

PROFILES, CORDS AND HOSES

PRODUCT OVERVIEW

- Profiles
 - U-rings
 - Mating rings for U-rings
 - Hat Seals
 - X Profiles
 - Other special profiles
- Cords
 - Cord
 - Cord rings
- Hoses
 - Hoses
 - Hose rings.

PRODUCT DESCRIPTION

Special profiles, cords or hoses are utilised whenever large sealing contact areas cannot be effectively sealed by form seals or O-rings, for example, in tunnelling machines, ships engines and hatchways. Over 3500 different profile nozzles as well as numerous materials are available. In addition, the development and production of customer-specific designs is possible, where the tool costs are very low compared to shape related components.

PRODUCT ADVANTAGES

- Sealing large seal contact areas that cannot be sealed by an O-ring or a shape related component
- Customer-specific product development
- Low tool costs in comparison to shape related components
- Proprietary tool construction to ensure short supply times
- All common elastomers can be utilised
- Special materials competency
- Low number of pieces/amounts possible
- Profile rings in NBR and FKM are available with vulcanisation to butt. Advantages of batch vulcanisation:
 - Peak tensile strength values
 - Identical elastomer as connecting element provides long-lasting durability.

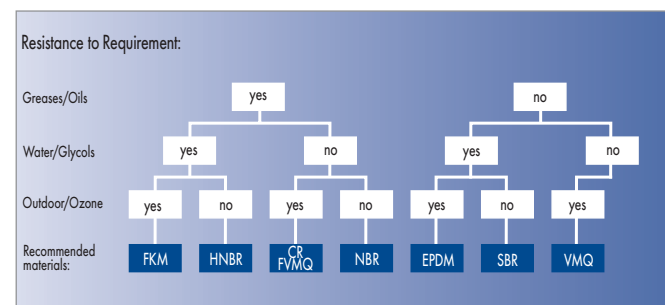
APPLICATION

Components manufactured from profiles perform sealing tasks in numerous industrial sectors.

- Heavy-duty mechanical engineering, e.g. tunnel driving technology, cement/ rock mills
- Plant engineering, e.g. turbines, shut-off valves, process cylinders
- Prime movers, e.g. ships' engines
- Separators, e.g. filtering technology, large separators
- Mechanical engineering, e.g. industrial washing machines, rotating assemblies
- Chemical industry, e.g. bins/reaction vessels, dosing units/ dosing pumps
- Medical technology, e.g. diagnostic equipment components, dosing units
- Foodstuffs industry, e.g. industrial juice presses, separators, and butchering machines.

MATERIAL

Besides the common materials with shorter delivery times, numerous special materials are also offered. These feature outstanding quality and durability. In the following overview, suitable materials can be selected according to their requirements.



Material configuration

Material	Colour	Operating temperature range
50 NBR 121 *	Black	-30 ... +90 °C
60 NBR 122	Black	-30 ... +90 °C
70 NBR 221	Black	-25 ... +90 °C
70 NBR 803	Grey	-25 ... +90 °C
70 NBR 173216	Black	-30 ... +70 °C
72 NBR 872	Black	-30 ... +100 °C
79 NBR 105	Black	-30 ... +90 °C
80 NBR 709*	Black	-30 ... +90 °C
85 NBR 714	Black	-20 ... +90 °C
88 NBR 101	Black	-30 ... +100 °C
39 CR 174240*	Grey	-40 ... +80 °C
55 CR 852	Black	-40 ... +110 °C
67 CR 853	Black	-40 ... +110 °C
67 CR 215595	Black	-40 ... +80 °C
58 EPDM 215550	Grey	-40 °C ... +120 °C
70 EPDM 275	Black	-40 °C ... +120 °C
70 FKM 598	Green	-15 °C ... +200 °C
70 FKM 215450	Black	-10 °C ... +200 °C
72 FKM 588	Black	-10 °C ... +200 °C
60 FVMQ 143026	Beige	-80 °C ... +175 °C
50 VMQ 570	Beige	-40 °C ... +200 °C
50 VMQ 114721	Yellow transparent	-40 °C ... +180 °C
58 VMQ 518	Red brown	-40 °C ... +200 °C
60 VMQ 114722	Yellow transparent	-40 °C ... +180 °C
70 VMQ 114723	Yellow transparent	-40 °C ... +180 °C
78 VMQ 526	Red	-40 °C ... +200 °C

* Special material on enquiry

DESIGN NOTES

Tolerances

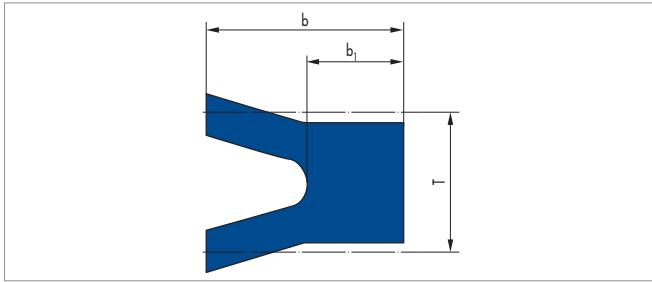
All profiles, cords and hoses are manufactured according to DIN ISO 3302-1 E2. In exceptional cases, production according to E1 is also possible.

Limits for dimensions of cross sections of extruded components not supported (all dimensions in mm):

Nominal dimension		Tolerance class	
over	to	E1 *	E2
0	1,5	0,15	0,25
1,5	2,5	0,20	0,35
2,5	4,0	0,25	0,40
4,0	6,3	0,35	0,50
6,3	10,0	0,40	0,70
10	16	0,50	0,80
16	25	0,70	1,00
25	40	0,80	1,30
40	63	1,00	1,60
63	100	1,30	2,00

* Sometimes possible in individual cases

U-RINGS



U-rings are produced, extruded and bonded to the butt for use as piston or rod seals. U-rings made of NBR and FKM are also available with vulcanisation to butt. They can be supplied at extremely short notice.

Fitting & installation

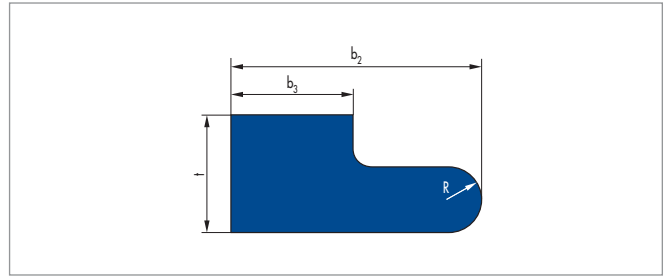
The inner diameter of the U-ring should be at least 15 times the profile cross section dimension (T).

Article list

T	b	b1	Article No.
4	8	5	DÜ 115
6	6	3	DÜ 206
6	8	5	DÜ 859
10	10	4	DÜ 175
12	12	6	DÜ 619
15	15	7,5	DÜ 155
15	18	9	DÜ 1045
20	20	10	DÜ 141
25	25	12,5	DÜ 111
30	30	15	DÜ 241

Other dimensions on enquiry.

MATING RINGS FOR U-RINGS

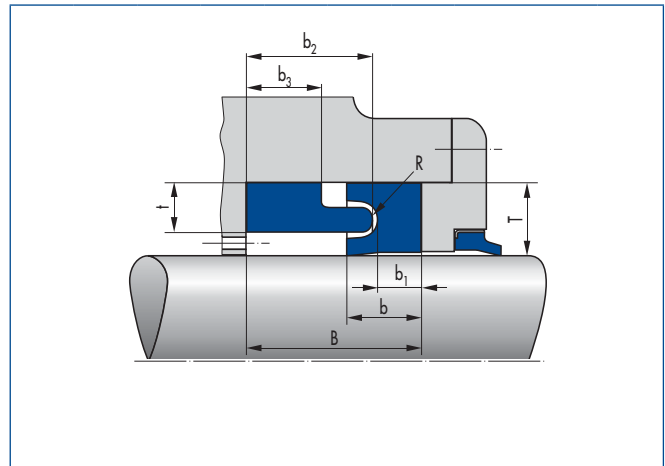


Mating rings are used for fastening and prevent axial movement of the U-rings, which can damage the sealing edges at the sealing lips. They are manufactured using extruders. The mating rings are always supplied by the metre.

