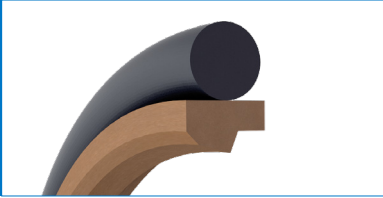
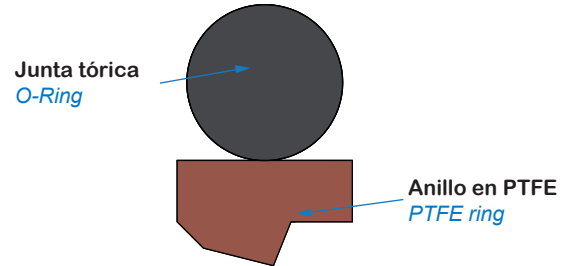
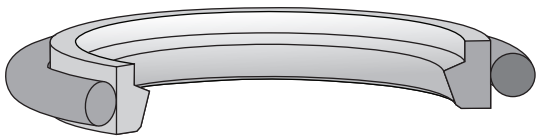


HRO3



El HRO3 es una junta de vástago hidráulica de simple efecto formada por dos piezas: un anillo de perfil de PTFE que actúa como elemento de estanqueidad principal y un O-ring de elastómero que lo pretensa contra el vástago. El anillo de PTFE aporta baja fricción y un funcionamiento libre de stick-slip, mientras que el O-ring proporciona la fuerza de contacto y compensa el desgaste. Está especialmente indicado para trabajar dentro de un sistema de estanqueidad y cumple la norma ISO 7425/1.

The HRO3 is a single-acting hydraulic rod seal made up of two parts: a PTFE profile ring acting as the main sealing element and an elastomer O-ring that pre-loads it against the rod. The PTFE ring delivers low friction and stick-slip-free operation, while the O-ring supplies the contact force and compensates for wear. It is particularly suitable for use within a sealing system and complies with ISO 7425/1.



-45°C
200°C



40MPa



< 5m/s



3mm
2600mm

- Alta estabilidad bajo presión.
- Muy buena seguridad frente a la extrusión.
- Baja fricción y funcionamiento libre de stick-slip.
- Buena conductividad térmica.
- Alta resistencia a la abrasión y larga vida útil.
- Apto para altas velocidades y frecuencias de trabajo.
- Cumple la norma ISO 7425/1.



- High stability under pressure.
- Very good extrusion safety.
- Low friction and stick-slip-free operation.
- Good thermal conductivity.
- High resistance to abrasion and long service life.
- Suitable for high speeds and working frequencies.
- Complies with ISO 7425/1.

El anillo de perfil se fabrica en PTFE de altas prestaciones y el O-ring pretensor puede suministrarse en NBR o FKM según el fluido y la temperatura de trabajo. La combinación PTFE+NBR es adecuada para aceites hidráulicos minerales HL y HLP, grasas y fluidos ignífugos HFA, HFB y HFC dentro de sus rangos. La combinación PTFE+FKM ofrece mayor resistencia térmica y química, apta para temperaturas más elevadas y para fluidos HFD. Otras combinaciones de material disponibles bajo consulta.

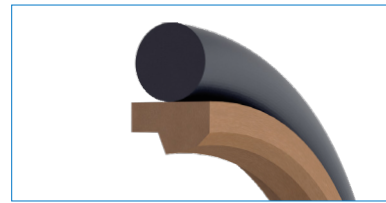


The profile ring is made of high-performance PTFE and the pre-loading O-ring can be supplied in NBR or FKM depending on the fluid and working temperature. The PTFE+NBR combination suits mineral hydraulic oils HL and HLP, greases and fire-resistant HFA, HFB and HFC fluids within their ranges. The PTFE+FKM combination offers higher thermal and chemical resistance, suitable for higher temperatures and for HFD fluids. Other material combinations available on request.

