5
U-31.5*46.5*10.2 UNR	31.5	46.5	10.2	11.2	5.5
U-32*47*10 UNR	32	47	10	11	5.5
U-32*40*8 UNR	32	40	8	9	4
U-32*40*5 UNR	32	40	5	6	4
U-32*44*6.35 UNR	32	44	6.35	7.35	5
U-32*40*5.7 UNR	32	40	5.7	6.7	4
U-32*42*8 UNR	32	42	8	9	4.5
U-32*42*7 UNR	32	42	7	8	4.5
U-32*40*10 UNR	32	40	10	11	4
U-32*50*10 UNR	32	50	10	11	6
U-32*42*10 UNR	32	42	10	11	4.5
U-32*44*11.5 UNR	32	44	11.5	12.5	5
U-32*38*6 UNR	32	38	6	7	3
U-32*52*10 UNR	32	52	10	11	6
U-32*44*6 UNR	32	44	6	7	5
U-32*45*8 UNR	32	45	8	9	5
U-32*48*10 UNR	32	48	10	11	6
U-32*42*6 UNR	32	42	6	7	4.5
U-32*45*10 UNR	32	45	10	11	5

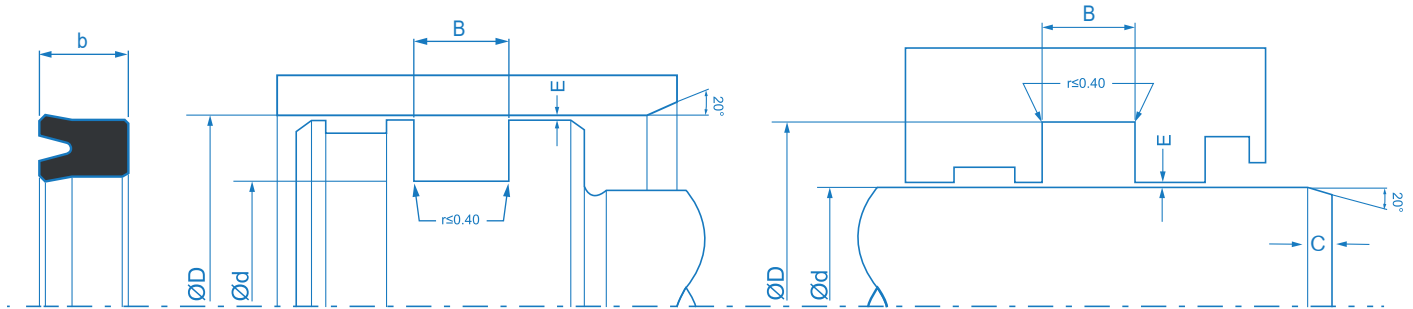
UNR



NO.	Ød	ØD	b	B	C
U-32*50*12 UNR	32	50	12	13	6
U-32*40*4 UNR	32	40	4	4.5	4
U-33*43*6 UNR	33	43	6	7	4.5
U-33*43*10 UNR	33	43	10	11	4.5
U-33*40*4 UNR	33	40	4	4.5	3.5
U-33*45*10 UNR	33	45	10	11	5
U-34*44*5 UNR	34	44	5	6	4.5
U-34*44*9 UNR	34	44	9	10	4.5
U-34*42*10 UNR	34	42	10	11	5
U-35*50*10 UNR	35	50	10	11	5.5
U-35*43*6 UNR	35	43	6	7	4
U-35*45*8 UNR	35	45	8	9	4.5
U-35*45*7 UNR	35	45	7	8	4.5
U-35.5*45*6 UNR	35.5	45	6	7	4
U-35*46*8 UNR	35	46	8	9	5
U-35*48*8 UNR	35	48	8	9	5
U-35*48*10 UNR	35	48	10	11	5
U-35*42*4 UNR	35	42	4	4.5	3.5
U-35*43*7 UNR	35	43	7	8	4
U-35*45*6 UNR	35	45	6	7	4.5
U-35*47*6 UNR	35	47	6	7	5
U-35*50*7.5 UNR	35	50	7.5	8.5	5.5
U-35*45*10 UNR	35	45	10	11	4.5
U-35*55*10 UNR	35	55	10	11	6
U-35*55*12 UNR	35	55	12	13	6
U-35*52*12 UNR	35	52	12	13	6

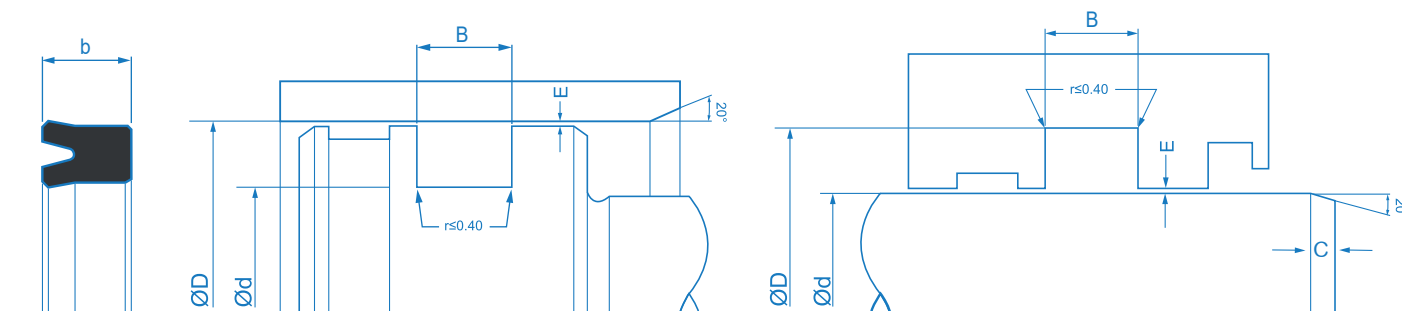
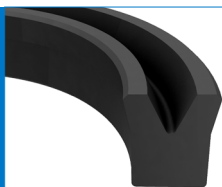


UNR

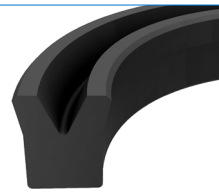


NO.	Ød	ØD	b	B	C
U-35*50*8 UNR	35	50	8	9	5.5
U-36*51*10 UNR	36	51	10	11	5.5
U-36*51*7.1 UNR	36	51	7.1	8.1	5.5
U-36*48*10 UNR	36	48	10	11	5
U-36*44*5.7 UNR	36	44	5.7	6.7	4
U-36*44*8 UNR	36	44	8	9	4
U-36*50*8 UNR	36	50	8	9	5.5
U-36*46*7 UNR	36	46	7	8	4.5
U-36*48*6 UNR	36	48	6	7	5
U-36*46*6 UNR	36	46	6	7	4.5
U-36*44*4 UNR	36	44	4	4.5	4
U-36*46*5 UNR	36	46	5	6	4.5
U-36*43*6 UNR	36	43	6	7	3.5
U-36*46*8 UNR	36	46	8	9	4.5
U-38*52.5*9.5 UNR	38	52.5	9.5	10.5	5.5
U-38*55*10 UNR	38	55	10	11	6
U-38*45*5 UNR	38	45	5	6	5.5
U-38*45*6 UNR	38	45	6	7	3.5
U-38*48*7.5 UNR	38	48	7.5	8.5	4.5
U-38*48*8 UNR	38	48	8	9	4.5
U-38*45*9 UNR	38	45	9	10	3.5
U-38*58*10 UNR	38	58	10	11	6
U-38*50*6 UNR	38	50	6	7	5
U-38*50*10 UNR	38	50	10	11	5
U-38.1*50.8*6.35 UNR	38.1	50.8	6.35	7.35	5
U-38.1*50.8*7.14 UNR	38.1	50.8	7.14	8.14	5

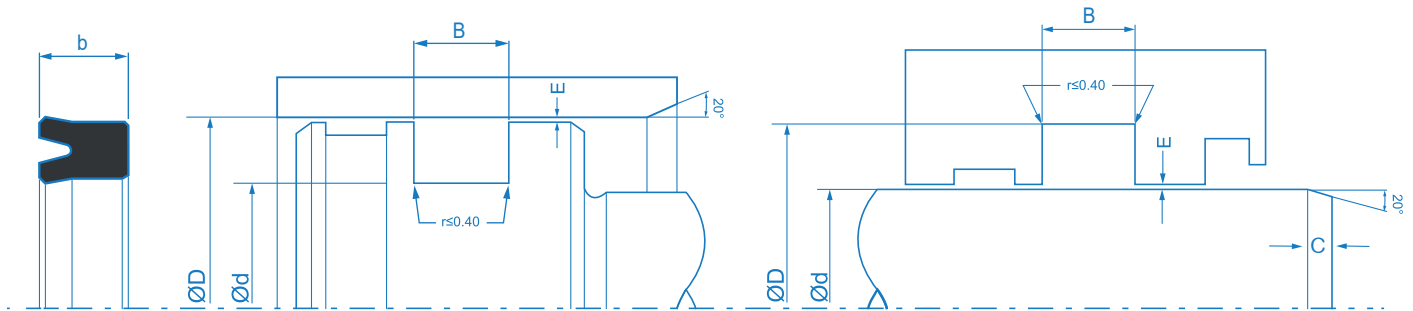
UNR



NO.	Ød	ØD	b	B	C
U-38*50*9 UNR	38	50	9	10	5
U-38*48*6 UNR	38	48	6	7	4.5
U-38.1*47.62*6.35 UNR	38.1	47.62	6.35	7.35	4
U-39*58*10 UNR	39	58	10	11	6
U-40*55*10 UNR	40	55	10	11	5.5
U-40*50*6 UNR	40	50	6	7	4.5
U-40*52*12 UNR	40	52	12	13	5
U-40*60*10 UNR	40	60	10	11	6
U-40*60*12 UNR	40	60	12	13	6
U-40*50*9 UNR	40	50	9	10	4.5
U-40*50*7 UNR	40	50	7	8	4.5
U-40*56*10 UNR	40	56	10	11	6
U-40*56*6 UNR	40	56	6	7	6
U-40*48*8 UNR	40	48	8	9	4
U-40*59*10 UNR	40	59	10	11	6
U-40*55*10.5 UNR	40	55	10.5	11.5	5.5
U-40*50*5 UNR	40	50	5	6	4.5
U-40*55*8 UNR	40	55	8	9	5.5
U-40*50*11 UNR	40	50	11	12	4.5
U-40*65*12 UNR	40	65	12	13	7
U-40*48*10 UNR	40	48	10	11	4
U-40*55*12 UNR	40	55	12	13	5.5
U-40*52*10 UNR	40	52	10	11	5
U-40*52*8 UNR	40	52	8	9	5
U-40*50*6.5 UNR	40	50	6.5	7.5	4.5
U-40*62*12 UNR	40	62	12	13	6

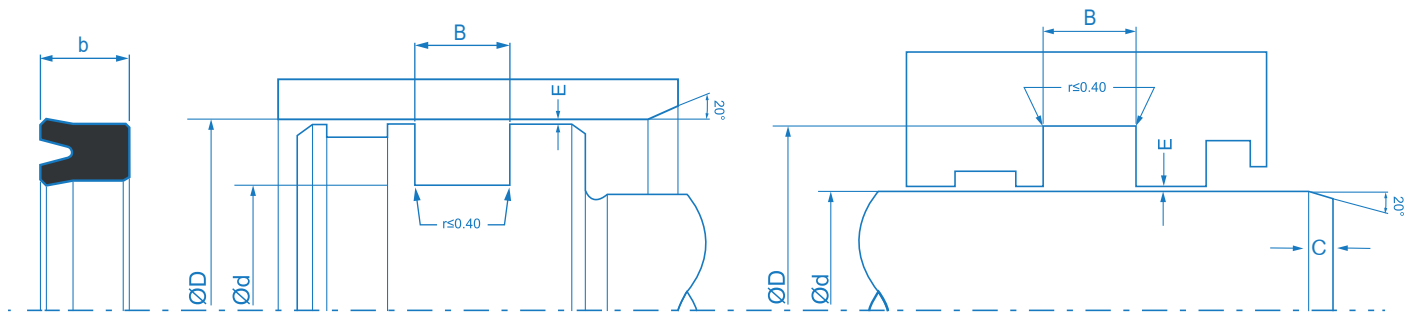
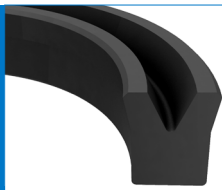


UNR

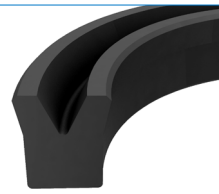


NO.	Ød	ØD	b	B	C
U-40*50*8 UNR	40	50	8	9	4.5
U-40*65*10 UNR	40	65	10	11	7
U-40*56*8 UNR	40	56	8	9	6
U-40*48*11 UNR	40	48	11	12	4
U-40*55*7 UNR	40	55	7	8	5.5
U-40*52*6 UNR	40	52	6	7	5
U-40*50*10 UNR	40	50	10	11	4.5
U-42*50*5 UNR	42	50	5	6	4
U-42*62*12 UNR	42	62	12	13	6
U-42*55*8 UNR	42	55	8	9	5
U-42*57*8 UNR	42	57	8	9	5.5
U-42*50*8 UNR	42	50	8	9	4
U-42*51*11 UNR	42	51	11	12	4
U-42*52*10 UNR	42	52	10	11	4.5
U-42*50*6 UNR	42	50	6	7	4
U-42*52*7 UNR	42	52	7	8	4.5
U-42*53*10 UNR	42	53	10	11	5
U-42*63*10 UNR	42	63	10	11	6
U-43*63*10 UNR	43	63	10	11	6
U-44*57*9 UNR	44	57	9	10	5
U-45*60*10 UNR	45	60	10	11	5.5
U-45*53*7 UNR	45	53	7	8	4
U-45*55*6 UNR	45	55	6	7	4.5
U-45*53*8 UNR	45	53	8	9	4
U-45*62*6 UNR	45	62	6	7	6
U-45*55*8 UNR	45	55	8	9	4.5

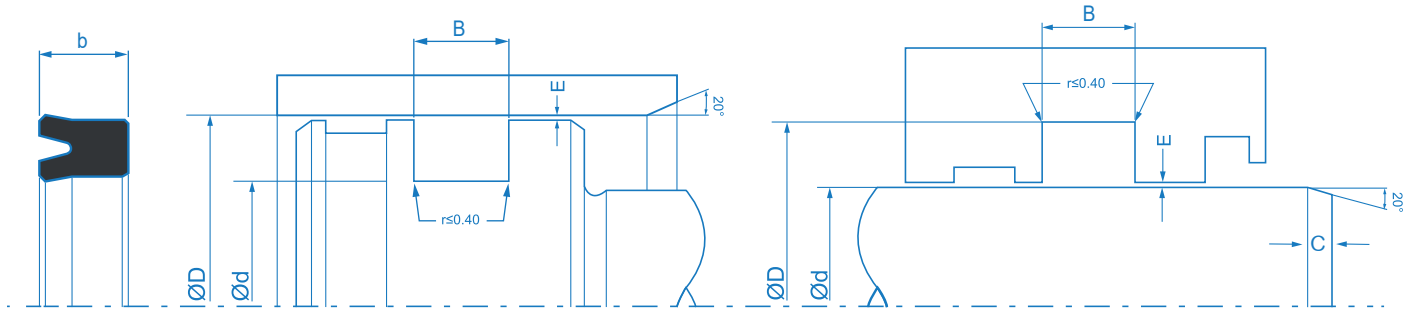
UNR



NO.	$\varnothing d$	$\varnothing D$	b	B	C
U-45*55*7 UNR	45	55	7	8	4.5
U-45*56*7 UNR	45	56	7	8	5
U-45*53*10 UNR	45	53	10	11	4
U-45*56*8 UNR	45	56	8	9	5
U-45*55*10 UNR	45	55	10	11	4.5
U-45*55*6.5 UNR	45	55	6.5	7.5	4.5
U-45*63*10 UNR	45	63	10	11	6
U-45*58*10 UNR	45	58	10	11	5
U-45*57*6 UNR	45	57	6	7	5
U-45*63*12 UNR	45	63	12	13	6
U-45*65*10 UNR	45	65	10	11	6
U-45*65*12 UNR	45	65	12	13	6
U-45*70*12 UNR	45	70	12	13	7
U-46*70*12 UNR	46	70	12	13	7
U-46*56*7 UNR	46	56	7	8	4.5
U-47*65*12 UNR	47	65	12	13	6
U-47.62*63.5*11.5 UNR	47.62	63.5	11.5	12.5	6
U-47.62*57.15*6.35 UNR	47.62	57.15	6.35	7.35	4
U-48*63*12 UNR	48	63	12	13	5.5
U-48*60*9 UNR	48	60	9	10	5
U-48*68*12 UNR	48	68	12	13	6
U-48*58*6.5 UNR	48	58	6.5	7.5	4.5
U-48*68*10 UNR	48	68	10	11	6
U-48*60*6 UNR	48	60	6	7	5
U-48*63*10 UNR	48	63	10	11	5.5
U-48*58*10 UNR	48	58	10	11	4.5

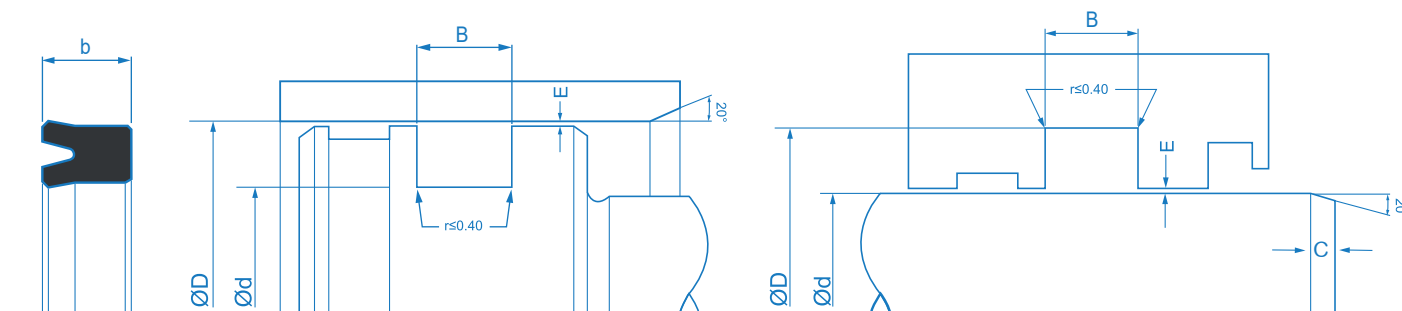
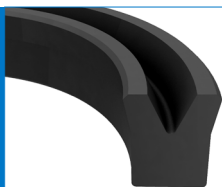


UNR

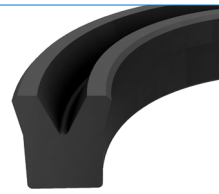


NO.	Ød	ØD	b	B	C
U-48*60*10 UNR	48	60	10	11	5
U-50*65*10 UNR	50	65	10	11	5.5
U-50*60*10 UNR	50	60	10	11	4.5
U-50*62*9 UNR	50	62	9	10	5
U-50*60*5 UNR	50	60	5	6	4.5
U-50*63*8 UNR	50	63	8	9	5
U-50*63*9 UNR	50	63	9	10	5
U-50*65*12 UNR	50	65	12	13	5.5
U-50*68*12 UNR	50	68	12	13	6
U-50*70*8 UNR	50	70	8	9	6
U-50*70*10 UNR	50	70	10	11	6
U-50*70*12 UNR	50	70	12	13	6
U-50.8*63.5*9.52 UNR	50.8	63.5	9.52	10.52	5
U-50*60*8 UNR	50	60	8	9	4.5
U-50.8*60.3*4.76 UNR	50.8	60.3	4.76	5.76	4
U-50*65*9 UNR	50	65	9	10	5.5
U-50*63*10 UNR	50	63	10	11	5
U-50*63*7 UNR	50	63	7	8	5
U-50*68*8 UNR	50	68	8	9	6
U-50*60*6.5 UNR	50	60	6.5	7.5	4.5
U-50.8*63.5*6.35 UNR	50.8	63.5	6.35	7.35	5
U-50.8*66.67*7.92 UNR	50.8	66.67	7.92	8.92	6
U-50*58*8 UNR	50	58	8	9	4
U-50*60*6 UNR	50	60	6	7	4.5
U-50*60*12 UNR	50	60	12	13	4.5
U-50*60*7 UNR	50	60	7	8	4.5

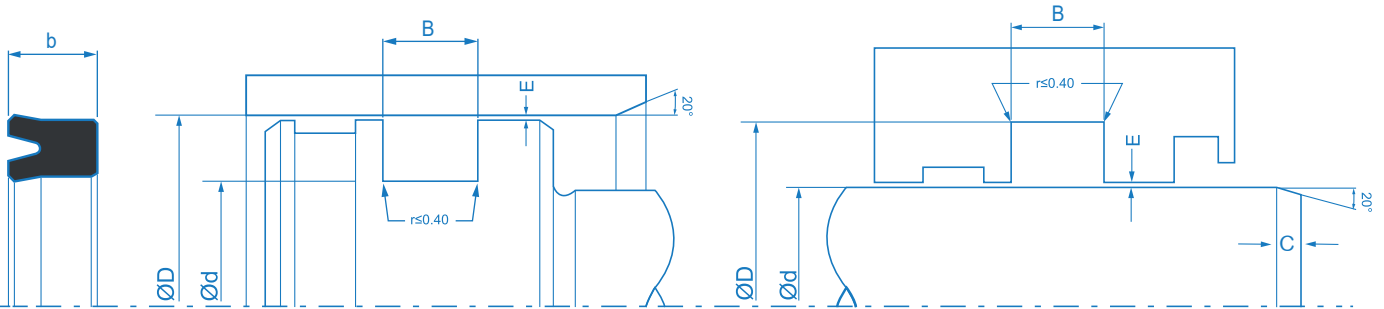
UNR



NO.	Ød	ØD	b	B	C
U-50*57*10 UNR	50	57	10	11	3.5
U-50*63*6 UNR	50	63	6	7	5
U-50*62*6 UNR	50	62	6	7	5
U-52*62*12 UNR	52	62	12	13	4.5
U-52*62*6 UNR	52	62	6	7	4.5
U-52*72*10 UNR	52	72	10	11	6
U-52*62*7 UNR	52	62	7	8	4.5
U-52*62*8 UNR	52	62	8	9	4.5
U-53*63*12 UNR	53	63	12	13	4.5
U-53*63*7.5 UNR	53	63	7.5	8.5	4.5
U-53*63*6.5 UNR	53	63	6.5	7.5	4.5
U-53*63*6 UNR	53	63	6	7	4.5
U-53*73*12 UNR	53	73	12	13	6
U-53*63*5 UNR	53	63	5	6	4.5
U-53*63*7 UNR	53	63	7	8	4.5
U-53*63*8 UNR	53	63	8	9	4.5
U-55*75*12 UNR	55	75	12	13	6
U-55*65*12 UNR	55	65	12	13	4.5
U-55*65*6 UNR	55	65	6	7	4.5
U-55*67*10 UNR	55	67	10	11	5
U-55*75*10 UNR	55	75	10	11	6
U-55*80*10 UNR	55	80	10	11	7
U-55*65*8 UNR	55	65	8	9	4.5
U-55*63*10 UNR	55	63	10	11	4
U-55*65*6.5 UNR	55	65	6.5	7.5	4.5
U-55*70*9 UNR	55	70	9	10	5.5

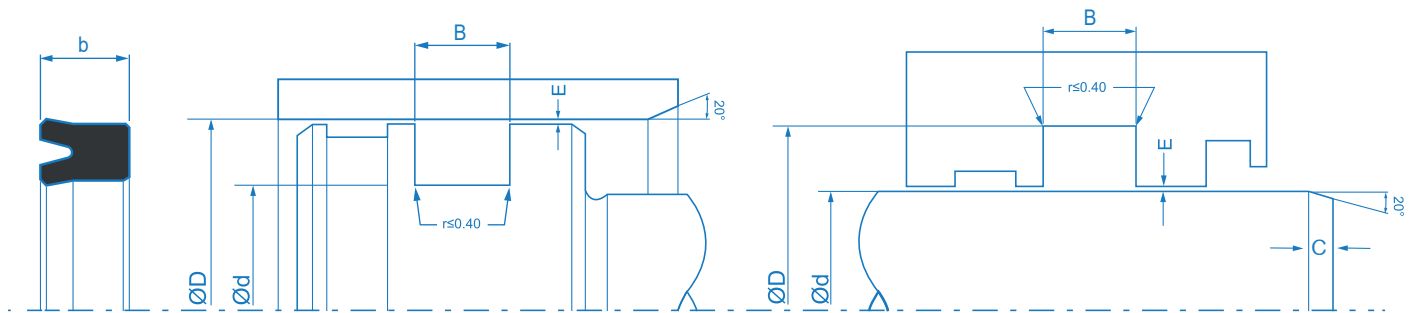
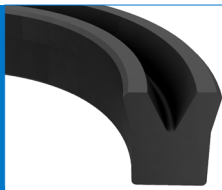


UNR

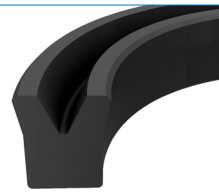


NO.	Ød	ØD	b	B	C
U-55*65*5 UNR	55	65	5	6	4.5
U-55*70*7.5 UNR	55	70	7.5	8.5	5.5
U-55*70*10 UNR	55	70	10	11	5.5
U-55*70*12 UNR	55	70	12	13	5.5
U-55*80*15 UNR	55	80	15	16	7
U-55*80*12 UNR	55	80	12	13	7
U-55*65*10 UNR	55	65	10	11	4.5
U-55*63*8 UNR	55	63	8	9	4
U-56*76*12 UNR	56	76	12	13	6
U-56*80*15 UNR	56	80	15	16	7
U-56*71*10 UNR	56	71	10	11	5.5
U-56*66*5 UNR	56	66	5	6	4.5
U-56*70*12 UNR	56	70	12	13	5.5
U-56*66*6 UNR	56	66	6	7	4.5
U-56*66*10 UNR	56	66	10	11	4.5
U-57.15*69.85*10 UNR	57.15	69.85	10	11	5
U-57.15*76.2*10 UNR	57.15	76.2	10	11	6
U-58*70*6 UNR	58	70	6	7	5
U-58*68*6 UNR	58	68	6	7	4.5
U-60*80*12 UNR	60	80	12	13	6
U-60*80*10 UNR	60	80	10	11	6
U-60*68*8 UNR	60	68	8	9	4
U-60*80*16 UNR	60	80	16	17	6
U-60*71*7 UNR	60	71	7	8	5
U-60.33*73.02*7.95 UNR	60.33	73.02	7.95	8.95	5
U-60*70*8 UNR	60	70	8	9	4.5

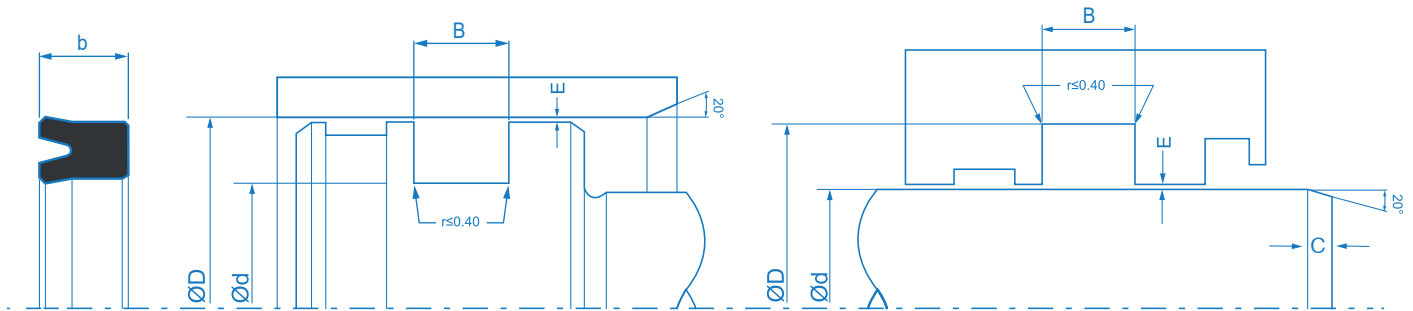
UNR



NO.	Ød	ØD	b	B	C
U-60*70*12 UNR	60	70	12	13	4.5
U-60*75*12 UNR	60	75	12	13	5.5
U-60*70*13 UNR	60	70	13	14	4.5
U-60*70*6 UNR	60	70	6	7	4.5
U-60*70*7 UNR	60	70	7	8	4.5
U-60*75*10 UNR	60	75	10	11	5.5
U-60*70*5 UNR	60	70	5	6	4.5
U-60*70*10 UNR	60	70	10	11	4.5
U-61*80*12 UNR	61	80	12	13	6
U-61*71*6 UNR	61	71	6	7	4.5
U-61*69*8 UNR	61	69	8	9	4
U-63*83*12 UNR	63	83	12	13	6
U-63*72*6 UNR	63	72	6	7	4
U-63*73*8 UNR	63	73	8	9	4.5
U-63*75*10 UNR	63	75	10	11	5
U-63.5*82.55*14.28 UNR	63.5	82.55	14.28	15.28	6
U-63.5*76.2*10.5 UNR	63.5	76.2	10.5	11.5	5
U-63.5*76.2*9.52 UNR	63.5	76.2	9.52	10.52	5
U-63*73*6 UNR	63	73	6	7	4.5
U-63*73*10 UNR	63	73	10	11	4.5
U-63*78*10 UNR	63	78	10	11	5.5
U-63.5*76.2*7.92 UNR	63.5	76.2	7.92	8.92	5
U-65*85*12 UNR	65	85	12	13	6
U-65*80*12 UNR	65	80	12	13	5.5
U-65*85*10 UNR	65	85	10	11	6
U-65*90*12 UNR	65	90	12	13	7

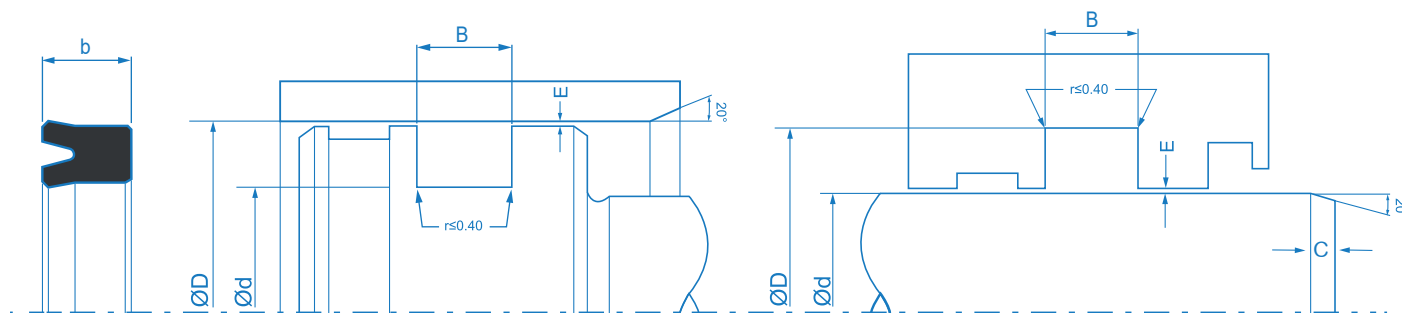
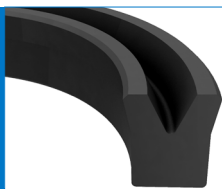


UNR

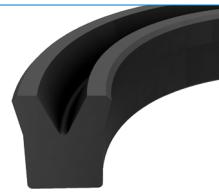


NO.	Ød	ØD	b	B	C
U-65*80*11 UNR	65	80	11	12	5.5
U-65*90*8 UNR	65	90	8	9	7
U-65*90*13 UNR	65	90	13	14	7
U-65*90*15 UNR	65	90	15	16	7
U-65*75*10 UNR	65	75	10	11	4.5
U-65*75*6 UNR	65	75	6	7	4.5
U-65*75*12 UNR	65	75	12	13	4.5
U-65*80*10 UNR	65	80	10	11	5.5
U-66*77*6 UNR	66	77	6	7	5
U-66*76*6 UNR	66	76	6	7	4.5
U-67*77*6 UNR	67	77	6	7	4.5
U-68*76*9 UNR	68	76	9	10	4
U-68*80*12 UNR	68	80	12	13	5
U-68*78*10 UNR	68	78	10	11	4.5
U-70*90*12 UNR	70	90	12	13	6
U-70*80*12 UNR	70	80	12	13	4.5
U-70*82*9.7 UNR	70	82	9.7	10.7	5
U-70*85*6 UNR	70	85	6	7	5.5
U-70*80*6 UNR	70	80	6	7	4.5
U-70*84*10 UNR	70	84	10	11	5.5
U-70*80*10 UNR	70	80	10	11	4.5
U-70*85*10 UNR	70	85	10	11	5.5
U-70*85*8 UNR	70	85	8	9	5.5
U-70*85*7.5 UNR	70	85	7.5	8.5	5.5
U-70*90*15 UNR	70	90	15	16	6
U-70*85*9 UNR	70	85	9	10	5.5

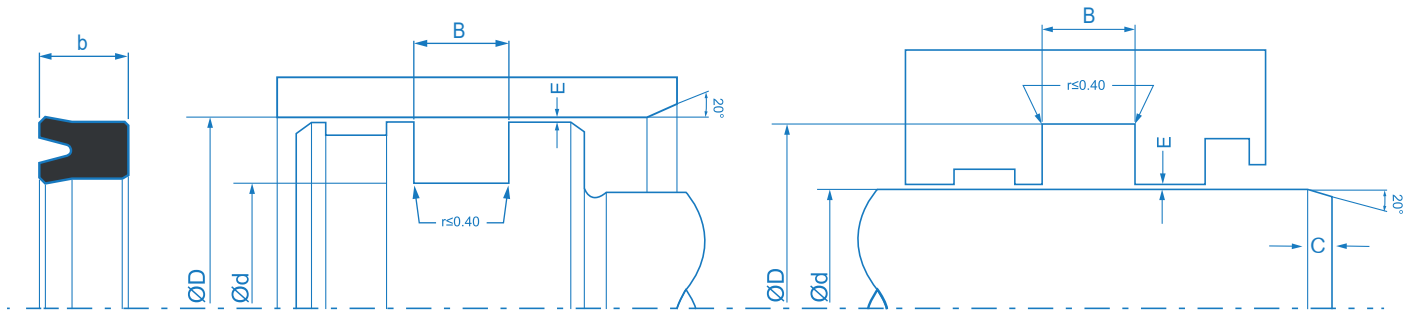
UNR



NO.	Ød	ØD	b	B	C
U-70*80*8 UNR	70	80	8	9	4.5
U-70*82*10 UNR	70	82	10	11	5
U-70*82*9 UNR	70	82	9	10	5
U-70*80*7.5 UNR	70	80	7.5	8.5	4.5
U-70*85*12 UNR	70	85	12	13	5.5
U-70*80*5.5 UNR	70	80	5.5	6.5	4.5
U-70*90*10 UNR	70	90	10	11	6
U-70*80*5 UNR	70	80	5	6	4.5
U-70*80*7 UNR	70	80	7	8	4.5
U-70*78*9 UNR	70	78	9	10	4
U-70*80*6.7 UNR	70	80	6.7	7.7	4.5
U-71*80*6 UNR	71	80	6	7	4
U-72*90*10 UNR	72	90	10	11	6
U-75*95*12 UNR	75	95	12	13	6
U-75*85*12 UNR	75	85	12	13	4.5
U-75*90*12 UNR	75	90	12	13	5.5
U-75*90*10 UNR	75	90	10	11	5.5
U-75*85*7 UNR	75	85	7	8	4.5
U-75*85*6 UNR	75	85	6	7	4.5
U-75*90*9 UNR	75	90	9	10	5.5
U-75*95*10 UNR	75	95	10	11	6
U-75*85*10 UNR	75	85	10	11	4.5
U-76.2*95.25*10 UNR	76.2	95.25	10	11	6
U-76.2*88.9*9.52 UNR	76.2	88.9	9.52	10.52	5
U-76*84*8 UNR	76	84	8	9	4
U-76.2*95.25*12.7 UNR	76.2	95.25	12.7	13.7	6

