

Merkel Chevron Seal Set ES, ESV

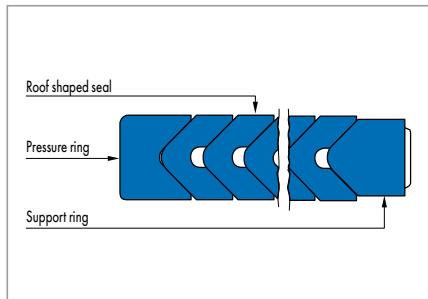


Fig. 1 Merkel Chevron Seal Set ES, ESV

Product description

Multi-component Merkel seal set for sealing piston rods, consisting of a pressure ring, at least 3 seals and a back-up ring. The Merkel Chevron Seal Sets are available in 3 different designs.

Type A has 3 to 5 fabric roof-shaped seals and can be installed in adjustable or non-adjustable sealing areas.

Type B has 3 to 5 fabric roof-shaped seals, one rubber-sprung back-up ring and is installed in non-adjustable sealing areas. Constant axial pre-load.

Type C has 2 to 4 fabric roof-shaped seals, one rubber seal and can be installed in adjustable and non-adjustable sealing areas. For an enhanced sealing effect. Type A and Type B can be supplied in open form. Type C is always delivered in endless form.

Product advantages

Seal set for robust operating conditions, mainly for provision of spare parts to old plant

- Proven under extreme conditions
- Long service life
- Can be optimally adjusted to the related application
- Functions over a certain time period even with poorer surfaces
- For application and design-related reasons fluctuations in the leakage behaviour and friction behaviour are to be expected.

Application

Injection moulding machines, presses, marine hydraulics, scrap cutters, iron and steel industry, special cylinders, steel hydraulics, engineering.

Material

Pressure ring

Material	Code
Cotton fabric/NBR	BI-NBR B259
Cotton fabric/FKM	BI-FKM

Rubber fabric roof-shaped seal

Material	Code
Cotton fabric/NBR	BI-NBR
Cotton fabric/FKM	BI-FKM

Rubber seal

Material	Code
NBR	85 NBR
FKM	85 FKM (ESV)

Back-up ring

Material	Code
Cotton fabric/NBR	BI-NBR
Cotton fabric/FKM	BI-FKM
Polyacetal POM	POM

Operating conditions

Material	BI-NBR / 85 NBR	BI-FKM / 85 FKM
	Temperature range in °C	
Hydraulic oils HL, HLP	-30 ... +100	-15 ... +140
HFA fluids	+5 ... +60	+5 ... +60
HFB fluids	+5 ... +60	+5 ... +60
HFC fluids	-30 ... +60	-15 ... +60
HFD fluids	-	-15 ... +140
Water	+5 ... +100	+5 ... +80
HETG (rapeseed oil)	-30 ... +80	-15 ... +80
HEES (synthetic ester)	-30 ... +80	-15 ... +100
HEPG (glycol)	-30 ... +60	-15 ... +80

Material	BI-NBR / 85 NBR	BI-FKM / 85 FKM
Temperature range in °C		
Mineral greases	-30 ... +100	-15 ... +140
Pressure p in MPa		40
Running speed v in m/s		0,5

Surface quality

Surface roughness	R _a	R _{max}
Sliding surface	0,05 ... 0,3 µm	≤2,5 µm
Groove base	≤1,6 µm	≤6,3 µm
Groove flanks	≤3,0 µm	≤15,0 µm

Percentage contact area M_r >50% up to max. 90% at cutting depth c = Rz/2 and reference line C ref = 0%.

Design notes

Please observe our general design notes in → Technical Manual.

Gap dimension

The largest gap dimension occurring on the non-pressurised side of the seal in operation is of vital importance for the function of the seal. → Technical Manual.

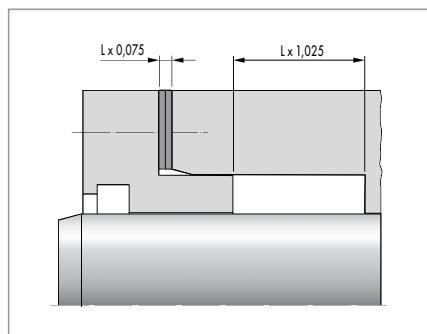
Fitting & installation

Careful fitting is a prerequisite for the correct function of the seal. Before installation all individual parts of the seal set must be greased. Mineral-oil-based greases can be used so long as they have a good seal-compatibility. The rod must be in the cylinder's installation space before installation. Merkel Chevron Seal Sets can also be built-in in an open form. This has the advantage that in the event of a repair and replacement of the seal set, e.g. in a large system, it does not require a large amount of work for installation. The sealing rings are installed on the plunger or the piston rod and pushed into the housing one by one → Technical Manual.

Nominal Ø d	d
≤80	H9/f8
>80 ... 120	H8/f8
>120 ... 500	H8/f7
> 500 ... 630	H8/f7
> 630 ... 800	H8/f7
> 800 ... 1000	H8/f7
>1000 ... 1250	H8/f7

Nominal Ø d	d
≤500	H11
>500	H10

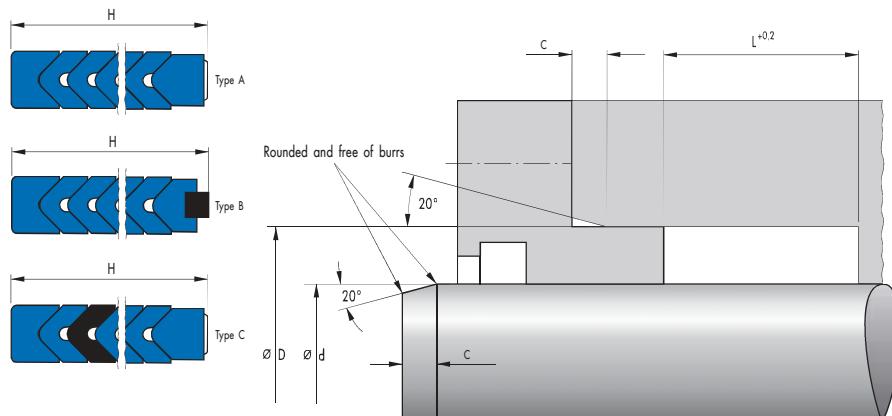
Housing



Adjustable housings have the advantage of an optimal adjustment option for the sealing effect with minimal idling friction. After a lengthy period of running and incipient wear on the seal tightening

the gland can extend the durability and significantly delay a system standstill. For adjustable housings an extension of 2,5% and an adjustability of 7,5% of dimension L is recommended. Non-adjustable housings have the advantage of more cost-effective manufacture, because washers are not required. Seal set type B is particularly recommended for these housings. The rubber-sprung back-up rings handle the function of initial compression and continuous re-adjustment during operation. Maintenance of the seal contact area is not required. This takes optimum advantage of the durability of the seal set.