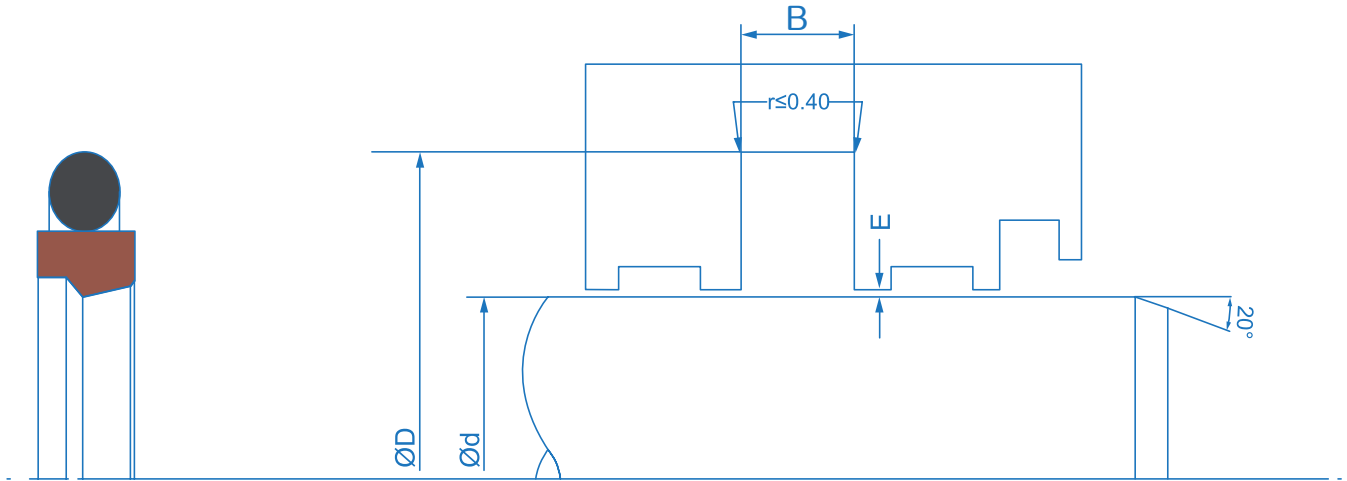
Monte el HRO3 en un alojamiento cerrado según las cotas del plano. Achaflane y redondee los cantos del alojamiento ($R < 0,2$ mm) y limpie con cuidado el hueco antes del montaje. No arrastre la junta sobre cantos vivos ni roscas y lubrique el vástago y el sello con el propio fluido de trabajo antes de introducirlo.



Fit the HRO3 into a closed groove according to the drawing dimensions. Chamfer and round off the groove edges ($R < 0,2$ mm) and carefully clean the housing before assembly. Do not drag the seal over sharp edges or threads, and lubricate the rod and the seal with the working fluid itself before insertion.

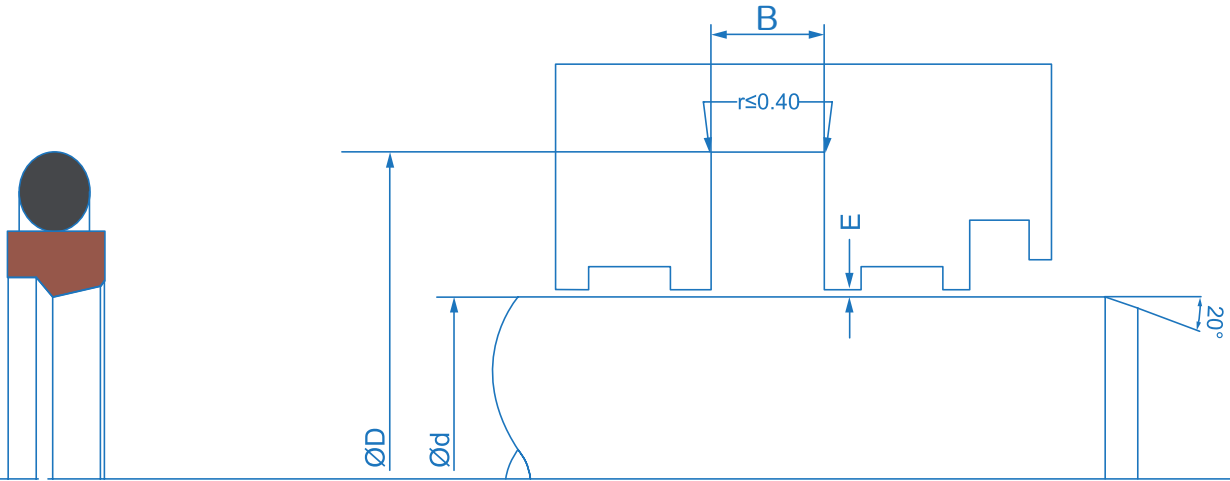
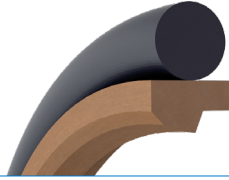