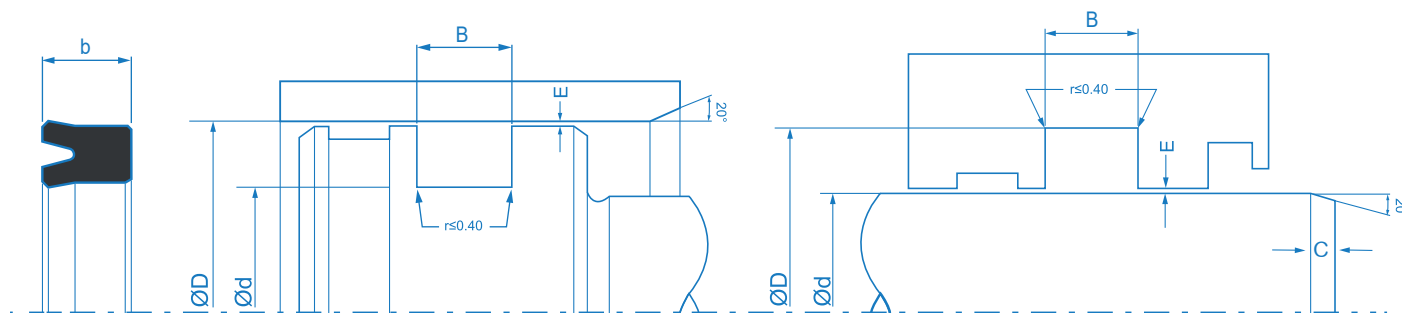
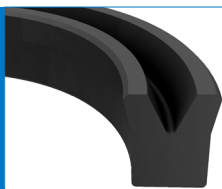


UNR

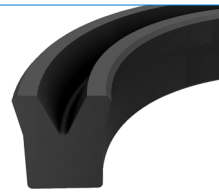


NO.	Ød	ØD	b	B	C
U-76.2*92.07*7.92 UNR	76.2	92.07	7.92	8.92	6
U-80*100*12 UNR	80	100	12	13	6
U-80*90*5.4 UNR	80	90	5.4	6.4	4.5
U-80*90*5 UNR	80	90	5	6	4.5
U-80*90*11 UNR	80	90	11	12	4.5
U-80*95*10 UNR	80	95	10	11	5.5
U-80*90*7 UNR	80	90	7	8	4.5
U-80*100*15 UNR	80	100	15	16	6
U-80*105*15 UNR	80	105	15	16	7
U-80*90*9 UNR	80	90	9	10	4.5
U-80*92*10 UNR	80	92	10	11	5
U-80*90*10 UNR	80	90	10	11	4.5
U-80*95*8 UNR	80	95	8	9	5.5
U-80*95*9 UNR	80	95	9	10	5.5
U-80*95*12 UNR	80	95	12	13	5.5
U-80*90*6 UNR	80	90	6	7	4.5
U-80*90*12 UNR	80	90	12	13	4.5
U-80*100*10 UNR	80	100	10	11	6
U-80*105*10 UNR	80	105	10	11	7
U-82*92*10 UNR	82	92	10	11	4.5
U-82*102*10 UNR	82	102	10	11	6
U-82.55*101.6*14.8 UNR	82.55	101.6	14.8	15.8	6
U-82*95*10 UNR	82	95	10	11	5
U-85*105*12 UNR	85	105	12	13	6
U-85*102*9 UNR	85	102	9	10	6
U-85*95*6 UNR	85	95	6	7	4.5

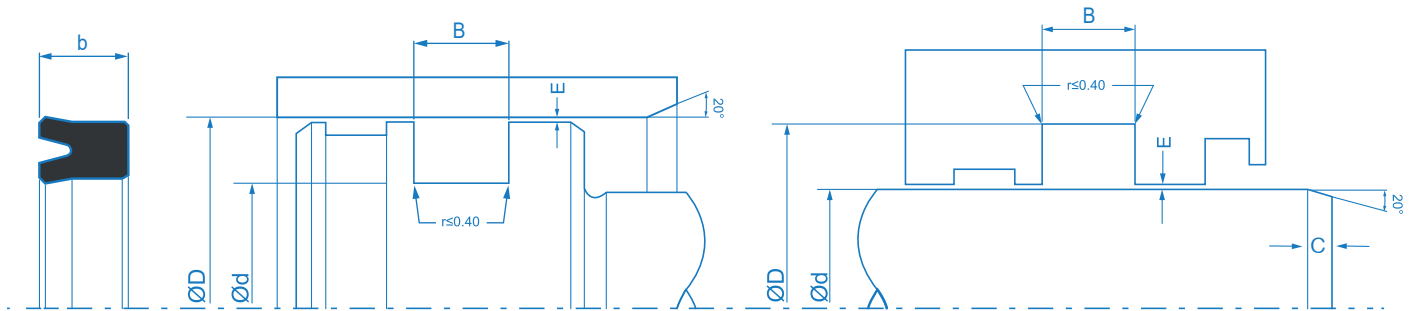
UNR



NO.	Ød	ØD	b	B	C
U-85*105*10 UNR	85	105	10	11	6
U-85*95*8.5 UNR	85	95	8.5	9.5	4.5
U-85*95*9 UNR	85	95	9	10	4.5
U-85*110*12 UNR	85	110	12	13	7
U-85*100*9 UNR	85	100	9	10	5.5
U-85*100*25 UNR	85	100	25	26	5.5
U-85*100*12 UNR	85	100	12	13	5.5
U-85*95*10 UNR	85	95	10	11	4.5
U-85*100*10 UNR	85	100	10	11	5.5
U-85*105*15 UNR	85	105	15	16	6
U-86*96*6 UNR	86	96	6	7	4.5
U-88.8*100.5*9.5 UNR	88.8	100.5	9.5	10.5	5.5
U-88.8*103.35*12 UNR	88.8	103.35	12	13	5.5
U-88.9*107.95*12.7 UNR	88.9	107.95	12.7	13.7	6
U-88*98*6 UNR	88	98	6	7	4.5
U-90*110*12 UNR	90	110	12	13	6
U-90*100*6.8 UNR	90	100	6.8	7.8	4.5
U-90*100*10 UNR	90	100	10	11	4.5
U-90*105*10 UNR	90	105	10	11	5.5
U-90*100*12 UNR	90	100	12	13	4.5
U-90*100*5 UNR	90	100	5	6	4.5
U-90*120*15 UNR	90	120	15	16	7
U-90*105*9 UNR	90	105	9	10	5.5
U-90*100*8 UNR	90	100	8	9	4.5
U-90*110*10 UNR	90	110	10	11	6
U-90*110*15 UNR	90	110	15	16	6

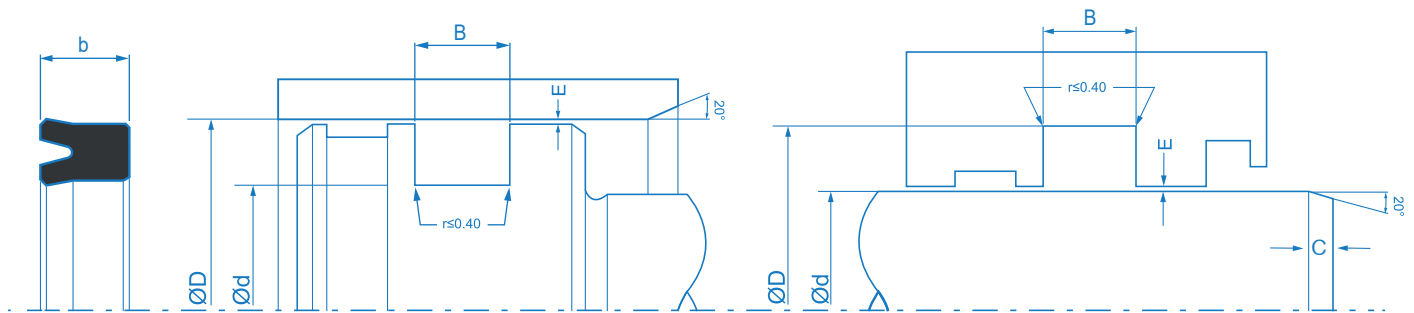
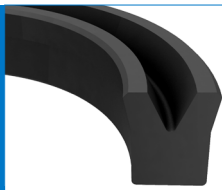


UNR

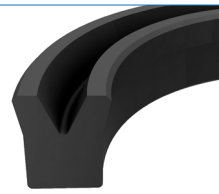


NO.	Ød	ØD	b	B	C
U-90*115*12 UNR	90	115	12	13	7
U-90*105*12 UNR	90	105	12	13	5.5
U-90*100*6 UNR	90	100	6	7	4.5
U-95*110*10 UNR	95	110	10	11	5.5
U-95*115*12 UNR	95	115	12	13	6
U-95*115*15 UNR	95	115	15	16	6
U-95*120*12 UNR	95	120	12	13	7
U-95*110*9 UNR	95	110	9	10	5.5
U-95*110*12 UNR	95	110	12	13	5.5
U-95*125*15 UNR	95	125	15	16	7
U-96*105*11 UNR	96	105	11	12	4
U-98*112*9 UNR	98	112	9	10	5.5
U-100*125*15 UNR	100	125	15	16	7
U-100*120*12 UNR	100	120	12	13	6
U-100*115*10 UNR	100	115	10	11	5.5
U-100*115*13 UNR	100	115	13	14	5.5
U-100*120*10 UNR	100	120	10	11	6
U-100*125*12 UNR	100	125	12	13	7
U-100*120*15 UNR	100	120	15	16	6
U-100*130*18 UNR	100	130	18	19	7
U-100*113*12.5 UNR	100	113	12.5	13.5	5
U-100*110*5 UNR	100	110	5	6	4.5
U-100*130*15 UNR	100	130	15	16	7
U-100*110*8 UNR	100	110	8	9	4.5
U-100*115*12 UNR	100	115	12	13	5.5
U-100*115*9 UNR	100	115	9	10	5.5

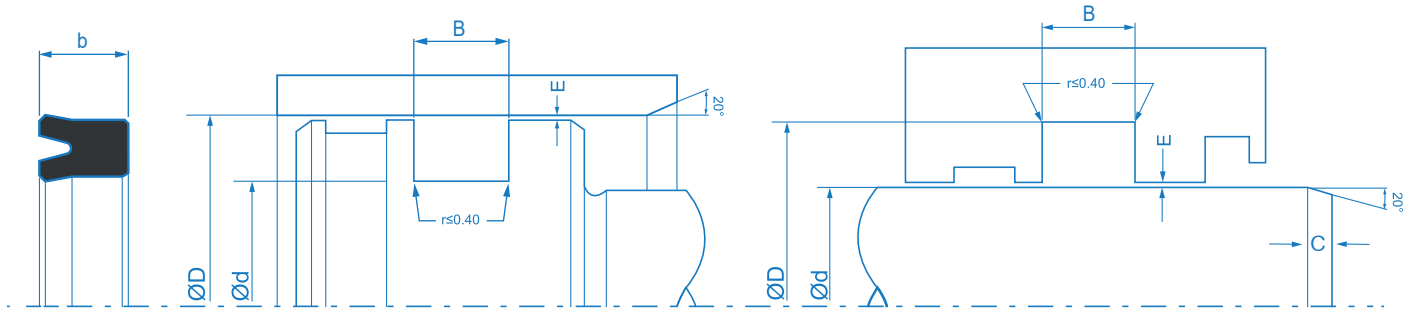
UNR



NO.	Ød	ØD	b	B	C
U-101.5*114.3*9.5 UNR	101.5	114.3	9.5	10.5	5
U-101.6*127*19.5 UNR	101.6	127	19.5	20.5	7
U-105*130*15 UNR	105	130	15	16	7
U-105*120*8 UNR	105	120	8	9	5.5
U-105*120*11 UNR	105	120	11	12	5.5
U-105*130*18 UNR	105	130	18	19	7
U-105*120*12 UNR	105	120	12	13	5.5
U-105*120*15 UNR	105	120	15	16	5.5
U-105*125*12 UNR	105	125	12	13	6
U-105*125*15 UNR	105	125	15	16	6
U-105*115*12 UNR	105	115	12	13	4.5
U-105*120*9 UNR	105	120	9	10	5.5
U-105*125*10 UNR	105	125	10	11	6
U-106*120*8.5 UNR	106	120	8.5	9.5	5.5
U-106*120*9 UNR	106	120	9	10	5.5
U-107*130*15 UNR	107	130	15	16	7
U-110*135*18 UNR	110	135	18	19	7
U-110*120*8 UNR	110	120	8	9	4.5
U-110*135*12 UNR	110	135	12	13	7
U-110*140*18 UNR	110	140	18	19	7
U-110*125*12 UNR	110	125	12	13	5.5
U-110*130*10 UNR	110	130	10	11	6
U-110*130*15 UNR	110	130	15	16	6
U-110*130*12 UNR	110	130	12	13	6
U-110*130*11.5 UNR	110	130	11.5	12.5	6
U-110*130*18 UNR	110	130	18	19	6

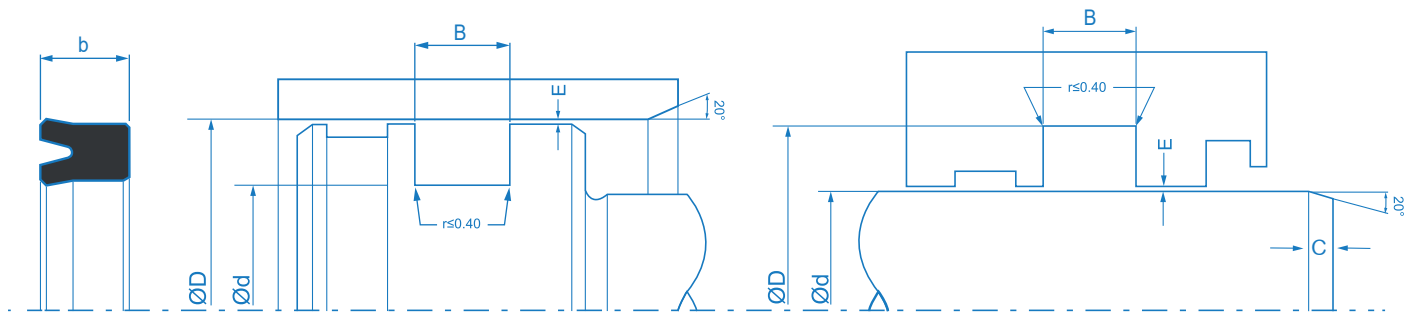
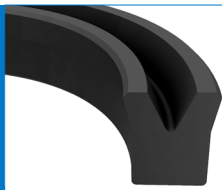


UNR

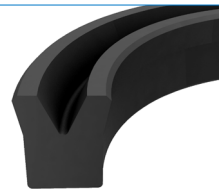


NO.	Ød	ØD	b	B	C
U-110*125*9 UNR	110	125	9	10	5.5
U-112*125*9 UNR	112	125	9	10	5
U-112*125*8.5 UNR	112	125	8.5	9.5	5
U-114.8*125*5.7 UNR	114.8	125	5.7	6.7	4.5
U-115*140*18 UNR	115	140	18	19	7
U-115*125*8 UNR	115	125	8	9	4.5
U-115*130*15 UNR	115	130	15	16	5.5
U-115*135*15 UNR	115	135	15	16	6
U-115*130*10 UNR	115	130	10	11	5.5
U-115*125*15 UNR	115	125	15	16	4.5
U-115*130*9 UNR	115	130	9	10	5.5
U-115*140*15 UNR	115	140	15	16	7
U-115*125*12 UNR	115	125	12	13	4.5
U-115*145*15 UNR	115	145	15	16	7
U-115*145*12 UNR	115	145	12	13	7
U-118.07*127*5.9 UNR	118.07	127	5.9	6.9	4.5
U-118*132*8.5 UNR	118	132	8.5	9.5	5.5
U-120*145*18 UNR	120	145	18	19	7
U-120*150*15 UNR	120	150	15	16	7
U-120*135*15 UNR	120	135	15	16	5.5
U-120*132*10 UNR	120	132	10	11	5
U-120*150*18 UNR	120	150	18	19	7
U-120*140*10 UNR	120	140	10	11	6
U-120*130*7 UNR	120	130	7	8	4.5
U-120*140*15 UNR	120	140	15	16	6
U-120*128*6 UNR	120	128	6	7	4

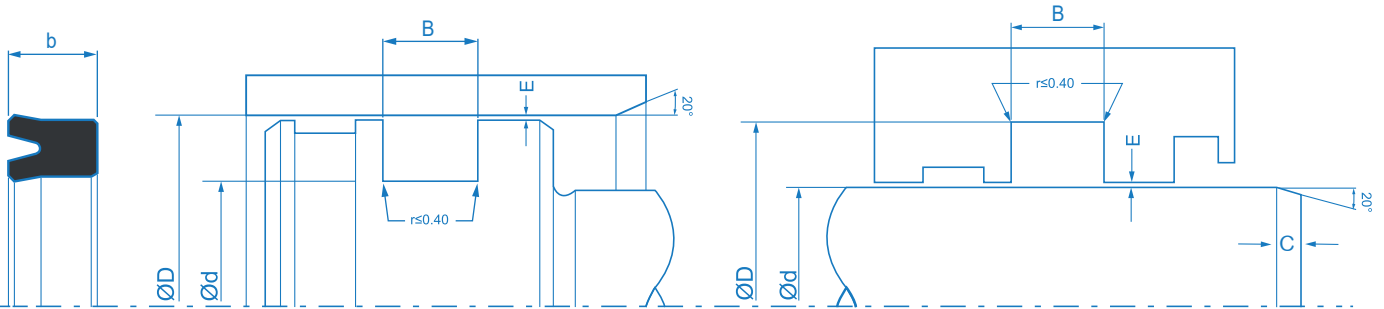
UNR



NO.	Ød	ØD	b	B	C
U-120*140*12 UNR	120	140	12	13	6
U-120*135*9 UNR	120	135	9	10	5.5
U-125*155*18 UNR	125	155	18	19	7
U-125*150*18 UNR	125	150	18	19	7
U-125*140*11 UNR	125	140	11	12	5.5
U-125*145*15 UNR	125	145	15	16	6
U-125*145*10 UNR	125	145	10	11	6
U-125*140*9 UNR	125	140	9	10	5.5
U-125*140*8.5 UNR	125	140	8.5	9.5	5.5
U-125*155*15 UNR	125	155	15	16	7
U-127*151*16 UNR	127	151	16	17	7
U-127*152.4*19.5 UNR	127	152.4	19.5	20.5	7
U-130*150*15 UNR	130	150	15	16	6
U-130*160*18 UNR	130	160	18	19	7
U-130*140*8 UNR	130	140	8	9	4.5
U-130*152*13 UNR	130	152	13	14	6
U-130*160*12 UNR	130	160	12	13	7
U-130*160*15 UNR	130	160	15	16	7
U-130*145*9 UNR	130	145	9	10	5.5
U-130*140*5 UNR	130	140	5	6	4.5
U-130*150*16 UNR	130	150	16	17	6
U-135*150*15 UNR	135	150	15	16	5.5
U-135*165*15 UNR	135	165	15	16	7
U-135*150*9 UNR	135	150	9	10	5.5
U-136*150*9 UNR	136	150	9	10	5.5
U-137.5*152*10.9 UNR	137.5	152	10.9	11.9	5.5

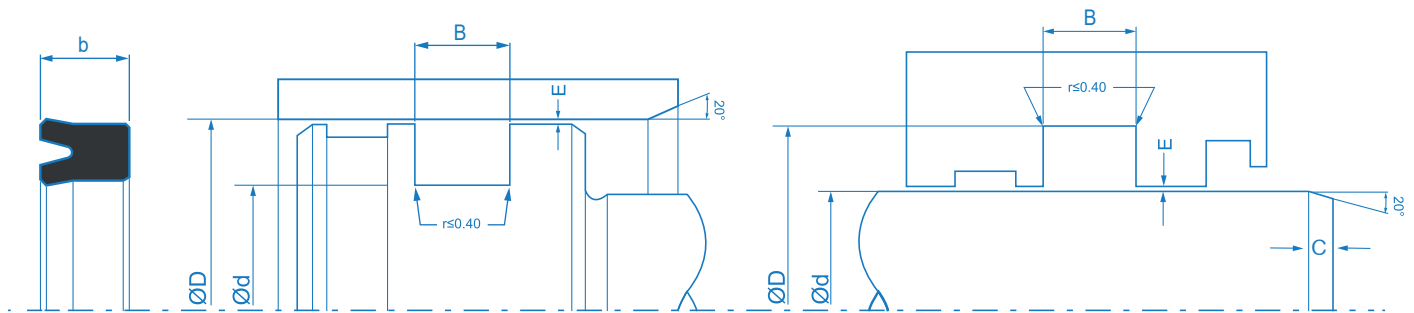
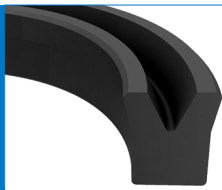


UNR

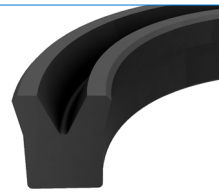


NO.	Ød	ØD	b	B	C
U-140*170*18 UNR	140	170	18	19	7
U-140*160*15 UNR	140	160	15	16	6
U-140*160*16 UNR	140	160	16	17	6
U-140*160*8 UNR	140	160	8	9	6
U-140*160*10 UNR	140	160	10	11	6
U-140*165*18 UNR	140	165	18	19	7
U-140*155*9 UNR	140	155	9	10	5.5
U-140*160*12 UNR	140	160	12	13	6
U-140*150*6 UNR	140	150	6	7	4.5
U-140*165*15 UNR	140	165	15	16	7
U-145*160*8 UNR	145	160	8	9	5.5
U-145*170*18 UNR	145	170	18	19	7
U-145*175*18 UNR	145	175	18	19	7
U-145*160*9 UNR	145	160	9	10	5.5
U-150*180*18 UNR	150	180	18	19	7
U-150*170*15 UNR	150	170	15	16	6
U-150*180*15 UNR	150	180	15	16	7
U-150*170*12 UNR	150	170	12	13	6
U-150*165*9 UNR	150	165	9	10	5.5
U-150*165*10 UNR	150	165	10	11	5.5
U-151*163*12.7 UNR	151	163	12.7	13.7	5.5
U-152.4*177.8*19.5 UNR	152.4	177.8	19.5	20.5	7
U-155*175*14 UNR	155	175	14	15	6
U-155*175*15 UNR	155	175	15	16	6
U-155*170*9 UNR	155	170	9	10	5.5
U-160*190*22 UNR	160	190	22	23	7

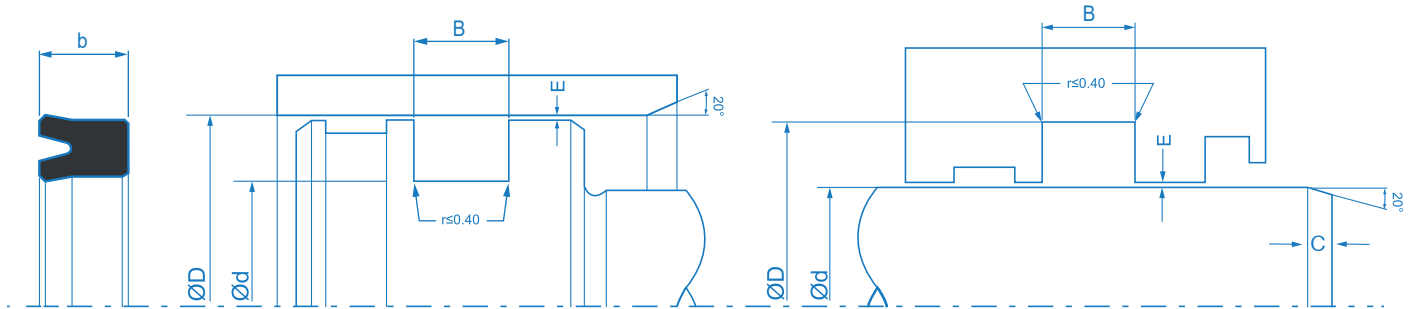
UNR



NO.	Ød	ØD	b	B	C
U-160*180*15 UNR	160	180	15	16	6
U-160*195*17 UNR	160	195	17	18	9
U-160*175*9 UNR	160	175	9	10	5.5
U-160*185*15 UNR	160	185	15	16	7
U-165*185*15 UNR	165	185	15	16	6
U-165*195*20 UNR	165	195	20	21	7
U-165*180*9 UNR	165	180	9	10	5.5
U-165*180*15 UNR	165	180	15	16	5.5
U-170*200*15 UNR	170	200	15	16	7
U-170*200*22 UNR	170	200	22	23	7
U-170*190*15 UNR	170	190	15	16	6
U-170*190*10 UNR	170	190	10	11	6
U-170*185*9 UNR	170	185	9	10	5.5
U-170*200*18 UNR	170	200	18	19	7
U-175*215*20 UNR	175	215	20	21	9
U-175*200*16 UNR	175	200	16	17	7
U-175*200*15 UNR	175	200	15	16	7
U-175*195*15 UNR	175	195	15	16	6
U-175*190*9 UNR	175	190	9	10	5.5
U-180*210*22 UNR	180	210	22	23	7
U-180*200*15 UNR	180	200	15	16	6
U-180*205*15 UNR	180	205	15	16	7
U-180*200*12 UNR	180	200	12	13	6
U-185*195*12 UNR	185	195	12	13	4.5
U-185*200*9 UNR	185	200	9	10	5.5
U-190*220*25 UNR	190	220	25	26	7

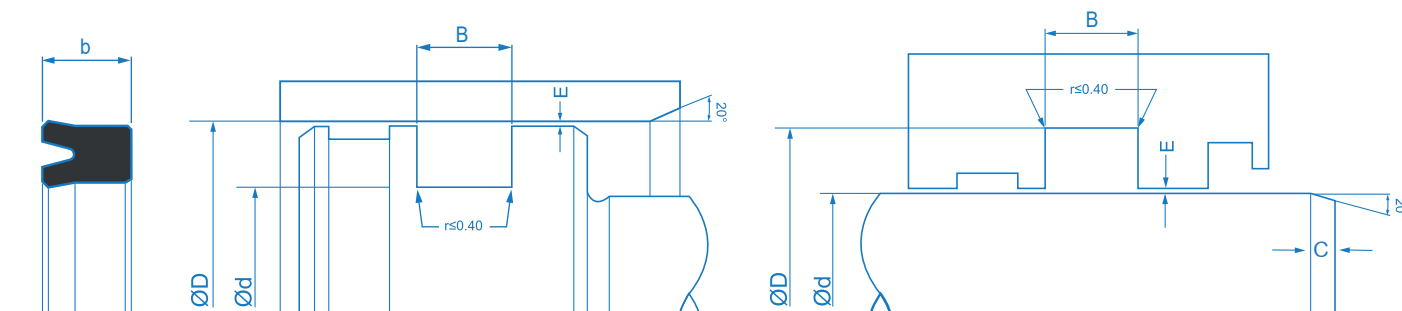
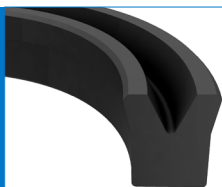


UNR

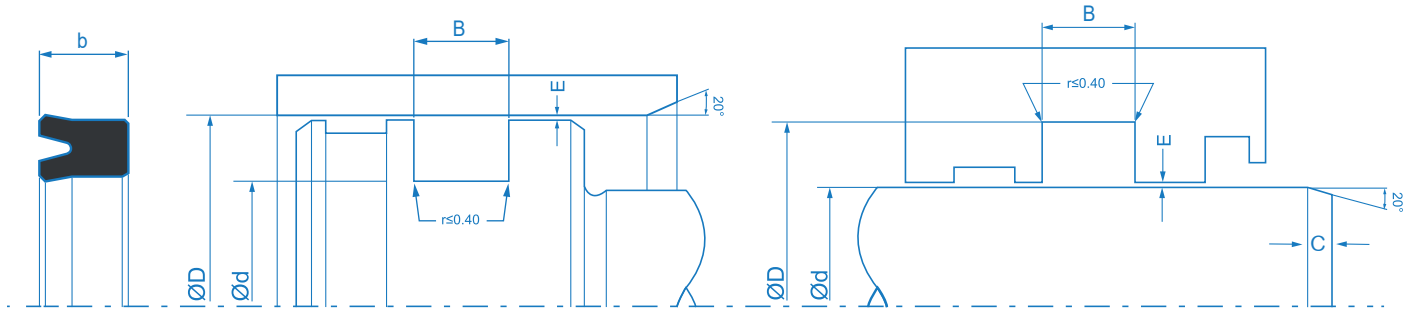


NO.	Ød	ØD	b	B	C
U-190*210*15 UNR	190	210	15	16	6
U-190*215*20 UNR	190	215	20	21	7
U-190*210*12 UNR	190	210	12	13	6
U-190*206*20 UNR	190	206	20	21	6
U-200*230*22 UNR	200	230	22	23	7
U-200*240*20 UNR	200	240	20	21	9
U-200*235*20 UNR	200	235	20	21	9
U-200*220*15 UNR	200	220	15	16	6
U-200*230*18 UNR	200	230	18	19	7
U-200*225*18 UNR	200	225	18	19	7
U-200*220*12 UNR	200	220	12	13	6
U-200*220*16 UNR	200	220	16	17	6
U-200*230*15 UNR	200	230	15	16	7
U-200*225*15 UNR	200	225	15	16	7
U-204*224*12 UNR	204	224	12	13	6
U-210*230*15 UNR	210	230	15	16	6
U-210*240*18 UNR	210	240	18	19	7
U-210*235*15 UNR	210	235	15	16	7
U-210*230*12 UNR	210	230	12	13	6
U-215*245*18 UNR	215	245	18	19	7
U-220*250*20 UNR	220	250	20	21	7
U-220*250*15 UNR	220	250	15	16	7
U-220*250*18 UNR	220	250	18	19	7
U-220*240*12 UNR	220	240	12	13	6
U-224*244*12 UNR	224	244	12	13	6
U-225*250*15 UNR	225	250	15	16	7

UNR



NO.	Ød	ØD	b	B	C
U-225*250*18 UNR	225	250	18	19	7
U-225*245*12 UNR	225	245	12	13	6
U-230*250*15 UNR	230	250	15	16	6
U-230*260*18 UNR	230	260	18	19	7
U-230*250*12 UNR	230	250	12	13	6
U-235*255*12 UNR	235	255	12	13	6
U-240*260*16 UNR	240	260	16	17	6
U-240*270*18 UNR	240	270	18	19	7
U-240*265*18 UNR	240	265	18	19	7
U-240*260*13 UNR	240	260	13	14	6
U-245*275*18 UNR	245	275	18	19	7
U-250*270*15 UNR	250	270	15	16	6
U-250*275*19 UNR	250	275	19	20	7
U-250*280*22 UNR	250	280	22	23	7
U-250*280*18 UNR	250	280	18	19	7
U-250*270*12 UNR	250	270	12	13	6
U-260*290*18 UNR	260	290	18	19	7
U-260*280*15 UNR	260	280	15	16	6
U-260*280*14 UNR	260	280	14	15	6
U-265*290*18 UNR	265	290	18	19	7
U-270*300*18 UNR	270	300	18	19	7
U-270*300*22 UNR	270	300	22	23	7
U-270*300*15 UNR	270	300	15	16	7
U-275*295*15 UNR	275	295	15	16	6
U-280*300*15 UNR	280	300	15	16	6
U-280*310*15 UNR	280	310	15	16	7



NO.	Ød	ØD	b	B	C
U-280*300*14 UNR	280	300	14	15	6
U-290*310*12 UNR	290	310	12	13	6
U-300*330*17 UNR	300	330	17	18	7
U-310*330*15 UNR	310	330	15	16	6
U-320*350*15 UNR	320	350	15	16	7
U-340*360*15 UNR	340	360	15	16	6
U-360*380*16 UNR	360	380	16	17	6
U-375*395*12 UNR	375	395	12	13	6
U-430*450*15 UNR	430	450	15	16	6

HB

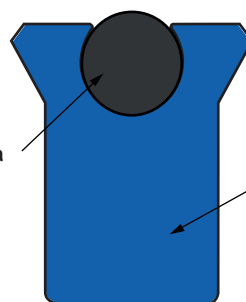


La junta HB es un elemento de estanqueidad hidráulico de simple efecto formado por una junta en U de poliuretano de perfil compacto y una junta tórica de elastómero que actúa como elemento de precarga. Es apta tanto para vástago como para pistón. Su sección rectangular le aporta estabilidad en el alojamiento, incluso en carreras largas y alta presión. Gracias a la junta tórica, mantiene la fuerza de contacto a presión cero o baja evitando fugas, y a medida que sube la presión aumenta la fuerza de sellado y la tórica garantiza la actuación completa del labio.

The HB is a single-acting hydraulic sealing element made up of a compact polyurethane U-seal and an elastomer O-Ring acting as a energizing element. It is suitable for both rod and piston. Its rectangular cross-section provides stability in the housing, even in long strokes and high pressure. Thanks to the O-Ring it keeps the contact force at zero or low pressure preventing bypass, and as pressure rises the sealing force increases and the O-Ring ensures full lip actuation



Junta tórica de precarga
Energizing O-Ring



Cuerpo de poliuretano
PU Body



-40°C
100°C



40MPa



< 0.5m/s



6mm
2000mm

- Válida tanto para vástago como para pistón, de simple efecto.
- Excelente estanqueidad estática y dinámica.
- Buen sellado a presiones bajas, variables y de choque gracias a la junta tórica de precarga.
- Sección rectangular que aporta estabilidad en el alojamiento, también en carreras largas y alta presión.
- Funcionamiento seguro en sistemas bloqueados de larga duración y con vibraciones.
- Diseño compacto que requiere poco espacio de montaje.



- Suitable for both rod and piston, single-acting.
- Excellent static and dynamic sealing.
- Good sealing at low, variable and shock pressures thanks to the preloading O-Ring.
- Rectangular cross-section that provides stability in the housing, also in long strokes and high pressure.
- Safe operation in long-term locked systems and under vibration.
- Compact design requiring little installation space.

Junta en U de poliuretano (PU) por su elevada resistencia al desgaste y a la extrusión, con junta tórica de precarga de NBR (nitrilo). Adecuada para aceites hidráulicos minerales, aceites biodegradables y fluidos de base agua (solubles en agua y agua-glicol) mediante la selección adecuada del material.

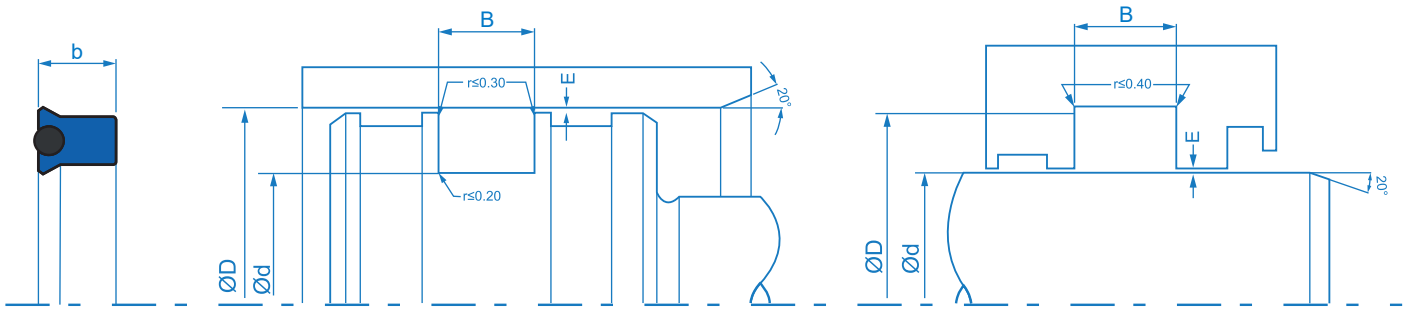


Polyurethane (PU) U-seal for its high resistance to wear and extrusion, with an NBR (nitrile) preloading O-Ring. Suitable for mineral hydraulic oils, bio oils and water-based fluids (water soluble and water glycol) through the appropriate material selection.