Article list

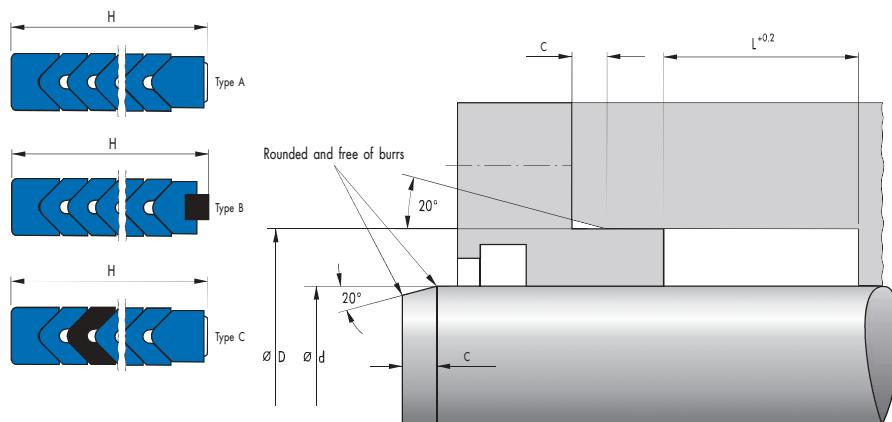


d	D	L	C	Housing	Type	Material	Type	Article No.	
16	26	18,5	3		C closed	Bi-F B3K674	ESV	24148034	○
20	28	14,5	3	ISO	C closed	Bi-N B3B246	ES	24120639	○
20	30	13,5	3		C closed	Bi-N B3B246	ES	24077934	●
20	30	13,5	3		C closed	Bi-F B3K674	ESV	24192811	○
20	30	16	3	ISO	C closed	Bi-N B3B246	ES	24220043	○
20	30	16	3	ISO	C closed	Bi-F B3K674	ESV	24219984	○
20	30	18,5	3		C closed	Bi-N B3B246	ES	24070179	●
20	30	18,5	3		C closed	Bi-F B3K674	ESV	24139067	○
20	32	22,5	3		C closed	Bi-F B3K674	ESV	24139053	○
22	30	14,5	3	ISO	C closed	Bi-N B3B246	ES	24120640	○
22	32	13,5	3		C closed	Bi-N B3B246	ES	24062158	●
22	32	13,5	3		C closed	Bi-F B3K674	ESV	24144548	○
22	32	16	3	ISO	C closed	Bi-N B3B246	ES	24220044	○
22	32	16	3	ISO	C closed	Bi-F B3K674	ESV	24219986	○
22	32	18,5	3		C closed	Bi-N B3B246	ES	24070180	●
22	32	18,5	3		C closed	Bi-F B3K674	ESV	24148036	○
25	33	14,5	3	ISO	C closed	Bi-N B3B246	ES	24120641	○
25	35	16	3	ISO	C closed	Bi-N B3B246	ES	24220045	○
25	35	16	3	ISO	C closed	Bi-F B3K674	ESV	24219988	○
25	37	16,5	3		C closed	Bi-N B3B246	ES	24062166	○
25	37	16,5	3		C closed	Bi-F B3K674	ESV	24219989	○
25	37	22,5	3		C closed	Bi-N B3B246	ES	24070181	●
25	37	22,5	3		C closed	Bi-F B3K674	ESV	24148037	○
28	38	16	3	ISO	C closed	Bi-N B3B246	ES	24120642	○
28	38	16	3	ISO	C closed	Bi-F B3K674	ESV	24219990	○
28	40	16,5	3		C closed	Bi-N B3B246	ES	24062159	●
28	40	16,5	3		C closed	Bi-F B3K674	ESV	24144546	○
28	40	22,5	3		C closed	Bi-N B3B246	ES	24070182	●
28	40	22,5	3		C closed	Bi-F B3K674	ESV	24139068	●
28	43	25	5	ISO	C closed	Bi-N B3B246	ES	24220046	○
28	43	25	5	ISO	C closed	Bi-F B3K674	ESV	24219991	○
30	42	16,5	3		C closed	Bi-N B3B246	ES	24220047	○
30	42	16,5	3		C closed	Bi-F B3K674	ESV	24219992	○
30	42	22,5	3		C closed	Bi-N B3B246	ES	24070183	●
30	42	22,5	3		C closed	Bi-F B3K674	ESV	24139069	○
32	42	16	3	ISO	C closed	Bi-N B3B246	ES	24120643	○

● Available from stock ○ On request: Tool is available, delivery at short notice

d	D	L	C	Housing	Type	Material	Type	Article No.	
32	42	16	3	ISO	C closed	Bi-F B3K674	ESV	24219993	○
32	44	16,5	3		C closed	Bi-N B3B246	ES	24078187	○
32	44	16,5	3		C closed	Bi-F B3K674	ESV	24191167	○
32	44	22,5	3		C closed	Bi-N B3B246	ES	24070184	●
32	44	22,5	3		C closed	Bi-F B3K674	ESV	24139070	○
32	47	25	5	ISO	C closed	Bi-N B3B246	ES	24327287	○
32	47	25	5	ISO	C closed	Bi-F B3K674	ESV	24219994	○
35	47	16,5	3		C closed	Bi-N B3B246	ES	24062171	○
35	47	16,5	3		C closed	Bi-F B3K674	ESV	24219995	○
35	47	22,5	3		C closed	Bi-N B3B246	ES	24070185	●
35	47	22,5	3		C closed	Bi-F B3K674	ESV	24139071	○
36	46	16	3	ISO	C closed	Bi-N B3B246	ES	24120644	○
36	46	16	3	ISO	C closed	Bi-F B3K674	ESV	24219996	○
36	46	22,5	3		C closed	Bi-F B3K674	ESV	527783	○
36	48	16,5	3		C closed	Bi-N B3B246	ES	24084373	●
36	48	16,5	3		C closed	Bi-F B3K674	ESV	24149112	○
36	48	22,5	3		C closed	Bi-N B3B246	ES	24070186	●
36	48	22,5	3		C closed	Bi-F B3K674	ESV	24138994	●
36	51	25	5	ISO	C closed	Bi-N B3B246	ES	24327286	●
36	51	25	5	ISO	C closed	Bi-F B3K674	ESV	24219997	○
40	50	16	3	ISO	C closed	Bi-N B3B246	ES	24120645	●
40	50	16	3	ISO	C closed	Bi-F B3K674	ESV	24219998	○
40	52	16,5	3		C closed	Bi-N B3B246	ES	24062173	●
40	52	16,5	3		C closed	Bi-F B3K674	ESV	24175597	○
40	52	22,5	3		C closed	Bi-N B3B246	ES	24070187	●
40	52	22,5	3		C closed	Bi-F B3K674	ESV	24139072	○
40	55	25	5	ISO	C closed	Bi-N B3B246	ES	24220050	●
40	55	25	5	ISO	C closed	Bi-F B3K674	ESV	24219999	○
45	55	16	3	ISO	C closed	Bi-N B3B246	ES	24120646	●
45	55	16	3	ISO	C closed	Bi-F B3K674	ESV	24220000	○
45	60	16,5	5		C closed	Bi-N B3B246	ES	24062175	●
45	60	16,5	5		C closed	Bi-F B3K674	ESV	24149108	○
45	60	22,5	5		C closed	Bi-N B3B246	ES	24070189	●
45	60	22,5	5		C closed	Bi-F B3K674	ESV	24138993	●
45	60	25	5	ISO	C closed	Bi-N B3B246	ES	24327285	●
45	60	25	5	ISO	C closed	Bi-F B3K674	ESV	24220001	○
50	60	16	3	ISO	C closed	Bi-N B3B246	ES	24120647	○
50	60	16	3	ISO	C closed	Bi-F B3K674	ESV	24220002	○
50	65	16,5	5		C closed	Bi-N B3B246	ES	24062178	●
50	65	16,5	5		C closed	Bi-F B3K674	ESV	24186958	○
50	65	22,5	5		C closed	Bi-N B3B246	ES	24070190	●
50	65	22,5	5		C closed	Bi-F B3K674	ESV	24139074	●
50	65	25	5	ISO	C closed	Bi-N B3B246	ES	24327284	●
50	65	25	5	ISO	C closed	Bi-F B3K674	ESV	24220003	○
55	70	16,5	5		C closed	Bi-N B3B246	ES	24063126	●
55	70	16,5	5		C closed	Bi-F B3K674	ESV	24194608	○
55	70	22,5	5		C closed	Bi-N B3B246	ES	24070191	●
55	70	22,5	5		C closed	Bi-F B3K674	ESV	24129136	○
55	75	30	5		C closed	Bi-F B4K674	ESV	24139318	○
56	71	16,5	5		C closed	Bi-N B3B246	ES	24112157	●

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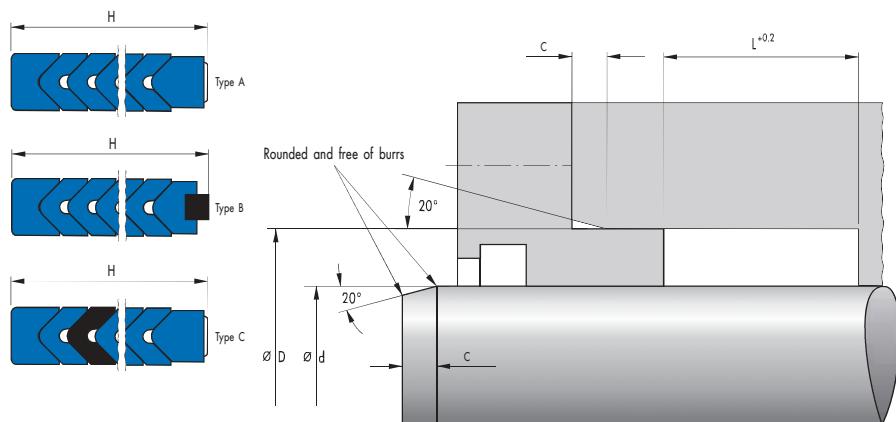