HRO3

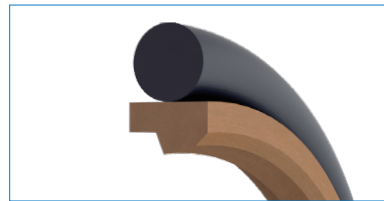


NO.	Ød	ØD	B
U-3*7.9*2.2 HRO3	3	7.9	2.2
U-4*8.9*2.2 HRO3	4	8.9	2.2
U-5*9.9*2.2 HRO3	5	9.9	2.2
U-6*10.9*2.2 HRO3	6	10.9	2.2
U-7*11.9*2.2 HRO3	7	11.9	2.2
U-8*12.9*2.2 HRO3	8	12.9	2.2
U-10*14.9*2.2 HRO3	10	14.9	2.2
U-10*17.3*3.2 HRO3	10	17.3	3.2
U-11*15.9*2.2 HRO3	11	15.9	2.2
U-12*16.9*2.2 HRO3	12	16.9	2.2
U-12*19.3*3.2 HRO3	12	19.3	3.2
U-14*18.9*2.2 HRO3	14	18.9	2.2
U-14*21.3*3.2 HRO3	14	21.3	3.2
U-15*19.9*2.2 HRO3	15	19.9	2.2
U-15*22.3*3.2 HRO3	15	22.3	3.2
U-16*20.9*2.2 HRO3	16	20.9	2.2
U-16*23.3*3.2 HRO3	16	23.3	3.2
U-17*24.3*3.2 HRO3	17	24.3	3.2
U-18*22.9*2.2 HRO3	18	22.9	2.2
U-18*25.3*3.2 HRO3	18	25.3	3.2
U-20*27.3*3.2 HRO3	20	27.3	3.2
U-20*30.7*4.2 HRO3	20	30.7	4.2
U-22*29.3*3.2 HRO3	22	29.3	3.2
U-22*32.7*4.2 HRO3	22	32.7	4.2
U-24*31.3*3.2 HRO3	24	31.3	3.2
U-25*32.3*3.2 HRO3	25	32.3	3.2