Lubricar la junta y las superficies de montaje. Achatillar y pulir los cantos de entrada. Evitar rebabas y cantos vivos. Montar sin torsiones ni pellizcos. Comprobar el correcto asentamiento antes de la puesta en servicio. No montar dos juntas enfrentadas en pistón de doble efecto, para evitar el atrapamiento de presión entre ellas.

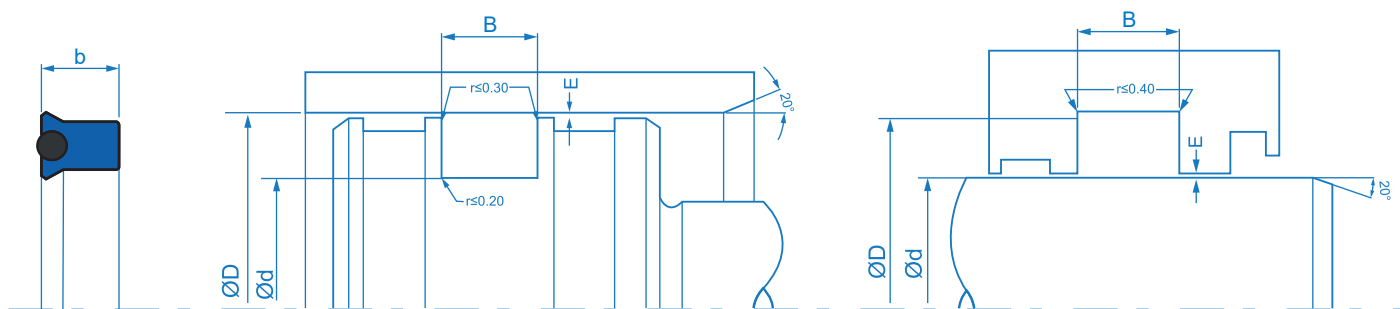


Lubricate the seal and the mating surfaces. Chamfer and polish the lead-in edges. Avoid burrs and sharp edges. Fit without twisting or pinching. Check correct seating before commissioning. Do not fit two seals back to back in a double-acting piston, to avoid pressure being trapped between them.



NO.	Ød	ØD	b	B	C
U-19.05*25.4*6.35 HB	19.05	25.4	6.35	6.98	3
U-22.23*28.58*3.18 HB	22.23	28.58	3.18	3.51	3
U-25.4*31.75*6.35 HB	25.4	31.75	6.35	6.98	3
U-25.4*34.93*4.76 HB	25.4	34.93	4.76	5.28	4
U-25.4*34.93*7.94 HB	25.4	34.93	7.94	8.71	4
U-25.4*38.1*6.35 HB	25.4	38.1	6.35	6.98	4.5
U-28.58*38.1*4.76 HB	28.58	38.1	4.76	5.28	4
U-28*40*9 HB	28	40	9	10	4
U-30*40*6 HB	30	40	6	7	4
U-30*40*9 HB	30	40	9	10	4
U-31.75*38.1*6.35 HB	31.75	38.1	6.35	6.98	3
U-31.75*41.28*7.94 HB	31.75	41.28	7.94	8.71	4
U-38.1*47.63*7.94 HB	38.1	47.63	7.94	8.71	4
U-38.1*47.63*9.53 HB	38.1	47.63	9.53	10.49	4
U-38.1*50.8*9.53 HB	38.1	50.8	9.53	10.49	4.5
U-40*50*6 HB	40	50	6	7	4
U-44.45*53.98*9.53 HB	44.45	53.98	9.53	10.49	4
U-47.62*57.15*9.52 HB	47.62	57.15	9.52	10.48	4
U-50.8*60.33*9.53 HB	50.8	60.33	9.53	10.49	4
U-50.8*63.5*9.53 HB	50.8	63.5	9.53	10.49	4.5
U-57.15*69.85*6.35 HB	57.15	69.85	6.35	6.98	4.5
U-63.5*76.2*9.53 HB	63.5	76.2	9.53	10.49	4.5
U-76.2*88.9*9.53 HB	76.2	88.9	9.53	10.49	4.5
U-76.2*95.25*15.875 HB	76.2	95.25	15.875	17.47	5
U-88.9*101.6*9.53 HB	88.9	101.6	9.53	10.49	4.5
U-92.08*101.6*9.53 HB	92.08	101.6	9.53	10.49	4

HB



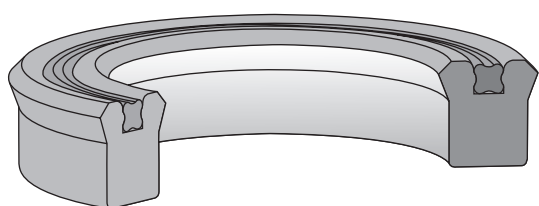
NO.	Ød	ØD	b	B	C
U-105*120*9 HB	105	120	9	10	4.5
U-107.95*127*15.88 HB	107.95	127	15.88	17.47	5
U-109*125*10.5 HB	109	125	10.5	11.5	4.5
U-152.4*171.45*15.875 HB	152.4	171.45	15.875	17.47	5



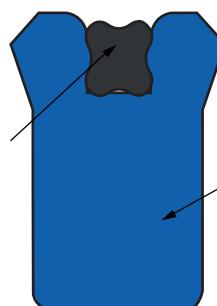
HBX

La junta HBX es una junta simétrica de doble efecto formada por un perfil en U de poliuretano con labios de estanqueidad de precisión y una junta quadring alojada entre ellos como elemento energizante. El quadring actúa como muelle y mantiene el contacto de sellado incluso a baja presión o en vacío. Su diseño de labios consigue una estanqueidad eficaz en aplicaciones de vacío y de alta y baja presión. Es apta para cilindros hidráulicos de servicio medio y plataformas de retención, y puede emplearse también como junta de vástago combinada con otros perfiles para aplicaciones más exigentes.

The HBX is a symmetrical double-acting seal made up of a polyurethane U-profile with precision sealing lips and x-ring housed between them as the energizing element. The x-ring acts as a spring and keeps the sealing contact even at low pressure or vacuum. Its lip design achieves effective sealing in vacuum and in high and low pressure applications. It is suitable for medium-duty hydraulic cylinders and holding platforms, and it can also be used as a rod seal combined with other profiles for more demanding applications.



Junta quadring
X-ring



Cuerpo de poliuretano
PU Body



-40°C
100°C



40MPa



< 0.5m/s



6mm
2000mm

- Junta simétrica de doble efecto.
- Sella en vacío y en aplicaciones de alta y baja presión.
- El quadring energiza los labios y mantiene el contacto incluso a baja presión o en vacío.
- Labios de estanqueidad de precisión.
- Elevada resistencia al desgaste gracias al poliuretano.
- Apta para cilindros hidráulicos de servicio medio y plataformas de retención.
- Puede emplearse como junta de vástago combinada con otros perfiles.



- Symmetrical double-acting seal.
- Seals in vacuum and in high and low pressure applications.
- The x-ring energizes the lips and keeps contact even at low pressure or vacuum.
- Precision sealing lips.
- High wear resistance thanks to polyurethane.
- Suitable for medium-duty hydraulic cylinders and holding platforms.
- Can be used as a rod seal combined with other profiles.

Perfil en U en poliuretano (PU) de 92 Shore A, de elevada resistencia al desgaste, con junta quadring energizante en NBR (nitrilo) de 70/75 Shore A. Adecuada para aceites minerales, aceites biodegradables y fluidos de base agua (solubles en agua y agua-glicol) mediante la selección adecuada del material.

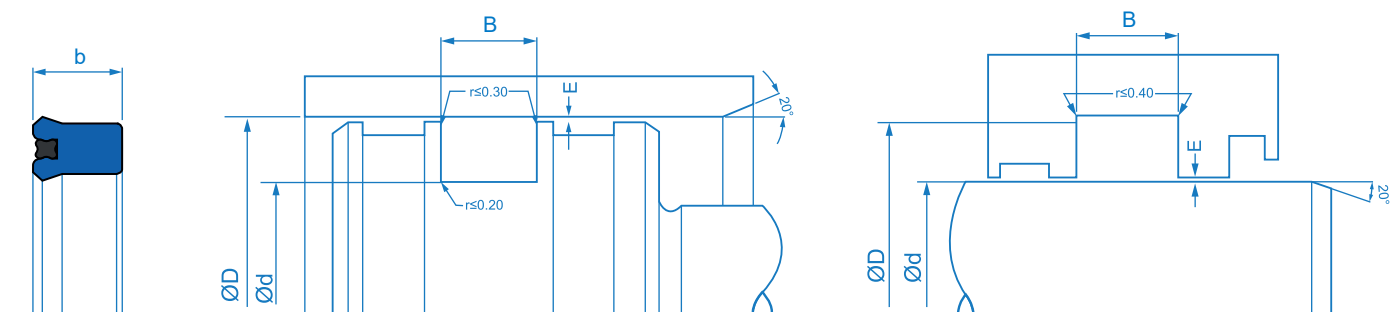
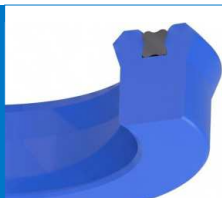


Polyurethane (PU) U-profile of 92 Shore A, with high wear resistance, and an energizing x-ring in NBR (nitrile) of 70/75 Shore A. Suitable for mineral oils, bio oils and water-based fluids (water soluble and water glycol) through the appropriate material selection.

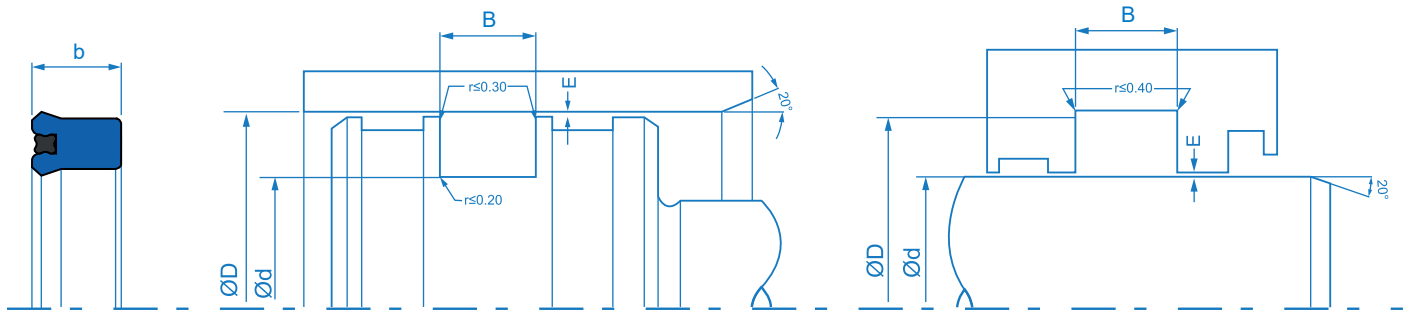
Lubricar la junta y las superficies de montaje. Acharflanar y pulir los cantos de entrada. Evitar rebabas y cantos vivos. Montar sin torsiones ni pellizcos. Respetar la rugosidad recomendada y comprobar el correcto asentamiento antes de la puesta en servicio.



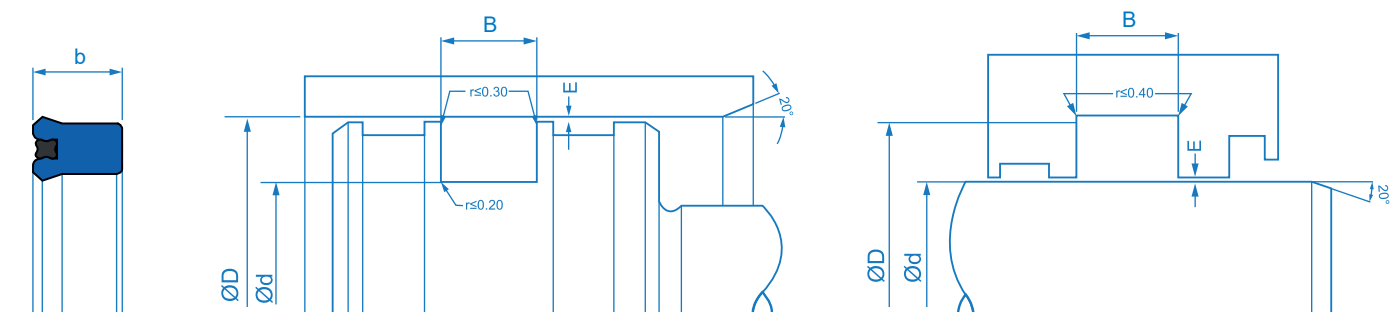
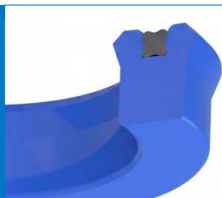
Lubricate the seal and the mating surfaces. Chamfer and polish the lead-in edges. Avoid burrs and sharp edges. Fit without twisting or pinching. Keep the recommended surface roughness and check correct seating before commissioning.



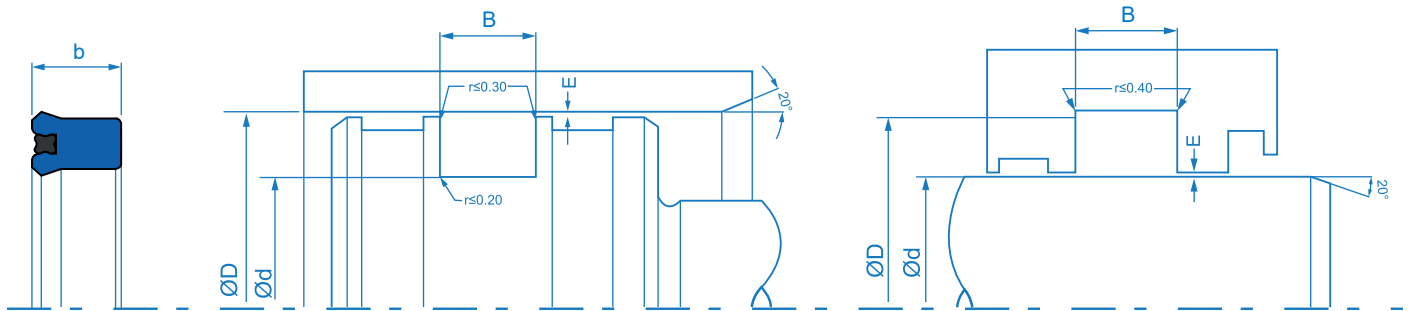
NO.	Ød	ØD	b	B
U-5*12*5 HBX	5	12	5	5.5
U-6.35*15.87*4.75 HBX	6.35	15.87	4.75	5.25
U-9.53*19.05*5 HBX	9.53	19.05	5	5.5
U-10*16*3.15 HBX	10	16	3.15	3.5
U-10*18*5.8 HBX	10	18	5.8	6.4
U-10*18*6 HBX	10	18	6	6.63
U-12*22*8 HBX	12	22	8	8.73
U-15.87*22.22*3.17 HBX	15.87	22.22	3.17	3.5
U-15.87*22.22*6.4 HBX	15.87	22.22	6.4	6.98
U-15.87*25.4*8 HBX	15.87	25.4	8	8.73
U-16*22*6.2 HBX	16	22	6.2	6.98
U-16*24*5 HBX	16	24	5	5.5
U-16*26*7 HBX	16	26	7	7.7
U-16*26*7 HBX	16	26	7	7.7
U-17*25*6.5 HBX	17	25	6.5	7.2
U-17.46*23.81*6.4 HBX	17.46	23.81	6.4	6.98
U-18*25*5 HBX	18	25	5	5.5
U-18*26*5 HBX	18	26	5	5.5
U-19.05*25.39*3.3 HBX	19.05	25.39	3.3	3.6
U-19.84*26.18*3.3 HBX	19.84	26.18	3.3	3.6
U-20*28*5 HBX	20	28	5	5.5
U-20*28*5.7 HBX	20	28	5.7	6.3
U-20*30*6.7 HBX	20	30	6.7	7.2
U-22*30*5 HBX	22	30	5	5.5
U-25*35*7 HBX	25	35	7	7.7
U-25*38*10 HBX	25	38	10	11



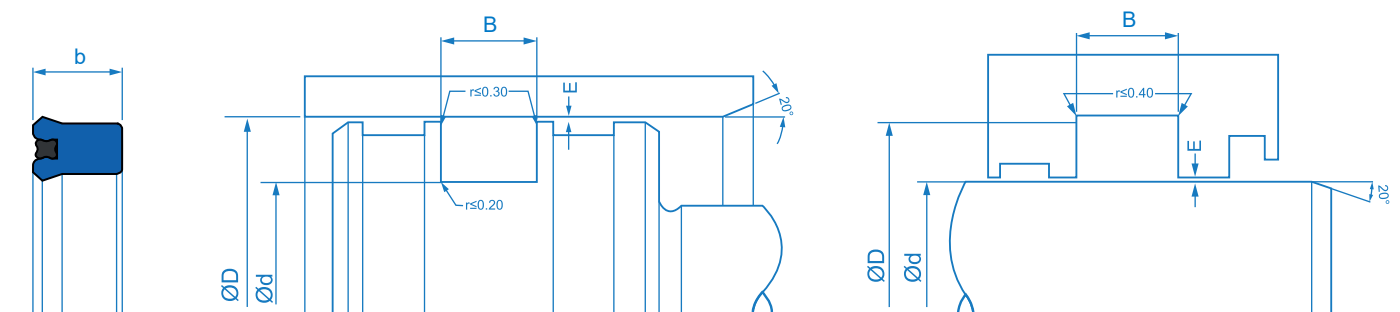
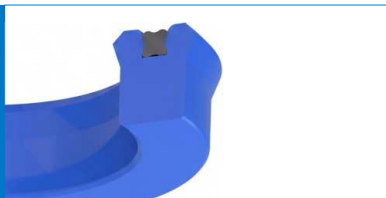
NO.	Ød	ØD	b	B
U-25*38*10 HBX	25	38	10	11
U-25.4*31.75*6.35 HBX	25.4	31.75	6.35	6.98
U-25.4*38.1*9 HBX	25.4	38.1	9	10
U-28*36*5.3 HBX	28	36	5.3	5.8
U-28.5*35*3.25 HBX	28.5	35	3.25	3.6
U-28.58*44.45*7.93 HBX	28.58	44.45	7.93	8.73
U-28.58*44.45*9.52 HBX	28.58	44.45	9.52	10.5
U-30*40*7 HBX	30	40	7	7.7
U-30*40*10 HBX	30	40	10	11
U-31.75*41.27*7.93 HBX	31.75	41.27	7.93	8.73
U-31.75*41.27*8 HBX	31.75	41.27	8	8.73
U-32*42*6 HBX	32	42	6	6.63
U-34.92*43.65*6 HBX	34.92	43.65	6	6.63
U-35*43*8 HBX	35	43	8	8.73
U-35*44*8 HBX	35	44	8	8.73
U-37*50*6 HBX	37	50	6	6.63
U-38.1*47.62*9.52 HBX	38.1	47.62	9.52	10.5
U-38.1*47.62*9.52 HBX	38.1	47.62	9.52	10.5
U-38.1*53.97*7.93 HBX	38.1	53.97	7.93	8.73
U-40*50*6 HBX	40	50	6	6.63
U-40*50*7.3 HBX	40	50	7.3	8
U-44.45*50.8*3.17 HBX	44.45	50.8	3.17	3.5
U-44.45*53.97*6.35 HBX	44.45	53.97	6.35	6.98
U-47.62*63.47*12.7 HBX	47.62	63.47	12.7	13.97
U-50*63*10 HBX	50	63	10	11
U-50*65*12 HBX	50	65	12	13



NO.	Ød	ØD	b	B
U-50*72*7 HBX	50	72	7	7.7
U-50*72*9 HBX	50	72	9	10
U-50.8*63.5*6.35 HBX	50.8	63.5	6.35	6.98
U-50.8*63.5*9.52 HBX	50.8	63.5	9.52	10.5
U-50.8*63.5*9.52 HBX	50.8	63.5	9.52	10.5
U-53.97*60.32*3.17 HBX	53.97	60.32	3.17	3.5
U-55*70*10.5 HBX	55	70	10.5	11.5
U-56*64*9 HBX	56	64	9	10
U-56*66*6 HBX	56	66	6	6.63
U-57.15*69.85*9.52 HBX	57.15	69.85	9.52	10.5
U-60*72*10 HBX	60	72	10	11
U-60.32*69.85*4.76 HBX	60.32	69.85	4.76	5.25
U-60.32*69.85*19.05 HBX	60.32	69.85	19.05	20.5
U-60.32*70.64*5 HBX	60.32	70.64	5	5.5
U-63*73*6.5 HBX	63	73	6.5	7.2
U-63*78*11.4 HBX	63	78	11.4	11.5
U-63.5*73.02*9.52 HBX	63.5	73.02	9.52	10.5
U-63.5*73.81*5 HBX	63.5	73.81	5	5.5
U-63.5*76.2*9.5 HBX	63.5	76.2	9.5	10.5
U-69.85*76.2*6.2 HBX	69.85	76.2	6.2	6.98
U-69.85*79.37*4.6 HBX	69.85	79.37	4.6	5.25
U-69.85*79.37*7.93 HBX	69.85	79.37	7.93	8.73
U-70*80*10 HBX	70	80	10	11
U-70*90*12 HBX	70	90	12	13
U-73.02*88.9*9.52 HBX	73.02	88.9	9.52	10.5
U-76*87.2*9.5 HBX	76	87.2	9.5	10.5



NO.	Ød	ØD	b	B
U-76.2*82.55*6.2 HBX	76.2	82.55	6.2	6.98
U-76.2*85.72*9.52 HBX	76.2	85.72	9.52	10.5
U-76.2*88.9*9.52 HBX	76.2	88.9	9.52	10.5
U-76.2*92.07*7.93 HBX	76.2	92.07	7.93	8.73
U-79.37*88.9*4.8 HBX	79.37	88.9	4.8	5.25
U-85*100*10 HBX	85	100	10	11
U-85*100*12 HBX	85	100	12	13
U-85.72*95.24*9.4 HBX	85.72	95.24	9.4	10.5
U-88.9*101.4*7.25 HBX	88.9	101.4	7.25	8
U-88.9*101.6*10 HBX	88.9	101.6	10	11
U-88.9*108.5*12.5 HBX	88.9	108.5	12.5	13.5
U-95.25*104.77*9.52 HBX	95.25	104.77	9.52	10.5
U-95.25*107.95*9.52 HBX	95.25	107.95	9.52	10.5
U-95.35*108*7.25 HBX	95.35	108	7.25	8
U-100*115*12 HBX	100	115	12	13
U-107.95*120.65*6.35 HBX	107.95	120.65	6.35	6.98
U-107.95*127*10 HBX	107.95	127	10	11
U-111.12*120.65*4.75 HBX	111.12	120.65	4.75	5.25
U-111.12*120.65*9.52 HBX	111.12	120.65	9.52	10.5
U-112*125*9 HBX	112	125	9	10
U-114.3*127*6.35 HBX	114.3	127	6.35	6.98
U-120.65*142.87*20.95 HBX	120.65	142.87	20.95	22.5
U-127*146.05*15.9 HBX	127	146.05	15.9	17.5
U-133.35*152.4*16 HBX	133.35	152.4	16	17.5
U-140*160*12 HBX	140	160	12	13
U-140*160*15 HBX	140	160	15	16.5



NO.	Ød	ØD	b	B
U-150*170*15 HBX	150	170	15	16.5
U-152.4*165.1*6.35 HBX	152.4	165.1	6.35	6.98
U-152.4*165.1*9.52 HBX	152.4	165.1	9.52	10.5
U-160*190*18 HBX	160	190	18	19.5
U-180*200*15 HBX	180	200	15	16.5
U-190.3*203.2*6.35 HBX	190.3	203.2	6.35	6.98
U-190.5*203.5*6.35 HBX	190.5	203.5	6.35	6.98
U-196.85*209.55*12.7 HBX	196.85	209.55	12.7	13.97
U-200*225*15 HBX	200	225	15	16.5
U-230*260*18 HBX	230	260	18	19.5
U-260*290*18 HBX	260	290	18	19.5
U-320*350*18 HBX	320	350	18	19.5



JST

Junta de simple efecto compuesta por una camisa con perfil en U y un muelle anticorrosión con perfil en V. El collarín JST presenta un perfil de estanqueidad simétrico algo que lo hace apto tanto para aplicaciones de vástago como de pistón. El labio dinámico está optimizado para ofrecer una larga vida útil y una excelente capacidad de rascado, incluso en medios de alta viscosidad.

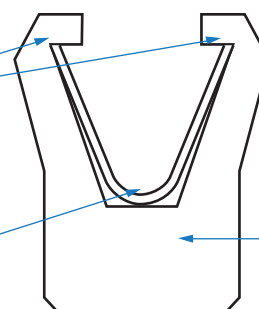
Single-acting seal consisting of a U-shaped jacket and a V-shaped corrosion-resistant spring. The JST sealing ring features a symmetrical sealing profile, making it suitable for both rod and piston applications. The dynamic lip is optimized to provide a long service life and excellent scraping performance, even in high-viscosity media.



Labios de estanqueidad simétricos
Symmetrical sealing lips

Muelle en acero inoxidable
Stainless steel spring

Cuerpo en PTFE
PTFE body



-200°C
260°C



45MPa



< 10m/s



6mm
2600mm

- Junta de simple efecto energizado por muelle metálico.
- Excelente capacidad de rascado, también en medios de alta viscosidad o con partículas.
- Baja fricción y funcionamiento sin stick-slip, con mínima fuerza de arranque.
- Elevada resistencia al desgaste y a la abrasión.
- Resistente a la mayoría de fluidos, productos químicos y al envejecimiento.
- Estable dimensionalmente y apto para amplios rangos de temperatura.



- *Single-acting seal energized by a metal spring.*
- *Excellent scraping ability, also in high-viscosity media or media with particles.*
- *Low friction and stick-slip free operation, with minimal breakout force.*
- *High resistance to wear and abrasion.*
- *Resistant to most fluids, chemicals and to aging.*
- *Dimensionally stable and suitable for wide temperature ranges.*

Anillo en U de PTFE (con las cargas adecuadas según la aplicación), por su baja fricción, amplio rango de temperatura y resistencia química, energizado por un muelle metálico en V de acero inoxidable resistente a la corrosión. Apto para la mayoría de fluidos, productos químicos y medios de alta viscosidad o con partículas.

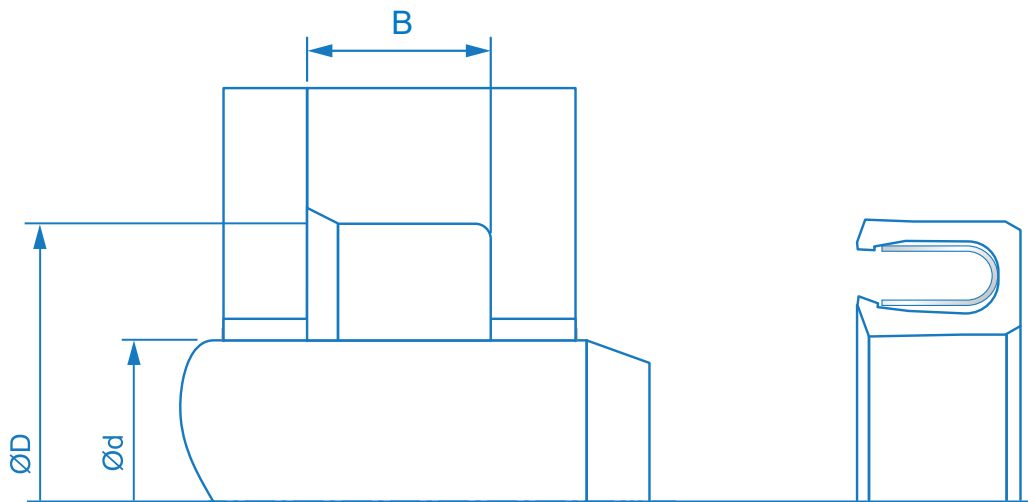


PTFE U-shaped jacket (with suitable fillers depending on the application), for its low friction, wide temperature range and chemical resistance, energized by a corrosion-resistant stainless steel V-shaped spring. Suitable for most fluids, chemicals and high-viscosity or particle-laden media.

Limpiar el alojamiento y achaflanar los cantos de entrada, sin rebabas ni aristas vivas. Lubricar las superficies de montaje. Montar el collarín evitando daños en el PTFE y en el muelle energizador, verificando el correcto asentamiento en el alojamiento. Comprobar el correcto asentamiento antes de la puesta en servicio.



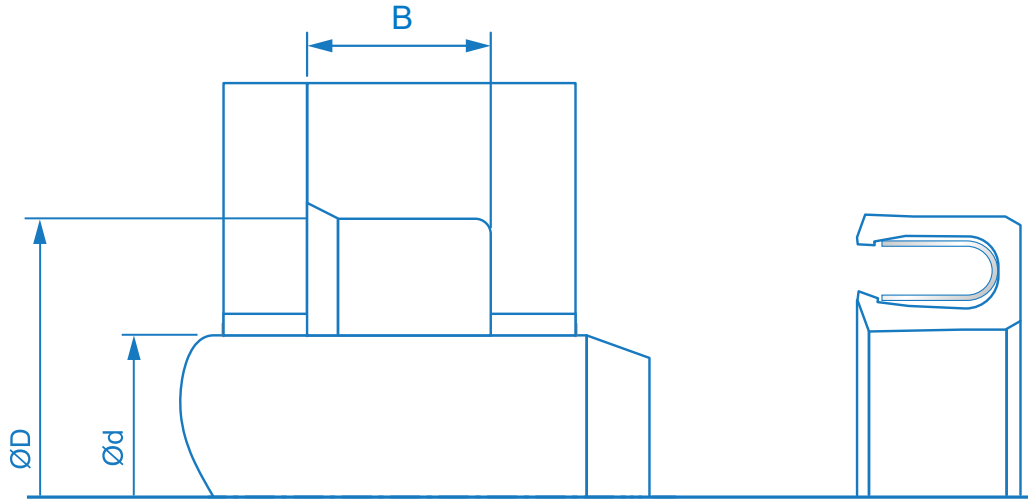
Clean the housing and chamfer the lead-in edges, without burrs or sharp edges. Lubricate the mating surfaces. Install the seal carefully to avoid damage to the PTFE jacket and the energizing spring. Verify that the seal is properly seated in the groove before commissioning. Check correct seating before commissioning.



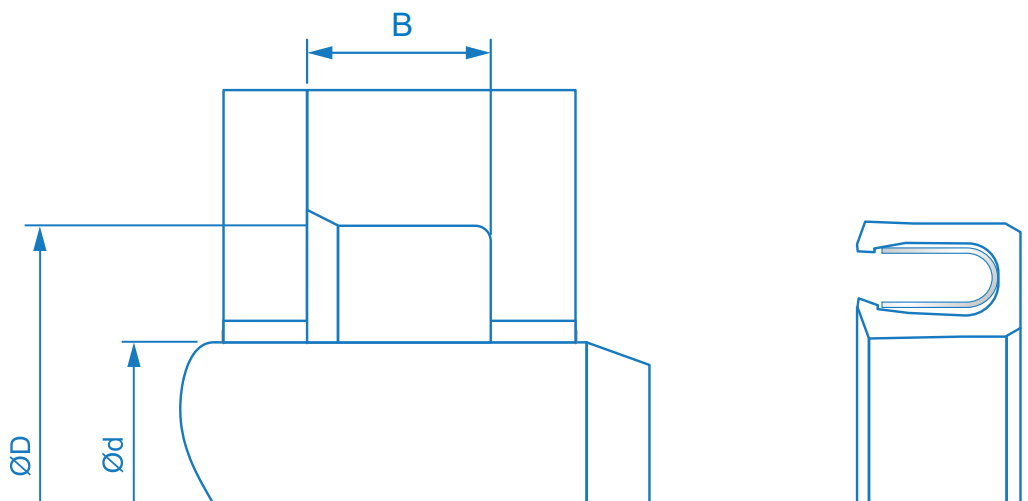
NO.	Ød	ØD	B
U-5.33*11.68*4 JST	5.33	11.68	4
U-5.84*10.66*3.3 JST	5.84	10.66	3.3
U-6*12*5 JST	6	12	5
U-6*12.2*4 JST	6	12.2	4
U-7.7*12.5*3 JST	7.7	12.5	3
U-7.93*14.28*4 JST	7.93	14.28	4
U-8*12.52*3.35 JST	8	12.52	3.35
U-8*20*6.5 JST	8	20	6.5
U-8*20*7 JST	8	20	7
U-9.5*16*5 JST	9.5	16	5
U-10*15*3.3 JST	10	15	3.3
U-10*15*3.5 JST	10	15	3.5
U-10*15*3.5 JST	10	15	3.5
U-10*15*3.5 JST	10	15	3.5
U-10*18*6 JST	10	18	6
U-10.2*15*3.6 JST	10.2	15	3.6
U-11*16*3 JST	11	16	3
U-11*17.3*6.3 JST	11	17.3	6.3
U-11.75*16.75*3.3 JST	11.75	16.75	3.3
U-12*16*3 JST	12	16	3
U-12*16*3.7 JST	12	16	3.7
U-12*16*3.8 JST	12	16	3.8
U-12*16.5*3.4 JST	12	16.5	3.4
U-12*17*3 JST	12	17	3
U-12*17*3.3 JST	12	17	3.3
U-12*22*5 JST	12	22	5



JST



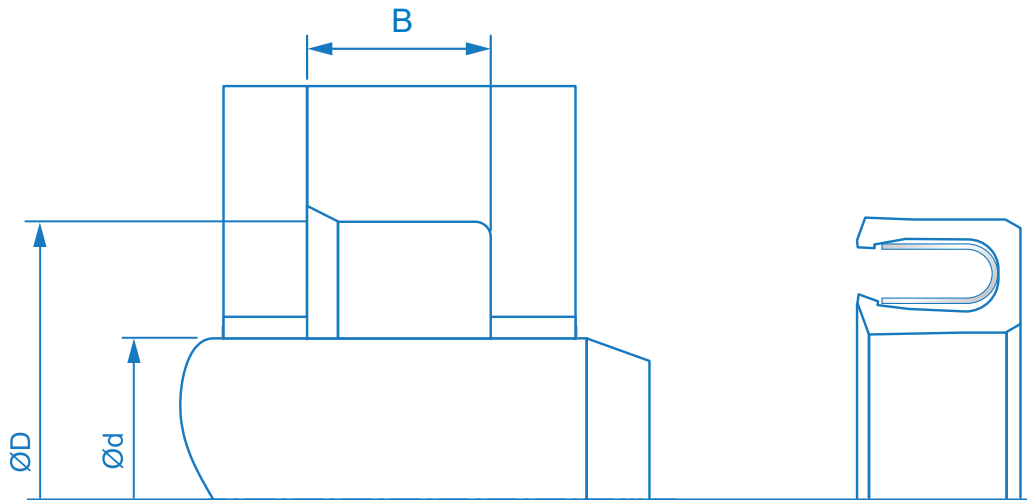
NO.	Ød	ØD	B
U-12.16*16.99*3.4 JST	12.16	16.99	3.4
U-12.5*17.5*5 JST	12.5	17.5	5
U-12.7*19.05*4.3 JST	12.7	19.05	4.3
U-12.7*19.05*4.5 JST	12.7	19.05	4.5
U-13*23*7 JST	13	23	7
U-13*23*7 JST	13	23	7
U-13.8*25*6 JST	13.8	25	6
U-14*19*3.3 JST	14	19	3.3
U-14*22*11 JST	14	22	11
U-14*22*5.5 JST	14	22	5.5
U-14.4*21.4*4 JST	14.4	21.4	4
U-15*20*3.5 JST	15	20	3.5
U-15.65*25.7*3.8 JST	15.65	25.7	3.8
U-15.82*22.1*4.45 JST	15.82	22.1	4.45
U-15.87*20.63*3.5 JST	15.87	20.63	3.5
U-16*26*4.5 JST	16	26	4.5
U-16*26*5 JST	16	26	5
U-16*26*6.6 JST	16	26	6.6
U-16*26*7 JST	16	26	7
U-17*23*3.8 JST	17	23	3.8
U-18*26*4 JST	18	26	4
U-18*28*5 JST	18	28	5
U-18.99*25.4*5.08 JST	18.99	25.4	5.08
U-19*24.5*3.5 JST	19	24.5	3.5
U-19*24.5*3.5 JST	19	24.5	3.5
U-19.6*26.3*4.5 JST	19.6	26.3	4.5