Fitting notes

During fitting, the two ends are placed flush to one another. The mating rings can be seated on the U-rings with a slight axial tension.

Article list



U-ring			Mating ring				Article No.	B
T	b	b1	T	b2	b3	R		
10	10	4,0	6,5	20	10	1,5	DÜ 287	25
15	15	17,5	11	32	18	3	DÜ 188	39,5
20	20	10	14	30	15	4	DÜ 160	40

Other dimensions on enquiry.

HAT SEALS

Hat seals are used for sealing axially moving rods. This design is not suitable for use on rotating shafts. The hat seals are bonded to the butt in extruded form. A support of the sealing lip by a metal back-up ring is advisable. This is not part of the Simrit range. Hat seals can be supplied at extremely short notice.

Operating conditions

Operating pressure: ≤ 10 bar

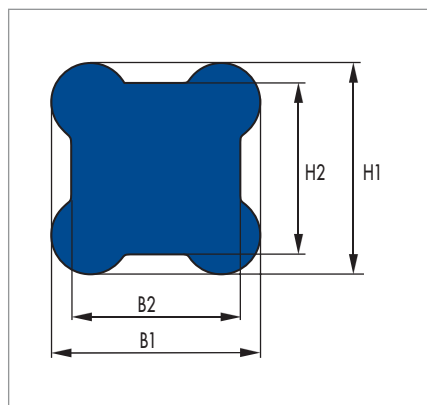
Running speed: $< 0,5$ m/s.

Article list

Schematic representation: Hat seals							back-up ring			
d_N	b	T	t_1	b_1	b_2	c	Z_1	Z_2	Z_3	Article No.
350 ... 500	12	17,5	3	4	2,5	5,5	0,50	1,05	2,45	DÜ 161 A
350 ... 800	15	16	3,5	5	3	7,5	0,75	1,30	3,30	DÜ 200 A
380 ... 800	15	20	3,5	5	3	7,5	0,75	1,30	3,30	DÜ 162 A
450 ... 1200	18	22,5	4	5,5	3,5	8,5	0,75	1,30	3,60	DÜ 163 A
> 500	20	25	5	6	4	11	0,75	1,15	4,10	DÜ 164 A

Other dimensions on enquiry.

X-PROFILES



X-Profiles are used for sealing rods, cylinders and housings. The lower compression required as a result of the four lip sealing profile makes them favourable to round profiles and results in cost advantages during installation. In addition, X-Profiles can easily be used in a rectangular groove thanks to their contour. The decisive advantage of the X-Profile is that the risk of tilting and twisting is minimised due to the larger bearing surface.

Article list

B1	B2	H1	H2	Article No.
6	3,5	6	3,5	DÜ 20053
6	4	6	4	DÜ 3125
8	6,4	8	6,4	DÜ 20057
10	8	10	8	DÜ 20069
13	10,4	13	10,4	DÜ 3234
16	12,8	16	12,8	DÜ 3233

Other dimensions on enquiry.

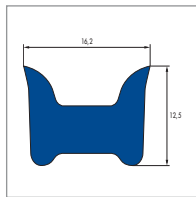
OTHER SPECIAL PROFILES

Profiles can be produced and supplied as follows:

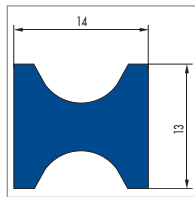
- By the metre
 - With/without integral bend
- Profile sections
 - Produced to customer requirements
(up to 2000 mm without integral bend possible)
- Profile rings
 - Bonded to butt or batch vulcanised.

Profile nozzles

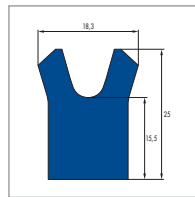
Below is a selection of the 3500 profile nozzles in stock. Individual tools can be developed and produced for special designs on enquiry. This normally takes around 4 weeks.



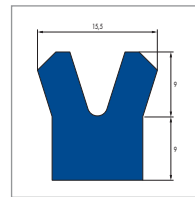
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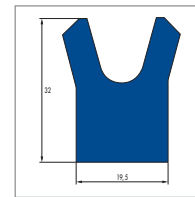
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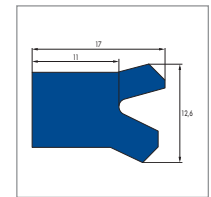
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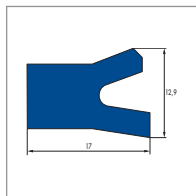
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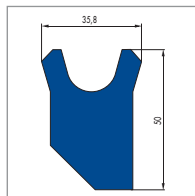
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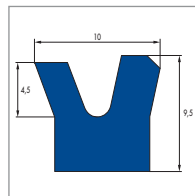
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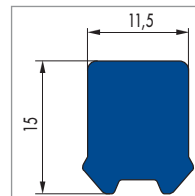
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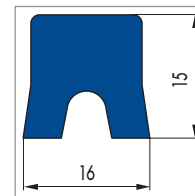
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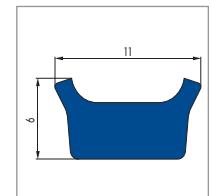
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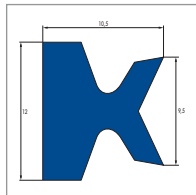
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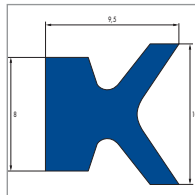
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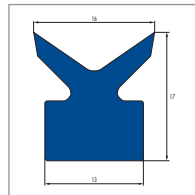
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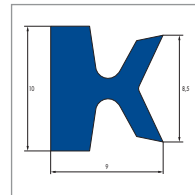
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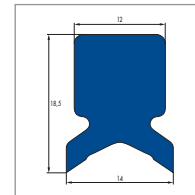
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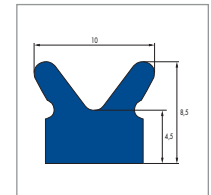
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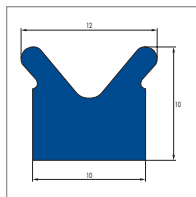
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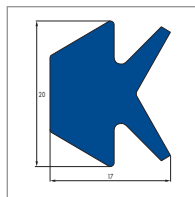
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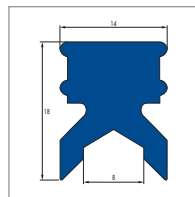
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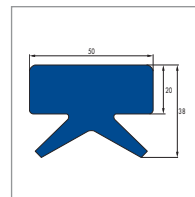
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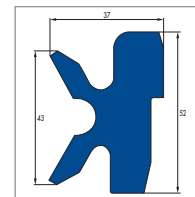
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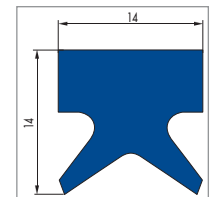
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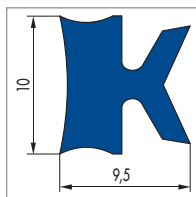
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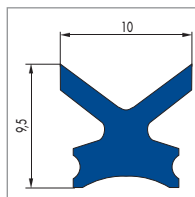
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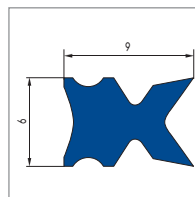
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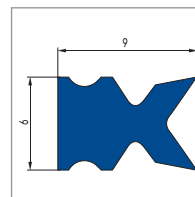
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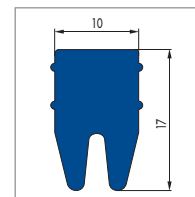
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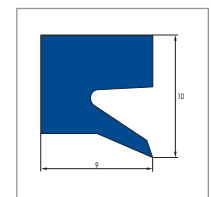
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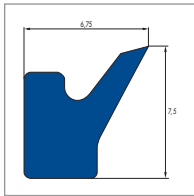
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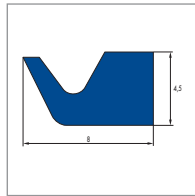
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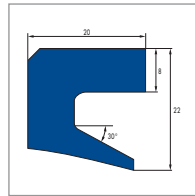
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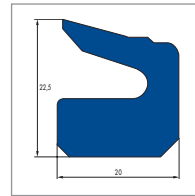
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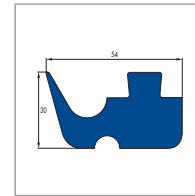
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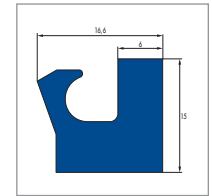
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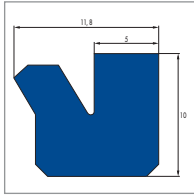
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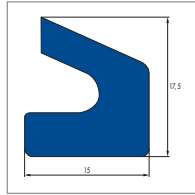
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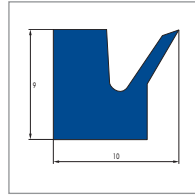
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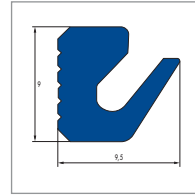
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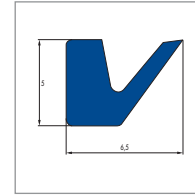
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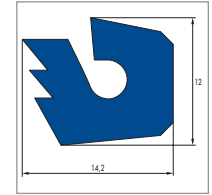
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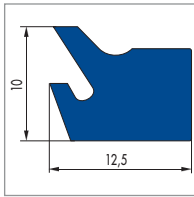
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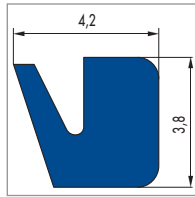
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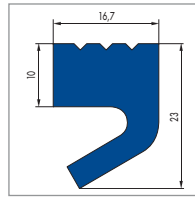
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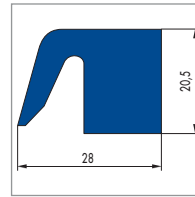
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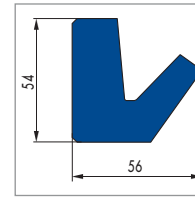
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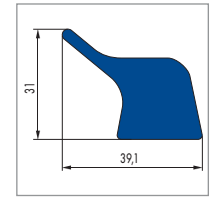
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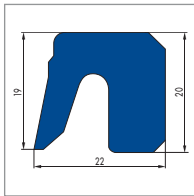
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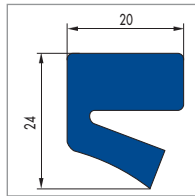
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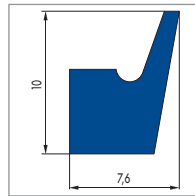
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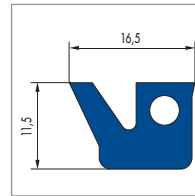
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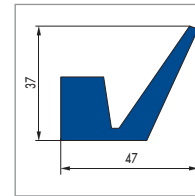
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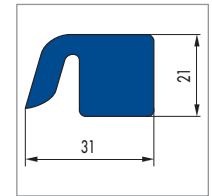
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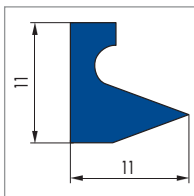
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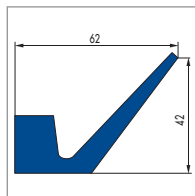
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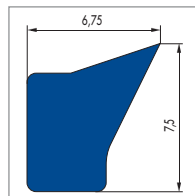
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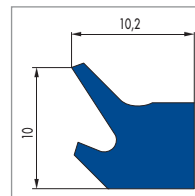
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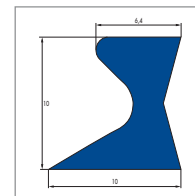
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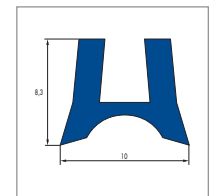
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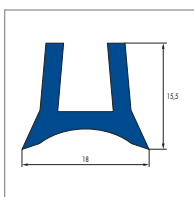
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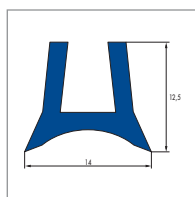
Profile 522