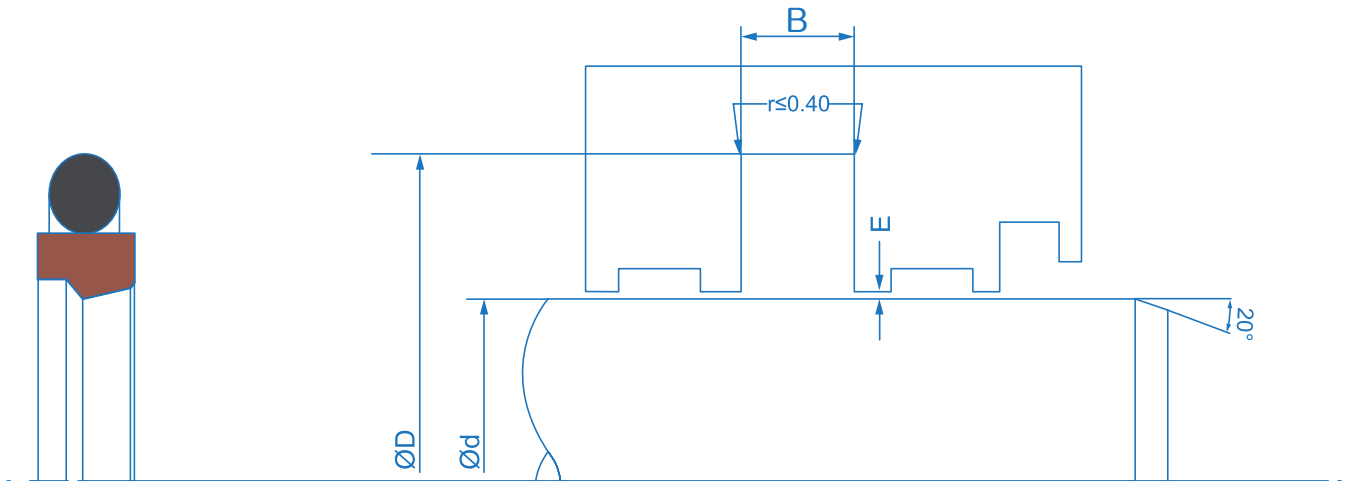
HRO3



NO.	Ød	ØD	B
U-25*35.7*4.2 HRO3	25	35.7	4.2
U-28*35.3*3.2 HRO3	28	35.3	3.2
U-28*38.7*4.2 HRO3	28	38.7	4.2
U-30*37.5*3.2 HRO3	30	37.5	3.2
U-30*40.7*4.2 HRO3	30	40.7	4.2
U-32*39.3*3.2 HRO3	32	39.3	3.2
U-32*42.7*4.2 HRO3	32	42.7	4.2
U-35*42.3*3.2 HRO3	35	42.3	3.2
U-35*45.7*4.2 HRO3	35	45.7	4.2
U-36*43.3*3.2 HRO3	36	43.3	3.2
U-36*46.7*4.2 HRO3	36	46.7	4.2
U-37*47.7*4.2 HRO3	37	47.7	4.2
U-38*48.7*4.2 HRO3	38	48.7	4.2
U-38*53.1*6.3 HRO3	38	53.1	6.3
U-40*50.7*4.2 HRO3	40	50.7	4.2
U-40*55.1*6.3 HRO3	40	55.1	6.3
U-42*52.7*4.2 HRO3	42	52.7	4.2
U-44*59.1*6.3 HRO3	44	59.1	6.3
U-45*52.3*3.2 HRO3	45	52.3	3.2
U-45*55.7*4.2 HRO3	45	55.7	4.2
U-45*60.1*6.3 HRO3	45	60.1	6.3
U-46*61.1*6.3 HRO3	46	61.1	6.3
U-48*58.7*4.2 HRO3	48	58.7	4.2
U-50*60.7*4.2 HRO3	50	60.7	4.2
U-50*65.1*6.3 HRO3	50	65.1	6.3
U-53*63.5*4.2 HRO3	53	63.5	4.2