d	D	L	C	Housing	Type	Material	Type	Article No.	
56	71	16,5	5		C closed	Bi-F B3K674	ESV	24149111	●
56	71	22,5	5		C closed	Bi-N B3B246	ES	24070192	●
56	71	22,5	5		C closed	Bi-F B3K674	ESV	24139076	●
56	71	25	5	ISO	C closed	Bi-N B3B246	ES	24327283	○
56	71	25	5	ISO	C closed	Bi-F B3K674	ESV	24220004	○
56	76	32	5	ISO	C closed	Bi-N B4B246	ES	24220054	○
56	76	32	5	ISO	C closed	Bi-F B4K674	ESV	24220005	○
56	76	37	5		C closed	Bi-F B4K674	ESV	24139131	○
60	75	16,5	5		C closed	Bi-N B3B246	ES	24062181	●
60	75	16,5	5		C closed	Bi-F B3K674	ESV	24194385	○
60	75	22,5	5		C closed	Bi-N B3B246	ES	24070193	●
60	75	22,5	5		C closed	Bi-F B3K674	ESV	24148038	●
60	80	37	5		C closed	Bi-F B4K674	ESV	24103349	○
63	78	16,5	5		C closed	Bi-N B3B246	ES	24114075	○
63	78	16,5	5		C closed	Bi-F B4K674	ESV	24220006	○
63	78	22,5	5		C closed	Bi-N B3B246	ES	24070194	●
63	78	22,5	5		C closed	Bi-F B4K674	ESV	24148039	○
63	78	25	5	ISO	C closed	Bi-N B3B246	ES	24327282	○
63	78	25	5	ISO	C closed	Bi-F B4K674	ESV	24220007	○
63	83	32	5	ISO	C closed	Bi-N B4B246	ES	24220056	○
63	83	32	5	ISO	C closed	Bi-F B4K674	ESV	24220008	○
65	80	16,5	5		C closed	Bi-N B3B246	ES	24062183	○
65	80	16,5	5		C closed	Bi-F B3K674	ESV	24220009	○
65	80	22,5	5		C closed	Bi-N B3B246	ES	24070195	●
65	80	22,5	5		C closed	Bi-F B3K674	ESV	24139077	○
70	85	16,5	5		C closed	Bi-N B3B246	ES	24062188	●
70	85	16,5	5		C closed	Bi-F B3K674	ESV	24144001	○
70	85	22,5	5		C closed	Bi-N B3B246	ES	24070196	●
70	85	22,5	5		C closed	Bi-F B3K674	ESV	24138992	●
70	85	25	5	ISO	C closed	Bi-N B3B246	ES	24327280	●
70	85	25	5	ISO	C closed	Bi-F B3K674	ESV	24220010	○
70	90	32	5	ISO	C closed	Bi-N B4B246	ES	24220058	○
70	90	32	5	ISO	C closed	Bi-F B4K674	ESV	24220011	○
70	90	40	5		C closed	Bi-F B4K674	ESV	24104730	○
75	90	16,5	5		C closed	Bi-N B3B246	ES	24061639	○
75	90	16,5	5		C closed	Bi-F B3K674	ESV	24220012	○
75	90	22,5	5		C closed	Bi-N B3B246	ES	24070197	●

● Available from stock ○ On request: Tool is available, delivery at short notice

d	D	L	C	Housing	Type	Material	Type	Article No.	
75	90	22,5	5		C closed	Bi-F B3K674	ESV	24148040	○
80	95	16,5	5		C closed	Bi-N B3B246	ES	24062194	●
80	95	16,5	5		C closed	Bi-F B3K674	ESV	24149110	○
80	95	22,5	5		C closed	Bi-N B3B246	ES	24070198	●
80	95	22,5	5		C closed	Bi-F B3K674	ESV	24139078	○
80	95	25	5	ISO	C closed	Bi-N B3B246	ES	24060905	○
80	95	25	5	ISO	C closed	Bi-F B3K674	ESV	24220013	○
80	100	32	5	ISO	C closed	Bi-N B4B246	ES	24220060	●
80	100	32	5	ISO	C closed	Bi-F B4K674	ESV	24220014	○
80	100	40	5		C closed	Bi-F B4K674	ESV	24104763	○
85	100	16,5	5		C closed	Bi-N B3B246	ES	24078907	○
85	100	16,5	5		C closed	Bi-F B3K674	ESV	24194607	○
85	100	22,5	5		C closed	Bi-N B3B246	ES	24070199	●
85	100	22,5	5		C closed	Bi-F B3K674	ESV	24106403	○
90	105	22,5	5		C closed	Bi-F B3K674	ESV	24138991	○
90	105	25	5	ISO	C closed	Bi-F B3K674	ESV	24220015	○
90	110	30	5		C closed	Bi-N B4B246	ES	24062197	●
90	110	30	5		C closed	Bi-F B4K674	ESV	24194606	○
90	110	32	5	ISO	C closed	Bi-N B4B246	ES	24220061	●
90	110	32	5	ISO	C closed	Bi-F B4K674	ESV	24220016	○
90	110	40	5		C closed	Bi-N B4B246	ES	24070231	●
90	110	40	5		C closed	Bi-F B4K674	ESV	24119600	●
100	115	30	5		C closed	Bi-F B3K674	ESV	24099496	○
100	120	30	5		C closed	Bi-N B4B246	ES	24062201	●
100	120	30	5		C closed	Bi-F B4K674	ESV	24220017	○
100	120	32	5	ISO	C closed	Bi-N B4B246	ES	24126541	●
100	120	32	5	ISO	C closed	Bi-F B4K674	ESV	24220018	○
100	120	39	5		C closed	Bi-N B4B246	ES	24132386	○
100	120	40	5		C closed	Bi-F B4K674	ESV	24104764	●
100	125	40	7,5	ISO	C closed	Bi-N B4B246	ES	24220062	●
100	125	40	7,5	ISO	C closed	Bi-F B4K674	ESV	24220019	○
110	125	30	5		C closed	Bi-F B3K674	ESV	24099500	○
110	130	30	5		C closed	Bi-N B4B246	ES	24062205	●
110	130	30	5		C closed	Bi-F B4K674	ESV	24220020	○
110	130	32	5	ISO	C closed	Bi-N B4B246	ES	24220063	●
110	130	32	5	ISO	C closed	Bi-F B4K674	ESV	24220021	○
110	130	40	5		C closed	Bi-N B4B246	ES	24070233	●
110	130	40	5		C closed	Bi-F B4K674	ESV	24107792	●
110	135	40	7,5	ISO	C closed	Bi-N B4B246	ES	24220064	○
110	135	40	7,5	ISO	C closed	Bi-F B4K674	ESV	24220022	○
115	140	34	7,5		C closed	Bi-N B4B246	ES	24081735	○
115	140	34	7,5		C closed	Bi-F B4K674	ESV	24220023	○
115	140	46	7,5		C closed	Bi-N B4B246	ES	24070234	●
115	140	46	7,5		C closed	Bi-F B4K674	ESV	24119599	○
125	140	34	7,5		C closed	Bi-F B3K674	ESV	24139062	○
125	145	32	5	ISO	C closed	Bi-N B4B246	ES	24220065	●
125	145	32	5	ISO	C closed	Bi-F B4K674	ESV	24220024	○
125	150	34	7,5		C closed	Bi-N B4B246	ES	24062207	●
125	150	34	7,5		C closed	Bi-F B4K674	ESV	24220025	○
125	150	40	7,5	ISO	C closed	Bi-N B4B246	ES	24220066	●

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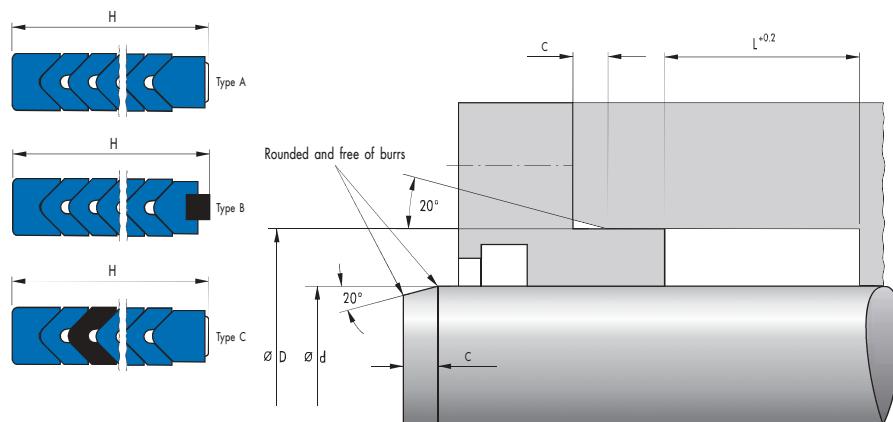