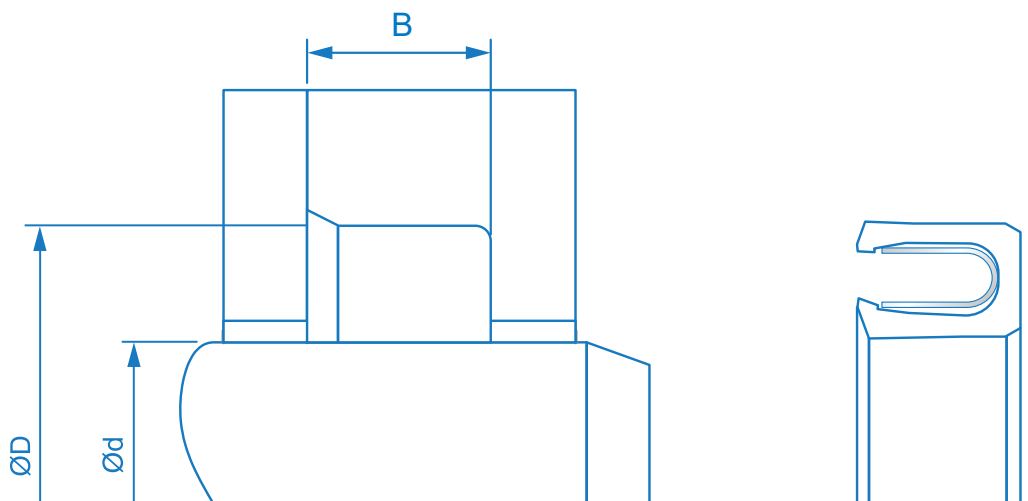
NO.	Ød	ØD	B
U-19.9*26.3*4.5 JST	19.9	26.3	4.5
U-20*25*3.5 JST	20	25	3.5
U-20*26*4.5 JST	20	26	4.5
U-20*26.15*4.8 JST	20	26.15	4.8
U-20*30*7 JST	20	30	7
U-20.7*25.7*4.4 JST	20.7	25.7	4.4
U-21.82*27.78*3.9 JST	21.82	27.78	3.9
U-22*27*3.2 JST	22	27	3.2
U-22*28*4 JST	22	28	4
U-22*28*4.5 JST	22	28	4.5
U-22*28*4.5 JST	22	28	4.5
U-22*28*5 JST	22	28	5
U-22*28*5 JST	22	28	5
U-22*28.2*4.3 JST	22	28.2	4.3
U-22*29*4 JST	22	29	4
U-22*29*4.5 JST	22	29	4.5
U-22*29*6.3 JST	22	29	6.3
U-22*30*7 JST	22	30	7
U-22*31.7*6.65 JST	22	31.7	6.65
U-22.22*26.97*3.3 JST	22.22	26.97	3.3
U-22.22*28.57*5.55 JST	22.22	28.57	5.55
U-22.3*32.3*6.6 JST	22.3	32.3	6.6
U-23*30*4.35 JST	23	30	4.35
U-23*30*4.4 JST	23	30	4.4
U-23*30.35*4.3 JST	23	30.35	4.3
U-23*30.35*4.3 JST	23	30.35	4.3



JST



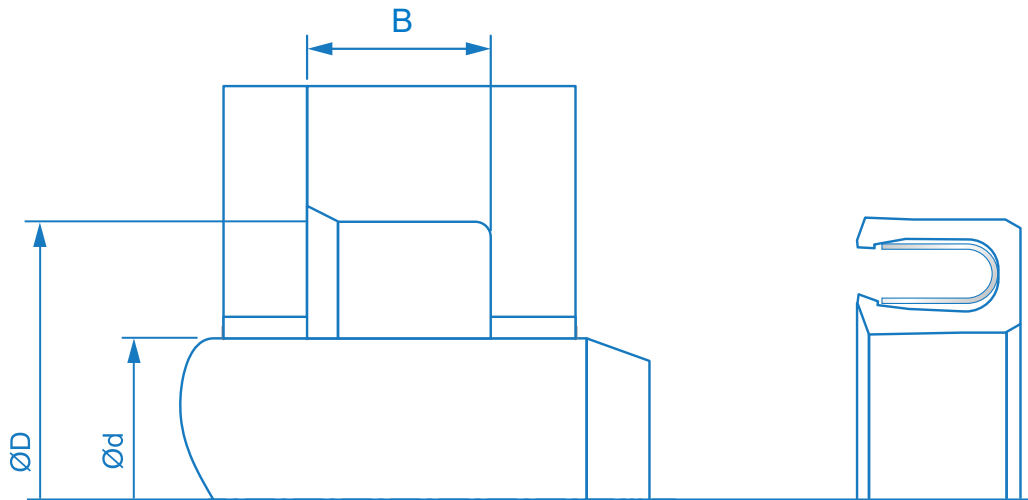
NO.	Ød	ØD	B
U-24*30*4.4 JST	24	30	4.4
U-24*30*4.4 JST	24	30	4.4
U-24*30*4.5 JST	24	30	4.5
U-24*34*6.5 JST	24	34	6.5
U-24.6*30.5*4.5 JST	24.6	30.5	4.5
U-24.6*31*4.5 JST	24.6	31	4.5
U-24.63*32.39*4.47 JST	24.63	32.39	4.47
U-24.63*32.39*4.5 JST	24.63	32.39	4.5
U-25*31.2*4.8 JST	25	31.2	4.8
U-25*32*4.25 JST	25	32	4.25
U-25*34*7 JST	25	34	7
U-25*35*6 JST	25	35	6
U-25*35*6.5 JST	25	35	6.5
U-25*36.64*6.5 JST	25	36.64	6.5
U-25*36.64*6.5 JST	25	36.64	6.5
U-25*40*21 JST	25	40	21
U-25.4*34.84*6.09 JST	25.4	34.84	6.09
U-25.4*34.92*6 JST	25.4	34.92	6
U-28*37*4.6 JST	28	37	4.6
U-28.17*38.1*5.84 JST	28.17	38.1	5.84
U-30*36*4 JST	30	36	4
U-30*37*4.3 JST	30	37	4.3
U-30*40*7.5 JST	30	40	7.5
U-30*45*15 JST	30	45	15
U-30*48*10 JST	30	48	10
U-30*57*7 JST	30	57	7



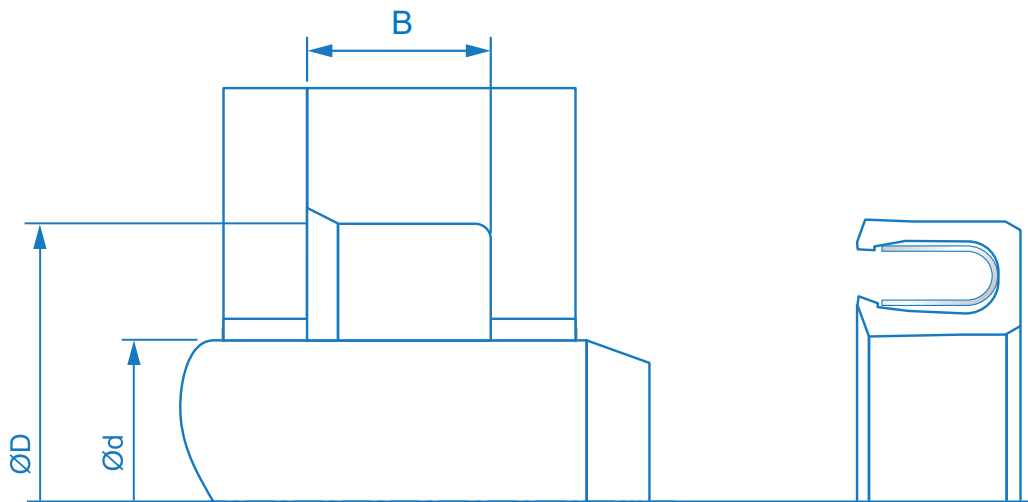
NO.	Ød	ØD	B
U-30.5*40.5*6.6 JST	30.5	40.5	6.6
U-30.94*38.66*3.48 JST	30.94	38.66	3.48
U-31.7*41*6.6 JST	31.7	41	6.6
U-31.75*38.1*4.3 JST	31.75	38.1	4.3
U-32*40*6 JST	32	40	6
U-32*40*6 JST	32	40	6
U-32*42*6.6 JST	32	42	6.6
U-32*42.3*6.6 JST	32	42.3	6.6
U-33.5*40*4.5 JST	33.5	40	4.5
U-34.5*46.5*6 JST	34.5	46.5	6
U-34.7*44*5.4 JST	34.7	44	5.4
U-34.92*41.27*4.3 JST	34.92	41.27	4.3
U-34.92*44.45*6.60/8.30 JST	34.92	44.45	6.60/8.30
U-35*40*3.6 JST	35	40	3.6
U-35*45*5.5 JST	35	45	5.5
U-35*45.5*6 JST	35	45.5	6
U-35*47*8 JST	35	47	8
U-35*55*11 JST	35	55	11
U-35.65*42*3.7 JST	35.65	42	3.7
U-36*42*4.3 JST	36	42	4.3
U-36*48*8 JST	36	48	8
U-36*51*28.75 JST	36	51	28.75
U-37*48*6 JST	37	48	6
U-38*47.4*6.7 JST	38	47.4	6.7
U-38.1*49.5*6.5 JST	38.1	49.5	6.5
U-39.67*44.45*3.35 JST	39.67	44.45	3.35



JST



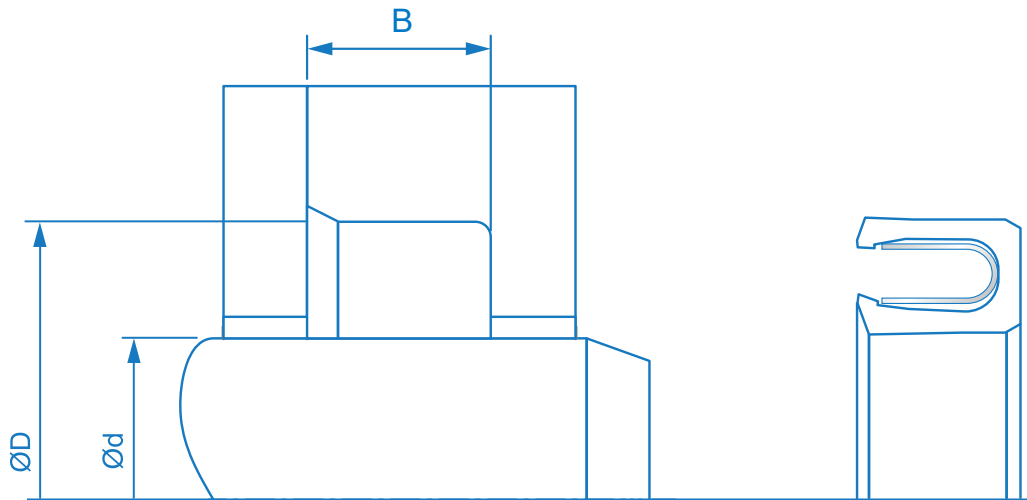
NO.	Ød	ØD	B
U-40*49.4*7.1 JST	40	49.4	7.1
U-40*49.4*7.1 JST	40	49.4	7.1
U-40*50*6 JST	40	50	6
U-40*50*6.6 JST	40	50	6.6
U-40*50*6.6 JST	40	50	6.6
U-40*50*6.6 JST	40	50	6.6
U-40*50*7 JST	40	50	7
U-40*55*10 JST	40	55	10
U-40*56*7 JST	40	56	7
U-40*62*5.5 JST	40	62	5.5
U-41*51*6.6 JST	41	51	6.6
U-41*58*9 JST	41	58	9
U-42*50*6.9 JST	42	50	6.9
U-43.5*53.5*6.6 JST	43.5	53.5	6.6
U-44*54*7 JST	44	54	7
U-44.45*50.8*4.3 JST	44.45	50.8	4.3
U-45.6*55*7.1 JST	45.6	55	7.1
U-47*58*7 JST	47	58	7
U-47.73*72.26*24.5 JST	47.73	72.26	24.5
U-49.5*67.5*10 JST	49.5	67.5	10
U-50*59*6.5 JST	50	59	6.5
U-50*59.3*16 JST	50	59.3	16
U-50*59.4*7.1 JST	50	59.4	7.1
U-50*60*13 JST	50	60	13
U-50*60*16 JST	50	60	16
U-50*60*6 JST	50	60	6



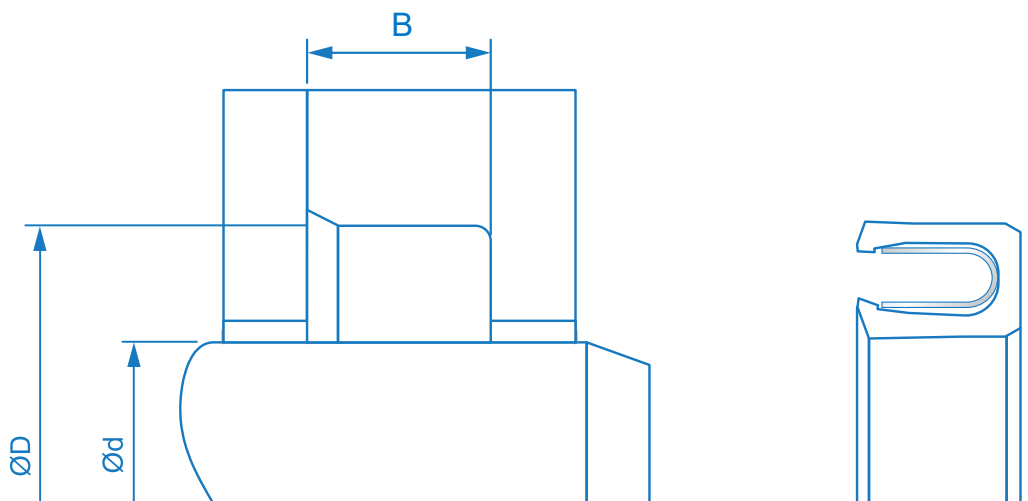
NO.	Ød	ØD	B
U-50*60*7 JST	50	60	7
U-50*67.5*9.5 JST	50	67.5	9.5
U-50*70*34.7 JST	50	70	34.7
U-51*61.8*5.8 JST	51	61.8	5.8
U-52*63*6.5 JST	52	63	6.5
U-54*63*6.5 JST	54	63	6.5
U-54*64*6.5 JST	54	64	6.5
U-54*64*6.5 JST	54	64	6.5
U-55*65*5.5 JST	55	65	5.5
U-55*65*7.1 JST	55	65	7.1
U-57*64*3.8 JST	57	64	3.8
U-57*68.6*7.2 JST	57	68.6	7.2
U-57*70*10 JST	57	70	10
U-60*70*5.5 JST	60	70	5.5
U-60*70*6 JST	60	70	6
U-60*70*6.5 JST	60	70	6.5
U-60*72*9.5 JST	60	72	9.5
U-60*80*34.7 JST	60	80	34.7
U-60.6*70*7.1 JST	60.6	70	7.1
U-61.88*91.24*26.5 JST	61.88	91.24	26.5
U-63*73*6.7 JST	63	73	6.7
U-63*79*8 JST	63	79	8
U-63*83*45 JST	63	83	45
U-64*75.6*7.2 JST	64	75.6	7.2
U-65*75*6.5 JST	65	75	6.5
U-65*75*7.1 JST	65	75	7.1



JST



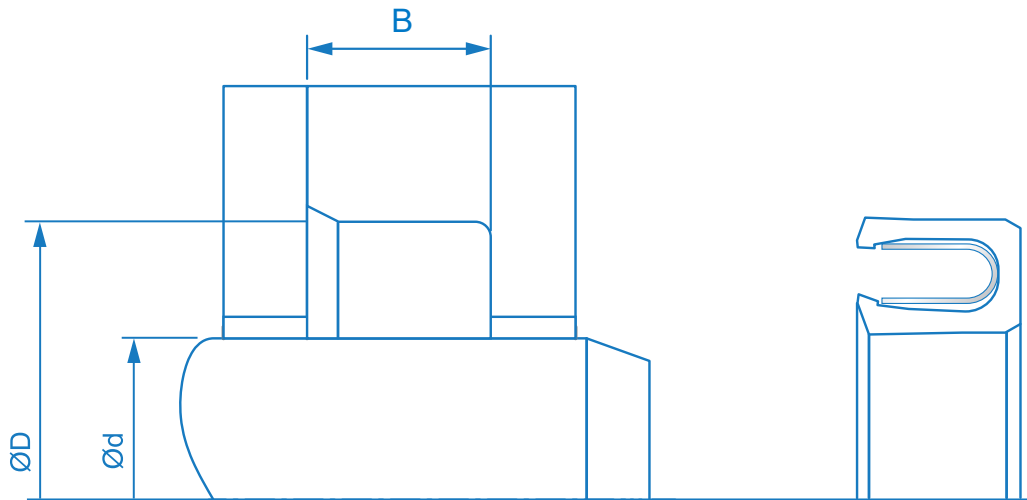
NO.	Ød	ØD	B
U-66*72*3.3 JST	66	72	3.3
U-66*76*6 JST	66	76	6
U-66*80*13 JST	66	80	13
U-67*74.8*6 JST	67	74.8	6
U-67*80*10 JST	67	80	10
U-67*80*12.9 JST	67	80	12.9
U-69*81*7 JST	69	81	7
U-70*80*6.5 JST	70	80	6.5
U-70*80*6.5 JST	70	80	6.5
U-70*80*6.5 JST	70	80	6.5
U-70*80*6.5 JST	70	80	6.5
U-70*80*6.6 JST	70	80	6.6
U-70*80*7 JST	70	80	7
U-70*90*47 JST	70	90	47
U-73*81*6 JST	73	81	6
U-73*83*6 JST	73	83	6
U-73.8*80.5*4.5 JST	73.8	80.5	4.5
U-74.8*96.5*10 JST	74.8	96.5	10
U-80*90*6 JST	80	90	6
U-80*93*12 JST	80	93	12
U-81.74*92.07*5.2 JST	81.74	92.07	5.2
U-81.74*92.07*5.2 JST	81.74	92.07	5.2
U-82*92*6.5 JST	82	92	6.5
U-82.15*101.6*16 JST	82.15	101.6	16
U-83*90*4.5 JST	83	90	4.5
U-84*93.3*7 JST	84	93.3	7



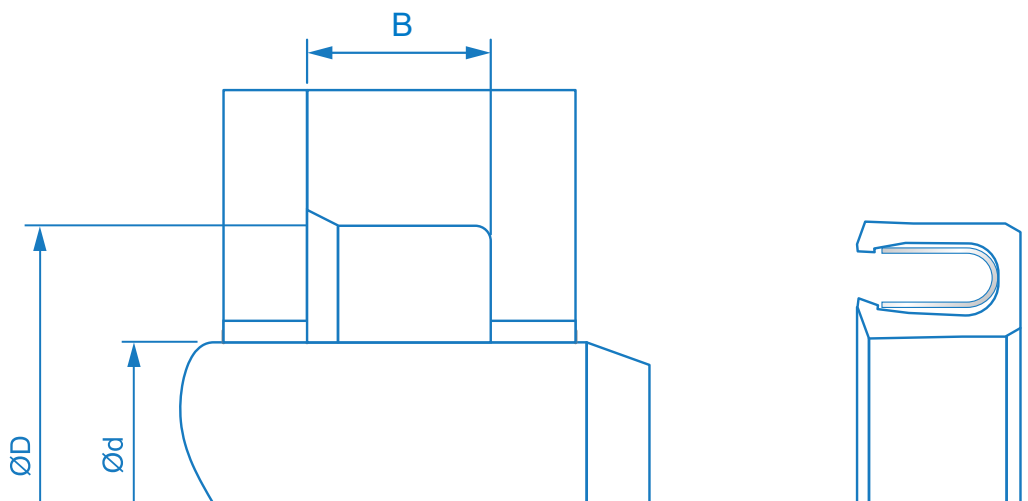
NO.	Ød	ØD	B
U-85*110*12 JST	85	110	12
U-87.86*100*8.89 JST	87.86	100	8.89
U-89.6*100*6.4 JST	89.6	100	6.4
U-90*100*6.5 JST	90	100	6.5
U-95*104.4*5.2 JST	95	104.4	5.2
U-100*110*7.4 JST	100	110	7.4
U-100*113*7.2 JST	100	113	7.2
U-100*120*47 JST	100	120	47
U-100*122*11 JST	100	122	11
U-100*122*11 JST	100	122	11
U-100*125*10.5 JST	100	125	10.5
U-100*125*12 JST	100	125	12
U-101*110*6 JST	101	110	6
U-107*113*4.8 JST	107	113	4.8
U-107*113*5.2 JST	107	113	5.2
U-112.71*119.05*4.4 JST	112.71	119.05	4.4
U-117.6*127*8.89 JST	117.6	127	8.89
U-121*127*4.2 JST	121	127	4.2
U-121*131*8 JST	121	131	8
U-125*132*4.3 JST	125	132	4.3
U-127*133.35*4.7 JST	127	133.35	4.7
U-127*140*12.9 JST	127	140	12.9
U-127*142.87*9.27 JST	127	142.87	9.27
U-127*142.87*9.27 JST	127	142.87	9.27
U-130*136*5.2 JST	130	136	5.2
U-130*136*5.2 JST	130	136	5.2



JST



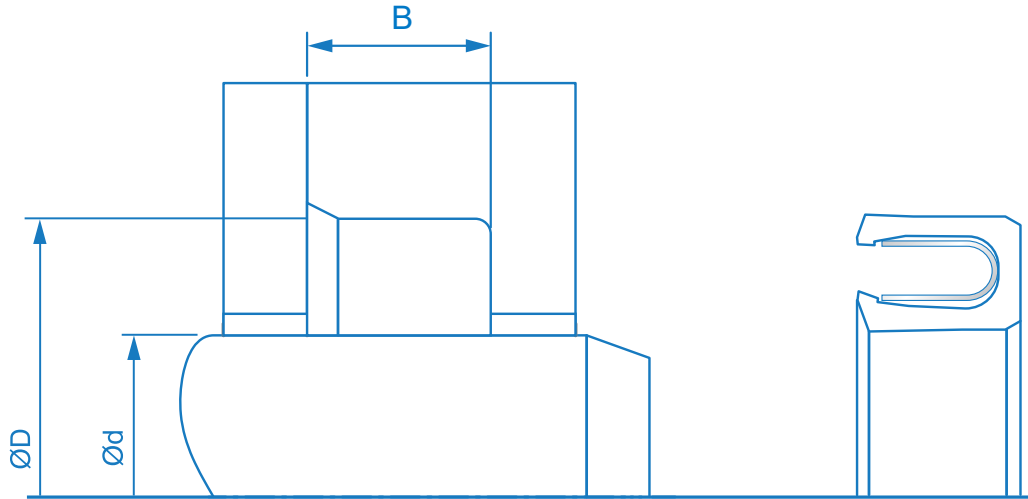
NO.	Ød	ØD	B
U-130*137*5.2 JST	130	137	5.2
U-134.8*141*5 JST	134.8	141	5
U-135*141*5 JST	135	141	5
U-138*150*7 JST	138	150	7
U-138*152*6.2 JST	138	152	6.2
U-140*147*4 JST	140	147	4
U-140*148*4 JST	140	148	4
U-141*150*6 JST	141	150	6
U-144*150*4 JST	144	150	4
U-145*151*4.5 JST	145	151	4.5
U-145*151*5 JST	145	151	5
U-145*151*5.2 JST	145	151	5.2
U-145*151*5.2 JST	145	151	5.2
U-145*151*5.5 JST	145	151	5.5
U-145*154*6.6 JST	145	154	6.6
U-146*156*7 JST	146	156	7
U-147*157*8.5 JST	147	157	8.5
U-150*170*6/7.50 JST	150	170	6/7.50
U-152*161*6.5 JST	152	161	6.5
U-152.4*168.27*9.27 JST	152.4	168.27	9.27
U-155*161.4*4.8 JST	155	161.4	4.8
U-158*190*19.5 JST	158	190	19.5
U-158.65*165.2*4.8 JST	158.65	165.2	4.8
U-158.75*190.5*19.05 JST	158.75	190.5	19.05
U-165*171*5 JST	165	171	5
U-165*171*5.2 JST	165	171	5.2



NO.	Ød	ØD	B
U-165*171*5.2 JST	165	171	5.2
U-165*174*6.6 JST	165	174	6.6
U-170*190*12 JST	170	190	12
U-172*178*4.3 JST	172	178	4.3
U-177.8*193.67*9.27 JST	177.8	193.67	9.27
U-177.8*193.67*9.39 JST	177.8	193.67	9.39
U-183.9*190.3*4.7 JST	183.9	190.3	4.7
U-188*198*6.2 JST	188	198	6.2
U-188*198*6.2 JST	188	198	6.2
U-190.5*203.2*8.99 JST	190.5	203.2	8.99
U-203.2*215.9*8.99 JST	203.2	215.9	8.99
U-215.9*231.77*9.27 JST	215.9	231.77	9.27
U-228.6*241.3*11.09 JST	228.6	241.3	11.09
U-228.6*241.3*9.52 JST	228.6	241.3	9.52
U-235*249*10.5 JST	235	249	10.5
U-241.3*257.17*9.27 JST	241.3	257.17	9.27
U-254*266.7*8.99 JST	254	266.7	8.99
U-266.7*282.57*9.27 JST	266.7	282.57	9.27
U-266.7*282.57*9.39 JST	266.7	282.57	9.39
U-280*296*9.5 JST	280	296	9.5
U-298.45*314.32*9.27 JST	298.45	314.32	9.27
U-300*320*6/7.50 JST	300	320	6/7.50
U-304.8*317.5*8.99 JST	304.8	317.5	8.99
U-304.8*336.55*11.09 JST	304.8	336.55	11.09
U-310*322.2*9.5 JST	310	322.2	9.5
U-330.2*346.07*9.27 JST	330.2	346.07	9.27

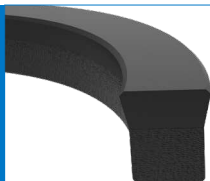


JST



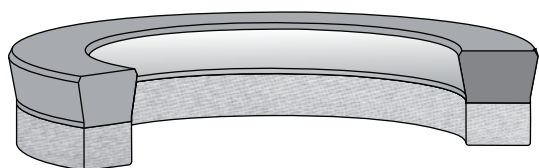
NO.	Ød	ØD	B
U-330.2*346.07*9.39 JST	330.2	346.07	9.39
U-330.2*361.95*11.1 JST	330.2	361.95	11.1
U-340*352*7.5 JST	340	352	7.5
U-343.02*352.42*6.6 JST	343.02	352.42	6.6
U-350*362.2*9.5 JST	350	362.2	9.5
U-369*382*12 JST	369	382	12
U-400.05*431.8*11.1 JST	400.05	431.8	11.1
U-400.05*431.8*11.17 JST	400.05	431.8	11.17
U-492*506*15.1 JST	492	506	15.1

UP1

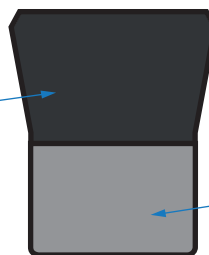


El UP1 es una junta en U de perfil simétrico y simple efecto, de diseño compacto, con el labio de estanqueidad rebajado y el respaldo reforzado con tejido. Gracias a su geometría reversible puede montarse como junta de vástago o de pistón. El refuerzo de tejido evita la extrusión en la holgura y reduce la fricción, lo que le permite ofrecer un excelente cierre incluso a bajas presiones y trabajar con fiabilidad frente a picos de presión.

The UP1 is a symmetrical single-acting U-shaped seal with a compact design, a recessed sealing lip and a fabric-reinforced back. Thanks to its reversible geometry it can be fitted as a rod or piston seal. The fabric reinforcement prevents gap extrusion and reduces friction, allowing it to provide excellent sealing even at low pressures and to work reliably against pressure peaks.



Aro de sellado
Sealing ring



Aro de refuerzo
Reinforcement ring



-50°C
350°C



25MPa



< 0.5m/s



6mm
2000mm

- Perfil simétrico que permite el uso como junta de vástago o de pistón.
- Simple efecto, para carga de presión por un solo lado.
- Respaldo reforzado con tejido que evita la extrusión en la holgura.
- El tejido reduce la fricción y aumenta la fiabilidad frente a picos de presión.
- Excelente cierre incluso en el rango de bajas presiones, con alta precarga.
- Diseño compacto y montaje sencillo por encaje (snap-on).



- Symmetrical profile allowing use as rod or piston seal.
- Single acting, for one-sided pressure load.
- Fabric-reinforced back that prevents gap extrusion.
- The fabric reduces friction and increases reliability against pressure peaks.
- Excellent sealing even in the low-pressure range, with high preload.
- Compact design and simple snap-on assembly.

Disponible en distintos compuestos según el fluido y la temperatura de trabajo: NBR, EPDM, FKM, FFKM, NR, CR, VMQ en durezas de entre 70 y 90 Shore A. PTFE en dureza de 60 Shore D. Todos ellos cuentan con aro de refuerzo fabricado con tejido de algodón que aporta resistencia a la extrusión. Ofrece un buen comportamiento frente a aceites hidráulicos según DIN 51524 partes 1 a 3, aceites y grasas lubricantes de base mineral y fluidos hidráulicos ignífugos HFA, HFB y HFC según VDMA 24317.

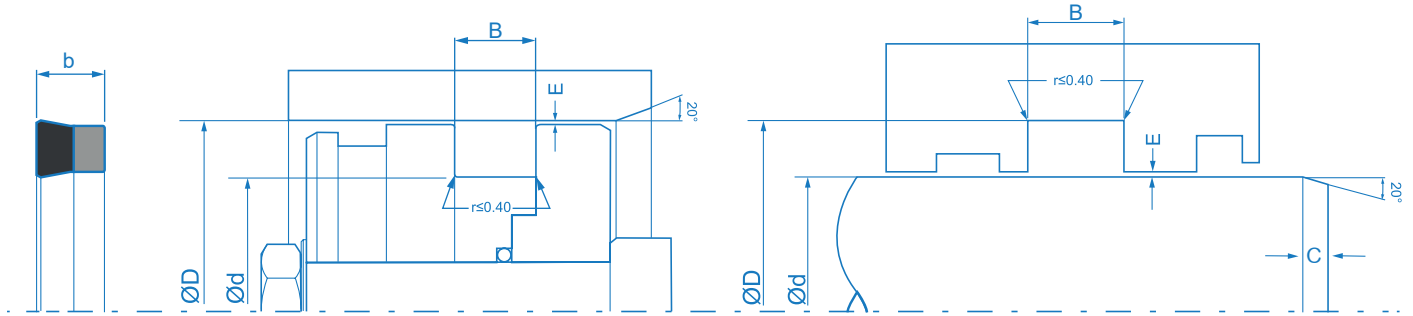
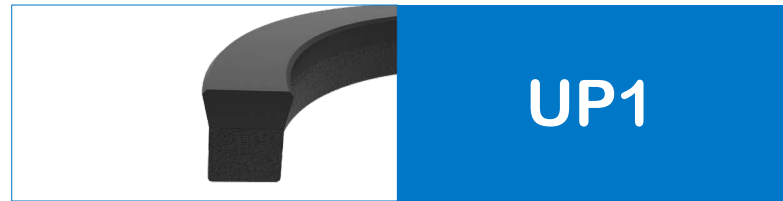


Available in different compounds depending on the fluid and the working temperature: NBR, EPDM, FKM, FFKM, NR, CR, VMQ in hardnesses between 70 and 90 Shore A. PTFE in a hardness of 60 Shore D. All of them feature a reinforcement ring made of cotton fabric that provides resistance to extrusion. It offers good performance against hydraulic oils to DIN 51524 parts 1 to 3, mineral-based lubricating oils and greases, and HFA, HFB and HFC fire-resistant hydraulic fluids to VDMA 24317.

Montaje en ranura axialmente abierta. Achaflanar y desbarbar los cantos del alojamiento y del vástago o pistón, y limpiar bien el alojamiento antes de instalar. No arrastrar la junta sobre cantos vivos, roscas o chaveteros, usando un casquillo de montaje si es necesario. Calentar la junta en aceite a 80 °C facilita su colocación, y el espacio entre labios puede rellenarse con un 40 % de grasa aproximadamente.

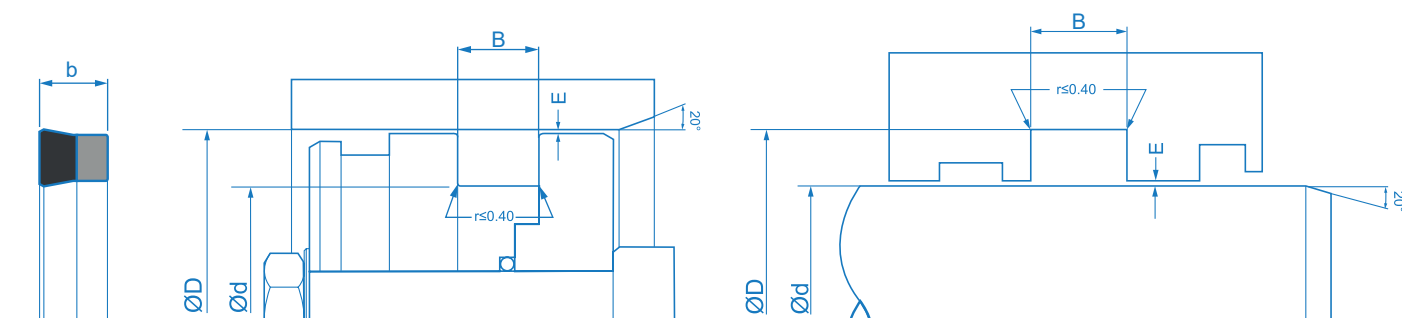
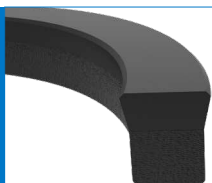


Fit in an axially open groove. Chamfer and deburr the edges of the housing and of the rod or piston, and clean the housing thoroughly before installation. Do not pull the seal over sharp edges, threads or keyways, using a mounting sleeve if necessary. Heating the seal in oil at 80 °C makes fitting easier, and the space between the sealing lips can be filled with approximately 40 % grease.