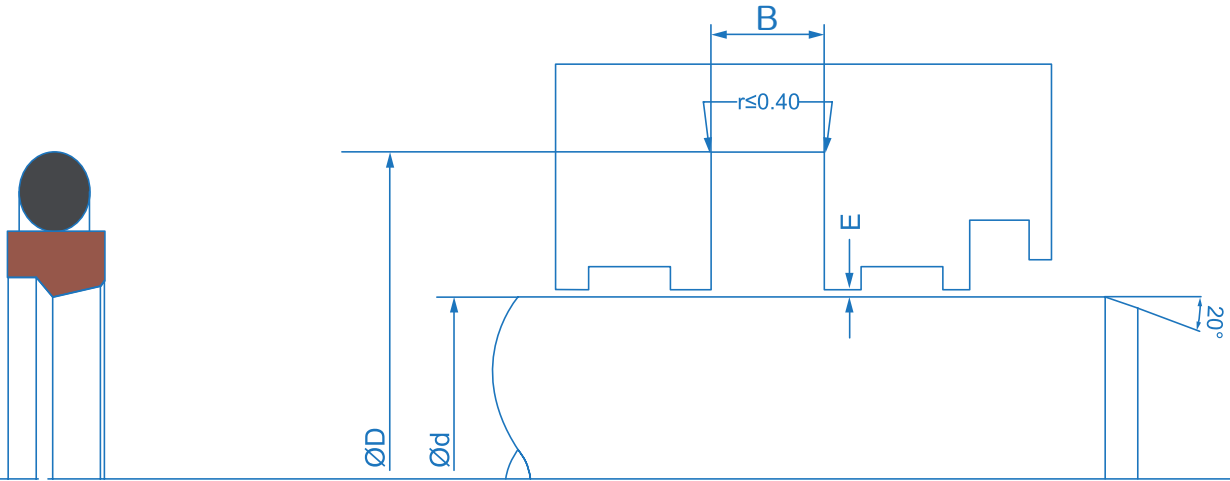
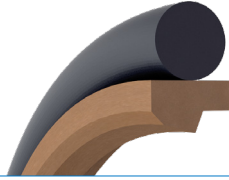


HRO3

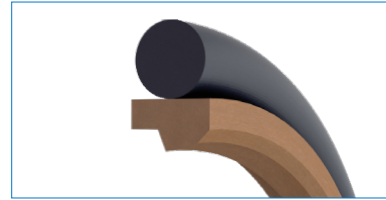


NO.	Ød	ØD	B
U-55*65.7*4.2 HRO3	55	65.7	4.2
U-55*70.1*6.3 HRO3	55	70.1	6.3
U-56*66.7*4.2 HRO3	56	66.7	4.2
U-56*71.1*6.3 HRO3	56	71.1	6.3
U-57*72.1*6.3 HRO3	57	72.1	6.3
U-58*73.1*6.3 HRO3	58	73.1	6.3
U-60*70.7*4.2 HRO3	60	70.7	4.2
U-60*75.1*6.3 HRO3	60	75.1	6.3
U-63*78.1*6.3 HRO3	63	78.1	6.3
U-64*79.1*6.3 HRO3	64	79.1	6.3
U-65*80.1*6.3 HRO3	65	80.1	6.3
U-70*80.7*4.2 HRO3	70	80.7	4.2
U-70*85.1*6.3 HRO3	70	85.1	6.3
U-71*86.1*6.3 HRO3	71	86.1	6.3
U-75*85.7*4.2 HRO3	75	85.7	4.2
U-75*90.1*6.3 HRO3	75	90.1	6.3
U-80*90.7*4.2 HRO3	80	90.7	4.2
U-80*95.1*6.3 HRO3	80	95.1	6.3
U-85*100.1*6.3 HRO3	85	100.1	6.3
U-86*101.6*6.3 HRO3	86	101.6	6.3
U-90*105.1*6.3 HRO3	90	105.1	6.3
U-95*110.1*6.3 HRO3	95	110.1	6.3
U-98*113.1*6.3 HRO3	98	113.1	6.3
U-99*114.1*6.3 HRO3	99	114.1	6.3
U-100*110.7*4.2 HRO3	100	110.7	4.2
U-100*115.1*6.3 HRO3	100	115.1	6.3