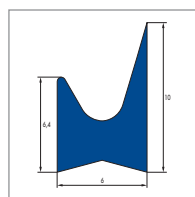
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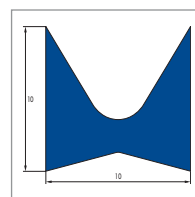
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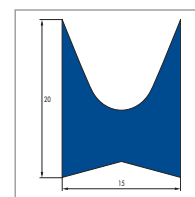
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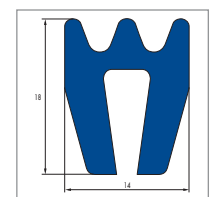
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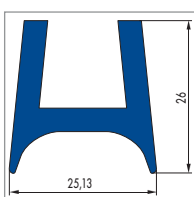
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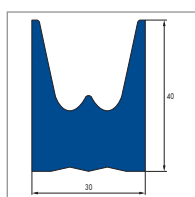
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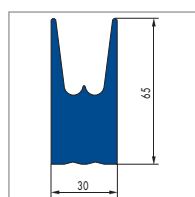
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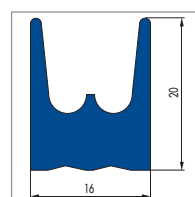
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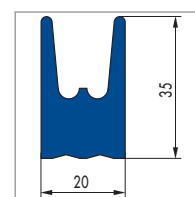
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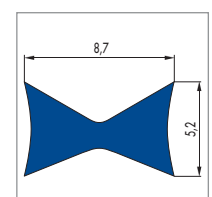
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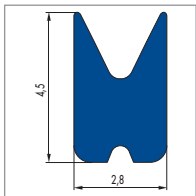
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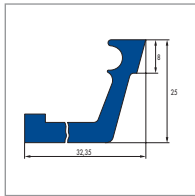
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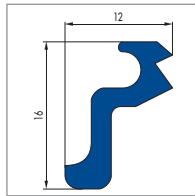
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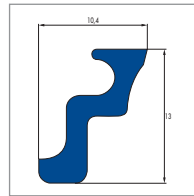
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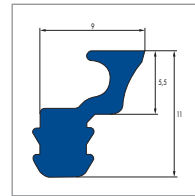
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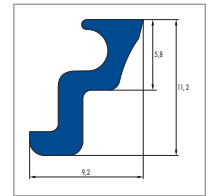
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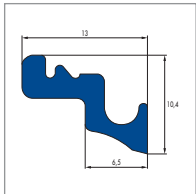
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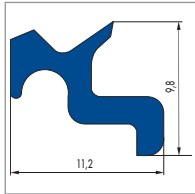
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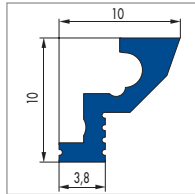
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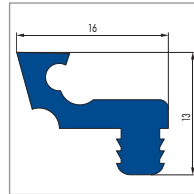
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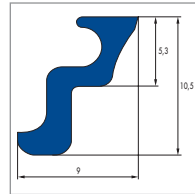
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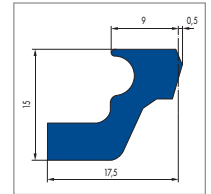
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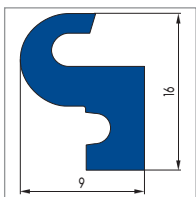
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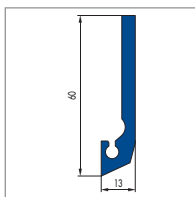
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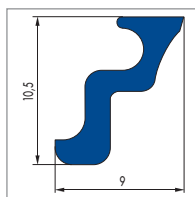
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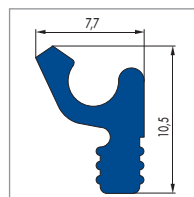
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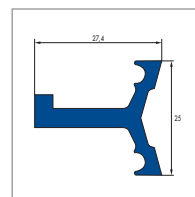
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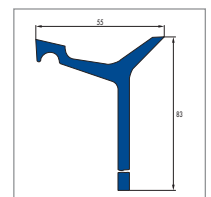
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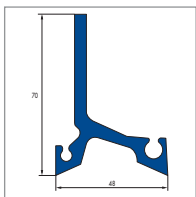
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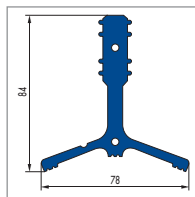
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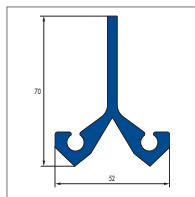
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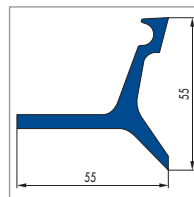
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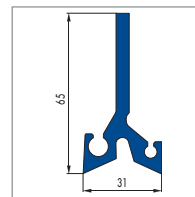
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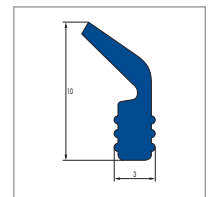
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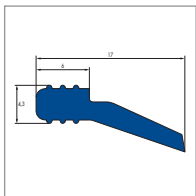
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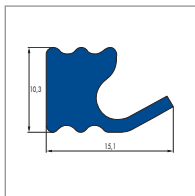
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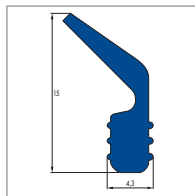
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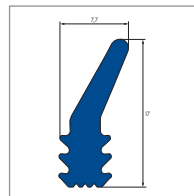
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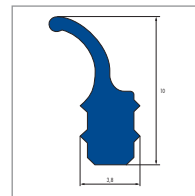
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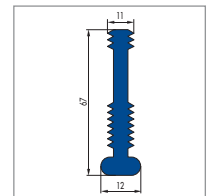
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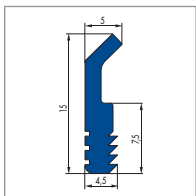
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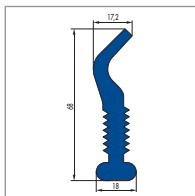
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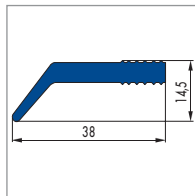
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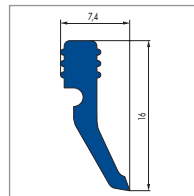
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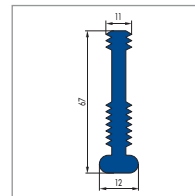
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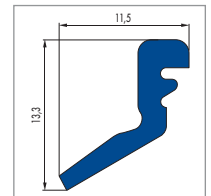
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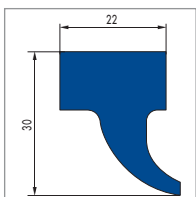
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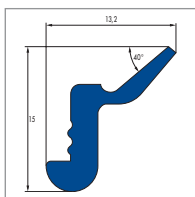
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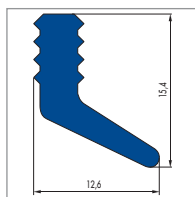
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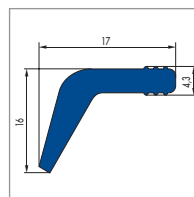
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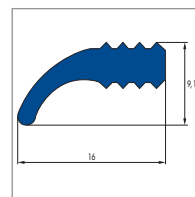
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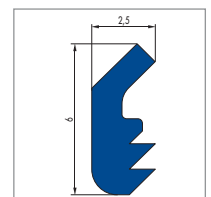
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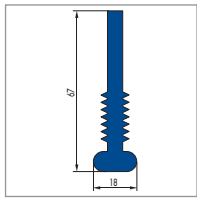
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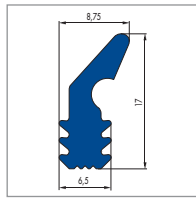
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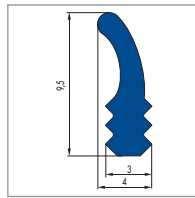
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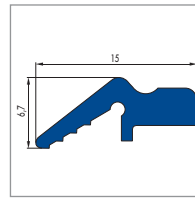
Profile 20158