d	D	L	C	Housing	Type	Material	Type	Article No.	
125	150	40	7,5	ISO	C closed	BI-F B4K674	ESV	24220026	○
125	150	46	7,5		C closed	BI-N B4B246	ES	24070235	●
125	150	46	7,5		C closed	BI-F B4K674	ESV	24139162	○
140	155	34	7,5		C closed	BI-F B3K674	ESV	24139063	○
140	160	32	5	ISO	C closed	BI-N B4B246	ES	24194357	●
140	160	32	5	ISO	C closed	BI-F B4K674	ESV	24220027	○
140	165	34	7,5		C closed	BI-N B4B246	ES	24220067	○
140	165	34	7,5		C closed	BI-F B4K674	ESV	24220028	○
140	165	40	7,5	ISO	C closed	BI-N B4B246	ES	24220068	●
140	165	40	7,5	ISO	C closed	BI-F B4K674	ESV	24220029	○
140	165	46	7,5		C closed	BI-N B4B246	ES	24070236	●
140	165	46	7,5		C closed	BI-F B4K674	ESV	24139305	○
150	180	45	7,5		A closed	BI-N B4B246	ES	24061736	●
150	180	45	7,5		A closed	BI-F B4K674	ESV	24220030	○
150	180	60	7,5		A closed	BI-N B4B246	ES	24070237	●
150	180	60	7,5		A open	BI-N B4B246	ES	24170282	○
150	180	60	7,5		A closed	BI-F B4K674	ESV	24148030	○
160	180	40	7,5		A closed	BI-F B4K674	ESV	24139064	○
160	185	40	7,5	ISO	A closed	BI-N B4B246	ES	24220069	○
160	185	40	7,5	ISO	A closed	BI-F B4K674	ESV	24220031	○
160	190	45	7,5		A closed	BI-N B4B246	ES	24061737	○
160	190	45	7,5		A closed	BI-F B4K674	ESV	24220032	○
160	190	50	7,5	ISO	A closed	BI-F B4K674	ESV	24220033	○
160	190	60	7,5		A closed	BI-N B4B246	ES	24070238	●
160	190	60	7,5		A open	BI-N B4B246	ES	24087331	○
160	190	60	7,5		A closed	BI-F B4K674	ESV	24107183	●
180	200	40	7,5		A closed	BI-F B4K674	ESV	24143887	○
180	205	40	7,5	ISO	A closed	BI-N B4B246	ES	24220071	●
180	205	40	7,5	ISO	A closed	BI-F B4K674	ESV	24220034	○
180	210	45	7,5		A closed	BI-N B4B246	ES	24061739	●
180	210	45	7,5		A closed	BI-F B4K674	ESV	24149739	○
180	210	50	7,5	ISO	A closed	BI-N B4B246	ES	24131959	●
180	210	50	7,5	ISO	A closed	BI-F B4K674	ESV	24220035	○
180	210	60	7,5		A closed	BI-N B4B246	ES	24070239	●
180	210	60	7,5		A closed	BI-F B4K674	ESV	24139298	●
190	220	60,5	7,5		A closed	BI-F B4K674	ESV	533505	○
200	225	40	7,5	ISO	A closed	BI-N B4B246	ES	24220072	●

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d	D	L	C	Housing	Type	Material	Type	Article No.	
200	230	45	7,5		A closed	Bi-N B4B246	ES	24064261	●
200	230	45	7,5		A closed	Bi-F B4K674	ESV	24173014	○
200	230	50	7,5	ISO	A closed	Bi-N B4B246	ES	24076302	●
200	230	50	7,5	ISO	A closed	Bi-F B4K674	ESV	24220037	○
200	230	50,5	7,5		A open	Bi-N B4B246	ES	24218873	○
200	230	50,5	7,5		A closed	Bi-N B4B246	ES	24219156	○
200	230	51,5	7,5	ISO	B open	Bi-N B4B246	ES	24145843	○
200	230	52	7,5		B closed	Bi-N B4B246	ES	24218713	○
200	230	60	7,5		A closed	Bi-N B4B246	ES	24070240	●
200	230	60	7,5		B open	Bi-N B4B246	ES	24079136	○
200	230	60	7,5		A open	Bi-N B4B246	ES	24135050	○
200	230	60	7,5		A closed	Bi-F B4K674	ESV	24107185	●
200	230	61,5	7,5		B closed	Bi-N B4B246	ES	24146349	○
220	250	50	7,5	ISO	A closed	Bi-N B4B246	ES	24061745	●
220	250	50,5	7,5		A open	Bi-N B4B246	ES	24114136	○
220	250	50,5	7,5		A closed	Bi-N B4B246	ES	24219165	○
220	250	52	7,5		B open	Bi-N B4B246	ES	24218512	○
220	250	52	7,5		B closed	Bi-N B4B246	ES	24218722	○
220	250	60	7,5		A closed	Bi-N B4B246	ES	24063737	●
220	250	60	7,5		A open	Bi-N B4B246	ES	24218891	○
220	250	61,5	7,5		B closed	Bi-N B4B246	ES	24100511	○
220	250	61,5	7,5		B open	Bi-N B4B246	ES	24114159	○
225	255	50,5	7,5		A closed	Bi-N B4B246	ES	24100216	○
225	255	50,5	7,5		A open	Bi-N B4B246	ES	24218892	○
225	255	60	7,5		A closed	Bi-N B4B246	ES	24067706	○
225	255	60	7,5		A open	Bi-N B4B246	ES	24218895	○
225	255	61,5	7,5		B closed	Bi-N B4B246	ES	24064015	○
225	255	61,5	7,5		B open	Bi-N B4B246	ES	24218517	○
240	270	50,5	7,5		A open	Bi-N B4B246	ES	24218903	○
240	270	50,5	7,5		A closed	Bi-N B4B246	ES	24219174	○
240	270	52	7,5		B open	Bi-N B4B246	ES	24218522	○
240	270	52	7,5		B closed	Bi-N B4B246	ES	24218734	○
240	270	60	7,5		A closed	Bi-N B4B246	ES	24061635	○
240	270	60	7,5		A open	Bi-N B4B246	ES	24177276	○
240	270	61,5	7,5		B closed	Bi-N B4B246	ES	24083267	○
240	270	61,5	7,5		B open	Bi-N B4B246	ES	24083524	○
250	280	50,5	7,5		A closed	Bi-N B4B246	ES	24100419	○
250	280	50,5	7,5		A open	Bi-N B4B246	ES	24218910	●
250	280	52	7,5		B open	Bi-N B4B246	ES	24218527	○
250	280	52	7,5		B closed	Bi-N B4B246	ES	24218737	○
250	280	60	7,5		A closed	Bi-N B4B246	ES	24061638	●
250	280	60	7,5		A open	Bi-N B4B246	ES	24218913	○
250	280	61,5	7,5		B closed	Bi-N B4B246	ES	24104086	○
250	280	61,5	7,5		B open	Bi-N B4B246	ES	24218529	○
260	290	50,5	7,5		A closed	Bi-N B4B246	ES	24067374	○
260	290	50,5	7,5		A open	Bi-N B4B246	ES	24218917	○
260	290	52	7,5		B open	Bi-N B4B246	ES	24218534	○
260	290	52	7,5		B closed	Bi-N B4B246	ES	24218739	○
260	290	60	7,5		A open	Bi-N B4B246	ES	24218920	○
260	290	60	7,5		A closed	Bi-N B4B246	ES	24219178	○

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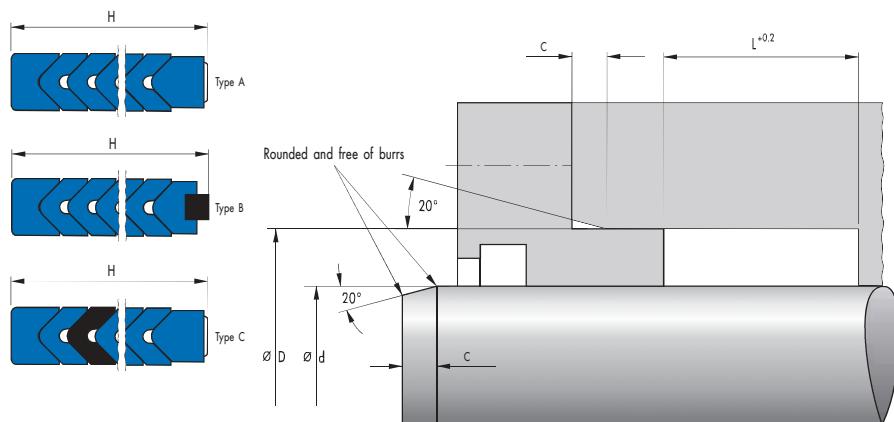