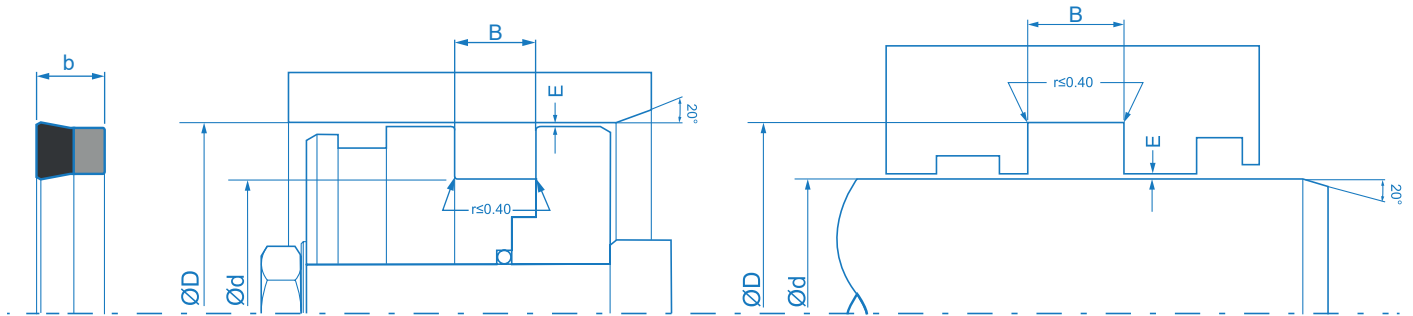
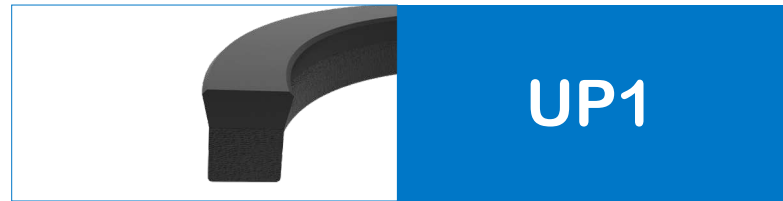


NO.	Ød	ØD	b	B	C
U-4.76*12.7*5.72 UP1	4.76	12.7	5.72	6.35	3
U-10*17*5.65 UP1	10	17	5.65	6.3	3
U-10*18*5.4 UP1	10	18	5.4	6	3
U-12*20*5.65 UP1	12	20	5.65	6.3	3
U-14*22*5.65 UP1	14	22	5.65	6.3	3
U-15*23*5.65 UP1	15	23	5.65	6.3	3
U-16*24*5.65 UP1	16	24	5.65	6.3	3
U-16*24*5.85 UP1	16	24	5.85	6.5	3
U-16*24*6.3 UP1	16	24	6.3	7	3
U-18*26*5.65 UP1	18	26	5.65	6.3	3
U-18*24*4.68 UP1	18	24	4.68	5.2	3
U-18*25*6.3 UP1	18	25	6.3	7	3
U-18*26*6.3 UP1	18	26	6.3	7	3
U-20*28*5.65 UP1	20	28	5.65	6.3	3
U-20*26*4.95 UP1	20	26	4.95	5.5	3
U-20*27*5.85 UP1	20	27	5.85	6.5	3
U-20*28*6.3 UP1	20	28	6.3	7	3
U-20*30*7.65 UP1	20	30	7.65	8.5	3
U-20*28*5.4 UP1	20	28	5.4	6	3
U-22*30*5.65 UP1	22	30	5.65	6.3	4
U-22*30*5.85 UP1	22	30	5.85	6.5	4
U-22*30*6.3 UP1	22	30	6.3	7	4
U-22*32*6.57 UP1	22	32	6.57	7.3	4
U-22*32*6.3 UP1	22	32	6.3	7	4
U-24*34*5.99 UP1	24	34	5.99	6.65	4
U-25*33*5.65 UP1	25	33	5.65	6.3	4

UP1

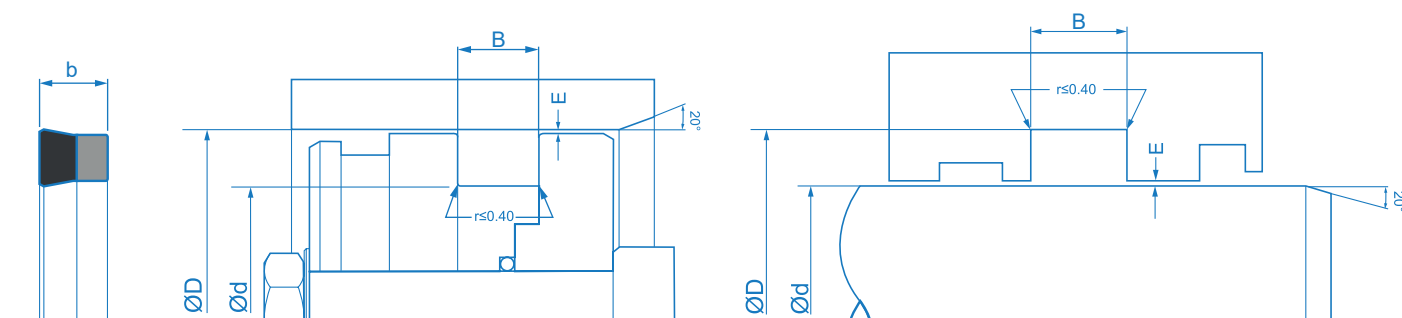
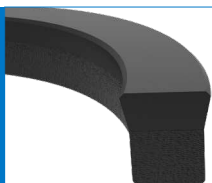


NO.	Ød	ØD	b	B	C
U-25*33*5.4 UP1	25	33	5.4	6	4
U-25*33*5.75 UP1	25	33	5.75	6.4	4
U-25*35*8.1 UP1	25	35	8.1	9	4
U-25*35*5.4 UP1	25	35	5.4	6	4
U-25.4*34.92*5.72 UP1	25.4	34.92	5.72	6.35	4
U-28*36*5.65 UP1	28	36	5.65	6.3	4
U-28*36*5.4 UP1	28	36	5.4	6	4
U-30*38*5.65 UP1	30	38	5.65	6.3	4
U-30*38*5.4 UP1	30	38	5.4	6	4
U-30*40*5.65 UP1	30	40	5.65	6.3	4
U-30*40*6.75 UP1	30	40	6.75	7.5	4
U-30*40*6.3 UP1	30	40	6.3	7	4
U-30*38*5.75 UP1	30	38	5.75	6.4	4
U-30*37.5*5.85 UP1	30	37.5	5.85	6.5	4
U-30*40*5.4 UP1	30	40	5.4	6	4
U-31.75*47.62*10.45 UP1	31.75	47.62	10.45	11.6	4
U-32*40*5.65 UP1	32	40	5.65	6.3	4
U-33*46*7.65 UP1	33	46	7.65	8.5	4
U-35*43*5.65 UP1	35	43	5.65	6.3	4
U-35*45*7.2 UP1	35	45	7.2	8	4
U-35*43*5.4 UP1	35	43	5.4	6	4
U-35*50*10.35 UP1	35	50	10.35	11.5	4
U-35*43*5.85 UP1	35	43	5.85	6.5	4
U-35*45*6.75 UP1	35	45	6.75	7.5	4
U-36*44*5.65 UP1	36	44	5.65	6.3	4
U-36*43*5.85 UP1	36	43	5.85	6.5	4

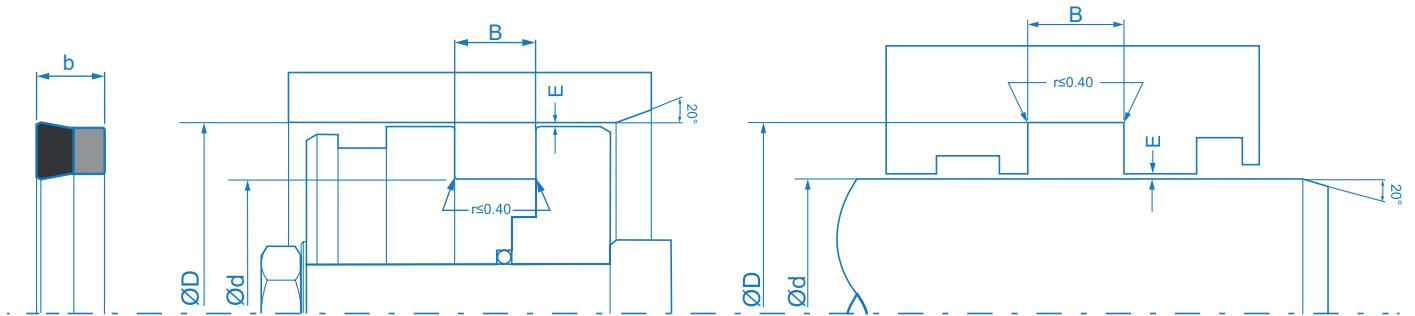
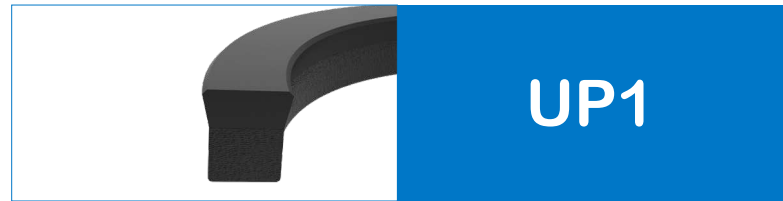


NO.	Ød	ØD	b	B	C
U-36*46*7.65 UP1	36	46	7.65	8.5	4
U-40*48*5.65 UP1	40	48	5.65	6.3	5
U-40*50*7.2 UP1	40	50	7.2	8	5
U-40*48*7.2 UP1	40	48	7.2	8	5
U-40*50*6.3 UP1	40	50	6.3	7	5
U-40*48*5.85 UP1	40	48	5.85	6.5	5
U-40*60*13.05 UP1	40	60	13.05	14.5	5
U-40*50*9.9 UP1	40	50	9.9	11	5
U-40*48*6.3 UP1	40	48	6.3	7	5
U-40*48*8.1 UP1	40	48	8.1	9	5
U-42*50*5.65 UP1	42	50	5.65	6.3	5
U-45*53*7.65 UP1	45	53	7.65	8.5	5
U-45*55*7.2 UP1	45	55	7.2	8	5
U-45*55*9.45 UP1	45	55	9.45	10.5	5
U-45*60*9.9 UP1	45	60	9.9	11	5
U-45*65*13.05 UP1	45	65	13.05	14.5	5
U-45*53*5.65 UP1	45	53	5.65	6.3	5
U-45*53*5.4 UP1	45	53	5.4	6	5
U-45*60*10.8 UP1	45	60	10.8	12	5
U-48*60*9 UP1	48	60	9	10	5
U-50*62*8.55 UP1	50	62	8.55	9.5	5
U-50*60*6.75 UP1	50	60	6.75	7.5	5
U-50*60*7.2 UP1	50	60	7.2	8	5
U-50*60*9 UP1	50	60	9	10	5
U-50*70*13.05 UP1	50	70	13.05	14.5	5
U-50*62*8.1 UP1	50	62	8.1	9	5

UP1



NO.	Ød	ØD	b	B	C
U-55*65*7.2 UP1	55	65	7.2	8	5
U-55*70*9.45 UP1	55	70	9.45	10.5	5
U-55*63*7.5 UP1	55	63	7.5	8.3	5
U-55*65*6.3 UP1	55	65	6.3	7	5
U-56*66*7.2 UP1	56	66	7.2	8	5
U-56*71*12.6 UP1	56	71	12.6	14	5
U-60*70*7.2 UP1	60	70	7.2	8	5
U-60*70*6.75 UP1	60	70	6.75	7.5	5
U-60*72*8.55 UP1	60	72	8.55	9.5	5
U-60*72*9 UP1	60	72	9	10	5
U-60*75*11.7 UP1	60	75	11.7	13	5
U-60*80*13.05 UP1	60	80	13.05	14.5	5
U-65*77*8.65 UP1	65	77	8.65	9.6	5
U-70*80*6.75 UP1	70	80	6.75	7.5	5
U-70*82*8.65 UP1	70	82	8.65	9.6	5
U-70*82*8.1 UP1	70	82	8.1	9	5
U-70*90*12.6 UP1	70	90	12.6	14	5
U-70*80*7.2 UP1	70	80	7.2	8	5
U-70*85*10.8 UP1	70	85	10.8	12	5
U-70*85*9 UP1	70	85	9	10	5
U-70*90*11.7 UP1	70	90	11.7	13	5
U-75*87*8.4 UP1	75	87	8.4	9.3	5
U-75*85*7.2 UP1	75	85	7.2	8	5
U-75*90*9 UP1	75	90	9	10	5
U-75*90*10.35 UP1	75	90	10.35	11.5	5
U-80*92*8.65 UP1	80	92	8.65	9.6	5

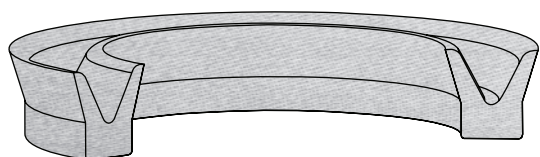


NO.	Ød	ØD	b	B	C
U-80*96*9 UP1	80	96	9	10	5
U-80*92*8.1 UP1	80	92	8.1	9	5
U-80*90*7.2 UP1	80	90	7.2	8	5
U-85*97*8.65 UP1	85	97	8.65	9.6	5
U-90*102*8.65 UP1	90	102	8.65	9.6	5
U-90*110*11.25 UP1	90	110	11.25	12.5	5
U-100*115*10.8 UP1	100	115	10.8	12	7
U-100*120*12.6 UP1	100	120	12.6	14	7
U-105*125*11.25 UP1	105	125	11.25	12.5	7
U-110*125*10.8 UP1	110	125	10.8	12	7
U-110*130*10.8 UP1	110	130	10.8	12	7
U-110*126*11.1 UP1	110	126	11.1	12.3	7

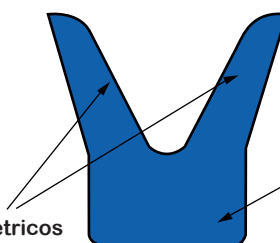


El CNP es una junta simétrica de simple efecto, fabricada en poliuretano de gran resistencia al desgaste, indicada para el sellado de cilindros hidráulicos de servicio ligero y medio. Su perfil simétrico permite emplearla tanto en pistón como en vástago, e incluso en cilindros de doble efecto. Gracias a su diseño robusto, ofrece un buen sellado aun cuando los vástagos y los aros guía están desgastados.

The CNP is a single-acting symmetrical seal, made of highly wear-resistant PU, intended for sealing light- and medium-duty hydraulic cylinders. Its symmetrical profile allows it to be used on both the piston and the rod, and even in double-acting cylinders. Thanks to its robust design, it provides good sealing even when the rods and guide rings are worn.



Labios de estanqueidad simétricos
Symmetrical sealing lips



Cuerpo de poliuretano
PU Body



-40°C
100°C



20MPa



< 0.5m/s



3mm
2000mm

- Excelente estanqueidad a presiones bajas y medias.
- Perfil simétrico apto para pistón y vástago, y para cilindros de doble efecto.
- Construcción de tejido y caucho de gran resistencia al desgaste.
- Buen funcionamiento incluso con vástagos y aros guía desgastados.
- Diseño robusto y larga vida útil.
- Amplia gama de medidas métricas y en pulgadas.



- Excellent tightness at low and medium pressures.
- Symmetrical profile suitable for both piston and rod, and for double-acting cylinders.
- Fabric-and-rubber construction with high wear resistance.
- Good performance even with worn rods and guide rings.
- Robust design and long service life.
- Wide range of metric and inch sizes.

Fabricado en poliuretano (PU) con durezas de 92 a 95 Shore A, un material de gran resistencia mecánica y a la abrasión que ofrece un excelente comportamiento frente a aceites hidráulicos según DIN 51524, aceites y grasas lubricantes de base mineral y fluidos hidráulicos ignífugos HFA, HFB y HFC.

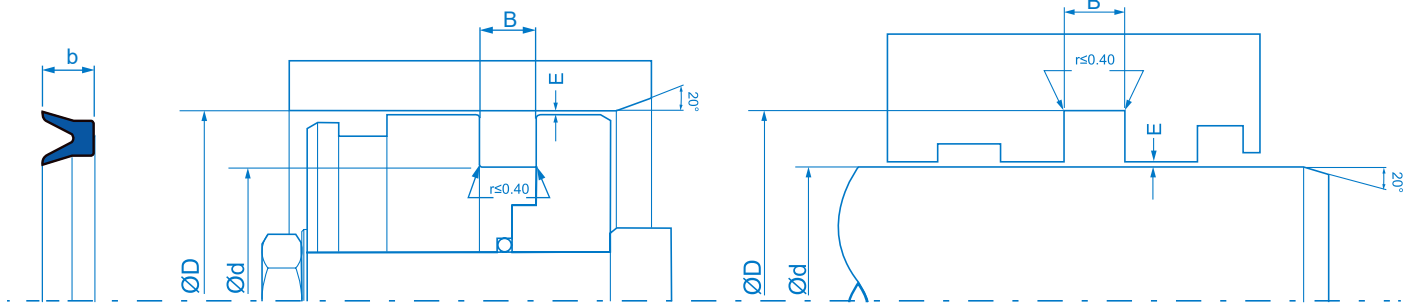


Made of polyurethane (PU) with hardnesses from 92 to 95 Shore A, a material of high mechanical and abrasion resistance that offers excellent performance against hydraulic oils to DIN 51524, mineral-based lubricating oils and greases, and HFA, HFB and HFC fire-resistant hydraulic fluids.

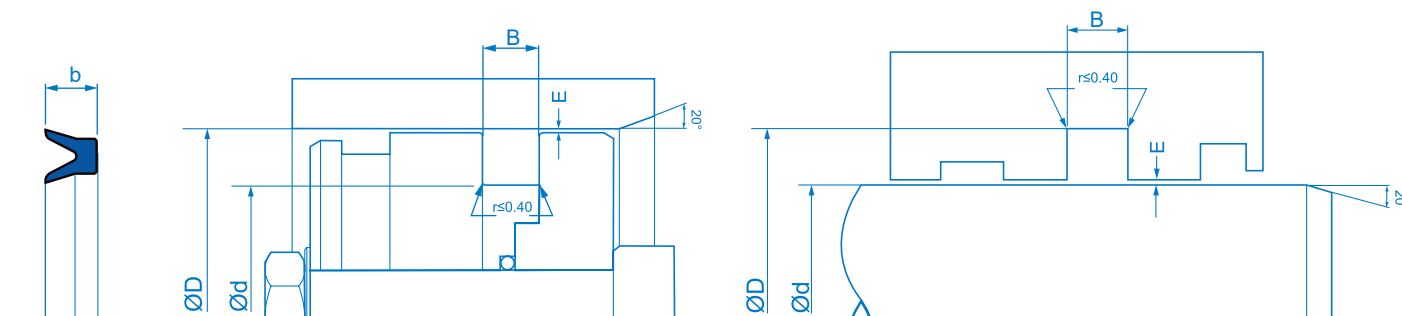
Las juntas simétricas de tejido se montan en pistones partidos o ranuras abiertas con anillo de retención. Achaflanar y eliminar los cantos vivos del alojamiento para no dañar la junta, y limpiar bien el alojamiento antes del montaje. Para la guía del pistón o del vástago se recomienda utilizar aros o cintas de guiado.



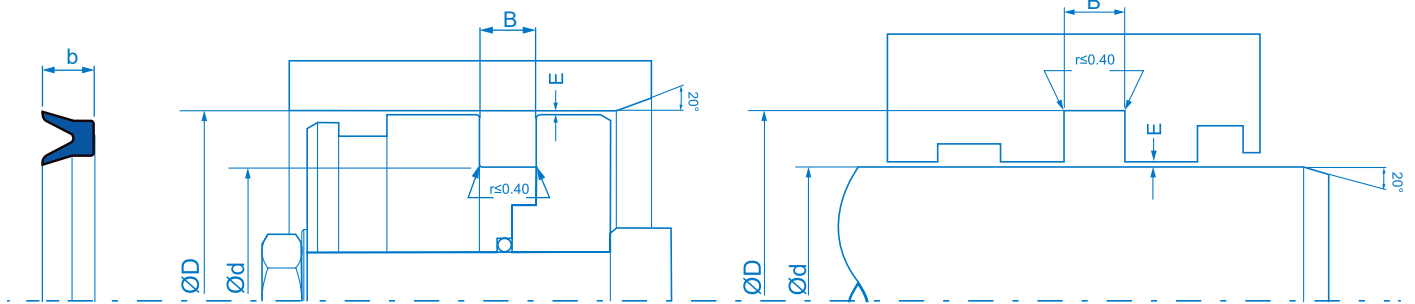
Fabric symmetrical seals are fitted in split pistons or open grooves with a retainer ring. Chamfer and remove the sharp edges of the housing so as not to damage the seal, and clean the installation space carefully before fitting. Guide rings or guide strips are recommended for guiding the piston or the rod.



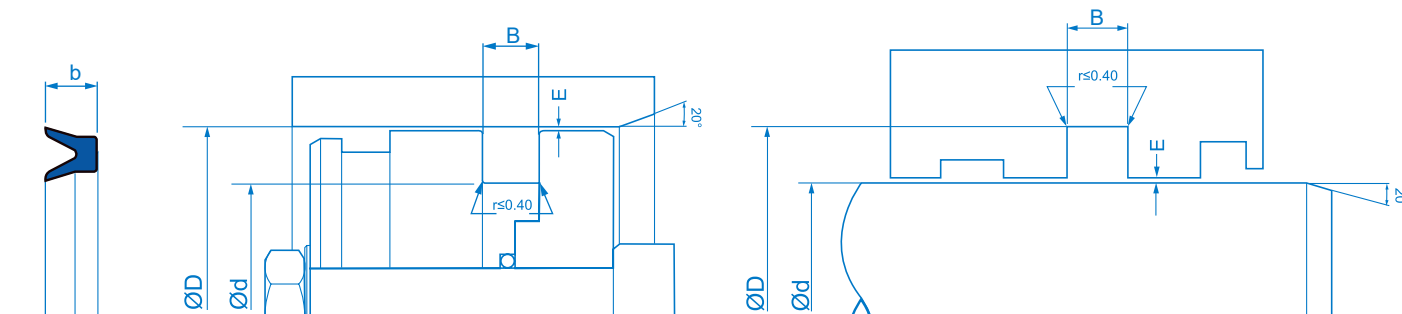
NO.	Ød	ØD	b	B
U-3*7*5 CNP	3	7	5	6
U-3*10*5 CNP	3	10	5	6
U-5*10*4 CNP	5	10	4	5
U-6*16*5 CNP	6	16	5	6
U-6*45*16 CNP	6	45	16	17
U-8.5*22*7 CNP	8.5	22	7	8
U-11*18*4.3 CNP	11	18	4.3	5.3
U-12.7*22.22*4.9 CNP	12.7	22.22	4.9	5.9
U-12.7*25.4*5 CNP	12.7	25.4	5	6
U-12.7*25.4*8 CNP	12.7	25.4	8	9
U-12.7*25.4*8.25 CNP	12.7	25.4	8.25	9.25
U-14*22*4.5 CNP	14	22	4.5	5.5
U-14*22*5 CNP	14	22	5	6
U-14*22*5.3 CNP	14	22	5.3	6.3
U-14*22*5.5 CNP	14	22	5.5	6.5
U-14*22*6 CNP	14	22	6	7
U-14*24*5 CNP	14	24	5	6
U-14*24*5.3 CNP	14	24	5.3	6.3
U-15*24*5.3 CNP	15	24	5.3	6.3
U-15*24*5.5 CNP	15	24	5.5	6.5
U-15*25*5 CNP	15	25	5	6
U-15*25*6 CNP	15	25	6	7
U-15*26*5 CNP	15	26	5	6
U-15*28*6.3 CNP	15	28	6.3	7.3
U-15*28*6.5 CNP	15	28	6.5	7.5
U-15*30*9 CNP	15	30	9	10



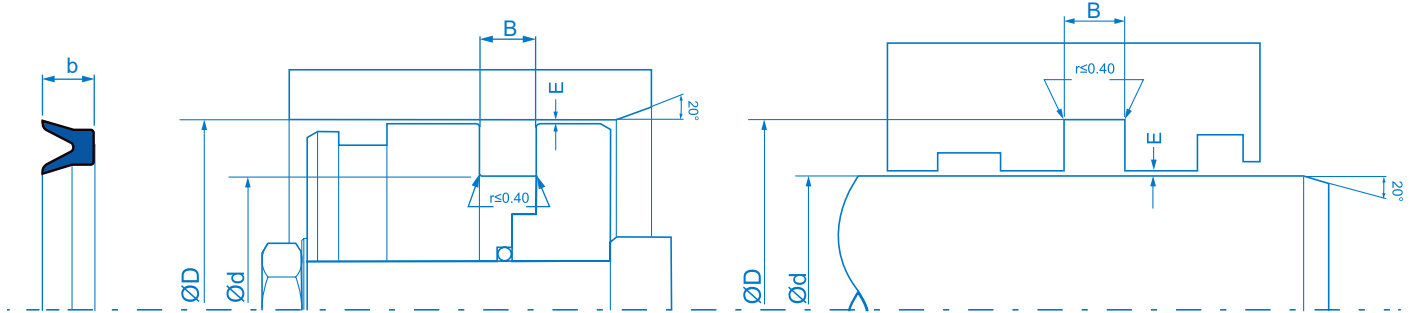
NO.	Ød	ØD	b	B
U-16*24*4.5 CNP	16	24	4.5	5.5
U-16*24*5 CNP	16	24	5	6
U-16*24*5.4 CNP	16	24	5.4	6.4
U-16*24*5.5 CNP	16	24	5.5	6.5
U-16*24*6.5 CNP	16	24	6.5	7.5
U-16*26*5 CNP	16	26	5	6
U-16*26*5.25 CNP	16	26	5.25	6.25
U-18*24*4 CNP	18	24	4	5
U-18*25*4 CNP	18	25	4	5
U-18*25*4.5 CNP	18	25	4.5	5.5
U-18*25*5 CNP	18	25	5	6
U-18*26*5.4 CNP	18	26	5.4	6.4
U-18*26*6.5 CNP	18	26	6.5	7.5
U-18*28*6 CNP	18	28	6	7
U-18*28*6.3 CNP	18	28	6.3	7.3
U-18*28*6.5 CNP	18	28	6.5	7.5
U-18*28*8 CNP	18	28	8	9
U-18*30*6 CNP	18	30	6	7
U-18*38*10 CNP	18	38	10	11
U-19*28*5.5 CNP	19	28	5.5	6.5
U-19.05*25.4*4.5 CNP	19.05	25.4	4.5	5.5
U-20*27*5 CNP	20	27	5	6
U-20*28*5 CNP	20	28	5	6
U-20*28*5.3 CNP	20	28	5.3	6.3
U-20*28*5.5 CNP	20	28	5.5	6.5
U-20*30*6 CNP	20	30	6	7



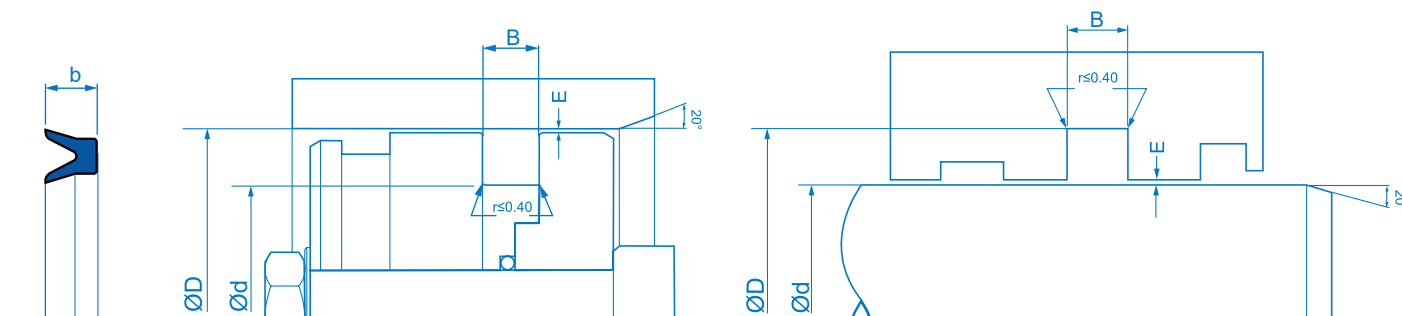
NO.	Ød	ØD	b	B
U-20*30*6.5 CNP	20	30	6.5	7.5
U-20*30*8 CNP	20	30	8	9
U-20*32*5.5 CNP	20	32	5.5	6.5
U-20*32*6 CNP	20	32	6	7
U-20*32*6.5 CNP	20	32	6.5	7.5
U-20*32*8 CNP	20	32	8	9
U-21.6*41.27*11 CNP	21.6	41.27	11	12
U-22*30*5.5 CNP	22	30	5.5	6.5
U-22*30*6.4 CNP	22	30	6.4	7.4
U-22*32*4 CNP	22	32	4	5
U-22*32*5.25 CNP	22	32	5.25	6.25
U-22*32*5.5 CNP	22	32	5.5	6.5
U-22*32*6 CNP	22	32	6	7
U-22*32*8.5 CNP	22	32	8.5	9.5
U-22*38*13.5 CNP	22	38	13.5	14.5
U-22.2*28.57*6.35 CNP	22.2	28.57	6.35	7.35
U-22.22*42.46*12.7 CNP	22.22	42.46	12.7	13.7
U-24*32*6.4 CNP	24	32	6.4	7.4
U-24*36*7 CNP	24	36	7	8
U-25*33*7 CNP	25	33	7	8
U-25*35*6.3 CNP	25	35	6.3	7.3
U-25*38*6.5 CNP	25	38	6.5	7.5
U-25.4*34.8*7 CNP	25.4	34.8	7	8
U-25.4*34.92*6.35 CNP	25.4	34.92	6.35	7.35
U-25.4*38*6.3 CNP	25.4	38	6.3	7.3
U-25.4*38.1*6.35 CNP	25.4	38.1	6.35	7.35



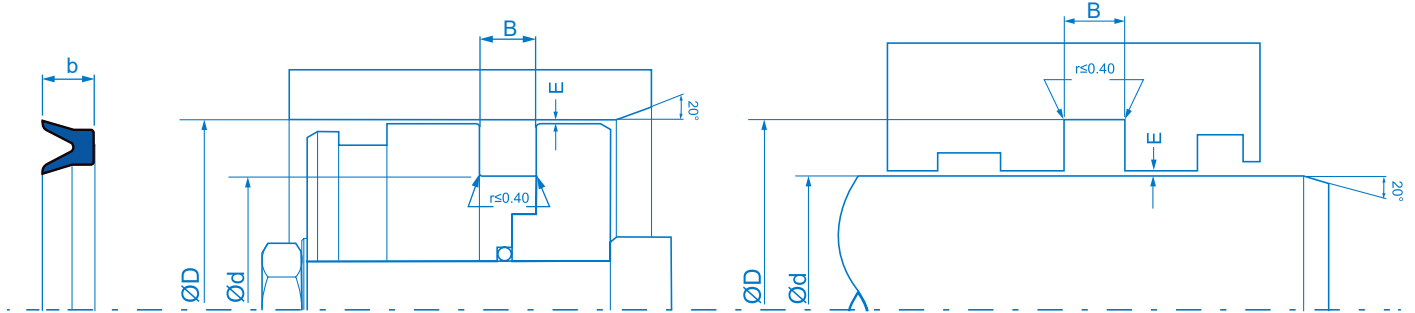
NO.	Ød	ØD	b	B
U-35*48*6.5 CNP	35	48	6.5	7.5
U-35*48*7 CNP	35	48	7	8
U-35*49*7 CNP	35	49	7	8
U-35*50*8 CNP	35	50	8	9
U-35*50*8.5 CNP	35	50	8.5	9.5
U-35*50*10 CNP	35	50	10	11
U-35.71*46.73*4.77 CNP	35.71	46.73	4.77	5.77
U-35.71*50.8*8.5 CNP	35.71	50.8	8.5	9.5
U-36*44*6 CNP	36	44	6	7
U-36*46*8 CNP	36	46	8	9
U-36*46*10 CNP	36	46	10	11
U-36*48*9.5 CNP	36	48	9.5	10.5
U-37.1*57.15*9 CNP	37.1	57.15	9	10
U-37.6*52*8 CNP	37.6	52	8	9
U-38*50*8 CNP	38	50	8	9
U-38*52*8 CNP	38	52	8	9
U-38.1*50.8*6.35 CNP	38.1	50.8	6.35	7.35
U-38.1*53.97*11.25 CNP	38.1	53.97	11.25	12.25
U-38.1*60.32*18 CNP	38.1	60.32	18	19
U-40*50*6.4 CNP	40	50	6.4	7.4
U-40*50*7.3 CNP	40	50	7.3	8.3
U-40*50*7.5 CNP	40	50	7.5	8.5
U-40*50*10 CNP	40	50	10	11
U-40*55*5.5 CNP	40	55	5.5	6.5
U-40*55*9.5 CNP	40	55	9.5	10.5
U-40*55*10 CNP	40	55	10	11



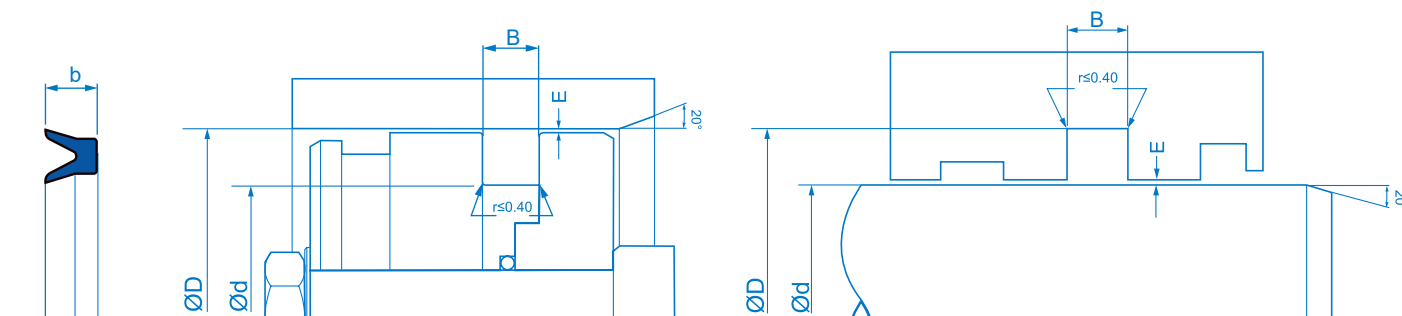
NO.	Ød	ØD	b	B
U-41.3*53.97*6.35 CNP	41.3	53.97	6.35	7.35
U-42*50*7.5 CNP	42	50	7.5	8.5
U-42*86*25 CNP	42	86	25	26
U-44*50*8 CNP	44	50	8	9
U-44*57*9.5 CNP	44	57	9.5	10.5
U-44.5*63.5*10 CNP	44.5	63.5	10	11
U-45*55*10 CNP	45	55	10	11
U-45*60*10.5 CNP	45	60	10.5	11.5
U-45*63*10 CNP	45	63	10	11
U-45*63*12 CNP	45	63	12	13
U-45*63.5*11 CNP	45	63.5	11	12
U-45*65*10 CNP	45	65	10	11
U-45*65*12 CNP	45	65	12	13
U-45*65*18 CNP	45	65	18	19
U-45*70*12.5 CNP	45	70	12.5	13.5
U-45*75*20 CNP	45	75	20	21
U-46*63*8 CNP	46	63	8	9
U-47*63*7.8 CNP	47	63	7.8	8.8
U-47*63*11.5 CNP	47	63	11.5	12.5
U-47.62*57.15*6.5 CNP	47.62	57.15	6.5	7.5
U-48*63.5*13 CNP	48	63.5	13	14
U-49*57*8.5 CNP	49	57	8.5	9.5
U-50*60*7 CNP	50	60	7	8
U-50*63.5*8.5 CNP	50	63.5	8.5	9.5
U-50*65*8 CNP	50	65	8	9
U-50*65*8.5 CNP	50	65	8.5	9.5