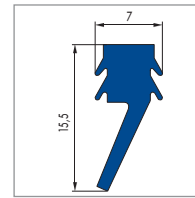
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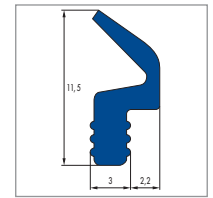
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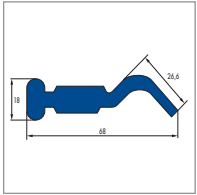
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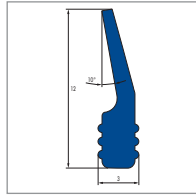
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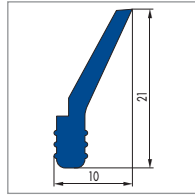
Profile 20269



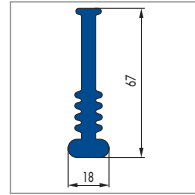
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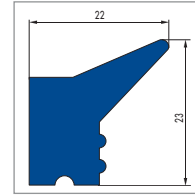
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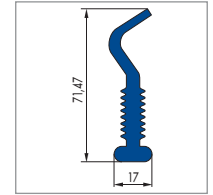
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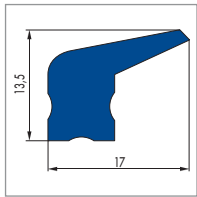
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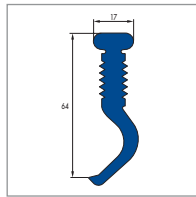
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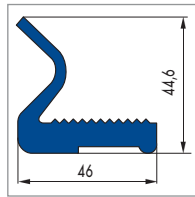
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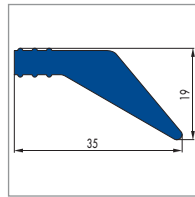
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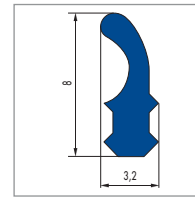
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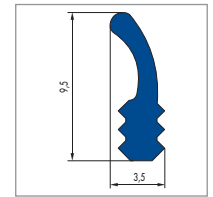
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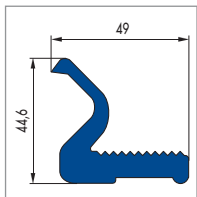
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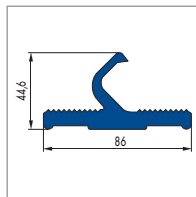
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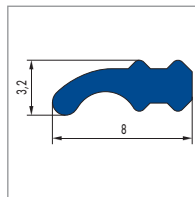
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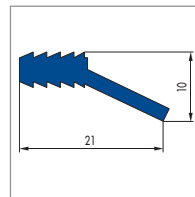
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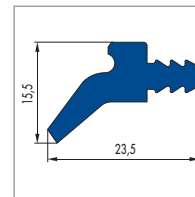
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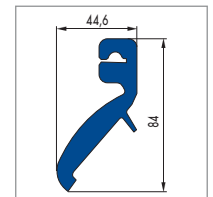
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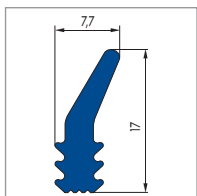
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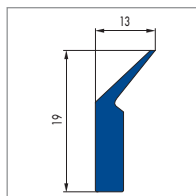
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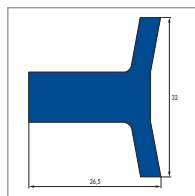
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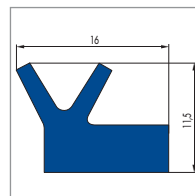
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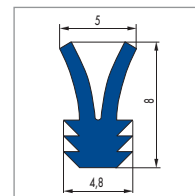
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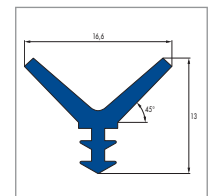
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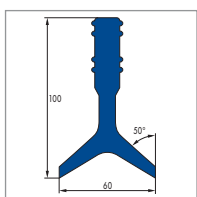
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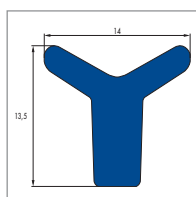
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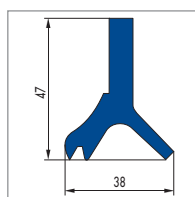
Profile 20228