d	D	L	C	Housing	Type	Material	Type	Article No.	
260	290	61,5	7,5		B closed	Bi-N B4B246	ES	24101540	○
260	290	61,5	7,5		B open	Bi-N B4B246	ES	24218537	○
280	310	50,5	7,5		A closed	Bi-N B4B246	ES	24219179	○
280	310	60	7,5		A closed	Bi-N B4B246	ES	24066929	●
280	310	60	7,5		A open	Bi-N B4B246	ES	24218933	○
280	310	61,5	7,5		B closed	Bi-N B4B246	ES	24064013	○
280	310	61,5	7,5		B open	Bi-N B4B246	ES	24071155	○
280	320	80	10		A closed	Bi-N B4B246	ES	24072791	●
280	320	80	10		A open	Bi-N B4B246	ES	24114214	○
280	320	81,5	10		B closed	Bi-N B4B246	ES	24113699	○
280	320	81,5	10		B open	Bi-N B4B246	ES	24121893	○
300	330	50,5	7,5		A open	Bi-N B4B246	ES	24218941	○
300	330	52	7,5		B open	Bi-N B4B246	ES	24121478	○
300	330	58	7,5		A closed	Bi-N B4B246	ES	24074670	●
300	330	60	7,5		A open	Bi-N B4B246	ES	24218944	○
300	330	61,5	7,5		B open	Bi-N B4B246	ES	24071159	○
300	340	80	10		A closed	Bi-N B4B246	ES	24073340	○
300	340	80	10		A open	Bi-N B4B246	ES	24078123	○
300	340	81,5	10		B closed	Bi-N B4B246	ES	24066737	○
300	340	81,5	10		B open	Bi-N B4B246	ES	24114599	○
320	350	50,5	7,5		A open	Bi-N B4B246	ES	24218956	○
320	350	52	7,5		B open	Bi-N B4B246	ES	24218559	○
320	350	60	7,5		A open	Bi-N B4B246	ES	24218959	○
320	350	61,5	7,5		B open	Bi-N B4B246	ES	24071163	○
320	360	64,5	10	ISO	B open	Bi-N B4B246	ES	24145831	○
320	360	80	10		A closed	Bi-N B4B246	ES	24066450	○
320	360	80	10		A open	Bi-N B4B246	ES	24218961	○
320	360	81,5	10		B closed	Bi-N B4B246	ES	24084628	○
320	360	81,5	10		B open	Bi-N B4B246	ES	24111755	○
340	370	50,5	7,5		A open	Bi-N B4B246	ES	24099882	○
340	370	52	7,5		B open	Bi-N B4B246	ES	24218566	○
340	370	58	7,5		A open	Bi-N B4B246	ES	24081906	○
340	370	60	7,5		A open	Bi-N B4B246	ES	24218968	○
340	380	80	10		A closed	Bi-N B4B246	ES	24063605	○
340	380	80	10		A open	Bi-N B4B246	ES	24218969	○
340	380	81,5	10		B closed	Bi-N B4B246	ES	24069050	○
340	380	81,5	10		B open	Bi-N B4B246	ES	24148207	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
360	390	50,5	7,5		A open	Bi-N B4B210	ES	24218979	○
360	390	50,5	7,5		A closed	Bi-N B4B246	ES	24087305	○
360	390	52	7,5		B open	Bi-N B4B210	ES	24218577	○
360	390	58	7,5		A closed	Bi-N B4B246	ES	24097554	○
360	390	60	7,5		A open	Bi-N B4B210	ES	24218982	○
360	390	60	7,5		A closed	Bi-N B4B246	ES	24219196	○
360	390	61,5	7,5		B open	Bi-N B4B210	ES	24073530	○
360	390	61,5	7,5		B closed	Bi-N B4B246	ES	24218775	○
360	400	64,5	10	ISO	B open	Bi-N B4B246	ES	24145834	○
360	400	80	10		A closed	Bi-N B4B246	ES	24061644	○
360	400	80	10		A open	Bi-N B4B246	ES	24084039	○
360	400	81,5	10		B closed	Bi-N B4B246	ES	24068143	○
360	400	81,5	10		B open	Bi-N B4B246	ES	24123407	○
370	400	50,5	7,5		A open	Bi-N B4B210	ES	24218984	○
370	400	52	7,5		B open	Bi-N B4B210	ES	24218580	○
370	400	60	7,5		A open	Bi-N B4B210	ES	24218987	○
370	400	61,5	7,5		B open	Bi-N B4B210	ES	24107401	○
370	410	80	10		A closed	Bi-N B4B246	ES	24099626	○
370	410	80	10		A open	Bi-N B4B246	ES	24218989	○
370	410	81,5	10		B open	Bi-N B4B246	ES	24097789	○
370	410	81,5	10		B closed	Bi-N B4B246	ES	24194332	○
380	410	50,5	7,5		A open	Bi-N B4B210	ES	24218990	○
380	410	60	7,5		A open	Bi-N B4B210	ES	24218993	○
380	410	61,5	7,5		B open	Bi-N B4B210	ES	24213225	○
380	420	80	10		A closed	Bi-N B4B246	ES	24069067	○
380	420	81,5	10		B closed	Bi-N B4B246	ES	24069165	○
390	420	50,5	7,5		A open	Bi-N B4B210	ES	24218996	○
390	420	52	7,5		B open	Bi-N B4B210	ES	24218588	○
390	420	60	7,5		A open	Bi-N B4B210	ES	24187142	○
390	420	61,5	7,5		B open	Bi-N B4B210	ES	24126556	○
390	430	80	10		A open	Bi-N B4B210	ES	24145527	○
390	430	81,5	10		B open	Bi-N B4B210	ES	24100035	○
400	430	50,5	7,5		A open	Bi-N B4B210	ES	24219000	○
400	430	50,5	7,5		A closed	Bi-N B4B210	ES	24219197	○
400	430	52,5	7,5		A open	Bi-N B4B210	ES	24198468	○
400	430	52,5	7,5		A closed	Bi-N B4B210	ES	24219198	○
400	430	60	7,5		A open	Bi-N B4B210	ES	24087212	○
400	430	60	7,5		A closed	Bi-N B4B210	ES	24219200	○
400	430	61,5	7,5		B open	Bi-N B4B210	ES	24071209	○
400	430	61,5	7,5		B closed	Bi-N B4B210	ES	24087903	○
400	440	70	10		A open	Bi-N B4B210	ES	24219002	○
400	440	70	10		A closed	Bi-N B4B210	ES	24219201	○
400	440	79	10		A closed	Bi-N B4B210	ES	24219202	○
400	440	80	10		A closed	Bi-N B4B210	ES	24071557	○
400	440	80	10		A open	Bi-N B4B210	ES	24219004	○
400	440	81,5	10		B closed	Bi-N B4B210	ES	24086147	○
400	440	81,5	10		B open	Bi-N B4B210	ES	24113319	○
400	440	89	10		A closed	Bi-N B4B210	ES	24219203	○
400	440	90,5	10		B open	Bi-N B4B210	ES	24218593	○
410	440	52,5	7,5		A open	Bi-N B4B210	ES	24219006	○

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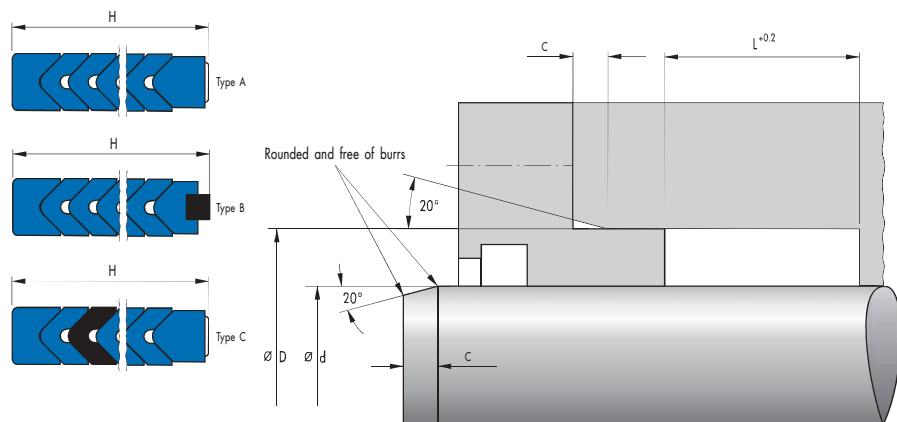