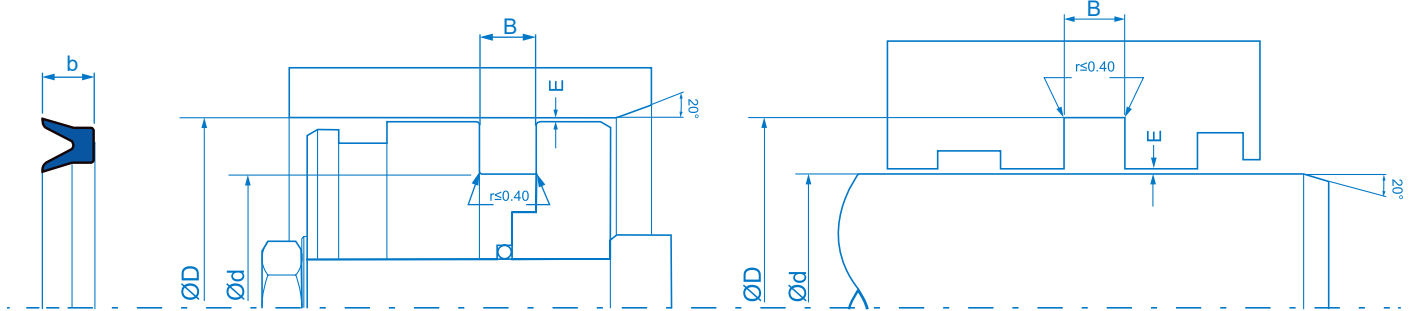
NO.	Ød	ØD	b	B
U-50*70*10 CNP	50	70	10	11
U-50*75*12 CNP	50	75	12	13
U-50*75*15 CNP	50	75	15	16
U-50*78*11.5 CNP	50	78	11.5	12.5
U-50.8*69.85*9.52 CNP	50.8	69.85	9.52	10.52
U-52*69*9 CNP	52	69	9	10
U-52*77*8 CNP	52	77	8	9
U-53.97*63.5*4.76 CNP	53.97	63.5	4.76	5.76
U-54*78*12 CNP	54	78	12	13
U-55*78*12 CNP	55	78	12	13
U-55*80*14 CNP	55	80	14	15
U-55.16*78.16*12.7 CNP	55.16	78.16	12.7	13.7
U-56*66*10 CNP	56	66	10	11
U-56*71*11.5 CNP	56	71	11.5	12.5
U-57.15*76.2*12.19 CNP	57.15	76.2	12.19	13.19
U-57.15*76.2*14 CNP	57.15	76.2	14	15
U-57.2*76.5*14 CNP	57.2	76.5	14	15
U-57.94*77.79*12.7 CNP	57.94	77.79	12.7	13.7
U-58*72*8 CNP	58	72	8	9
U-58*75*12 CNP	58	75	12	13
U-58*78*10 CNP	58	78	10	11
U-58*78*12 CNP	58	78	12	13
U-58*78*14 CNP	58	78	14	15
U-58*78.5*13 CNP	58	78.5	13	14
U-58.42*78.42*13.5 CNP	58.42	78.42	13.5	14.5
U-59*79*12 CNP	59	79	12	13



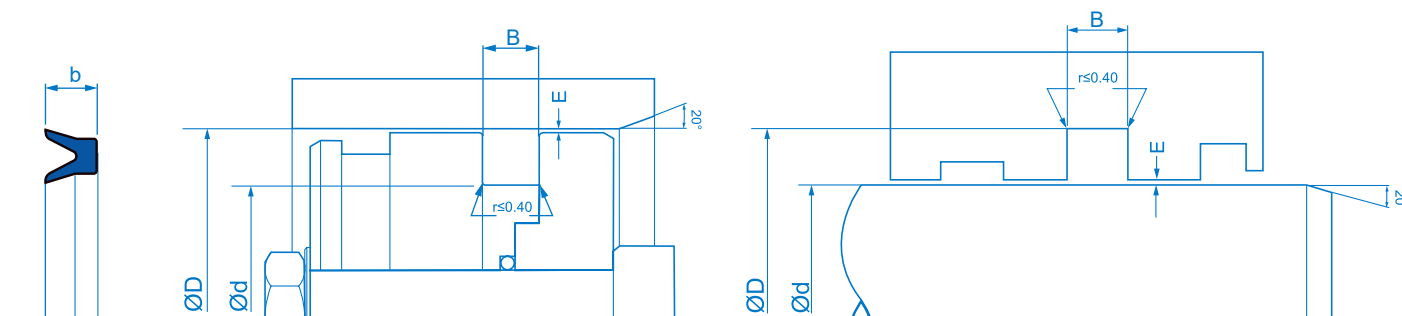
NO.	Ød	ØD	b	B
U-60*68*13 CNP	60	68	13	14
U-60*70*10 CNP	60	70	10	11
U-60*75*12 CNP	60	75	12	13
U-60*80*10 CNP	60	80	10	11
U-60*80*12 CNP	60	80	12	13
U-60*80*13 CNP	60	80	13	14
U-60*80*14 CNP	60	80	14	15
U-60*80*15 CNP	60	80	15	16
U-60*80*15.5 CNP	60	80	15.5	16.5
U-60*80*16 CNP	60	80	16	17
U-60.2*76.2*9.7 CNP	60.2	76.2	9.7	10.7
U-63*78*25 CNP	63	78	25	26
U-63.5*76.1*9.3 CNP	63.5	76.1	9.3	10.3
U-63.5*82.55*12.7 CNP	63.5	82.55	12.7	13.7
U-63.5*88.9*13.5 CNP	63.5	88.9	13.5	14.5
U-65*85*12 CNP	65	85	12	13
U-65*95*12 CNP	65	95	12	13
U-65.08*80.15*8 CNP	65.08	80.15	8	9
U-67*86*12 CNP	67	86	12	13
U-67*87*12 CNP	67	87	12	13
U-68*83*11.5 CNP	68	83	11.5	12.5
U-69.9*88.9*12.7 CNP	69.9	88.9	12.7	13.7
U-70*82*9 CNP	70	82	9	10
U-70*82*14.3 CNP	70	82	14.3	15.3
U-70*85*8.5 CNP	70	85	8.5	9.5
U-70*85*12 CNP	70	85	12	13



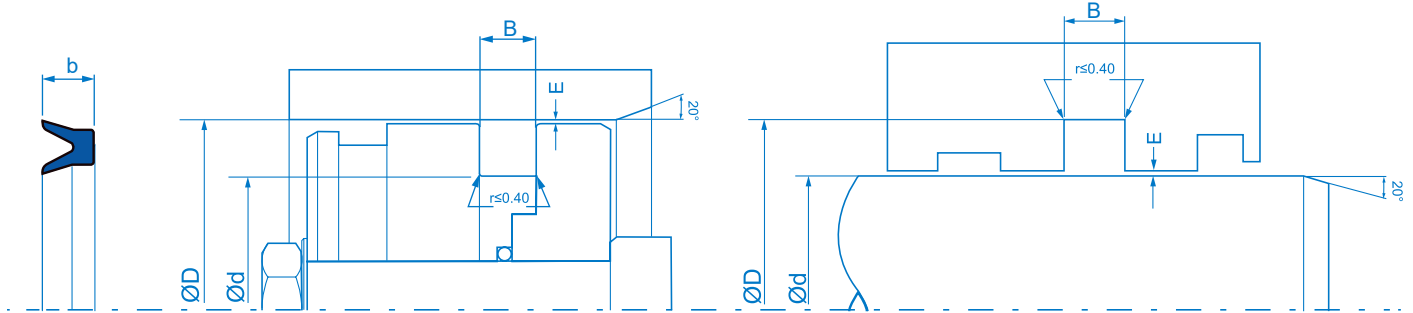
NO.	Ød	ØD	b	B
U-70*90*8 CNP	70	90	8	9
U-70*90*14 CNP	70	90	14	15
U-70*100*15 CNP	70	100	15	16
U-75*100*10 CNP	75	100	10	11
U-75*100*15 CNP	75	100	15	16
U-76.2*88.9*7.14 CNP	76.2	88.9	7.14	8.14
U-76.2*88.9*8.5 CNP	76.2	88.9	8.5	9.5
U-76.2*95.25*9.52 CNP	76.2	95.25	9.52	10.52
U-76.2*101.6*16.5 CNP	76.2	101.6	16.5	17.5
U-77*100*12 CNP	77	100	12	13
U-78*86*8 CNP	78	86	8	9
U-78*86*13 CNP	78	86	13	14
U-78*86*13.5 CNP	78	86	13.5	14.5
U-78*88*14.5 CNP	78	88	14.5	15.5
U-80*95*14 CNP	80	95	14	15
U-80*100*8.5 CNP	80	100	8.5	9.5
U-80*100*12 CNP	80	100	12	13
U-80*100*12.5 CNP	80	100	12.5	13.5
U-80*100*13 CNP	80	100	13	14
U-80*100*14 CNP	80	100	14	15
U-80*100*15 CNP	80	100	15	16
U-80*100*15.7 CNP	80	100	15.7	16.7
U-80*100*16 CNP	80	100	16	17
U-80*102*10 CNP	80	102	10	11
U-80*110*16 CNP	80	110	16	17
U-82*96*8 CNP	82	96	8	9



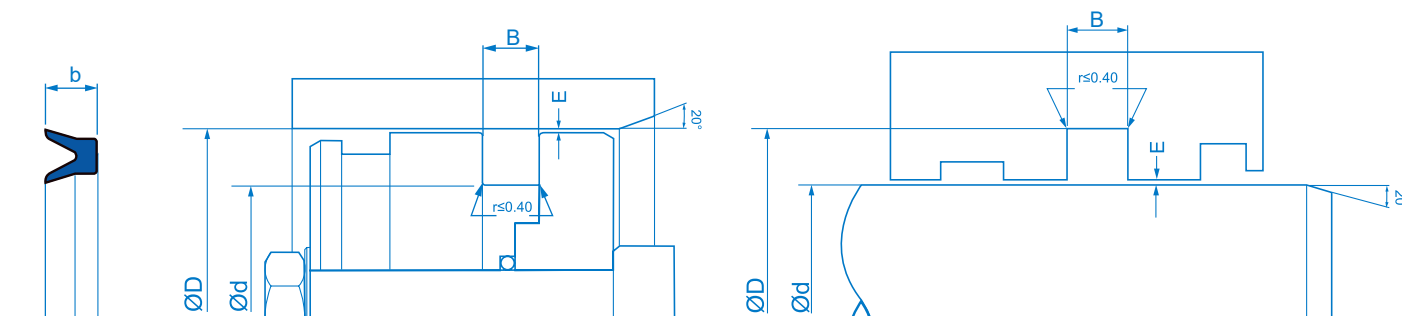
NO.	Ød	ØD	b	B
U-82*100*13 CNP	82	100	13	14
U-82*101.6*10 CNP	82	101.6	10	11
U-82*102*9.5 CNP	82	102	9.5	10.5
U-82*102*10 CNP	82	102	10	11
U-82.55*101.6*8 CNP	82.55	101.6	8	9
U-82.55*101.6*11.9 CNP	82.55	101.6	11.9	12.9
U-82.55*101.6*12 CNP	82.55	101.6	12	13
U-82.55*101.6*12.7 CNP	82.55	101.6	12.7	13.7
U-82.55*107.95*12.7 CNP	82.55	107.95	12.7	13.7
U-82.56*101.6*13 CNP	82.56	101.6	13	14
U-83*101.6*12.5 CNP	83	101.6	12.5	13.5
U-83.18*101.6*13.3 CNP	83.18	101.6	13.3	14.3
U-85*93*12 CNP	85	93	12	13
U-85*105*10 CNP	85	105	10	11
U-85*105*12 CNP	85	105	12	13
U-85*105.6*12 CNP	85	105.6	12	13
U-85*110*10 CNP	85	110	10	11
U-85*115*15 CNP	85	115	15	16
U-85.55*107.95*12.7 CNP	85.55	107.95	12.7	13.7
U-86*104*10 CNP	86	104	10	11
U-86*106*13 CNP	86	106	13	14
U-87*98*12 CNP	87	98	12	13
U-88*115*19.5 CNP	88	115	19.5	20.5
U-88.9*114.3*12.7 CNP	88.9	114.3	12.7	13.7
U-89*108*10 CNP	89	108	10	11
U-90*100*11 CNP	90	100	11	12



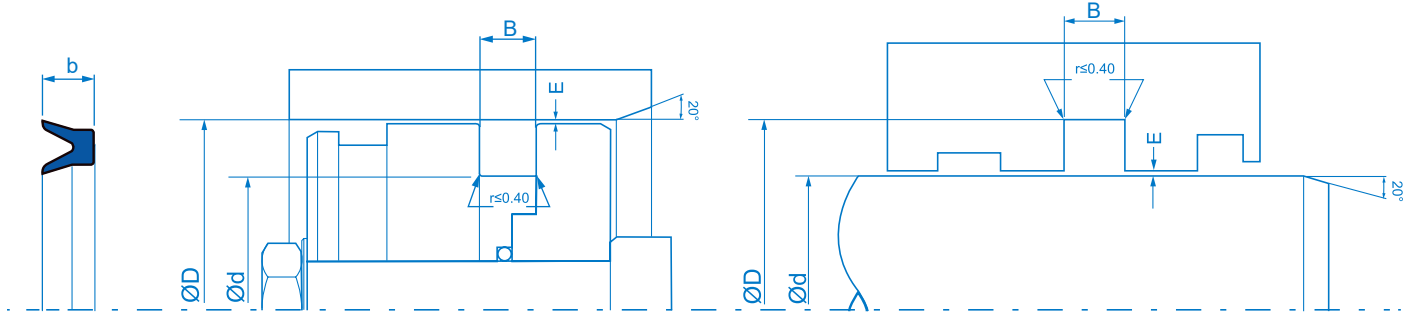
NO.	Ød	ØD	b	B
U-90*102*6 CNP	90	102	6	7
U-90*104*12 CNP	90	104	12	13
U-90*105*8.5 CNP	90	105	8.5	9.5
U-90*105*9.1 CNP	90	105	9.1	10.1
U-90*105*15 CNP	90	105	15	16
U-90*110*10 CNP	90	110	10	11
U-90*110*13 CNP	90	110	13	14
U-90*110*15 CNP	90	110	15	16
U-90*115*15 CNP	90	115	15	16
U-91.94*111.12*12.7 CNP	91.94	111.12	12.7	13.7
U-95*112*11.2 CNP	95	112	11.2	12.2
U-95*115*12 CNP	95	115	12	13
U-95*115*15 CNP	95	115	15	16
U-95.25*114.3*15.87 CNP	95.25	114.3	15.87	16.87
U-97*105*13 CNP	97	105	13	14
U-97*105*13.5 CNP	97	105	13.5	14.5
U-97*107*14.5 CNP	97	107	14.5	15.5
U-98*115*11.5 CNP	98	115	11.5	12.5
U-98*125*20 CNP	98	125	20	21
U-98*125*21 CNP	98	125	21	22
U-99*125*14 CNP	99	125	14	15
U-100*120*10 CNP	100	120	10	11
U-100*120*10.5 CNP	100	120	10.5	11.5
U-100*120*12 CNP	100	120	12	13
U-100*120*12.5 CNP	100	120	12.5	13.5
U-100*122*14.5 CNP	100	122	14.5	15.5



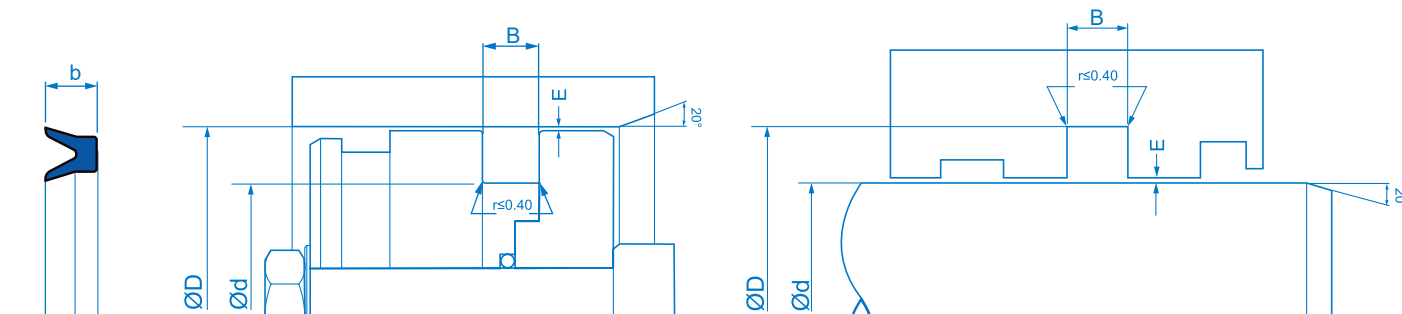
NO.	Ød	ØD	b	B
U-100*125*10 CNP	100	125	10	11
U-100*125*14.5 CNP	100	125	14.5	15.5
U-100*125*15 CNP	100	125	15	16
U-100*125*17.7 CNP	100	125	17.7	18.7
U-100*125*18.5 CNP	100	125	18.5	19.5
U-100*125*19 CNP	100	125	19	20
U-100*125*20 CNP	100	125	20	21
U-100*125*21 CNP	100	125	21	22
U-100*130*12 CNP	100	130	12	13
U-100*132*17 CNP	100	132	17	18
U-101.6*120.65*12.5 CNP	101.6	120.65	12.5	13.5
U-101.6*127*12.7 CNP	101.6	127	12.7	13.7
U-101.6*127*19.05 CNP	101.6	127	19.05	20.05
U-102*125*20 CNP	102	125	20	21
U-103*127*12 CNP	103	127	12	13
U-103*127*13 CNP	103	127	13	14
U-103*130.5*16 CNP	103	130.5	16	17
U-103*135*15 CNP	103	135	15	16
U-103.8*127.75*13 CNP	103.8	127.75	13	14
U-104*125*20 CNP	104	125	20	21
U-104*140*20 CNP	104	140	20	21
U-105*113*12 CNP	105	113	12	13
U-105*125*13 CNP	105	125	13	14
U-105*125*15 CNP	105	125	15	16
U-105*130*15 CNP	105	130	15	16
U-105*130*20 CNP	105	130	20	21



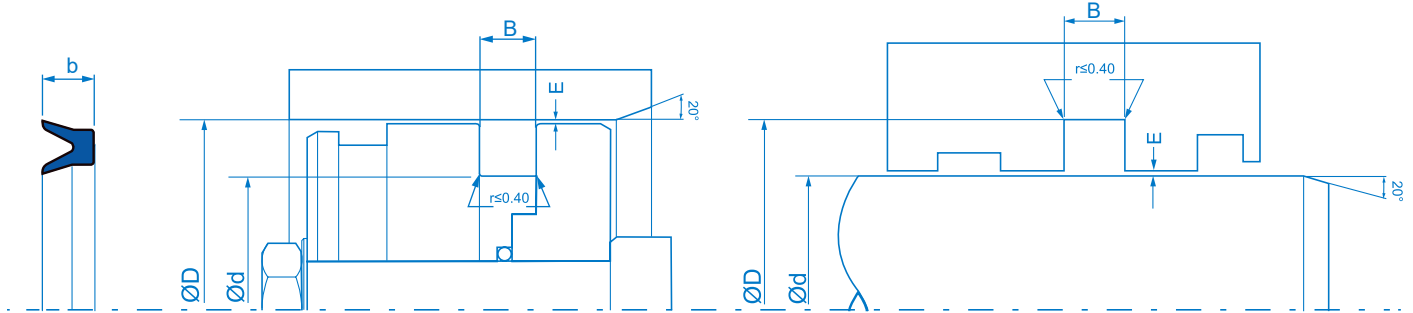
NO.	Ød	ØD	b	B
U-107*125*11.5 CNP	107	125	11.5	12.5
U-107.95*127*12.7 CNP	107.95	127	12.7	13.7
U-110*122*14 CNP	110	122	14	15
U-110*128*10 CNP	110	128	10	11
U-110*130*15 CNP	110	130	15	16
U-110*135*12 CNP	110	135	12	13
U-110*135*21 CNP	110	135	21	22
U-110*137*15 CNP	110	137	15	16
U-110*140*15 CNP	110	140	15	16
U-110*140*18.5 CNP	110	140	18.5	19.5
U-110*148*19 CNP	110	148	19	20
U-110*150*17 CNP	110	150	17	18
U-110*155*20 CNP	110	155	20	21
U-112*135*15 CNP	112	135	15	16
U-114.3*140*14.5 CNP	114.3	140	14.5	15.5
U-114.3*152.4*15.6 CNP	114.3	152.4	15.6	16.6
U-115*127.7*6.35 CNP	115	127.7	6.35	7.35
U-115*135*13 CNP	115	135	13	14
U-115*135*16.5 CNP	115	135	16.5	17.5
U-115*140*20.5 CNP	115	140	20.5	21.5
U-116*126*14.5 CNP	116	126	14.5	15.5
U-118*126*13 CNP	118	126	13	14
U-118*126*14 CNP	118	126	14	15
U-120*140*12 CNP	120	140	12	13
U-120*140*15 CNP	120	140	15	16
U-120*150*15 CNP	120	150	15	16



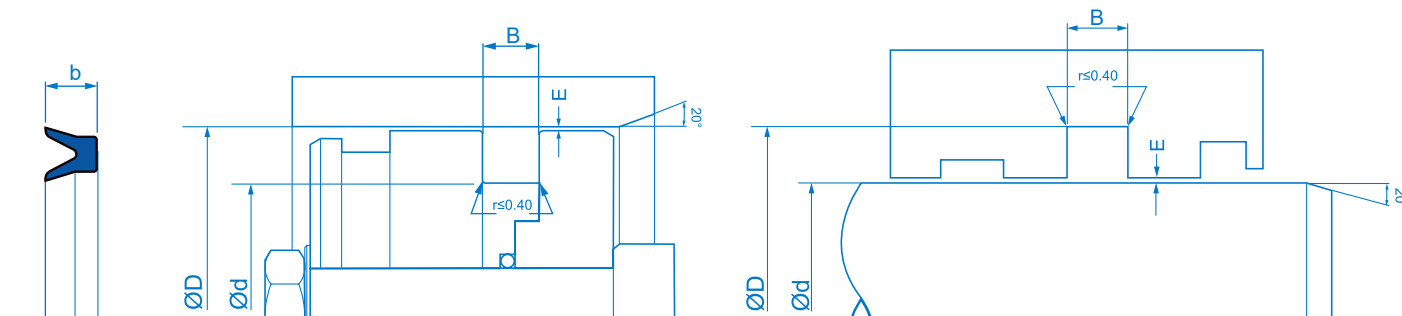
NO.	Ød	ØD	b	B
U-120*150*26 CNP	120	150	26	27
U-122.8*146*19 CNP	122.8	146	19	20
U-123.25*146*19 CNP	123.25	146	19	20
U-125*133*12 CNP	125	133	12	13
U-125*150*13 CNP	125	150	13	14
U-125*165*20 CNP	125	165	20	21
U-127*135*12 CNP	127	135	12	13
U-127*146.05*12.7 CNP	127	146.05	12.7	13.7
U-127*147*12.8 CNP	127	147	12.8	13.8
U-127*152*21 CNP	127	152	21	22
U-127*152.4*12.7 CNP	127	152.4	12.7	13.7
U-127*152.4*20 CNP	127	152.4	20	21
U-130*150*15 CNP	130	150	15	16
U-130*154*17 CNP	130	154	17	18
U-130*156*17 CNP	130	156	17	18
U-130*160*18 CNP	130	160	18	19
U-131*160*15 CNP	131	160	15	16
U-133.35*152.4*17.5 CNP	133.35	152.4	17.5	18.5
U-133.35*152.4*19.05 CNP	133.35	152.4	19.05	20.05
U-135*145*14.5 CNP	135	145	14.5	15.5
U-135*160*18 CNP	135	160	18	19
U-135*160*18.2 CNP	135	160	18.2	19.2
U-135*160*18.3 CNP	135	160	18.3	19.3
U-135*160*18.5 CNP	135	160	18.5	19.5
U-135*160*20 CNP	135	160	20	21
U-135*165*25 CNP	135	165	25	26



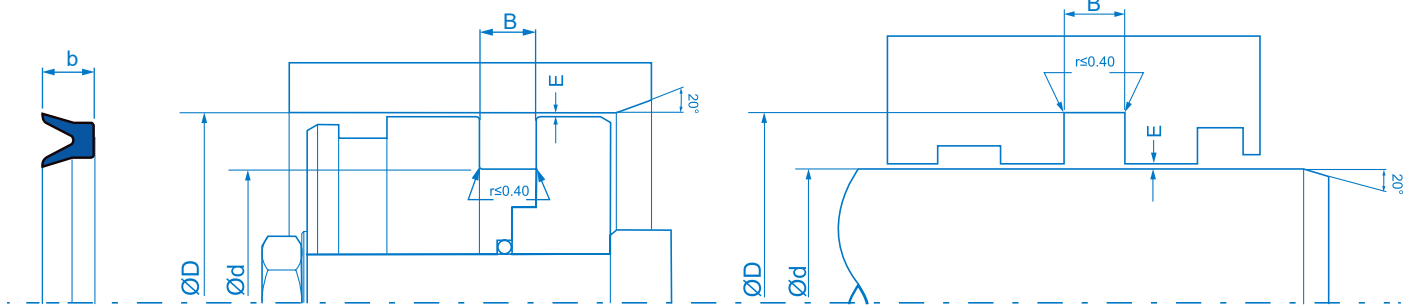
NO.	Ød	ØD	b	B
U-135*175*20 CNP	135	175	20	21
U-136.52*152.4*7.93 CNP	136.52	152.4	7.93	8.93
U-138*153*12 CNP	138	153	12	13
U-138.4*152.4*7.5 CNP	138.4	152.4	7.5	8.5
U-140*160*13 CNP	140	160	13	14
U-140*160*15.3 CNP	140	160	15.3	16.3
U-140*160*16 CNP	140	160	16	17
U-140*160*17.2 CNP	140	160	17.2	18.2
U-140*170*18 CNP	140	170	18	19
U-140*170*18.7 CNP	140	170	18.7	19.7
U-140*170*19.3 CNP	140	170	19.3	20.3
U-140*180*15 CNP	140	180	15	16
U-140*210*20 CNP	140	210	20	21
U-143*151*13 CNP	143	151	13	14
U-145*153*12 CNP	145	153	12	13
U-145*160*9.2 CNP	145	160	9.2	10.2
U-150*175*14.5 CNP	150	175	14.5	15.5
U-150*175*20 CNP	150	175	20	21
U-150*175*21 CNP	150	175	21	22
U-150*180*18 CNP	150	180	18	19
U-150*180*19.5 CNP	150	180	19.5	20.5
U-150*180*22 CNP	150	180	22	23
U-150*180*25 CNP	150	180	25	26
U-150*200*25 CNP	150	200	25	26
U-152*160*12 CNP	152	160	12	13
U-152.4*184.15*18.5 CNP	152.4	184.15	18.5	19.5



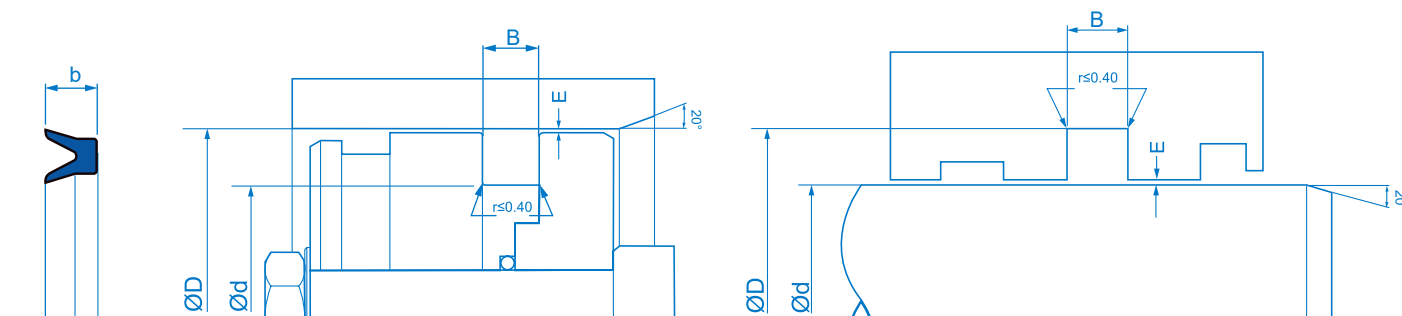
NO.	Ød	ØD	b	B
U-155*165*14.5 CNP	155	165	14.5	15.5
U-155*180*20 CNP	155	180	20	21
U-155*180*24 CNP	155	180	24	25
U-156.43*177.8*13.7 CNP	156.43	177.8	13.7	14.7
U-160*185*20 CNP	160	185	20	21
U-160*190*16 CNP	160	190	16	17
U-160*190*18 CNP	160	190	18	19
U-160*190*25 CNP	160	190	25	26
U-160*200*15 CNP	160	200	15	16
U-160*200*25 CNP	160	200	25	26
U-165*200*20 CNP	165	200	20	21
U-165*200*22 CNP	165	200	22	23
U-165.1*203.2*21 CNP	165.1	203.2	21	22
U-165.5*200*17 CNP	165.5	200	17	18
U-166*201*25 CNP	166	201	25	26
U-168.3*200*23.5 CNP	168.3	200	23.5	24.5
U-168.3*211.5*25 CNP	168.3	211.5	25	26
U-170*190*15 CNP	170	190	15	16
U-170*200*15 CNP	170	200	15	16
U-170*200*16.5 CNP	170	200	16.5	17.5
U-170*200*20 CNP	170	200	20	21
U-170*200*23 CNP	170	200	23	24
U-171*179*14 CNP	171	179	14	15
U-174.5*200*17 CNP	174.5	200	17	18
U-175*185*14.5 CNP	175	185	14.5	15.5
U-175*199*15 CNP	175	199	15	16



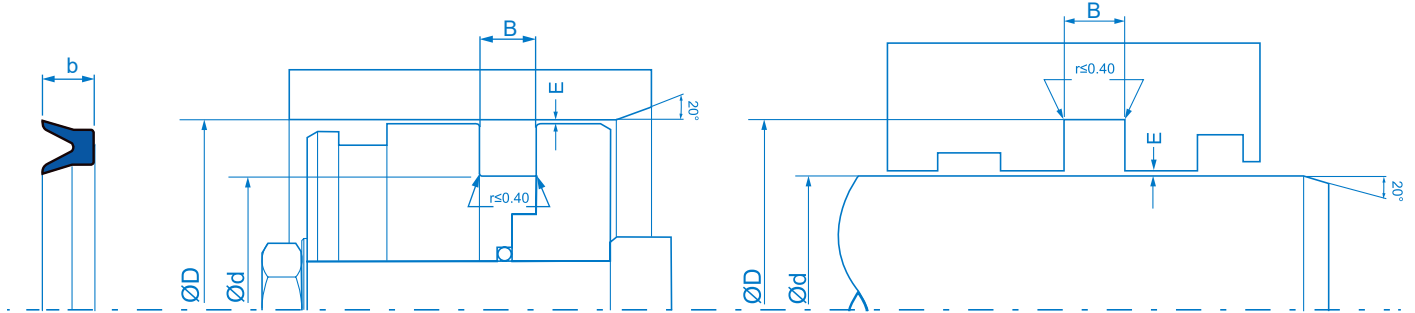
NO.	Ød	ØD	b	B
U-175*200*15 CNP	175	200	15	16
U-180*188*12 CNP	180	188	12	13
U-180*210*13 CNP	180	210	13	14
U-180*210*19 CNP	180	210	19	20
U-180*220*16 CNP	180	220	16	17
U-181*208*16.3 CNP	181	208	16.3	17.3
U-181.6*208*16.5 CNP	181.6	208	16.5	17.5
U-184.15*203.2*12.7 CNP	184.15	203.2	12.7	13.7
U-184.15*215*18 CNP	184.15	215	18	19
U-186*224*25 CNP	186	224	25	26
U-190*220*15 CNP	190	220	15	16
U-190*220*18 CNP	190	220	18	19
U-190*220*20 CNP	190	220	20	21
U-190*220*22 CNP	190	220	22	23
U-190*225*26 CNP	190	225	26	27
U-190.5*222.25*15.87 CNP	190.5	222.25	15.87	16.87
U-195*225*18 CNP	195	225	18	19
U-195*225*23 CNP	195	225	23	24
U-196*206*14.5 CNP	196	206	14.5	15.5
U-196.85*228.6*15.87 CNP	196.85	228.6	15.87	16.87
U-197*240.2*25.5 CNP	197	240.2	25.5	26.5
U-200*212*13.5 CNP	200	212	13.5	14.5
U-200*230*11 CNP	200	230	11	12
U-200*230*14 CNP	200	230	14	15
U-203.2*228.6*19 CNP	203.2	228.6	19	20
U-209.6*228.6*12.7 CNP	209.6	228.6	12.7	13.7



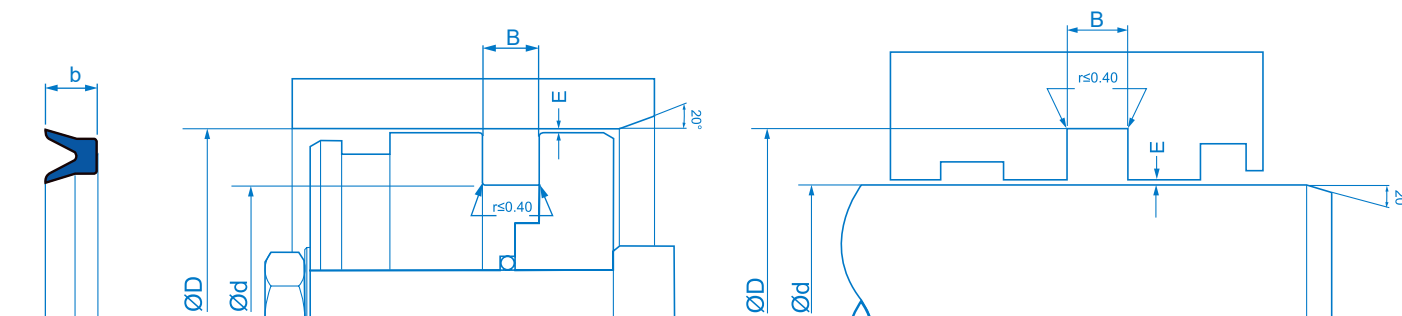
NO.	Ød	ØD	b	B
U-210*235*20 CNP	210	235	20	21
U-210*240*15 CNP	210	240	15	16
U-210*250*20 CNP	210	250	20	21
U-215.9*247.65*16 CNP	215.9	247.65	16	17
U-218*250*21 CNP	218	250	21	22
U-219.07*260.37*30 CNP	219.07	260.37	30	31
U-219.07*269.87*38 CNP	219.07	269.87	38	39
U-220*230*14.5 CNP	220	230	14.5	15.5
U-220*250*12.3 CNP	220	250	12.3	13.3
U-220*250*15 CNP	220	250	15	16
U-220*250*18 CNP	220	250	18	19
U-220*250*22 CNP	220	250	22	23
U-220*250*23 CNP	220	250	23	24
U-220*252*22 CNP	220	252	22	23
U-220*255*20 CNP	220	255	20	21
U-220*255*22 CNP	220	255	22	23
U-220*255*23.5 CNP	220	255	23.5	24.5
U-220*260*16 CNP	220	260	16	17
U-223*258*20 CNP	223	258	20	21
U-223*269*20.5 CNP	223	269	20.5	21.5
U-223.5*258*19 CNP	223.5	258	19	20
U-224*259*19.5 CNP	224	259	19.5	20.5
U-225*250*18 CNP	225	250	18	19
U-225*260*18.2 CNP	225	260	18.2	19.2
U-225*275*40 CNP	225	275	40	41
U-230*250*10 CNP	230	250	10	11