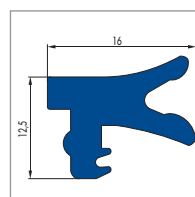
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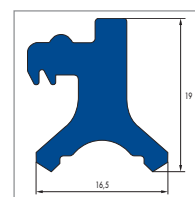
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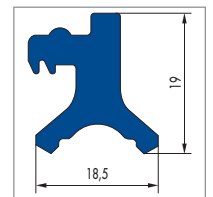
Profile 20419



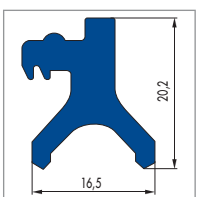
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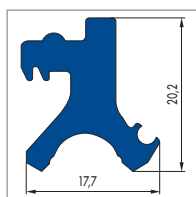
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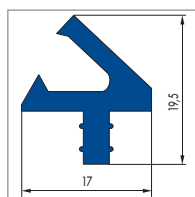
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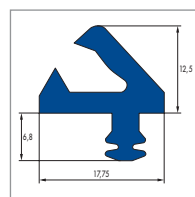
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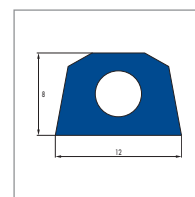
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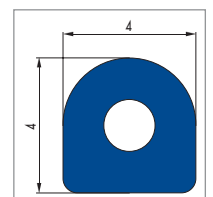
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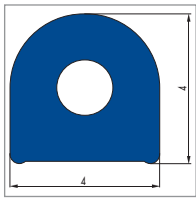
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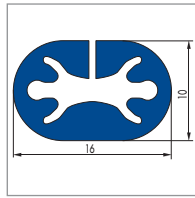
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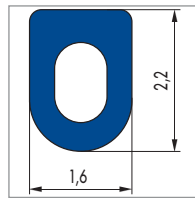
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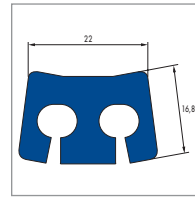
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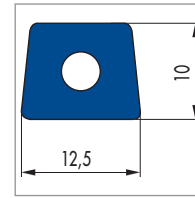
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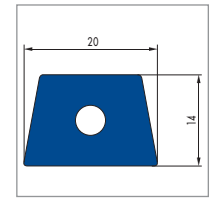
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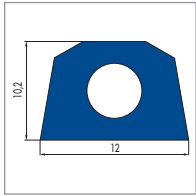
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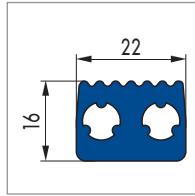
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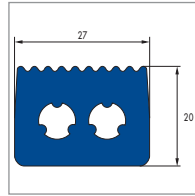
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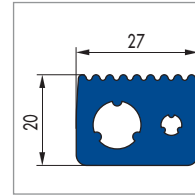
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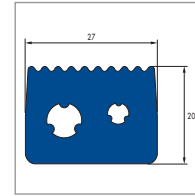
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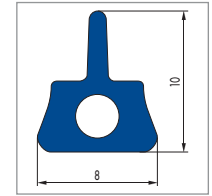
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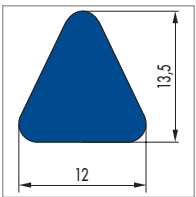
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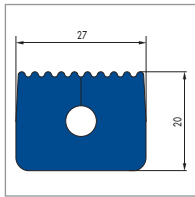
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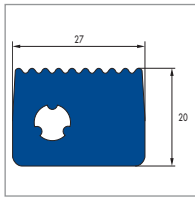
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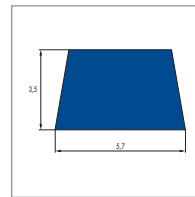
Profile 20426



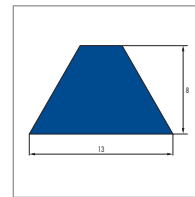
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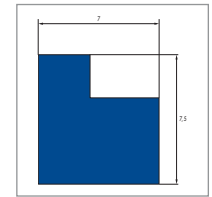
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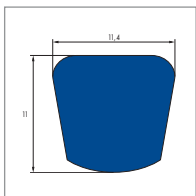
Profile 532



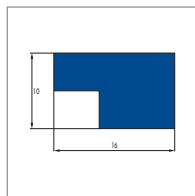
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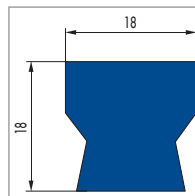
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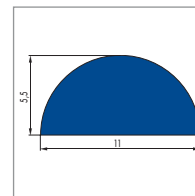
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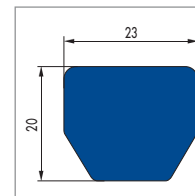
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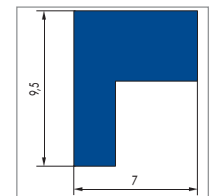
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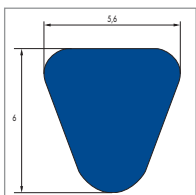
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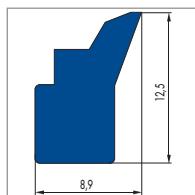
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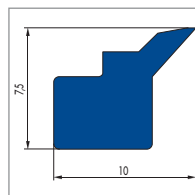
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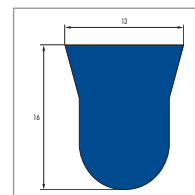
Profile 20163



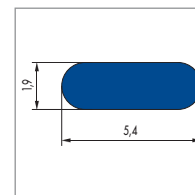
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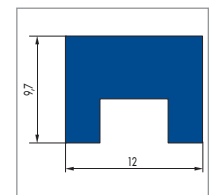
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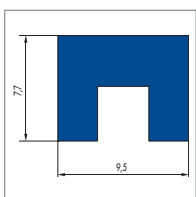
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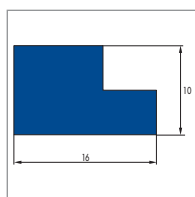
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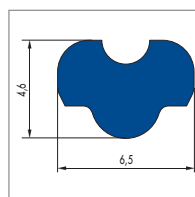
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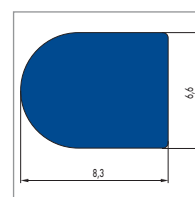
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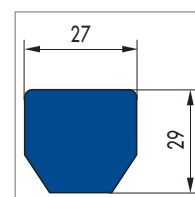
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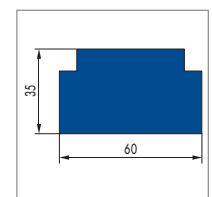
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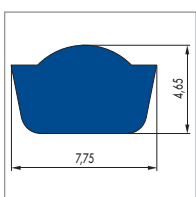
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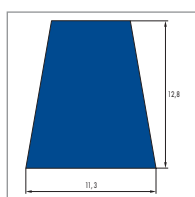
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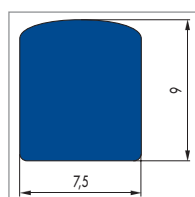
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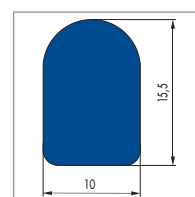
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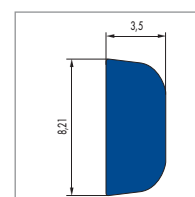
Profile 20406



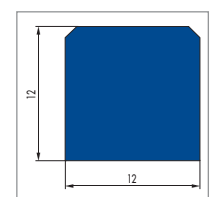
Profile 20436



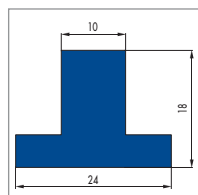
Profile 20450



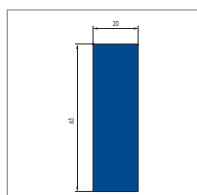
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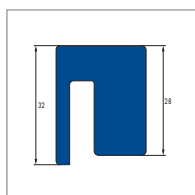
Profile 20501