d	D	L	C	Housing	Type	Material	Type	Article No.	
410	440	54	7,5		B open	Bi-N B4B210	ES	24218594	○
410	440	60	7,5		A open	Bi-N B4B210	ES	24219007	○
410	440	61,5	7,5		B open	Bi-N B4B210	ES	24116167	○
410	445	60	10		A closed	Bi-N B4B210	ES	24114451	○
410	450	70	10		A closed	Bi-N B4B210	ES	24108466	○
410	450	70	10		A open	Bi-N B4B210	ES	24219008	○
410	450	71,5	10		B closed	Bi-N B4B210	ES	24140331	○
410	450	71,5	10		B open	Bi-N B4B210	ES	24218595	○
410	450	79	10		A open	Bi-N B4B210	ES	24219009	○
410	450	79	10		A closed	Bi-N B4B210	ES	24219204	○
410	450	80	10		A closed	Bi-N B4B210	ES	24196025	○
410	450	80	10		A open	Bi-N B4B210	ES	24219010	○
410	450	80,5	10		B open	Bi-N B4B210	ES	24218596	○
410	450	80,5	10		B closed	Bi-N B4B210	ES	24218780	○
410	450	81,5	10		B open	Bi-N B4B210	ES	24136066	○
410	450	81,5	10		B closed	Bi-N B4B210	ES	24218781	○
410	450	81,5	10		B closed	Bi-N B4B210	ES	24218782	○
410	450	89	10		A open	Bi-N B4B210	ES	24219011	○
410	450	89	10		A closed	Bi-N B4B210	ES	24219205	○
410	450	90,5	10		B open	Bi-N B4B210	ES	24218597	○
415	455	61,5	10		B open	Bi-N B4B210	ES	24267389	○
415	455	81,5	10		B open	Bi-N B4B210	ES	24128991	○
420	450	52,5	7,5		A open	Bi-N B4B210	ES	24219012	○
420	450	54	7,5		B open	Bi-N B4B210	ES	24218598	○
420	450	60	7,5		A open	Bi-N B4B210	ES	24219013	○
420	450	61,5	7,5		B open	Bi-N B4B210	ES	24071213	○
420	460	60	10		A closed	Bi-N B4B210	ES	24098516	○
420	460	60	10		A open	Bi-N B4B210	ES	24289410	○
420	460	70	10		A closed	Bi-N B4B210	ES	24109496	○
420	460	70	10		A open	Bi-N B4B210	ES	24134937	○
420	460	71,5	10		B open	Bi-N B4B210	ES	24069492	○
420	460	71,5	10		B closed	Bi-N B4B210	ES	24074765	○
420	460	79	10		A open	Bi-N B4B210	ES	24219014	○
420	460	79	10		A closed	Bi-N B4B210	ES	24219206	○
420	460	80	10		A closed	Bi-N B4B210	ES	24077332	○
420	460	80	10		A open	Bi-N B4B210	ES	24219015	○
420	460	80,5	10		B open	Bi-N B4B210	ES	24218599	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
420	460	80,5	10		B closed	Bi-N B4B210	ES	24218783	○
420	460	81,5	10		B open	Bi-N B4B210	ES	24129597	○
420	460	81,5	10		B closed	Bi-N B4B210	ES	24218784	○
420	460	81,5	10		B closed	Bi-N B4B210	ES	24218785	○
420	460	89	10		A open	Bi-N B4B210	ES	24219016	○
420	460	89	10		A closed	Bi-N B4B210	ES	24219207	○
420	460	90,5	10		B open	Bi-N B4B210	ES	24218600	○
425	465	70	10		A open	Bi-N B4B210	ES	24090496	○
425	465	71,5	10		B open	Bi-N B4B210	ES	24121155	○
425	465	81,5	10		B open	Bi-N B4B210	ES	24083265	○
430	460	52,5	7,5		A open	Bi-N B4B210	ES	24219017	○
430	460	54	7,5		B open	Bi-N B4B210	ES	24218601	○
430	460	60	7,5		A open	Bi-N B4B210	ES	24219018	○
430	460	61,5	7,5		B open	Bi-N B4B210	ES	24218602	○
430	470	60	10		A open	Bi-N B4B210	ES	24298359	○
430	470	61,5	10		B open	Bi-N B4B210	ES	24082970	○
430	470	70	10		A open	Bi-N B4B210	ES	24219019	○
430	470	71,5	10		B open	Bi-N B4B210	ES	24177234	○
430	470	79	10		A open	Bi-N B4B210	ES	24219020	○
430	470	80	10		A open	Bi-N B4B210	ES	24219021	○
430	470	80,5	10		B open	Bi-N B4B210	ES	24218603	○
430	470	81,5	10		B open	Bi-N B4B210	ES	24097838	○
430	470	89	10		A open	Bi-N B4B210	ES	24219022	○
430	470	90,5	10		B open	Bi-N B4B210	ES	24218604	○
440	470	52,5	7,5		A open	Bi-N B4B210	ES	24219023	○
440	470	54	7,5		B open	Bi-N B4B210	ES	24218605	○
440	470	60	7,5		A open	Bi-N B4B210	ES	24219024	○
440	470	61,5	7,5		B open	Bi-N B4B210	ES	24218606	○
440	480	60	10		A closed	Bi-N B4B210	ES	24072171	○
440	480	61,5	10		B closed	Bi-N B4B210	ES	24148125	○
440	480	70	10		A closed	Bi-N B4B210	ES	24099123	○
440	480	70	10		A open	Bi-N B4B210	ES	24219025	○
440	480	71,5	10		B closed	Bi-N B4B210	ES	24137057	○
440	480	71,5	10		B open	Bi-N B4B210	ES	24218607	○
440	480	79	10		A open	Bi-N B4B210	ES	24219026	○
440	480	79	10		A closed	Bi-N B4B210	ES	24219208	○
440	480	80	10		A closed	Bi-N B4B210	ES	24073676	○
440	480	80	10		A open	Bi-N B4B210	ES	24219027	○
440	480	80,5	10		B open	Bi-N B4B210	ES	24218608	○
440	480	80,5	10		B closed	Bi-N B4B210	ES	24218786	○
440	480	81,5	10		B open	Bi-N B4B210	ES	24104141	○
440	480	81,5	10		B closed	Bi-N B4B210	ES	24218787	○
440	480	89	10		A open	Bi-N B4B210	ES	24219028	○
440	480	89	10		A closed	Bi-N B4B210	ES	24219209	○
440	480	90,5	10		B open	Bi-N B4B210	ES	24218609	○
440	480	90,5	10		B closed	Bi-N B4B210	ES	24218788	○
450	480	52,5	7,5		A open	Bi-N B4B210	ES	24219029	○
450	480	54	7,5		B open	Bi-N B4B210	ES	24218610	○
450	480	60	7,5		A open	Bi-N B4B210	ES	24219030	○
450	480	60	10		A closed	Bi-F B4K674	ESV	49008946	○

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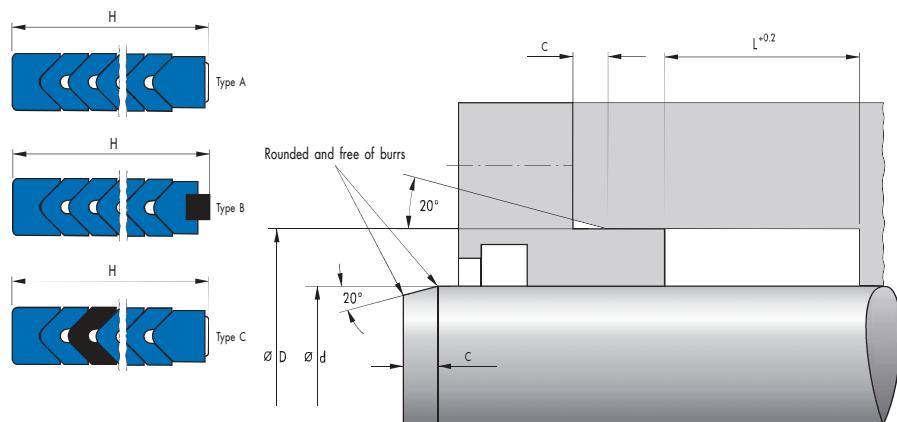