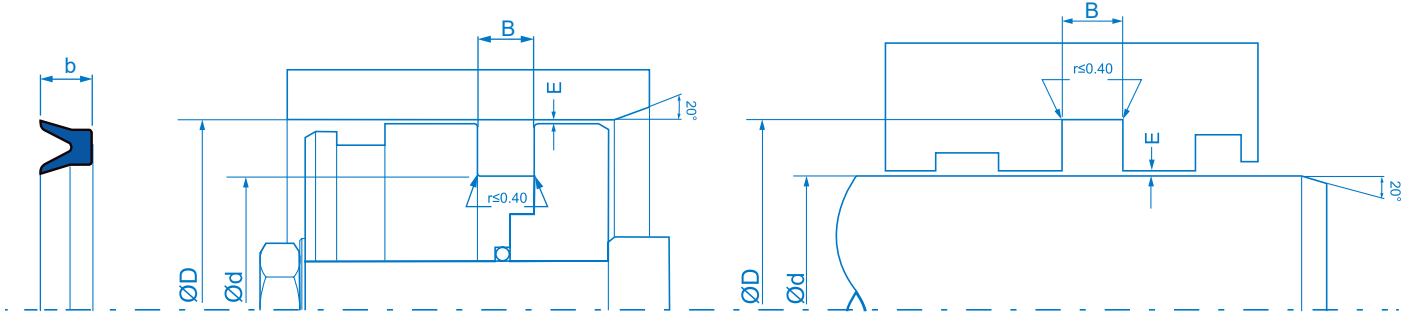
NO.	Ød	ØD	b	B
U-234.2*250*16.5 CNP	234.2	250	16.5	17.5
U-234.95*254*9.52 CNP	234.95	254	9.52	10.52
U-235*275*20 CNP	235	275	20	21
U-244.5*324.94*36 CNP	244.5	324.94	36	37
U-245*255*14.5 CNP	245	255	14.5	15.5
U-245*270*15 CNP	245	270	15	16
U-247*270*19 CNP	247	270	19	20
U-250*280*10 CNP	250	280	10	11
U-250*280*19 CNP	250	280	19	20
U-250*280*20 CNP	250	280	20	21
U-250*280*22 CNP	250	280	22	23
U-250*280*25 CNP	250	280	25	26
U-260.35*279.4*12.7 CNP	260.35	279.4	12.7	13.7
U-270*300*16 CNP	270	300	16	17
U-270*300*20.5 CNP	270	300	20.5	21.5
U-270*310*22 CNP	270	310	22	23
U-270*320*22 CNP	270	320	22	23
U-273.05*323.85*38 CNP	273.05	323.85	38	39
U-274*305*25 CNP	274	305	25	26
U-278*305*13 CNP	278	305	13	14
U-279.4*292.1*14.28 CNP	279.4	292.1	14.28	15.28
U-279.4*304.8*12.7 CNP	279.4	304.8	12.7	13.7
U-280*310*15 CNP	280	310	15	16
U-280.98*300.03*12.7 CNP	280.98	300.03	12.7	13.7
U-285.75*304.8*9.52 CNP	285.75	304.8	9.52	10.52
U-298.45*317.5*9.52 CNP	298.45	317.5	9.52	10.52



NO.	Ød	ØD	b	B
U-299*329*26 CNP	299	329	26	27
U-300*330*15 CNP	300	330	15	16
U-320*350*20 CNP	320	350	20	21
U-320*350*25 CNP	320	350	25	26
U-320*360*22.5 CNP	320	360	22.5	23.5
U-321*336*12.8 CNP	321	336	12.8	13.8
U-323.85*374.65*35 CNP	323.85	374.65	35	36
U-323.85*374.65*38 CNP	323.85	374.65	38	39
U-325*363*20 CNP	325	363	20	21
U-330*360*20 CNP	330	360	20	21
U-330*370*20 CNP	330	370	20	21
U-335*365*20 CNP	335	365	20	21
U-350*380*25 CNP	350	380	25	26
U-350*390*35 CNP	350	390	35	36
U-350*400*25.4 CNP	350	400	25.4	26.4
U-355.6*406.4*38 CNP	355.6	406.4	38	39
U-360*385*15 CNP	360	385	15	16
U-360*400*21 CNP	360	400	21	22
U-360*410*30 CNP	360	410	30	31
U-368*400*24 CNP	368	400	24	25
U-370*400*22 CNP	370	400	22	23
U-370*400*25 CNP	370	400	25	26
U-370*400*30 CNP	370	400	30	31
U-377.82*425.45*19.5 CNP	377.82	425.45	19.5	20.5
U-380*420*18 CNP	380	420	18	19
U-386.5*407*14.5 CNP	386.5	407	14.5	15.5



NO.	Ød	ØD	b	B
U-398.2*434*15 CNP	398.2	434	15	16
U-400*430*25 CNP	400	430	25	26
U-406.4*457.2*36 CNP	406.4	457.2	36	37
U-406.4*457.2*38 CNP	406.4	457.2	38	39
U-450*480*16 CNP	450	480	16	17
U-450*486*16 CNP	450	486	16	17
U-457.2*508*38 CNP	457.2	508	38	39
U-457.2*522.3*45 CNP	457.2	522.3	45	46
U-470*530*30 CNP	470	530	30	31
U-480*510*15 CNP	480	510	15	16
U-500*540*25 CNP	500	540	25	26
U-520.5*559*28 CNP	520.5	559	28	29
U-540*580*20 CNP	540	580	20	21
U-560*600*28 CNP	560	600	28	29
U-596.9*622.3*19 CNP	596.9	622.3	19	20
U-634*660*20 CNP	634	660	20	21
U-669.92*711.2*20 CNP	669.92	711.2	20	21
U-673.1*711.2*25.4 CNP	673.1	711.2	25.4	26.4
U-710*750*40 CNP	710	750	40	41
U-733*761*21 CNP	733	761	21	22
U-760*800*40 CNP	760	800	40	41
U-773*800*21 CNP	773	800	21	22
U-774.7*800.1*19.05 CNP	774.7	800.1	19.05	20.05
U-800*850*27 CNP	800	850	27	28
U-825.5*850.9*22.22 CNP	825.5	850.9	22.22	23.22
U-838.2*863.6*19.05 CNP	838.2	863.6	19.05	20.05

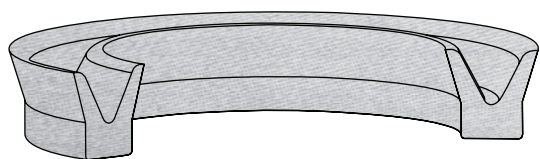


NO.	Ød	ØD	b	B
U-889*914.4*19.05 CNP	889	914.4	19.05	20.05
U-917.57*942.97*22.22 CNP	917.57	942.97	22.22	23.22
U-1074*1100*20 CNP	1074	1100	20	21

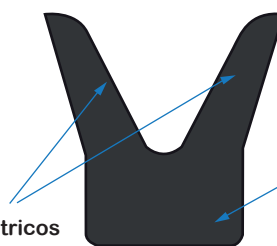


El CNR es una junta simétrica de simple efecto, fabricada con tejido y caucho de gran resistencia al desgaste, indicada para el sellado de cilindros hidráulicos de servicio ligero y medio. Su perfil simétrico permite emplearla tanto en pistón como en vástago, e incluso en cilindros de doble efecto. Gracias a su diseño robusto, ofrece un buen sellado aun cuando los vástagos y los aros guía están desgastados.

The CNR is a single-acting symmetrical seal, made of tough, wear-resistant fabric and rubber, intended for sealing light- and medium-duty hydraulic cylinders. Its symmetrical profile allows it to be used on both the piston and the rod, and even in double-acting cylinders. Thanks to its robust design, it provides good sealing even when the rods and guide rings are worn.



Labios de estanqueidad simétricos
Symmetrical sealing lips



Cuerpo de elastómero
Elastomer body



-40°C
100°C



20MPa



< 0.5m/s



3mm
2000mm

- Excelente estanqueidad a presiones bajas y medias.
- Perfil simétrico apto para pistón y vástago, y para cilindros de doble efecto.
- Construcción de tejido y caucho de gran resistencia al desgaste.
- Buen funcionamiento incluso con vástagos y aros guía desgastados.
- Diseño robusto y larga vida útil.
- Amplia gama de medidas métricas y en pulgadas.



- Excellent tightness at low and medium pressures.
- Symmetrical profile suitable for both piston and rod, and for double-acting cylinders.
- Fabric-and-rubber construction with high wear resistance.
- Good performance even with worn rods and guide rings.
- Robust design and long service life.
- Wide range of metric and inch sizes.

Disponible en distintos compuestos según el fluido y la temperatura de trabajo: NBR, EPDM, FKM, NR, CR y VMQ en durezas de entre 70 y 90 Shore A, y PTFE en dureza de 60 Shore D, todos ellos con refuerzo de tejido que aporta resistencia a la extrusión. Ofrece un buen comportamiento frente a aceites minerales y biodegradables, fluidos hidrosolubles y de agua-glicol, y aceites y grasas lubricantes de base mineral.

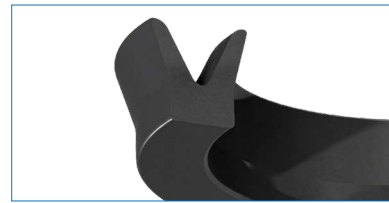


Available in different compounds depending on the fluid and the working temperature: NBR, EPDM, FKM, NR, CR and VMQ in hardnesses between 70 and 90 Shore A, and PTFE in a hardness of 60 Shore D, all of them with a fabric reinforcement that provides resistance to extrusion. It offers good performance against mineral and biodegradable oils, water-soluble and water-glycol fluids, and mineral-based lubricating oils and greases.

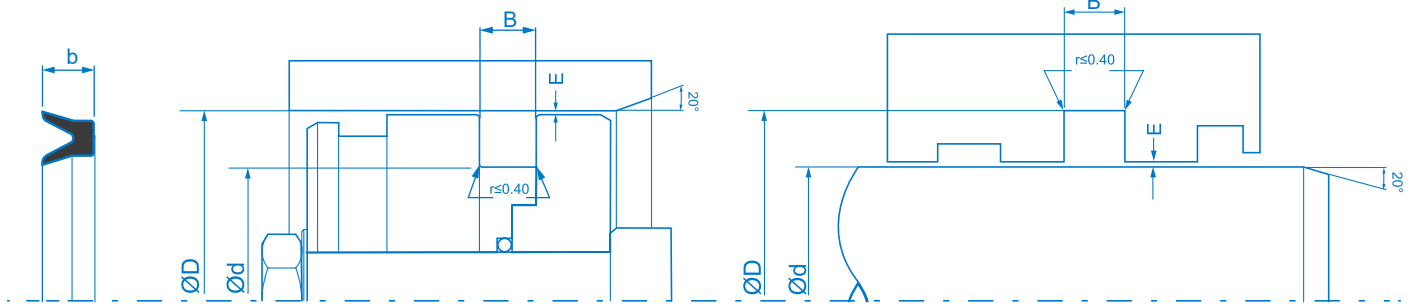
Las juntas simétricas de tejido se montan en pistones partidos o ranuras abiertas con anillo de retención. Achaflanar y eliminar los cantos vivos del alojamiento para no dañar la junta, y limpiar bien el alojamiento antes del montaje. Para la guía del pistón o del vástago se recomienda utilizar aros o cintas de guiado.



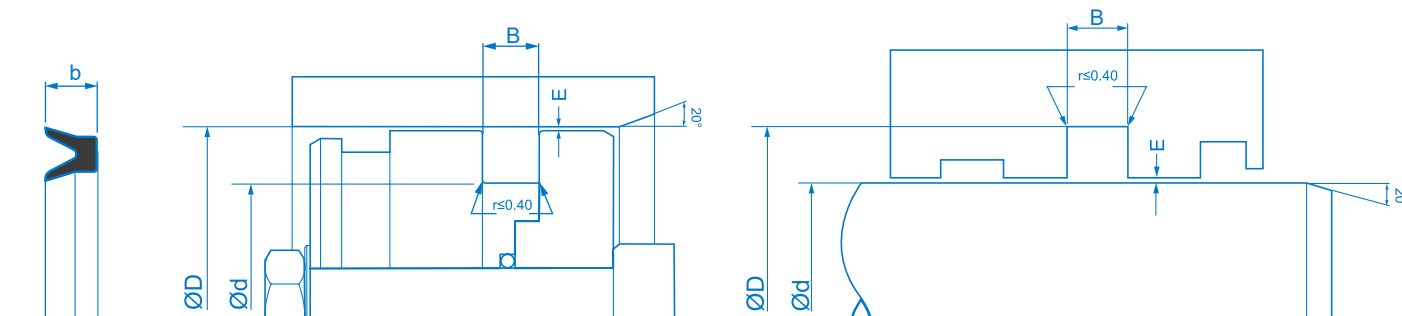
Fabric symmetrical seals are fitted in split pistons or open grooves with a retainer ring. Chamfer and remove the sharp edges of the housing so as not to damage the seal, and clean the installation space carefully before fitting. Guide rings or guide strips are recommended for guiding the piston or the rod.



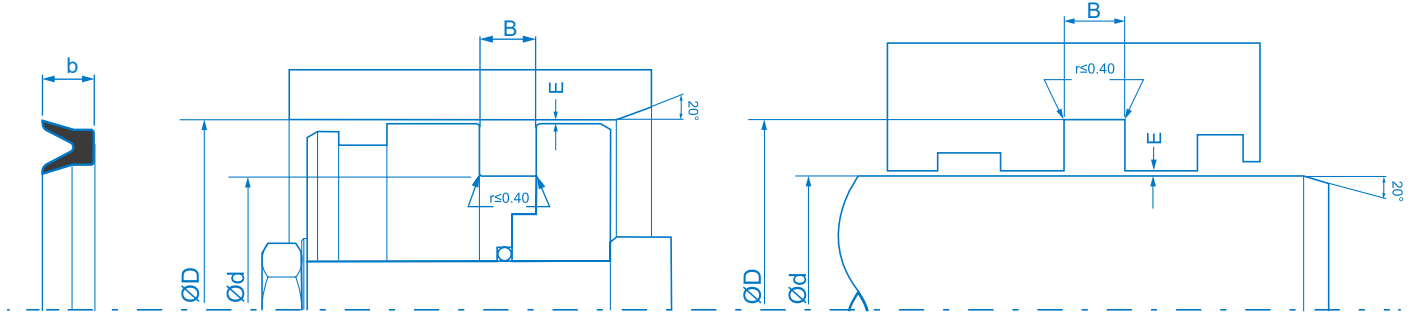
CNR



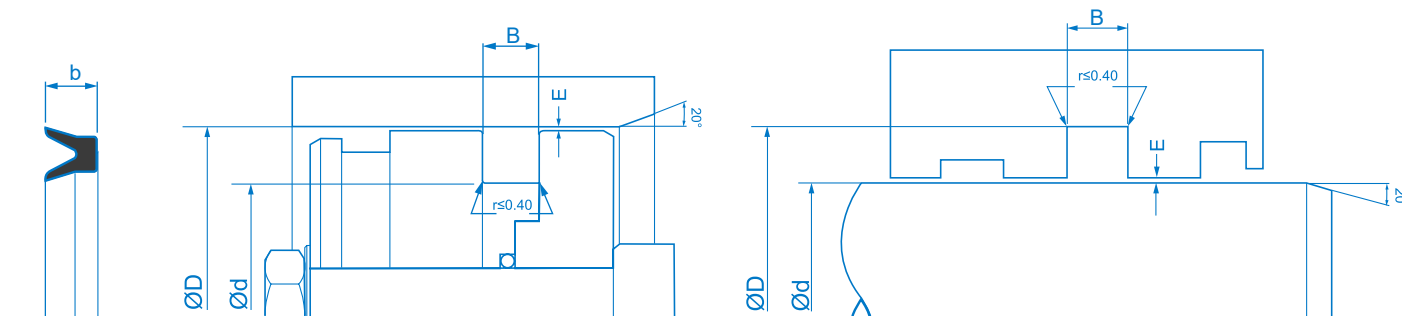
NO.	Ød	ØD	b	B
U-3*7*5 CNR	3	7	5	6
U-3*10*5 CNR	3	10	5	6
U-5*10*4 CNR	5	10	4	5
U-6*16*5 CNR	6	16	5	6
U-6*45*16 CNR	6	45	16	17
U-8.5*22*7 CNR	8.5	22	7	8
U-11*18*4.3 CNR	11	18	4.3	5.3
U-12.7*22.22*4.9 CNR	12.7	22.22	4.9	5.9
U-12.7*25.4*5 CNR	12.7	25.4	5	6
U-12.7*25.4*8 CNR	12.7	25.4	8	9
U-12.7*25.4*8.25 CNR	12.7	25.4	8.25	9.25
U-14*22*4.5 CNR	14	22	4.5	5.5
U-14*22*5 CNR	14	22	5	6
U-14*22*5.3 CNR	14	22	5.3	6.3
U-14*22*5.5 CNR	14	22	5.5	6.5
U-14*22*6 CNR	14	22	6	7
U-14*24*5 CNR	14	24	5	6
U-14*24*5.3 CNR	14	24	5.3	6.3
U-15*24*5.3 CNR	15	24	5.3	6.3
U-15*24*5.5 CNR	15	24	5.5	6.5
U-15*25*5 CNR	15	25	5	6
U-15*25*6 CNR	15	25	6	7
U-15*26*5 CNR	15	26	5	6
U-15*28*6.3 CNR	15	28	6.3	7.3
U-15*28*6.5 CNR	15	28	6.5	7.5
U-15*30*9 CNR	15	30	9	10



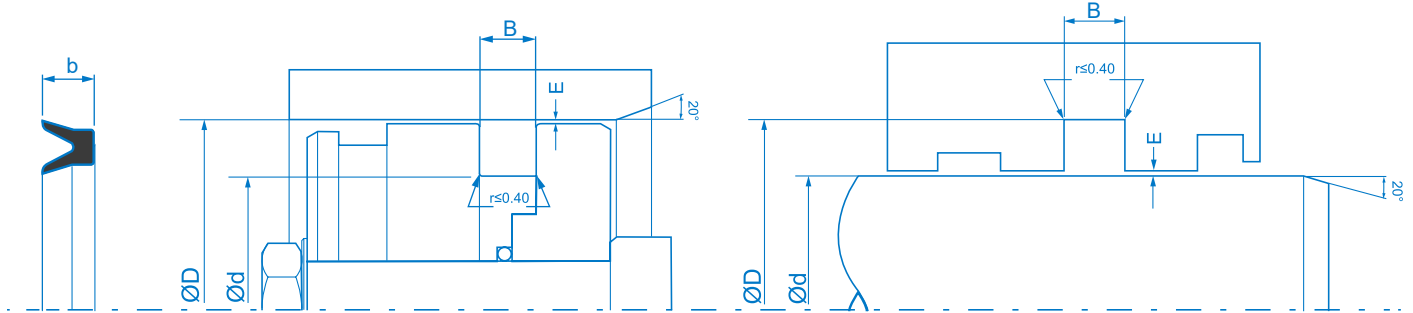
NO.	Ød	ØD	b	B
U-16*24*4.5 CNR	16	24	4.5	5.5
U-16*24*5 CNR	16	24	5	6
U-16*24*5.4 CNR	16	24	5.4	6.4
U-16*24*5.5 CNR	16	24	5.5	6.5
U-16*24*6.5 CNR	16	24	6.5	7.5
U-16*26*5 CNR	16	26	5	6
U-16*26*5.25 CNR	16	26	5.25	6.25
U-18*24*4 CNR	18	24	4	5
U-18*25*4 CNR	18	25	4	5
U-18*25*4.5 CNR	18	25	4.5	5.5
U-18*25*5 CNR	18	25	5	6
U-18*26*5.4 CNR	18	26	5.4	6.4
U-18*26*6.5 CNR	18	26	6.5	7.5
U-18*28*6 CNR	18	28	6	7
U-18*28*6.3 CNR	18	28	6.3	7.3
U-18*28*6.5 CNR	18	28	6.5	7.5
U-18*28*8 CNR	18	28	8	9
U-18*30*6 CNR	18	30	6	7
U-18*38*10 CNR	18	38	10	11
U-19*28*5.5 CNR	19	28	5.5	6.5
U-19.05*25.4*4.5 CNR	19.05	25.4	4.5	5.5
U-20*27*5 CNR	20	27	5	6
U-20*28*5 CNR	20	28	5	6
U-20*28*5.3 CNR	20	28	5.3	6.3
U-20*28*5.5 CNR	20	28	5.5	6.5
U-20*30*6 CNR	20	30	6	7



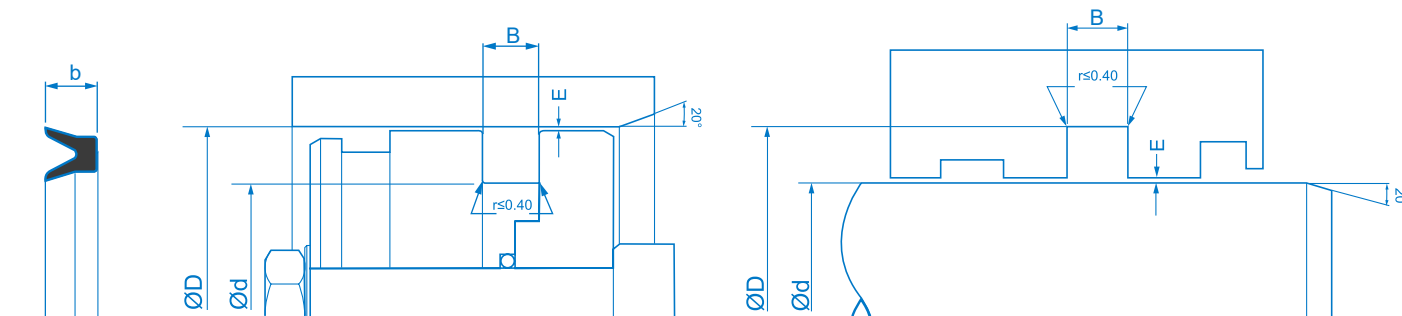
NO.	Ød	ØD	b	B
U-20*30*6.5 CNR	20	30	6.5	7.5
U-20*30*8 CNR	20	30	8	9
U-20*32*5.5 CNR	20	32	5.5	6.5
U-20*32*6 CNR	20	32	6	7
U-20*32*6.5 CNR	20	32	6.5	7.5
U-20*32*8 CNR	20	32	8	9
U-21.6*41.27*11 CNR	21.6	41.27	11	12
U-22*30*5.5 CNR	22	30	5.5	6.5
U-22*30*6.4 CNR	22	30	6.4	7.4
U-22*32*4 CNR	22	32	4	5
U-22*32*5.25 CNR	22	32	5.25	6.25
U-22*32*5.5 CNR	22	32	5.5	6.5
U-22*32*6 CNR	22	32	6	7
U-22*32*8.5 CNR	22	32	8.5	9.5
U-22*38*13.5 CNR	22	38	13.5	14.5
U-22.2*28.57*6.35 CNR	22.2	28.57	6.35	7.35
U-22.22*42.46*12.7 CNR	22.22	42.46	12.7	13.7
U-24*32*6.4 CNR	24	32	6.4	7.4
U-24*36*7 CNR	24	36	7	8
U-25*33*7 CNR	25	33	7	8
U-25*35*6.3 CNR	25	35	6.3	7.3
U-25*38*6.5 CNR	25	38	6.5	7.5
U-25.4*34.8*7 CNR	25.4	34.8	7	8
U-25.4*34.92*6.35 CNR	25.4	34.92	6.35	7.35
U-25.4*38*6.3 CNR	25.4	38	6.3	7.3
U-25.4*38.1*6.35 CNR	25.4	38.1	6.35	7.35



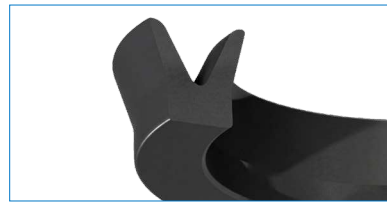
NO.	Ød	ØD	b	B
U-35*48*6.5 CNR	35	48	6.5	7.5
U-35*48*7 CNR	35	48	7	8
U-35*49*7 CNR	35	49	7	8
U-35*50*8 CNR	35	50	8	9
U-35*50*8.5 CNR	35	50	8.5	9.5
U-35*50*10 CNR	35	50	10	11
U-35.71*46.73*4.77 CNR	35.71	46.73	4.77	5.77
U-35.71*50.8*8.5 CNR	35.71	50.8	8.5	9.5
U-36*44*6 CNR	36	44	6	7
U-36*46*8 CNR	36	46	8	9
U-36*46*10 CNR	36	46	10	11
U-36*48*9.5 CNR	36	48	9.5	10.5
U-37.1*57.15*9 CNR	37.1	57.15	9	10
U-37.6*52*8 CNR	37.6	52	8	9
U-38*50*8 CNR	38	50	8	9
U-38*52*8 CNR	38	52	8	9
U-38.1*50.8*6.35 CNR	38.1	50.8	6.35	7.35
U-38.1*53.97*11.25 CNR	38.1	53.97	11.25	12.25
U-38.1*60.32*18 CNR	38.1	60.32	18	19
U-40*50*6.4 CNR	40	50	6.4	7.4
U-40*50*7.3 CNR	40	50	7.3	8.3
U-40*50*7.5 CNR	40	50	7.5	8.5
U-40*50*10 CNR	40	50	10	11
U-40*55*5.5 CNR	40	55	5.5	6.5
U-40*55*9.5 CNR	40	55	9.5	10.5
U-40*55*10 CNR	40	55	10	11



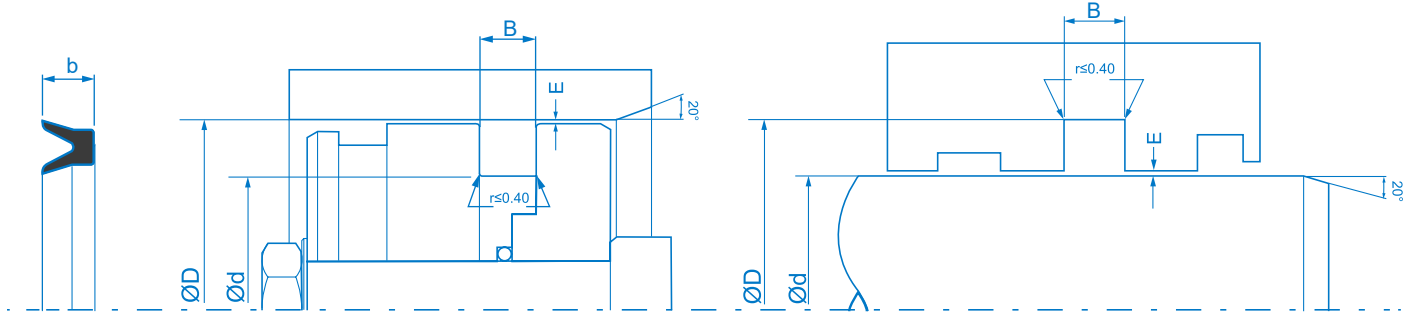
NO.	Ød	ØD	b	B
U-41.3*53.97*6.35 CNR	41.3	53.97	6.35	7.35
U-42*50*7.5 CNR	42	50	7.5	8.5
U-42*86*25 CNR	42	86	25	26
U-44*50*8 CNR	44	50	8	9
U-44*57*9.5 CNR	44	57	9.5	10.5
U-44.5*63.5*10 CNR	44.5	63.5	10	11
U-45*55*10 CNR	45	55	10	11
U-45*60*10.5 CNR	45	60	10.5	11.5
U-45*63*10 CNR	45	63	10	11
U-45*63*12 CNR	45	63	12	13
U-45*63.5*11 CNR	45	63.5	11	12
U-45*65*10 CNR	45	65	10	11
U-45*65*12 CNR	45	65	12	13
U-45*65*18 CNR	45	65	18	19
U-45*70*12.5 CNR	45	70	12.5	13.5
U-45*75*20 CNR	45	75	20	21
U-46*63*8 CNR	46	63	8	9
U-47*63*7.8 CNR	47	63	7.8	8.8
U-47*63*11.5 CNR	47	63	11.5	12.5
U-47.62*57.15*6.5 CNR	47.62	57.15	6.5	7.5
U-48*63.5*13 CNR	48	63.5	13	14
U-49*57*8.5 CNR	49	57	8.5	9.5
U-50*60*7 CNR	50	60	7	8
U-50*63.5*8.5 CNR	50	63.5	8.5	9.5
U-50*65*8 CNR	50	65	8	9
U-50*65*8.5 CNR	50	65	8.5	9.5



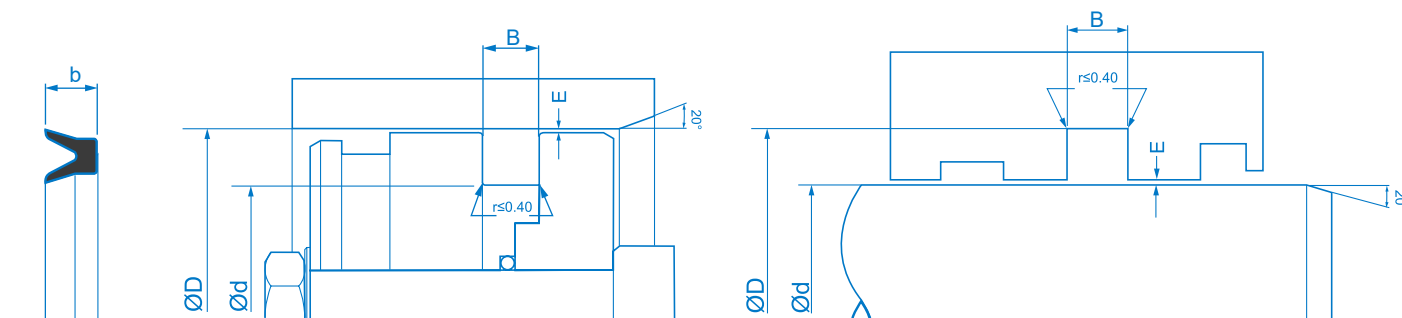
NO.	Ød	ØD	b	B
U-50*70*10 CNR	50	70	10	11
U-50*75*12 CNR	50	75	12	13
U-50*75*15 CNR	50	75	15	16
U-50*78*11.5 CNR	50	78	11.5	12.5
U-50.8*69.85*9.52 CNR	50.8	69.85	9.52	10.52
U-52*69*9 CNR	52	69	9	10
U-52*77*8 CNR	52	77	8	9
U-53.97*63.5*4.76 CNR	53.97	63.5	4.76	5.76
U-54*78*12 CNR	54	78	12	13
U-55*78*12 CNR	55	78	12	13
U-55*80*14 CNR	55	80	14	15
U-55.16*78.16*12.7 CNR	55.16	78.16	12.7	13.7
U-56*66*10 CNR	56	66	10	11
U-56*71*11.5 CNR	56	71	11.5	12.5
U-57.15*76.2*12.19 CNR	57.15	76.2	12.19	13.19
U-57.15*76.2*14 CNR	57.15	76.2	14	15
U-57.2*76.5*14 CNR	57.2	76.5	14	15
U-57.94*77.79*12.7 CNR	57.94	77.79	12.7	13.7
U-58*72*8 CNR	58	72	8	9
U-58*75*12 CNR	58	75	12	13
U-58*78*10 CNR	58	78	10	11
U-58*78*12 CNR	58	78	12	13
U-58*78*14 CNR	58	78	14	15
U-58*78.5*13 CNR	58	78.5	13	14
U-58.42*78.42*13.5 CNR	58.42	78.42	13.5	14.5
U-59*79*12 CNR	59	79	12	13



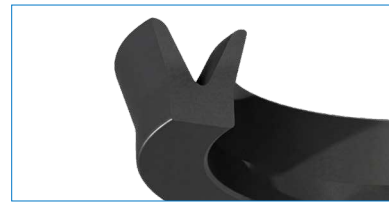
CNR



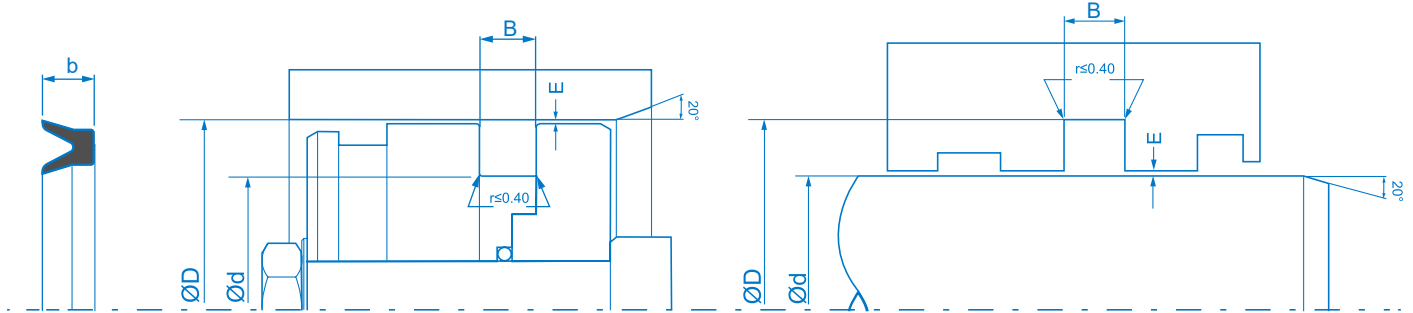
NO.	Ød	ØD	b	B
U-60*68*13 CNR	60	68	13	14
U-60*70*10 CNR	60	70	10	11
U-60*75*12 CNR	60	75	12	13
U-60*80*10 CNR	60	80	10	11
U-60*80*12 CNR	60	80	12	13
U-60*80*13 CNR	60	80	13	14
U-60*80*14 CNR	60	80	14	15
U-60*80*15 CNR	60	80	15	16
U-60*80*15.5 CNR	60	80	15.5	16.5
U-60*80*16 CNR	60	80	16	17
U-60.2*76.2*9.7 CNR	60.2	76.2	9.7	10.7
U-63*78*25 CNR	63	78	25	26
U-63.5*76.1*9.3 CNR	63.5	76.1	9.3	10.3
U-63.5*82.55*12.7 CNR	63.5	82.55	12.7	13.7
U-63.5*88.9*13.5 CNR	63.5	88.9	13.5	14.5
U-65*85*12 CNR	65	85	12	13
U-65*95*12 CNR	65	95	12	13
U-65.08*80.15*8 CNR	65.08	80.15	8	9
U-67*86*12 CNR	67	86	12	13
U-67*87*12 CNR	67	87	12	13
U-68*83*11.5 CNR	68	83	11.5	12.5
U-69.9*88.9*12.7 CNR	69.9	88.9	12.7	13.7
U-70*82*9 CNR	70	82	9	10
U-70*82*14.3 CNR	70	82	14.3	15.3
U-70*85*8.5 CNR	70	85	8.5	9.5
U-70*85*12 CNR	70	85	12	13



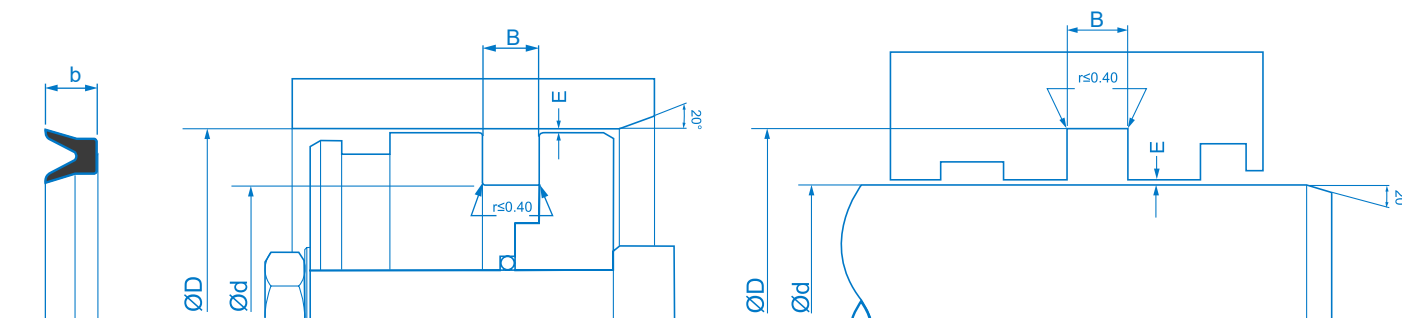
NO.	Ød	ØD	b	B
U-70*90*8 CNR	70	90	8	9
U-70*90*14 CNR	70	90	14	15
U-70*100*15 CNR	70	100	15	16
U-75*100*10 CNR	75	100	10	11
U-75*100*15 CNR	75	100	15	16
U-76.2*88.9*7.14 CNR	76.2	88.9	7.14	8.14
U-76.2*88.9*8.5 CNR	76.2	88.9	8.5	9.5
U-76.2*95.25*9.52 CNR	76.2	95.25	9.52	10.52
U-76.2*101.6*16.5 CNR	76.2	101.6	16.5	17.5
U-77*100*12 CNR	77	100	12	13
U-78*86*8 CNR	78	86	8	9
U-78*86*13 CNR	78	86	13	14
U-78*86*13.5 CNR	78	86	13.5	14.5
U-78*88*14.5 CNR	78	88	14.5	15.5
U-80*95*14 CNR	80	95	14	15
U-80*100*8.5 CNR	80	100	8.5	9.5
U-80*100*12 CNR	80	100	12	13
U-80*100*12.5 CNR	80	100	12.5	13.5
U-80*100*13 CNR	80	100	13	14
U-80*100*14 CNR	80	100	14	15
U-80*100*15 CNR	80	100	15	16
U-80*100*15.7 CNR	80	100	15.7	16.7
U-80*100*16 CNR	80	100	16	17
U-80*102*10 CNR	80	102	10	11
U-80*110*16 CNR	80	110	16	17
U-82*96*8 CNR	82	96	8	9