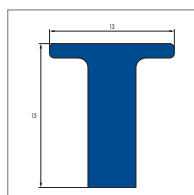
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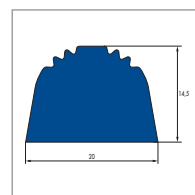
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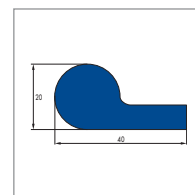
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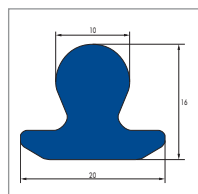
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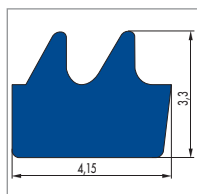
Profile 3225



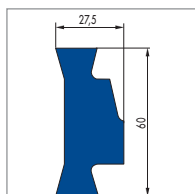
Profile 3274



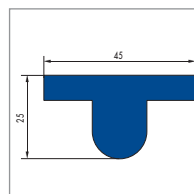
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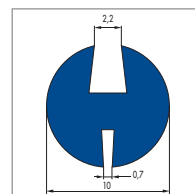
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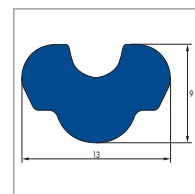
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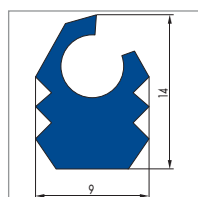
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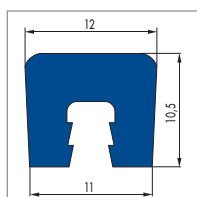
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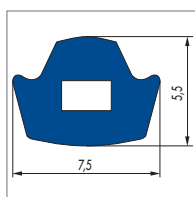
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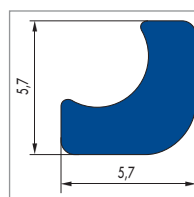
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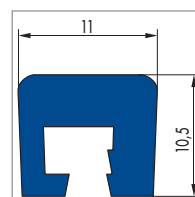
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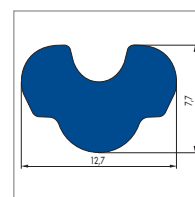
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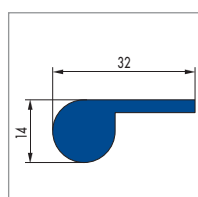
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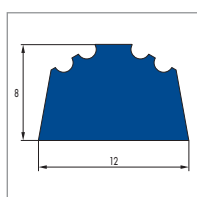
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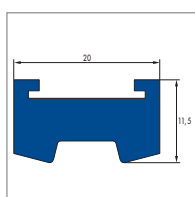
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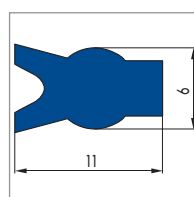
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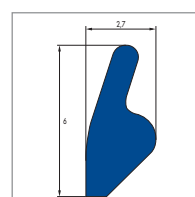
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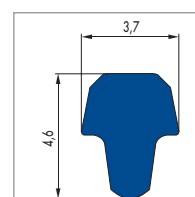
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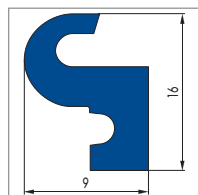
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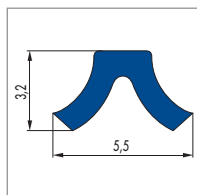
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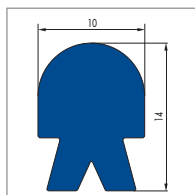
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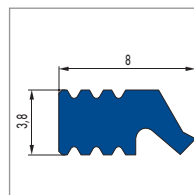
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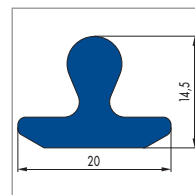
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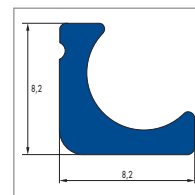
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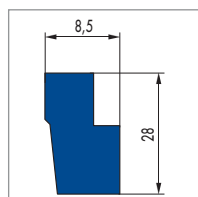
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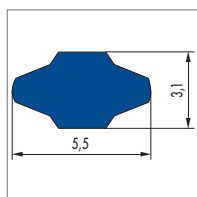
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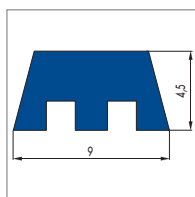
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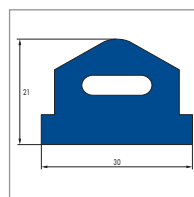
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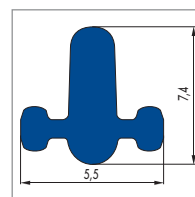
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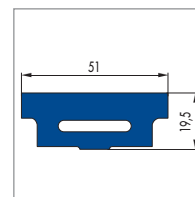
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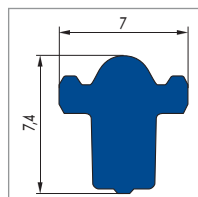
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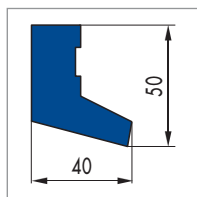
Profile 20434



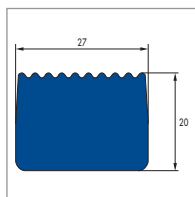
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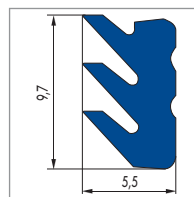
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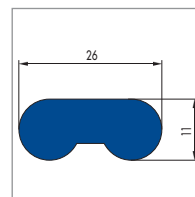
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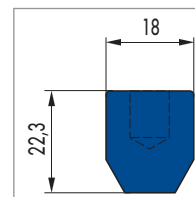
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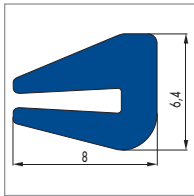
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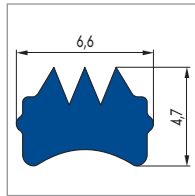
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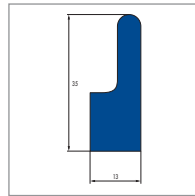
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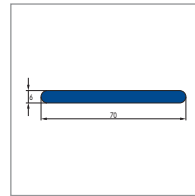
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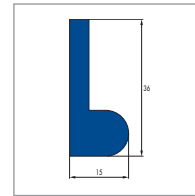
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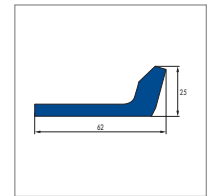
Profile 272



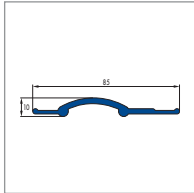
Profile 330



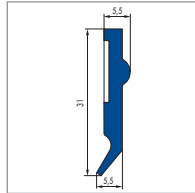
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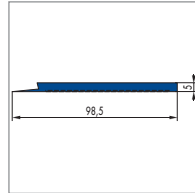
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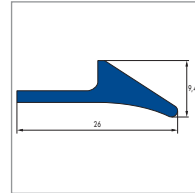
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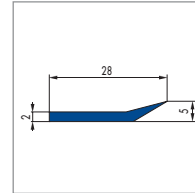
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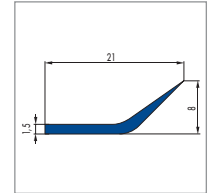
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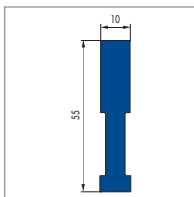
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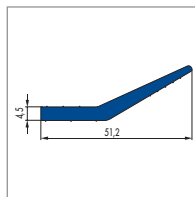
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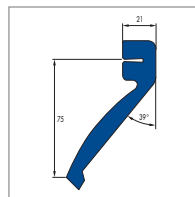
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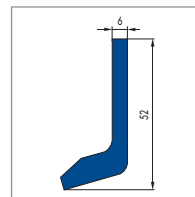
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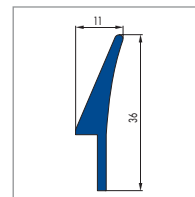
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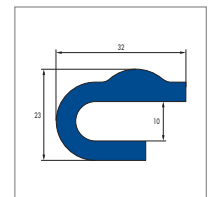
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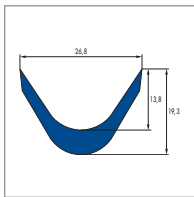
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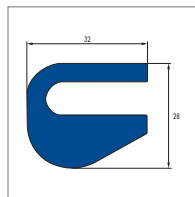
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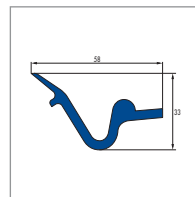
Profile 346