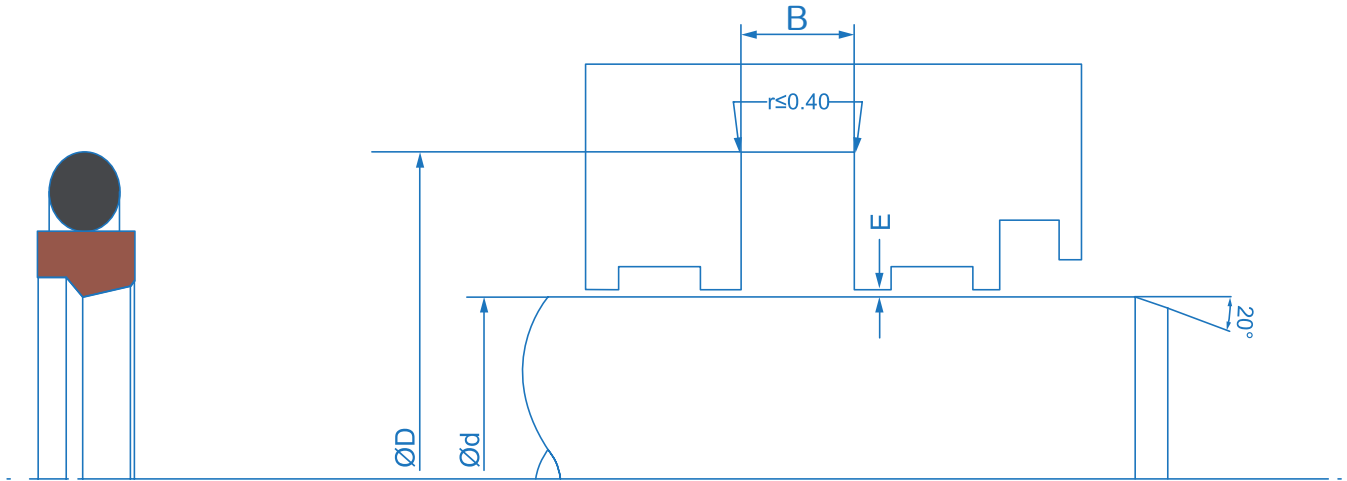
HRO3



NO.	Ød	ØD	B
U-105*120.1*6.3 HRO3	105	120.1	6.3
U-110*125.1*6.3 HRO3	110	125.1	6.3
U-110*130.5*8.1 HRO3	110	130.5	8.1
U-115*130.1*6.3 HRO3	115	130.1	6.3
U-118*129*4.2 HRO3	118	129	4.2
U-120*131*4.2 HRO3	120	131	4.2
U-120*135.1*6.3 HRO3	120	135.1	6.3
U-125*140.1*6.3 HRO3	125	140.1	6.3
U-125*145.5*8.1 HRO3	125	145.5	8.1
U-130*145.1*6.3 HRO3	130	145.1	6.3
U-130*150.5*8.1 HRO3	130	150.5	8.1
U-135*150.1*6.3 HRO3	135	150.1	6.3
U-138*153.1*6.3 HRO3	138	153.1	6.3
U-140*150.7*4.2 HRO3	140	150.7	4.2
U-140*155.1*6.3 HRO3	140	155.1	6.3
U-140*160.5*8.1 HRO3	140	160.5	8.1
U-145*160.1*6.3 HRO3	145	160.1	6.3
U-150*165.1*6.3 HRO3	150	165.1	6.3
U-155*170.1*6.3 HRO3	155	170.1	6.3
U-160*175.1*6.3 HRO3	160	175.1	6.3
U-160*180.5*8.1 HRO3	160	180.5	8.1
U-165*180.1*6.3 HRO3	165	180.1	6.3
U-170*185.1*6.3 HRO3	170	185.1	6.3
U-180*195.1*6.3 HRO3	180	195.1	6.3
U-180*200.5*8.1 HRO3	180	200.5	8.1
U-185*200.1*6.3 HRO3	185	200.1	6.3