d	D	L	C	Housing	Type	Material	Type	Article No.	
450	480	61,5	7,5		B open	Bi-N B4B210	ES	24218611	○
450	490	60	10		A closed	Bi-N B4B210	ES	24071968	○
450	490	60	10		A open	Bi-N B4B210	ES	24082110	○
450	490	61,5	10		B closed	Bi-N B4B210	ES	24083442	○
450	490	61,5	10		B open	Bi-N B4B210	ES	24287165	○
450	490	70	10		A open	Bi-N B4B210	ES	24072716	○
450	490	70	10		A closed	Bi-N B4B210	ES	24114458	○
450	490	71,5	10		B open	Bi-N B4B210	ES	24149535	○
450	490	71,5	10		B closed	Bi-N B4B210	ES	24218789	○
450	490	79	10		A closed	Bi-N B4B210	ES	24144269	○
450	490	79	10		A open	Bi-N B4B210	ES	24219031	○
450	490	80	10		A closed	Bi-N B4B210	ES	24066931	○
450	490	80	10		A open	Bi-N B4B210	ES	24089042	○
450	490	80,5	10		B open	Bi-N B4B210	ES	24218612	○
450	490	80,5	10		B closed	Bi-N B4B210	ES	24218790	○
450	490	81,5	10		B open	Bi-N B4B210	ES	24075890	○
450	490	81,5	10		B closed	Bi-N B4B210	ES	24087320	○
450	490	89	10		A open	Bi-N B4B210	ES	24219032	○
450	490	89	10		A closed	Bi-N B4B210	ES	24219210	○
450	490	90,5	10		B open	Bi-N B4B210	ES	24021861	○
450	490	90,5	10		B closed	Bi-N B4B210	ES	24218791	○
460	490	52,5	7,5		A open	Bi-N B4B210	ES	24219033	○
460	490	52,5	7,5		A closed	Bi-N B4B210	ES	24219211	○
460	490	54	7,5		B open	Bi-N B4B210	ES	24218614	○
460	490	54	7,5		B closed	Bi-N B4B210	ES	24218792	○
460	490	60	7,5		A open	Bi-N B4B210	ES	24219034	○
460	490	60	7,5		A closed	Bi-N B4B210	ES	24219212	○
460	490	61,5	7,5		B open	Bi-N B4B210	ES	24218615	○
460	490	61,5	7,5		B closed	Bi-N B4B210	ES	24218793	○
460	500	60	10		A closed	Bi-N B4B210	ES	24235023	○
460	500	60	10		A open	Bi-N B4B210	ES	24355016	○
460	500	70	10		A open	Bi-N B4B210	ES	24219035	○
460	500	70	10		A closed	Bi-N B4B210	ES	24219213	○
460	500	71,5	10		B open	Bi-N B4B210	ES	24135172	○
460	500	71,5	10		B closed	Bi-N B4B210	ES	24148439	○
460	500	79	10		A closed	Bi-N B4B210	ES	24138356	○
460	500	79	10		A open	Bi-N B4B210	ES	24219036	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
460	500	80	10		A open	Bi-N B4B210	ES	24219037	○
460	500	80	10		A closed	Bi-N B4B210	ES	24219214	○
460	500	80,5	10		B open	Bi-N B4B210	ES	24218616	○
460	500	80,5	10		B closed	Bi-N B4B210	ES	24218794	○
460	500	81,5	10		B closed	Bi-N B4B210	ES	24076722	○
460	500	81,5	10		B open	Bi-N B4B210	ES	24188047	○
460	500	89	10		A closed	Bi-N B4B210	ES	24079459	○
460	500	89	10		A open	Bi-N B4B210	ES	24219038	○
460	500	90,5	10		B open	Bi-N B4B210	ES	24218617	○
460	500	90,5	10		B closed	Bi-N B4B210	ES	24218795	○
470	500	52,5	7,5		A open	Bi-N B4B210	ES	24219043	○
470	500	54	7,5		B open	Bi-N B4B210	ES	24218622	○
470	500	60	7,5		A closed	Bi-N B4B210	ES	24114088	○
470	500	61,5	7,5		B open	Bi-N B4B210	ES	24218623	○
470	500	61,5	7,5		B closed	Bi-N B4B210	ES	24218799	○
470	510	60	10		A closed	Bi-N B4B210	ES	24077623	○
470	510	60	10		A open	Bi-N B4B210	ES	24328827	○
470	510	61,5	10		B closed	Bi-N B4B210	ES	24261800	○
470	510	70	10		A closed	Bi-N B4B210	ES	24086461	○
470	510	71,5	10		B open	Bi-N B4B210	ES	24218624	○
470	510	71,5	10		B closed	Bi-N B4B210	ES	24218800	○
470	510	79	10		A open	Bi-N B4B210	ES	24219046	○
470	510	79	10		A closed	Bi-N B4B210	ES	24219219	○
470	510	80	10		A closed	Bi-N B4B210	ES	24086152	○
470	510	80	10		A open	Bi-N B4B210	ES	24102327	○
470	510	80,5	10		B open	Bi-N B4B210	ES	24218625	○
470	510	80,5	10		B closed	Bi-N B4B210	ES	24218801	○
470	510	81,5	10		B closed	Bi-N B4B210	ES	24073484	○
470	510	81,5	10		B open	Bi-N B4B210	ES	24218626	○
470	510	89	10		A closed	Bi-N B4B210	ES	24219220	○
470	510	90,5	10		B open	Bi-N B4B210	ES	24218627	○
470	510	90,5	10		B closed	Bi-N B4B210	ES	24218802	○
470	520	102	12,5		B open	Bi-N B4B210	ES	24195501	○
475	505	61,5	7,5		B open	Bi-N B4B210	ES	24350425	○
475	515	61,5	10		B open	Bi-N B4B210	ES	24266457	○
475	515	71,5	10		B open	Bi-N B4B210	ES	24191587	○
475	515	81,5	10		B open	Bi-N B4B210	ES	24076698	○
480	510	52,5	7,5		A open	Bi-N B4B210	ES	24219048	○
480	510	54	7,5		B open	Bi-N B4B210	ES	24218628	○
480	510	60	7,5		A open	Bi-N B4B210	ES	24219049	○
480	510	61,5	7,5		B open	Bi-N B4B210	ES	24218629	○
480	520	60	10		A closed	Bi-N B4B210	ES	24067704	○
480	520	61,5	10		B closed	Bi-N B4B210	ES	24234854	○
480	520	70	10		A closed	Bi-N B4B210	ES	24105043	○
480	520	70	10		A open	Bi-N B4B210	ES	24219050	○
480	520	71,5	10		B open	Bi-N B4B210	ES	24088276	○
480	520	71,5	10		B closed	Bi-N B4B210	ES	24218803	○
480	520	79	10		A open	Bi-N B4B210	ES	24219051	○
480	520	79	10		A closed	Bi-N B4B210	ES	24219221	○
480	520	80	10		A closed	Bi-N B4B210	ES	24073331	○

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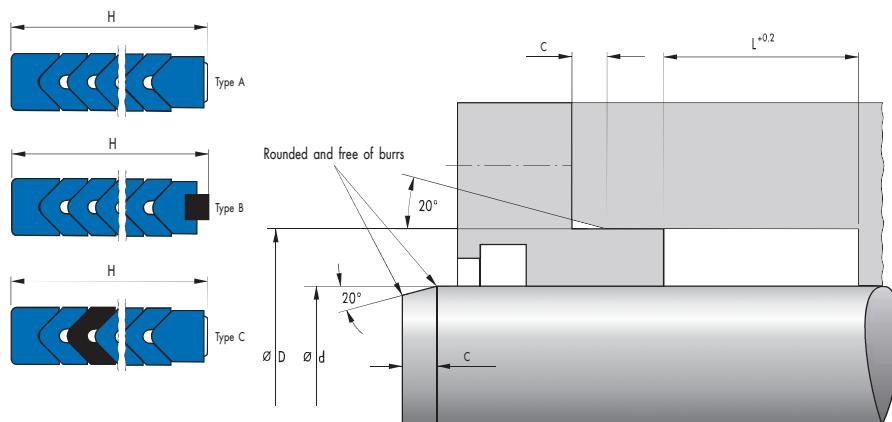