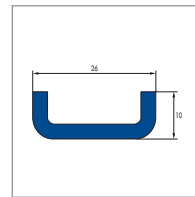
Profile 441



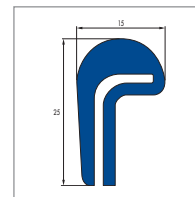
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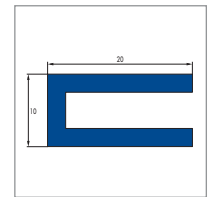
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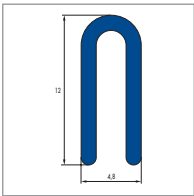
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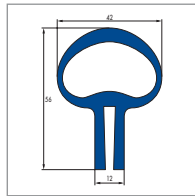
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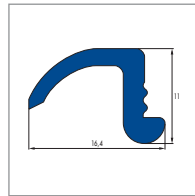
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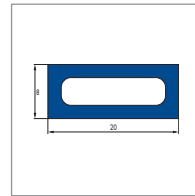
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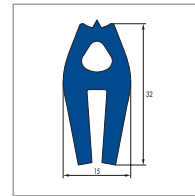
Profile 2018



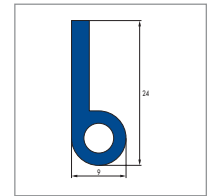
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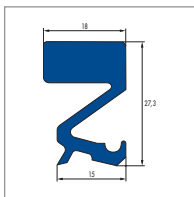
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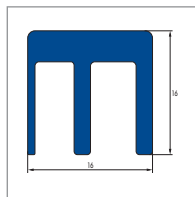
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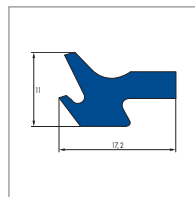
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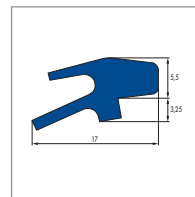
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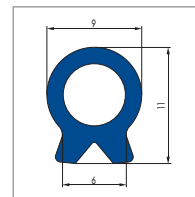
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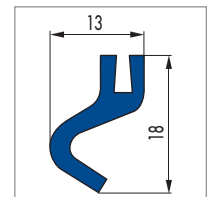
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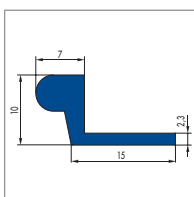
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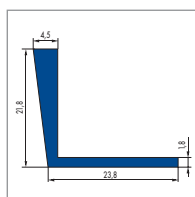
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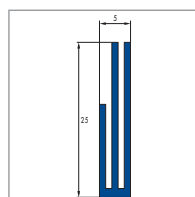
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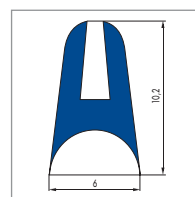
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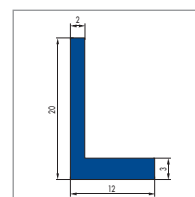
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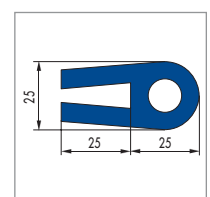
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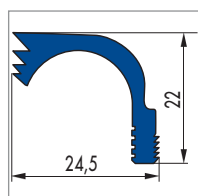
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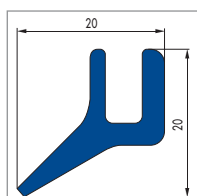
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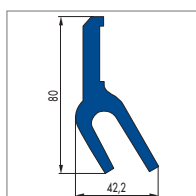
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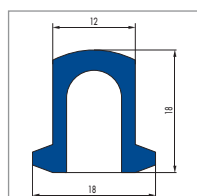
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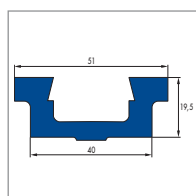
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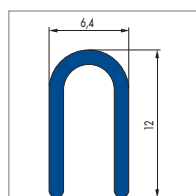
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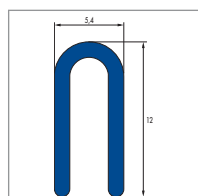
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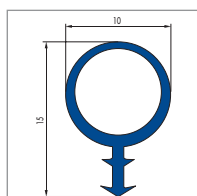
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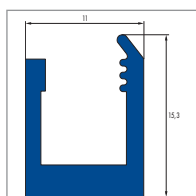
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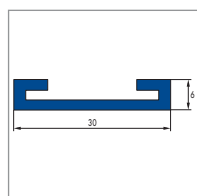
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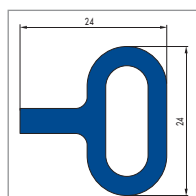
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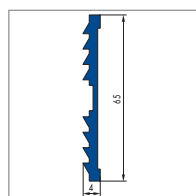
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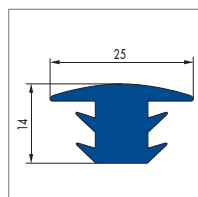
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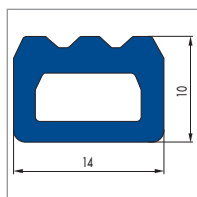
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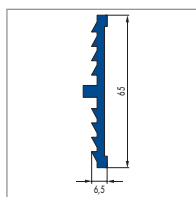
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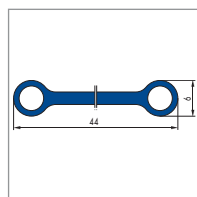
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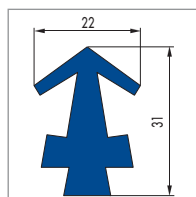
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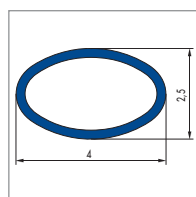
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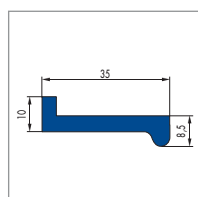
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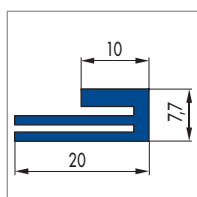
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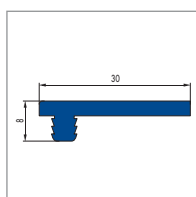
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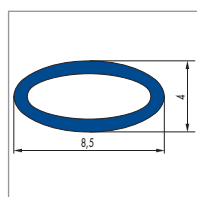
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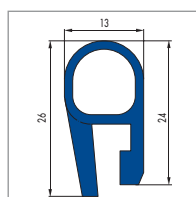
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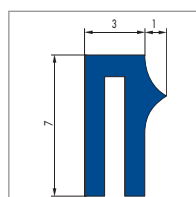
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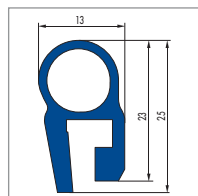
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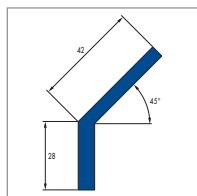
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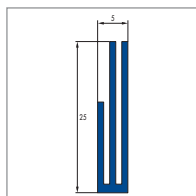
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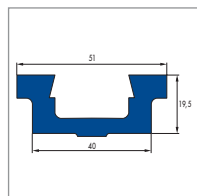
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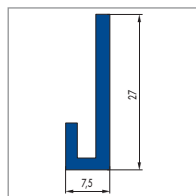
Profile 20211