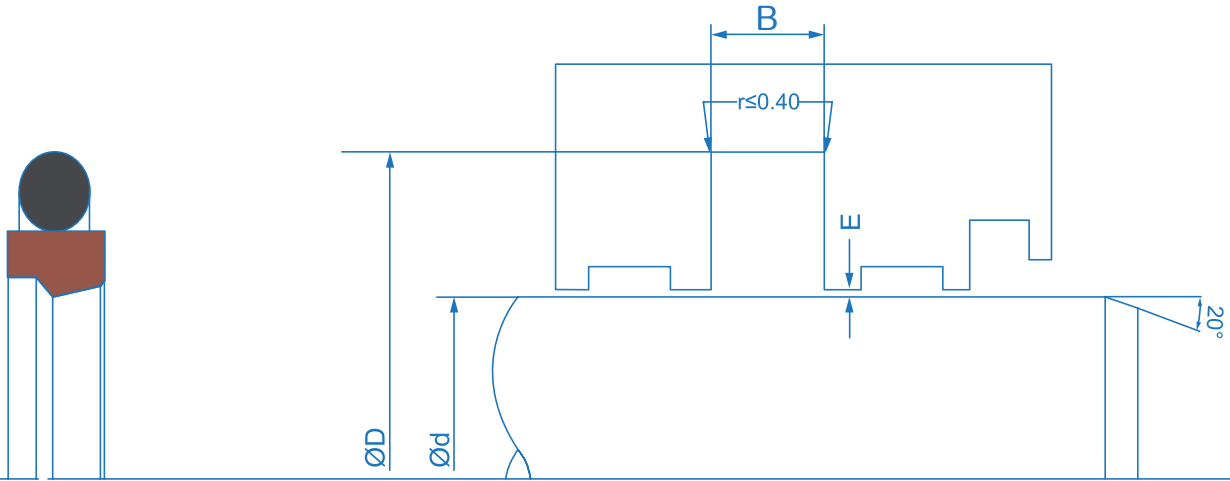
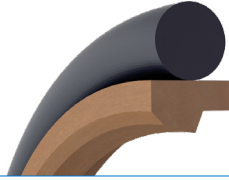


HRO3

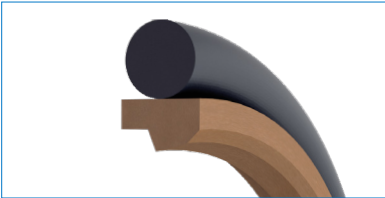


NO.	Ød	ØD	B
U-190*205.1*6.3 HRO3	190	205.1	6.3
U-195*210.1*6.3 HRO3	195	210.1	6.3
U-199*221*8.1 HRO3	199	221	8.1
U-200*220.5*8.1 HRO3	200	220.5	8.1
U-204*225*8.1 HRO3	204	225	8.1
U-205*225.5*8.1 HRO3	205	225.5	8.1
U-210*230.5*8.1 HRO3	210	230.5	8.1
U-220*240.5*8.1 HRO3	220	240.5	8.1
U-225*245.5*8.1 HRO3	225	245.5	8.1
U-230*250.5*8.1 HRO3	230	250.5	8.1
U-235*255.5*8.1 HRO3	235	255.5	8.1
U-240*260.5*8.1 HRO3	240	260.5	8.1
U-242*262.5*8.1 HRO3	242	262.5	8.1
U-250*270.5*8.1 HRO3	250	270.5	8.1
U-260*284*8.1 HRO3	260	284	8.1
U-270*294*8.1 HRO3	270	294	8.1
U-275*295*8.1 HRO3	275	295	8.1
U-280*304*8.1 HRO3	280	304	8.1
U-290*314*8.1 HRO3	290	314	8.1
U-300*324*8.1 HRO3	300	324	8.1
U-310*334*8.1 HRO3	310	334	8.1
U-320*344*8.1 HRO3	320	344	8.1
U-330*354*8.1 HRO3	330	354	8.1
U-340*364*8.1 HRO3	340	364	8.1
U-340*367.3*9.5 HRO3	340	367.3	9.5
U-350*374*8.1 HRO3	350	374	8.1