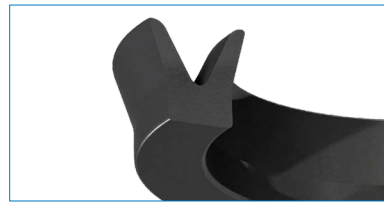
CNR



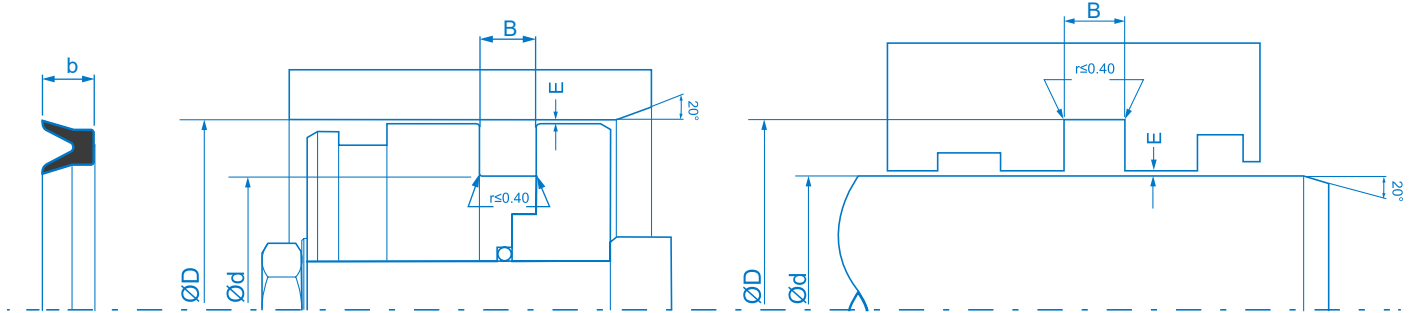
NO.	Ød	ØD	b	B
U-82*100*13 CNR	82	100	13	14
U-82*101.6*10 CNR	82	101.6	10	11
U-82*102*9.5 CNR	82	102	9.5	10.5
U-82*102*10 CNR	82	102	10	11
U-82.55*101.6*8 CNR	82.55	101.6	8	9
U-82.55*101.6*11.9 CNR	82.55	101.6	11.9	12.9
U-82.55*101.6*12 CNR	82.55	101.6	12	13
U-82.55*101.6*12.7 CNR	82.55	101.6	12.7	13.7
U-82.55*107.95*12.7 CNR	82.55	107.95	12.7	13.7
U-82.56*101.6*13 CNR	82.56	101.6	13	14
U-83*101.6*12.5 CNR	83	101.6	12.5	13.5
U-83.18*101.6*13.3 CNR	83.18	101.6	13.3	14.3
U-85*93*12 CNR	85	93	12	13
U-85*105*10 CNR	85	105	10	11
U-85*105*12 CNR	85	105	12	13
U-85*105.6*12 CNR	85	105.6	12	13
U-85*110*10 CNR	85	110	10	11
U-85*115*15 CNR	85	115	15	16
U-85.55*107.95*12.7 CNR	85.55	107.95	12.7	13.7
U-86*104*10 CNR	86	104	10	11
U-86*106*13 CNR	86	106	13	14
U-87*98*12 CNR	87	98	12	13
U-88*115*19.5 CNR	88	115	19.5	20.5
U-88.9*114.3*12.7 CNR	88.9	114.3	12.7	13.7
U-89*108*10 CNR	89	108	10	11
U-90*100*11 CNR	90	100	11	12



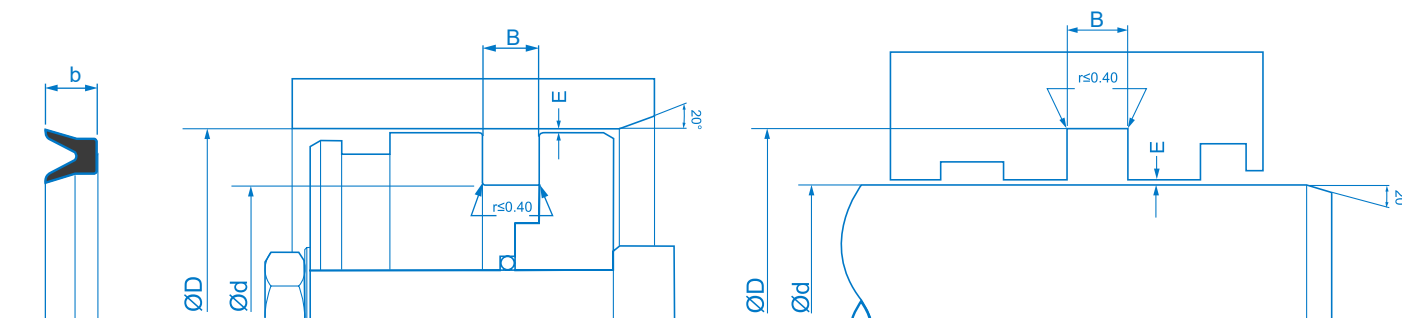
NO.	Ød	ØD	b	B
U-90*102*6 CNR	90	102	6	7
U-90*104*12 CNR	90	104	12	13
U-90*105*8.5 CNR	90	105	8.5	9.5
U-90*105*9.1 CNR	90	105	9.1	10.1
U-90*105*15 CNR	90	105	15	16
U-90*110*10 CNR	90	110	10	11
U-90*110*13 CNR	90	110	13	14
U-90*110*15 CNR	90	110	15	16
U-90*115*15 CNR	90	115	15	16
U-91.94*111.12*12.7 CNR	91.94	111.12	12.7	13.7
U-95*112*11.2 CNR	95	112	11.2	12.2
U-95*115*12 CNR	95	115	12	13
U-95*115*15 CNR	95	115	15	16
U-95.25*114.3*15.87 CNR	95.25	114.3	15.87	16.87
U-97*105*13 CNR	97	105	13	14
U-97*105*13.5 CNR	97	105	13.5	14.5
U-97*107*14.5 CNR	97	107	14.5	15.5
U-98*115*11.5 CNR	98	115	11.5	12.5
U-98*125*20 CNR	98	125	20	21
U-98*125*21 CNR	98	125	21	22
U-99*125*14 CNR	99	125	14	15
U-100*120*10 CNR	100	120	10	11
U-100*120*10.5 CNR	100	120	10.5	11.5
U-100*120*12 CNR	100	120	12	13
U-100*120*12.5 CNR	100	120	12.5	13.5
U-100*122*14.5 CNR	100	122	14.5	15.5



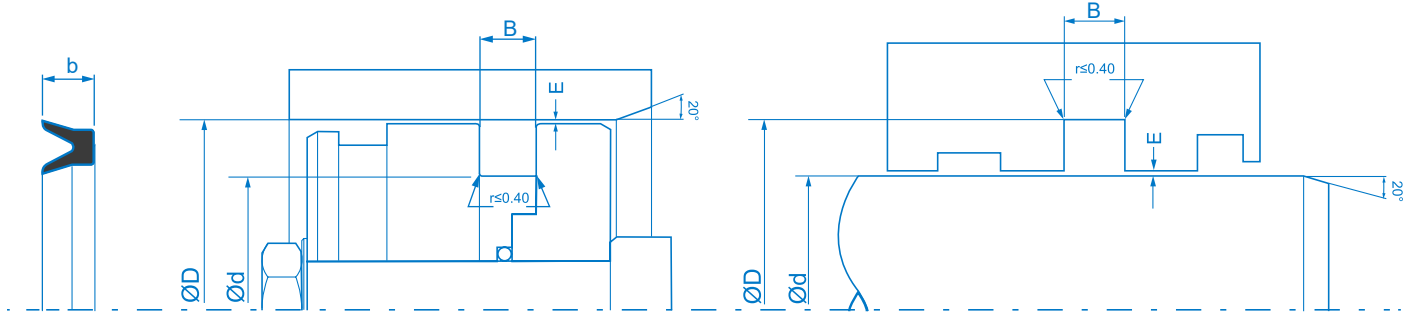
CNR



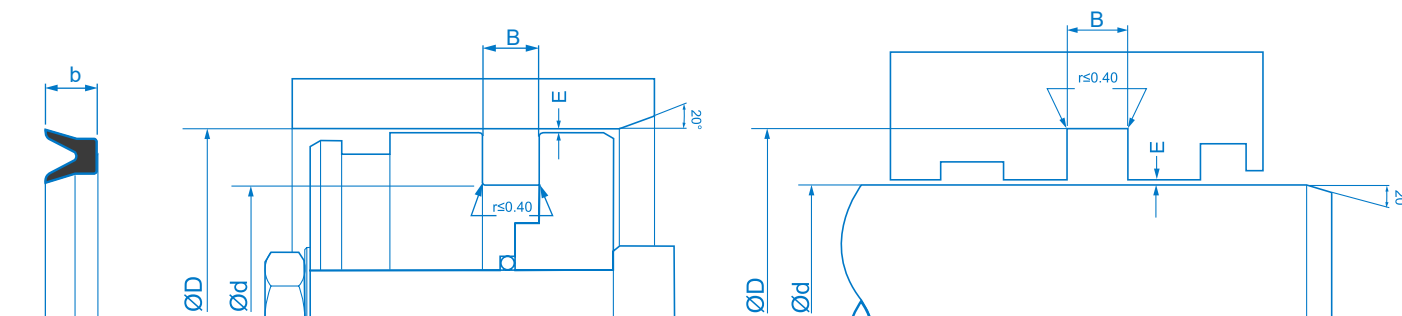
NO.	Ød	ØD	b	B
U-100*125*10 CNR	100	125	10	11
U-100*125*14.5 CNR	100	125	14.5	15.5
U-100*125*15 CNR	100	125	15	16
U-100*125*17.7 CNR	100	125	17.7	18.7
U-100*125*18.5 CNR	100	125	18.5	19.5
U-100*125*19 CNR	100	125	19	20
U-100*125*20 CNR	100	125	20	21
U-100*125*21 CNR	100	125	21	22
U-100*130*12 CNR	100	130	12	13
U-100*132*17 CNR	100	132	17	18
U-101.6*120.65*12.5 CNR	101.6	120.65	12.5	13.5
U-101.6*127*12.7 CNR	101.6	127	12.7	13.7
U-101.6*127*19.05 CNR	101.6	127	19.05	20.05
U-102*125*20 CNR	102	125	20	21
U-103*127*12 CNR	103	127	12	13
U-103*127*13 CNR	103	127	13	14
U-103*130.5*16 CNR	103	130.5	16	17
U-103*135*15 CNR	103	135	15	16
U-103.8*127.75*13 CNR	103.8	127.75	13	14
U-104*125*20 CNR	104	125	20	21
U-104*140*20 CNR	104	140	20	21
U-105*113*12 CNR	105	113	12	13
U-105*125*13 CNR	105	125	13	14
U-105*125*15 CNR	105	125	15	16
U-105*130*15 CNR	105	130	15	16
U-105*130*20 CNR	105	130	20	21



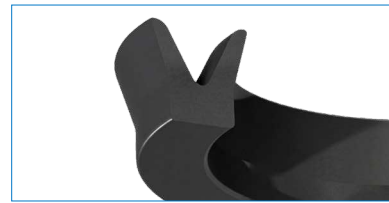
NO.	Ød	ØD	b	B
U-107*125*11.5 CNR	107	125	11.5	12.5
U-107.95*127*12.7 CNR	107.95	127	12.7	13.7
U-110*122*14 CNR	110	122	14	15
U-110*128*10 CNR	110	128	10	11
U-110*130*15 CNR	110	130	15	16
U-110*135*12 CNR	110	135	12	13
U-110*135*21 CNR	110	135	21	22
U-110*137*15 CNR	110	137	15	16
U-110*140*15 CNR	110	140	15	16
U-110*140*18.5 CNR	110	140	18.5	19.5
U-110*148*19 CNR	110	148	19	20
U-110*150*17 CNR	110	150	17	18
U-110*155*20 CNR	110	155	20	21
U-112*135*15 CNR	112	135	15	16
U-114.3*140*14.5 CNR	114.3	140	14.5	15.5
U-114.3*152.4*15.6 CNR	114.3	152.4	15.6	16.6
U-115*127.7*6.35 CNR	115	127.7	6.35	7.35
U-115*135*13 CNR	115	135	13	14
U-115*135*16.5 CNR	115	135	16.5	17.5
U-115*140*20.5 CNR	115	140	20.5	21.5
U-116*126*14.5 CNR	116	126	14.5	15.5
U-118*126*13 CNR	118	126	13	14
U-118*126*14 CNR	118	126	14	15
U-120*140*12 CNR	120	140	12	13
U-120*140*15 CNR	120	140	15	16
U-120*150*15 CNR	120	150	15	16



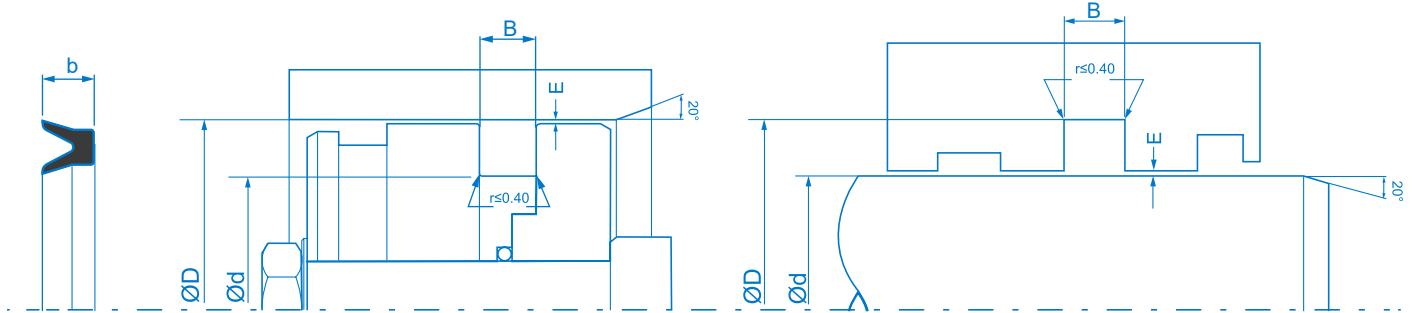
NO.	$\emptyset d$	$\emptyset D$	b	B
U-120*150*26 CNR	120	150	26	27
U-122.8*146*19 CNR	122.8	146	19	20
U-123.25*146*19 CNR	123.25	146	19	20
U-125*133*12 CNR	125	133	12	13
U-125*150*13 CNR	125	150	13	14
U-125*165*20 CNR	125	165	20	21
U-127*135*12 CNR	127	135	12	13
U-127*146.05*12.7 CNR	127	146.05	12.7	13.7
U-127*147*12.8 CNR	127	147	12.8	13.8
U-127*152*21 CNR	127	152	21	22
U-127*152.4*12.7 CNR	127	152.4	12.7	13.7
U-127*152.4*20 CNR	127	152.4	20	21
U-130*150*15 CNR	130	150	15	16
U-130*154*17 CNR	130	154	17	18
U-130*156*17 CNR	130	156	17	18
U-130*160*18 CNR	130	160	18	19
U-131*160*15 CNR	131	160	15	16
U-133.35*152.4*17.5 CNR	133.35	152.4	17.5	18.5
U-133.35*152.4*19.05 CNR	133.35	152.4	19.05	20.05
U-135*145*14.5 CNR	135	145	14.5	15.5
U-135*160*18 CNR	135	160	18	19
U-135*160*18.2 CNR	135	160	18.2	19.2
U-135*160*18.3 CNR	135	160	18.3	19.3
U-135*160*18.5 CNR	135	160	18.5	19.5
U-135*160*20 CNR	135	160	20	21
U-135*165*25 CNR	135	165	25	26



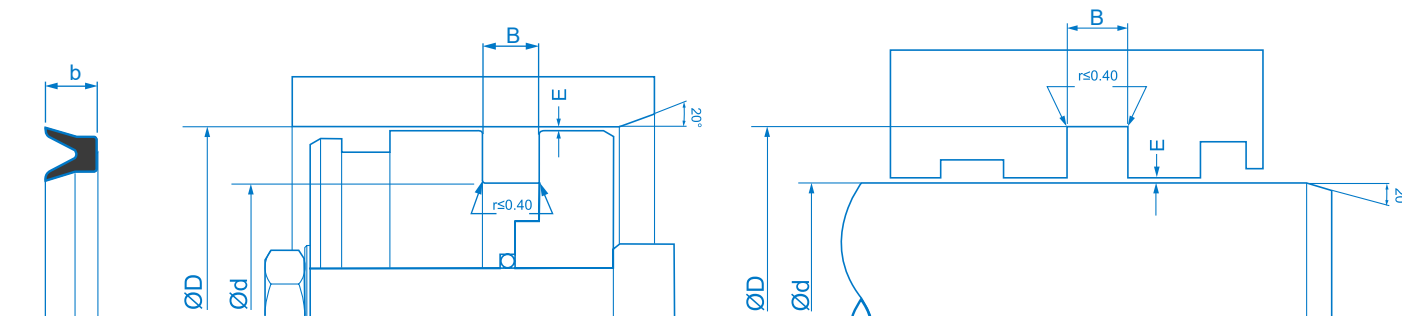
NO.	Ød	ØD	b	B
U-135*175*20 CNR	135	175	20	21
U-136.52*152.4*7.93 CNR	136.52	152.4	7.93	8.93
U-138*153*12 CNR	138	153	12	13
U-138.4*152.4*7.5 CNR	138.4	152.4	7.5	8.5
U-140*160*13 CNR	140	160	13	14
U-140*160*15.3 CNR	140	160	15.3	16.3
U-140*160*16 CNR	140	160	16	17
U-140*160*17.2 CNR	140	160	17.2	18.2
U-140*170*18 CNR	140	170	18	19
U-140*170*18.7 CNR	140	170	18.7	19.7
U-140*170*19.3 CNR	140	170	19.3	20.3
U-140*180*15 CNR	140	180	15	16
U-140*210*20 CNR	140	210	20	21
U-143*151*13 CNR	143	151	13	14
U-145*153*12 CNR	145	153	12	13
U-145*160*9.2 CNR	145	160	9.2	10.2
U-150*175*14.5 CNR	150	175	14.5	15.5
U-150*175*20 CNR	150	175	20	21
U-150*175*21 CNR	150	175	21	22
U-150*180*18 CNR	150	180	18	19
U-150*180*19.5 CNR	150	180	19.5	20.5
U-150*180*22 CNR	150	180	22	23
U-150*180*25 CNR	150	180	25	26
U-150*200*25 CNR	150	200	25	26
U-152*160*12 CNR	152	160	12	13
U-152.4*184.15*18.5 CNR	152.4	184.15	18.5	19.5



CNR



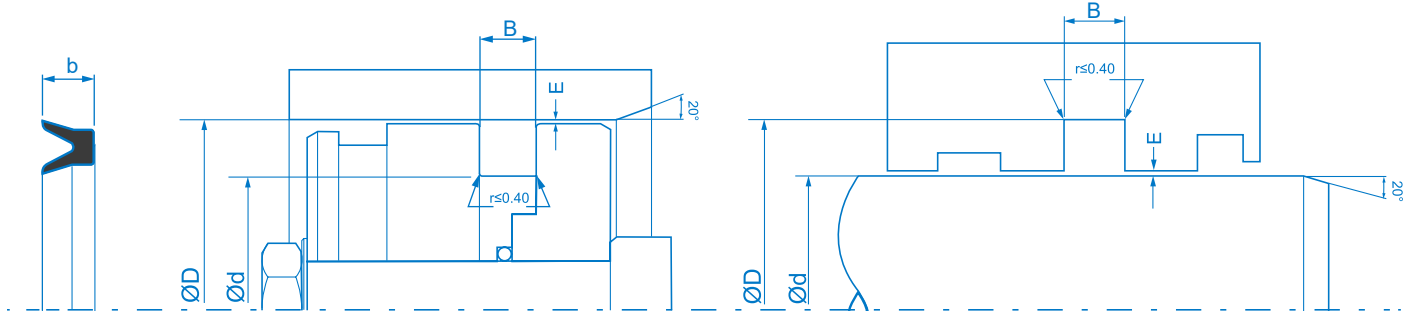
NO.	Ød	ØD	b	B
U-155*165*14.5 CNR	155	165	14.5	15.5
U-155*180*20 CNR	155	180	20	21
U-155*180*24 CNR	155	180	24	25
U-156.43*177.8*13.7 CNR	156.43	177.8	13.7	14.7
U-160*185*20 CNR	160	185	20	21
U-160*190*16 CNR	160	190	16	17
U-160*190*18 CNR	160	190	18	19
U-160*190*25 CNR	160	190	25	26
U-160*200*15 CNR	160	200	15	16
U-160*200*25 CNR	160	200	25	26
U-165*200*20 CNR	165	200	20	21
U-165*200*22 CNR	165	200	22	23
U-165.1*203.2*21 CNR	165.1	203.2	21	22
U-165.5*200*17 CNR	165.5	200	17	18
U-166*201*25 CNR	166	201	25	26
U-168.3*200*23.5 CNR	168.3	200	23.5	24.5
U-168.3*211.5*25 CNR	168.3	211.5	25	26
U-170*190*15 CNR	170	190	15	16
U-170*200*15 CNR	170	200	15	16
U-170*200*16.5 CNR	170	200	16.5	17.5
U-170*200*20 CNR	170	200	20	21
U-170*200*23 CNR	170	200	23	24
U-171*179*14 CNR	171	179	14	15
U-174.5*200*17 CNR	174.5	200	17	18
U-175*185*14.5 CNR	175	185	14.5	15.5
U-175*199*15 CNR	175	199	15	16



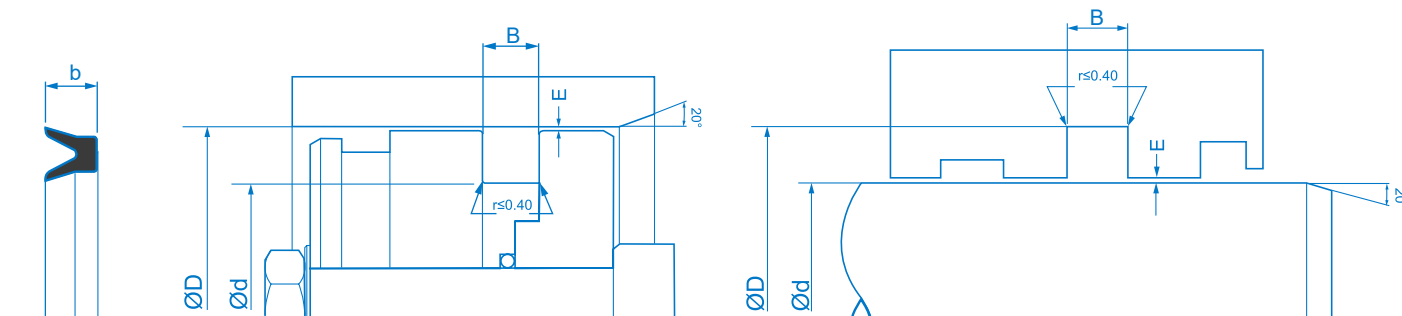
NO.	Ød	ØD	b	B
U-175*200*15 CNR	175	200	15	16
U-180*188*12 CNR	180	188	12	13
U-180*210*13 CNR	180	210	13	14
U-180*210*19 CNR	180	210	19	20
U-180*220*16 CNR	180	220	16	17
U-181*208*16.3 CNR	181	208	16.3	17.3
U-181.6*208*16.5 CNR	181.6	208	16.5	17.5
U-184.15*203.2*12.7 CNR	184.15	203.2	12.7	13.7
U-184.15*215*18 CNR	184.15	215	18	19
U-186*224*25 CNR	186	224	25	26
U-190*220*15 CNR	190	220	15	16
U-190*220*18 CNR	190	220	18	19
U-190*220*20 CNR	190	220	20	21
U-190*220*22 CNR	190	220	22	23
U-190*225*26 CNR	190	225	26	27
U-190.5*222.25*15.87 CNR	190.5	222.25	15.87	16.87
U-195*225*18 CNR	195	225	18	19
U-195*225*23 CNR	195	225	23	24
U-196*206*14.5 CNR	196	206	14.5	15.5
U-196.85*228.6*15.87 CNR	196.85	228.6	15.87	16.87
U-197*240.2*25.5 CNR	197	240.2	25.5	26.5
U-200*212*13.5 CNR	200	212	13.5	14.5
U-200*230*11 CNR	200	230	11	12
U-200*230*14 CNR	200	230	14	15
U-203.2*228.6*19 CNR	203.2	228.6	19	20
U-209.6*228.6*12.7 CNR	209.6	228.6	12.7	13.7



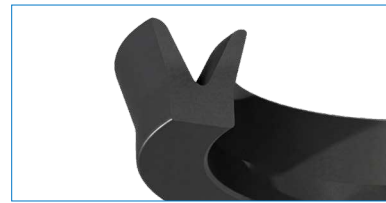
CNR



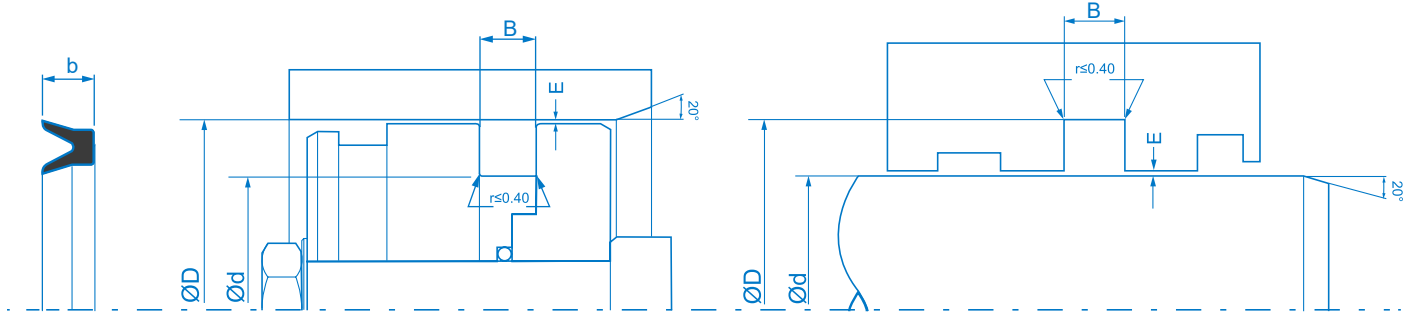
NO.	Ød	ØD	b	B
U-210*235*20 CNR	210	235	20	21
U-210*240*15 CNR	210	240	15	16
U-210*250*20 CNR	210	250	20	21
U-215.9*247.65*16 CNR	215.9	247.65	16	17
U-218*250*21 CNR	218	250	21	22
U-219.07*260.37*30 CNR	219.07	260.37	30	31
U-219.07*269.87*38 CNR	219.07	269.87	38	39
U-220*230*14.5 CNR	220	230	14.5	15.5
U-220*250*12.3 CNR	220	250	12.3	13.3
U-220*250*15 CNR	220	250	15	16
U-220*250*18 CNR	220	250	18	19
U-220*250*22 CNR	220	250	22	23
U-220*250*23 CNR	220	250	23	24
U-220*252*22 CNR	220	252	22	23
U-220*255*20 CNR	220	255	20	21
U-220*255*22 CNR	220	255	22	23
U-220*255*23.5 CNR	220	255	23.5	24.5
U-220*260*16 CNR	220	260	16	17
U-223*258*20 CNR	223	258	20	21
U-223*269*20.5 CNR	223	269	20.5	21.5
U-223.5*258*19 CNR	223.5	258	19	20
U-224*259*19.5 CNR	224	259	19.5	20.5
U-225*250*18 CNR	225	250	18	19
U-225*260*18.2 CNR	225	260	18.2	19.2
U-225*275*40 CNR	225	275	40	41
U-230*250*10 CNR	230	250	10	11



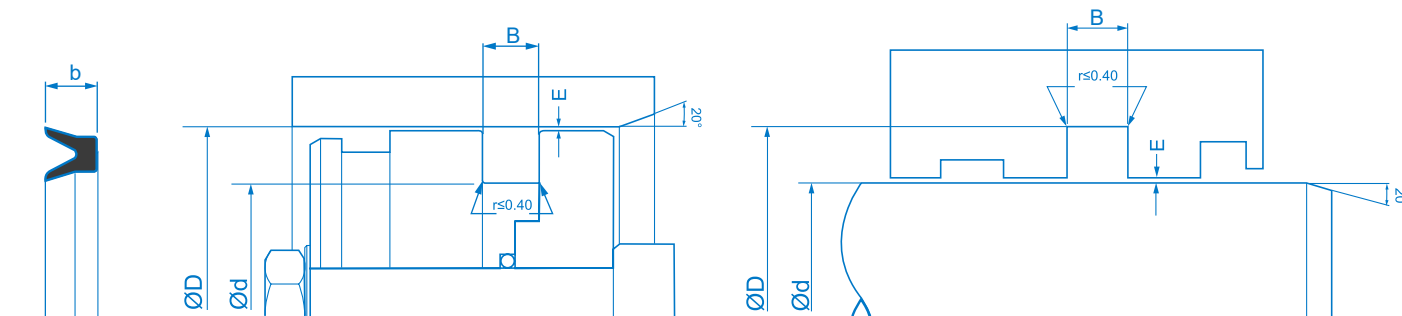
NO.	Ød	ØD	b	B
U-234.2*250*16.5 CNR	234.2	250	16.5	17.5
U-234.95*254*9.52 CNR	234.95	254	9.52	10.52
U-235*275*20 CNR	235	275	20	21
U-244.5*324.94*36 CNR	244.5	324.94	36	37
U-245*255*14.5 CNR	245	255	14.5	15.5
U-245*270*15 CNR	245	270	15	16
U-247*270*19 CNR	247	270	19	20
U-250*280*10 CNR	250	280	10	11
U-250*280*19 CNR	250	280	19	20
U-250*280*20 CNR	250	280	20	21
U-250*280*22 CNR	250	280	22	23
U-250*280*25 CNR	250	280	25	26
U-260.35*279.4*12.7 CNR	260.35	279.4	12.7	13.7
U-270*300*16 CNR	270	300	16	17
U-270*300*20.5 CNR	270	300	20.5	21.5
U-270*310*22 CNR	270	310	22	23
U-270*320*22 CNR	270	320	22	23
U-273.05*323.85*38 CNR	273.05	323.85	38	39
U-274*305*25 CNR	274	305	25	26
U-278*305*13 CNR	278	305	13	14
U-279.4*292.1*14.28 CNR	279.4	292.1	14.28	15.28
U-279.4*304.8*12.7 CNR	279.4	304.8	12.7	13.7
U-280*310*15 CNR	280	310	15	16
U-280.98*300.03*12.7 CNR	280.98	300.03	12.7	13.7
U-285.75*304.8*9.52 CNR	285.75	304.8	9.52	10.52
U-298.45*317.5*9.52 CNR	298.45	317.5	9.52	10.52



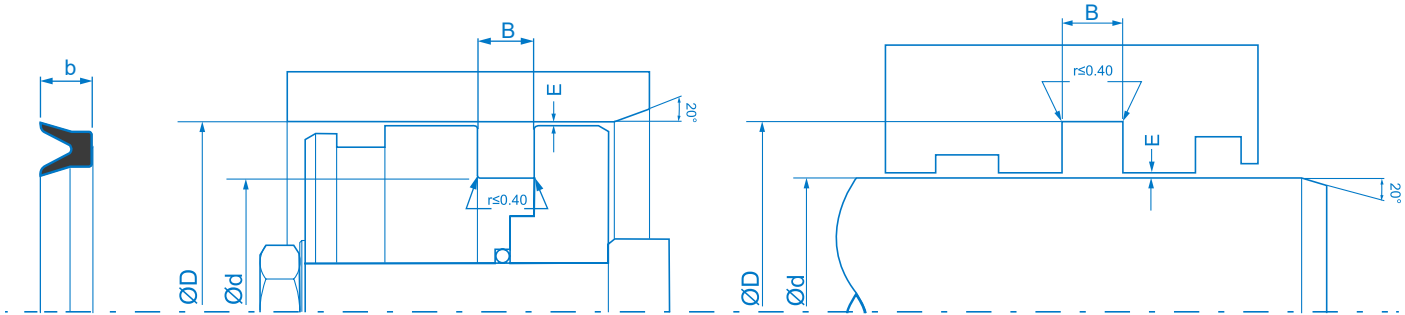
CNR



NO.	Ød	ØD	b	B
U-299*329*26 CNPR	299	329	26	27
U-300*330*15 CNR	300	330	15	16
U-320*350*20 CNR	320	350	20	21
U-320*350*25 CNR	320	350	25	26
U-320*360*22.5 CNR	320	360	22.5	23.5
U-321*336*12.8 CNR	321	336	12.8	13.8
U-323.85*374.65*35 CNR	323.85	374.65	35	36
U-323.85*374.65*38 CNR	323.85	374.65	38	39
U-325*363*20 CNR	325	363	20	21
U-330*360*20 CNR	330	360	20	21
U-330*370*20 CNR	330	370	20	21
U-335*365*20 CNR	335	365	20	21
U-350*380*25 CNR	350	380	25	26
U-350*390*35 CNR	350	390	35	36
U-350*400*25.4 CNR	350	400	25.4	26.4
U-355.6*406.4*38 CNR	355.6	406.4	38	39
U-360*385*15 CNR	360	385	15	16
U-360*400*21 CNR	360	400	21	22
U-360*410*30 CNR	360	410	30	31
U-368*400*24 CNR	368	400	24	25
U-370*400*22 CNR	370	400	22	23
U-370*400*25 CNR	370	400	25	26
U-370*400*30 CNR	370	400	30	31
U-377.82*425.45*19.5 CNR	377.82	425.45	19.5	20.5
U-380*420*18 CNR	380	420	18	19
U-386.5*407*14.5 CNR	386.5	407	14.5	15.5



NO.	Ød	ØD	b	B
U-398.2*434*15 CNR	398.2	434	15	16
U-400*430*25 CNR	400	430	25	26
U-406.4*457.2*36 CNR	406.4	457.2	36	37
U-406.4*457.2*38 CNR	406.4	457.2	38	39
U-450*480*16 CNR	450	480	16	17
U-450*486*16 CNR	450	486	16	17
U-457.2*508*38 CNR	457.2	508	38	39
U-457.2*522.3*45 CNR	457.2	522.3	45	46
U-470*530*30 CNR	470	530	30	31
U-480*510*15 CNR	480	510	15	16
U-500*540*25 CNR	500	540	25	26
U-520.5*559*28 CNR	520.5	559	28	29
U-540*580*20 CNR	540	580	20	21
U-560*600*28 CNR	560	600	28	29
U-596.9*622.3*19 CNR	596.9	622.3	19	20
U-634*660*20 CNR	634	660	20	21
U-669.92*711.2*20 CNR	669.92	711.2	20	21
U-673.1*711.2*25.4 CNR	673.1	711.2	25.4	26.4
U-710*750*40 CNR	710	750	40	41
U-733*761*21 CNR	733	761	21	22
U-760*800*40 CNR	760	800	40	41
U-773*800*21 CNR	773	800	21	22
U-774.7*800.1*19.05 CNR	774.7	800.1	19.05	20.05
U-800*850*27 CNR	800	850	27	28
U-825.5*850.9*22.22 CNR	825.5	850.9	22.22	23.22
U-838.2*863.6*19.05 CNR	838.2	863.6	19.05	20.05



NO.	Ød	ØD	b	B
U-889*914.4*19.05 CNR	889	914.4	19.05	20.05
U-917.57*942.97*22.22 CNR	917.57	942.97	22.22	23.22
U-1074*1100*20 CNR	1074	1100	20	21



www.osn.es
info@osn.es - 977134700
Avinguda Masets, 35
Polígon Industrial Els Masets
43719 Bellvei, Tarragona, ES