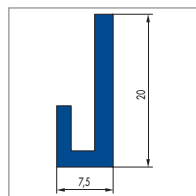
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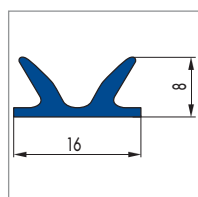
Profile 20213



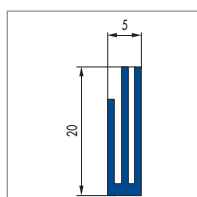
Profile 20293



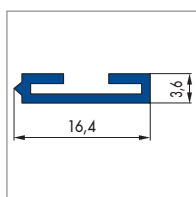
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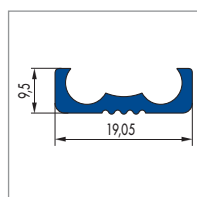
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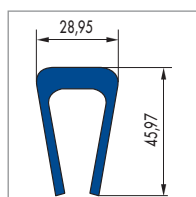
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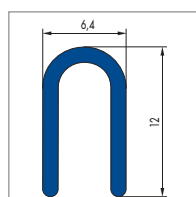
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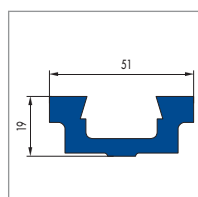
Profile 20379



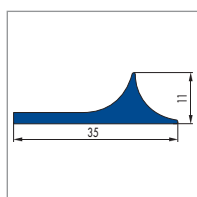
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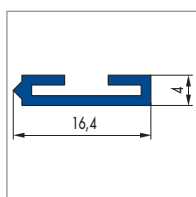
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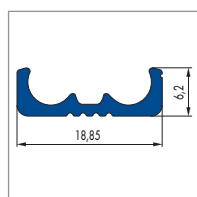
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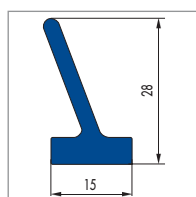
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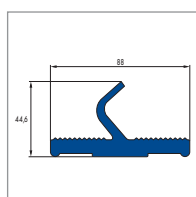
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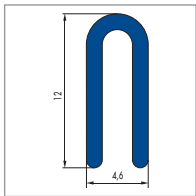
Profile 20425



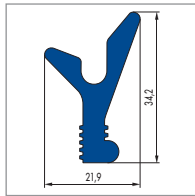
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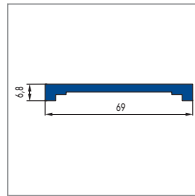
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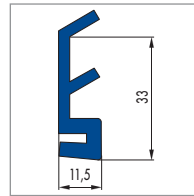
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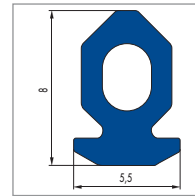
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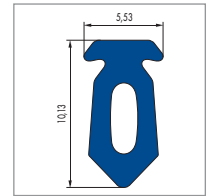
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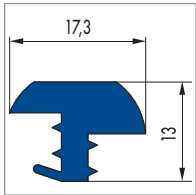
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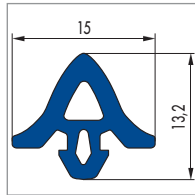
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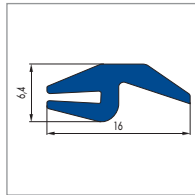
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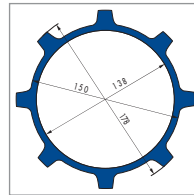
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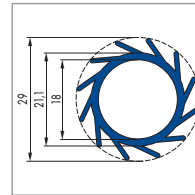
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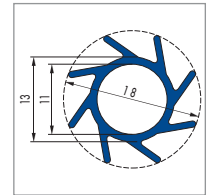
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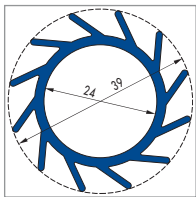
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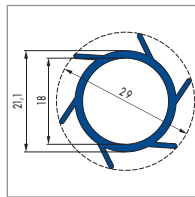
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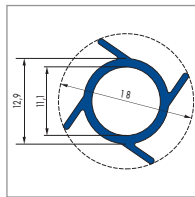
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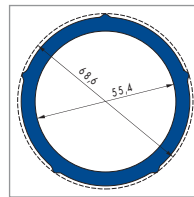
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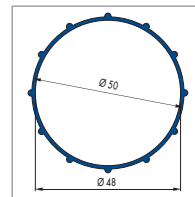
Profile 20181



Profile 20182



Profile 20189



Profile 20325

CORD

The endless, extruded cord with O-ring profile serves as base material for cord rings, among others. These are used, for example, for the sealing of larger flanges or tank lids.

Range

- By the metre:
 - From 1 to 40 mm cord diameter available
- Cord sections:
 - Produced from cord supplied by the metre
 - From 1 to 40 mm cord diameter
 - Up to 2000 mm length without integral bend possible.

Article list

The following cords with cord diameter from 1 to 12 mm are available from stock

Ø d ₂	Tolerance	Material	Article No.	
1	±0,3	72 NBR M00872	73325	●
1,5	±0,3	72 NBR M00872	71863	●
2	±0,3	72 NBR M00872	72370	●
2,5	±0,3	72 NBR M00872	72213	●
3	±0,3	72 NBR M00872	77143	●
3,5	±0,4	72 NBR M00872	73010	●
4	±0,4	72 NBR M00872	70472	●
4,5	±0,4	72 NBR M00872	73459	●
5	±0,4	72 NBR M00872	72214	●
6	±0,4	72 NBR M00872	72217	●
7	±0,5	72 NBR M00872	73399	●
8	±0,5	72 NBR M00872	72365	●
9	±0,5	72 NBR M00872	72219	●
10	±0,5	72 NBR M00872	72366	●
11	±0,6	72 NBR M00872	77126	●
12	±0,6	72 NBR M00872	74034	●

● Available from stock; Other dimensions on enquiry.

CORD RINGS

Cord rings are extruded cords, which are cut to the appropriate diameter and bonded or vulcanised to butt.

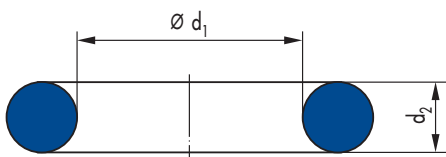
Range

Cord rings are produced from cord supplied by the metre. They are available with a cord diameter from 1 to 40 mm. A two-part adhesive can be used for bonding to butt. NBR and FKM product versions are available ex works with vulcanisation to butt.

Tolerances

The range of tolerances tends towards the negative side as a certain amount of elongation of rings with a large diameter is possible at any time during installation without causing an appreciable tapering of the cross section.

Article list

			
d ₁	Tolerance	d ₂	Tolerance
>80 ... 120	-1	≤3	±0,3
>120 ... 180	-1,4	>3 ... 6	±0,4
>180 ... 250	-1,2	>6 ... 10	±0,5
>250 ... 315	-2,8	>10 ... 18	±0,6
>315 ... 400	-3,5	>18 ... 30	±0,8
>400 ... 500	-4,5		
>500 ... 600	-6		
>600	-1% of d ₁		

HOSES

Hoses are produced from all standard elastomer materials. Hoses are "mandrel vulcanised", which means that they can be produced with precision tolerances for particular individual applications. They are processed by grinding the outside diameter.

Range

Hoses are supplied in the following designs always in agreement/on enquiry.

- By the metre
 - up to 20 mm hose inside diameter possible
- Hose sections
 - up to 2000 mm length without integral bend possible
- Hose rings
 - produced from hoses supplied by the metre
- Drive belts, press rings, clearer roller covers
 - up to 200 mm hose inside diameter possible.

HOSE RINGS

Hose rings are rings punched from the hose and produced as hose by the metre. Hose rings made from precision hoses have absolute sharp inside and outside edges. The inside diameter is smooth and absolutely cylindrical. If necessary, a chamber and/or coloured marking is also possible.

Due to the special manufacturing process, a particularly good compression set is achieved.

Range

Hose rings are available always in agreement/on enquiry with a wall strength from 1 mm and up to an inside diameter of 200 mm.