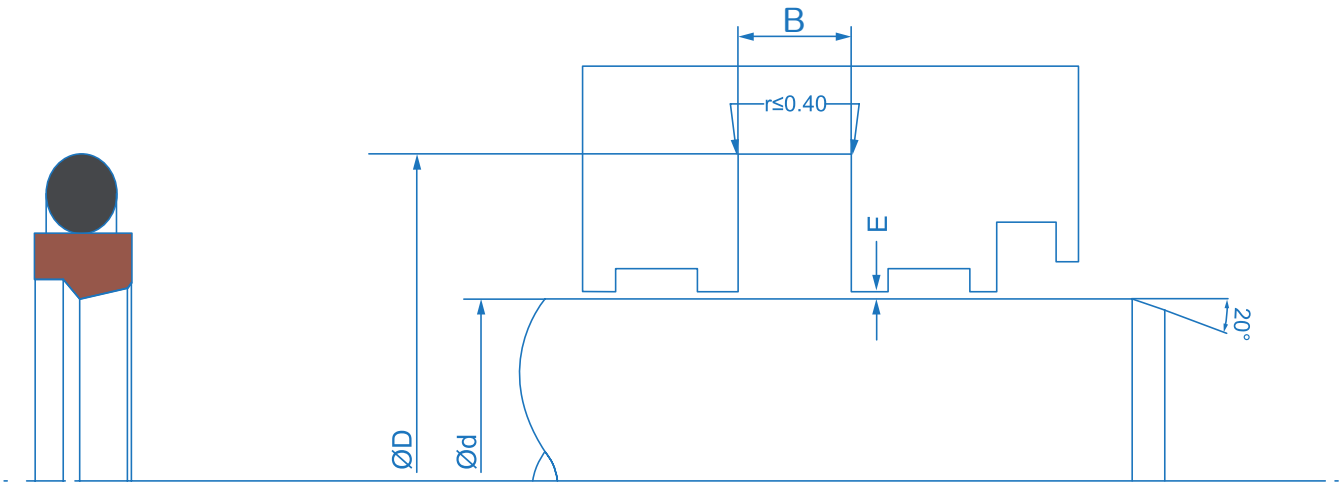
HRO3



NO.	Ød	ØD	B
U-360*384*8.1 HRO3	360	384	8.1
U-370*394*8.1 HRO3	370	394	8.1
U-380*404*8.1 HRO3	380	404	8.1
U-390*414*8.1 HRO3	390	414	8.1
U-400*424*8.1 HRO3	400	424	8.1
U-410*434*8.1 HRO3	410	434	8.1
U-420*444*8.1 HRO3	420	444	8.1
U-430*454*8.1 HRO3	430	454	8.1
U-440*464*8.1 HRO3	440	464	8.1
U-450*474*8.1 HRO3	450	474	8.1
U-460*484*8.1 HRO3	460	484	8.1
U-470*494*8.1 HRO3	470	494	8.1
U-480*504*8.1 HRO3	480	504	8.1
U-500*524*8.1 HRO3	500	524	8.1
U-520*544*8.1 HRO3	520	544	8.1
U-525*549*8.1 HRO3	525	549	8.1
U-550*574*8.1 HRO3	550	574	8.1
U-560*584*8.1 HRO3	560	584	8.1
U-570*594*8.1 HRO3	570	594	8.1
U-580*604*8.1 HRO3	580	604	8.1
U-600*624*8.1 HRO3	600	624	8.1
U-630*654*8.1 HRO3	630	654	8.1
U-650*674*8.1 HRO3	650	674	8.1
U-650*673.3*9.5 HRO3	650	673.3	9.5
U-650*677.3*9.5 HRO3	650	677.3	9.5
U-690*717.3*9.5 HRO3	690	717.3	9.5



HRO3



NO.	$\varnothing d$	$\varnothing D$	B
U-700*727.3*9.5 HRO3	700	727.3	9.5
U-710*737.3*9.5 HRO3	710	737.3	9.5
U-730*757.3*9.5 HRO3	730	757.3	9.5
U-750*777.3*9.5 HRO3	750	777.3	9.5
U-770*797.3*9.5 HRO3	770	797.3	9.5
U-800*824*8.1 HRO3	800	824	8.1
U-800*827.3*9.5 HRO3	800	827.3	9.5