d	D	L	C	Housing	Type	Material	Type	Article No.	
480	520	80	10		A open	Bi-N B4B210	ES	24219052	○
480	520	80,5	10		B open	Bi-N B4B210	ES	24218630	○
480	520	80,5	10		B closed	Bi-N B4B210	ES	24218804	○
480	520	81,5	10		B open	Bi-N B4B210	ES	24083647	○
480	520	81,5	10		B closed	Bi-N B4B210	ES	24097319	○
480	520	89	10		A open	Bi-N B4B210	ES	24219053	○
480	520	89	10		A closed	Bi-N B4B210	ES	24219222	○
480	520	90,5	10		B open	Bi-N B4B210	ES	24218631	○
480	520	90,5	10		B closed	Bi-N B4B210	ES	24218805	○
490	520	52,5	7,5		A open	Bi-N B4B210	ES	24219054	○
490	520	54	7,5		B open	Bi-N B4B210	ES	24218632	○
490	520	60	7,5		A open	Bi-N B4B210	ES	24219055	○
490	520	61,5	7,5		B open	Bi-N B4B210	ES	24149532	○
490	530	70	10		A open	Bi-N B4B210	ES	24219056	○
490	530	71,5	10		B open	Bi-N B4B210	ES	24218633	○
490	530	71,5	10		B closed	Bi-N B4B210	ES	24218806	○
490	530	79	10		A open	Bi-N B4B210	ES	24219057	○
490	530	80	10		A open	Bi-N B4B210	ES	24219058	○
490	530	80,5	10		B open	Bi-N B4B210	ES	24218634	○
490	530	80,5	10		B closed	Bi-N B4B210	ES	24218807	○
490	530	81,5	10		B open	Bi-N B4B210	ES	24077972	○
490	530	81,5	10		B closed	Bi-N B4B210	ES	24218808	○
490	530	89	10		A open	Bi-N B4B210	ES	24219059	○
490	530	90,5	10		B open	Bi-N B4B210	ES	24218635	○
490	530	90,5	10		B closed	Bi-N B4B210	ES	24218809	○
500	530	54	7,5		B open	Bi-N B4B210	ES	24135092	○
500	540	60	10		A closed	Bi-N B4B210	ES	24073680	○
500	540	60	10		A open	Bi-N B4B210	ES	24289408	○
500	540	61,5	10		B closed	Bi-N B4B210	ES	24101974	○
500	540	70	10		A closed	Bi-N B4B210	ES	24078095	○
500	540	70	10		A open	Bi-N B4B210	ES	24219060	○
500	540	71,5	10		B open	Bi-N B4B210	ES	24071463	○
500	540	71,5	10		B closed	Bi-N B4B210	ES	24122836	○
500	540	79	10		A open	Bi-N B4B210	ES	24219061	○
500	540	79	10		A closed	Bi-N B4B210	ES	24219223	○
500	540	80	10		A open	Bi-N B4B210	ES	24069526	○
500	540	80	10		A closed	Bi-N B4B210	ES	24075177	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
500	540	80,5	10		B open	Bi-N B4B210	ES	24218636	○
500	540	80,5	10		B closed	Bi-N B4B210	ES	24232446	○
500	540	81,5	10		B closed	Bi-N B4B210	ES	24084839	○
500	540	81,5	10		B open	Bi-N B4B210	ES	24089167	○
500	540	89	10		A open	Bi-N B4B210	ES	24219062	○
500	540	89	10		A closed	Bi-N B4B210	ES	24219224	○
500	540	90,5	10		B open	Bi-N B4B210	ES	24218637	○
500	540	90,5	10		B closed	Bi-N B4B210	ES	24218810	○
500	550	100	12,5		A open	Bi-N B4B210	ES	24219064	○
500	550	102	10		B closed	Bi-N B4B210	ES	24021863	○
510	550	61,5	10		B open	Bi-N B4B210	ES	24124812	○
510	550	70	10		A open	Bi-N B4B210	ES	24111575	○
510	550	70	10		A closed	Bi-N B4B210	ES	24266458	○
510	550	71,5	10		B open	Bi-N B4B210	ES	24087359	○
510	550	81,5	10		B closed	Bi-N B4B210	ES	24287922	○
510	560	100	12,5		A closed	Bi-N B4B210	ES	24082070	○
510	560	100	12,5		A open	Bi-N B4B210	ES	24219068	○
510	560	102	12,5		B closed	Bi-N B4B210	ES	24124279	○
510	560	102	12,5		B open	Bi-N B4B210	ES	24218642	○
520	550	60	7,5		A open	Bi-N B4B210	ES	24246917	○
520	560	61,5	10		B open	Bi-N B4B210	ES	24250502	○
520	560	70	10		A open	Bi-N B4B210	ES	24219069	○
520	560	71,5	10		B open	Bi-N B4B210	ES	24098086	○
520	560	80	10		A open	Bi-N B4B210	ES	24080048	○
520	560	81,5	10		B open	Bi-N B4B210	ES	24096048	○
520	570	100	12,5		A open	Bi-N B4B210	ES	24183857	○
520	570	102	12,5		B open	Bi-N B4B210	ES	24218644	○
525	565	81,5	10		B open	Bi-N B4B210	ES	24147763	○
530	570	60	10		A closed	Bi-N B4B210	ES	24214284	○
530	570	70	10		A open	Bi-N B4B210	ES	24219071	○
530	570	70	10		A closed	Bi-N B4B210	ES	24219226	○
530	570	71,5	10		B open	Bi-N B4B210	ES	24109362	○
530	570	71,5	10		B closed	Bi-N B4B210	ES	24218812	○
530	570	80	10		A open	Bi-N B4B210	ES	24219072	○
530	570	80	10		A closed	Bi-N B4B210	ES	24219227	○
530	570	81,5	10		B open	Bi-N B4B210	ES	24071221	○
530	570	81,5	10		B closed	Bi-N B4B210	ES	24218813	○
530	580	100	12,5		A closed	Bi-N B4B210	ES	24114578	○
530	580	100	12,5		A open	Bi-N B4B210	ES	24184291	○
530	580	102	12,5		B closed	Bi-N B4B210	ES	24218815	○
535	575	60	10		A open	Bi-N B4B210	ES	24339801	○
540	580	60	10		A closed	Bi-N B4B210	ES	24145861	○
540	580	61,5	10		B open	Bi-N B4B210	ES	24250612	○
540	580	70	10		A open	Bi-N B4B210	ES	24219074	○
540	580	70	10		A closed	Bi-N B4B210	ES	24219228	○
540	580	71,5	10		B open	Bi-N B4B210	ES	24218645	○
540	580	71,5	10		B closed	Bi-N B4B210	ES	24218816	○
540	580	80	10		A open	Bi-N B4B210	ES	24075336	○
540	580	80	10		A closed	Bi-N B4B210	ES	24170936	○
540	580	81,5	10		B open	Bi-N B4B210	ES	24076138	○

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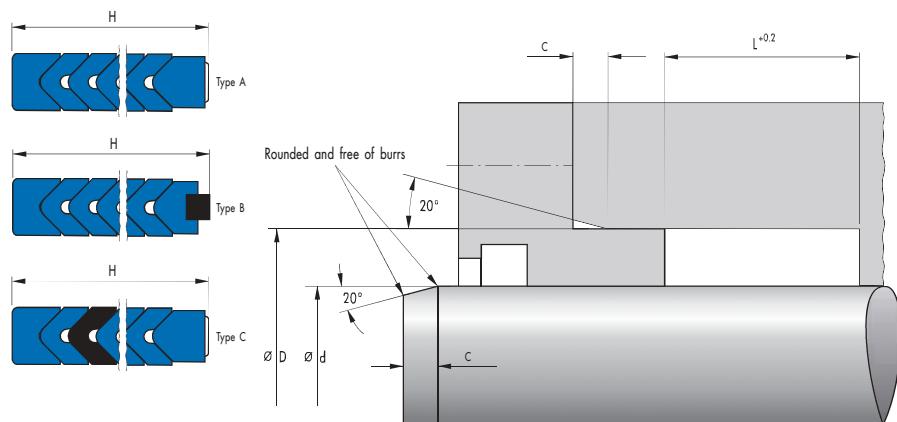


d	D	L	C	Housing	Type	Material	Type	Article No.	
540	580	81,5	10		B closed	Bi-N B4B210	ES	24218817	○
540	580	90,5	10		B closed	Bi-N B4B210	ES	24251957	○
545	585	81,5	10		B open	Bi-N B4B210	ES	24198570	○
550	590	60	10		A closed	Bi-N B4B210	ES	24067721	○
550	590	61,5	10		B closed	Bi-N B4B210	ES	24146457	○
550	590	70	10		A open	Bi-N B4B210	ES	24099983	○
550	590	70	10		A closed	Bi-N B4B210	ES	24114443	○
550	590	71,5	10		B open	Bi-N B4B210	ES	24093548	○
550	590	71,5	10		B closed	Bi-N B4B210	ES	24218818	○
550	590	80	10		A closed	Bi-N B4B210	ES	24068523	○
550	590	80	10		A open	Bi-N B4B210	ES	24076184	○
550	590	81,5	10		B open	Bi-N B4B210	ES	24092719	○
550	590	81,5	10		B closed	Bi-N B4B210	ES	24118024	○
555	595	70	10		A open	Bi-N B4B210	ES	24219077	○
555	595	70	10		A closed	Bi-N B4B210	ES	24219229	○
555	595	71,5	10		B closed	Bi-N B4B210	ES	24218819	○
555	595	80	10		A open	Bi-N B4B210	ES	24219078	○
555	595	80	10		A closed	Bi-N B4B210	ES	24219230	○
555	595	81,5	10		B open	Bi-N B4B210	ES	24218647	○
555	595	81,5	10		B closed	Bi-N B4B210	ES	24218820	○
560	600	60	10		A closed	Bi-N B4B210	ES	24067725	○
560	600	61,5	10		B closed	Bi-N B4B210	ES	24146345	○
560	600	70	10		A closed	Bi-N B4B210	ES	24079662	○
560	600	70	10		A open	Bi-N B4B210	ES	24219079	○
560	600	71,5	10		B open	Bi-N B4B210	ES	24079390	○
560	600	71,5	10		B closed	Bi-N B4B210	ES	24218821	○
560	600	80	10		A closed	Bi-N B4B210	ES	24066933	○
560	600	80	10		A open	Bi-N B4B210	ES	24219080	○
560	600	81,5	10		B closed	Bi-N B4B210	ES	24064031	○
560	600	81,5	10		B open	Bi-N B4B210	ES	24071225	○
560	600	90,5	10		B closed	Bi-N B4B210	ES	24244771	○
560	610	100	12,5		A closed	Bi-N B4B210	ES	24066944	○
560	610	102	12,5		B closed	Bi-N B4B210	ES	24218823	○
570	610	71,5	10		B open	Bi-N B4B210	ES	24243007	○
570	610	80	10		A open	Bi-N B4B210	ES	24343524	○
570	610	81,5	10		B open	Bi-N B4B210	ES	24101408	○
580	620	60	10		A open	Bi-N B4B210	ES	24330921	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
580	620	60	10		A closed	Bi-N B4B210	ES	24340889	○
580	620	61,5	10		B open	Bi-N B4B210	ES	24268708	○
580	620	70	10		A closed	Bi-N B4B210	ES	24114437	○
580	620	70	10		A open	Bi-N B4B210	ES	24219083	○
580	620	71,5	10		B closed	Bi-N B4B210	ES	24218824	○
580	620	71,5	10		B open	Bi-N B4B210	ES	24233518	○
580	620	80	10		A closed	Bi-N B4B210	ES	24114580	○
580	620	80	10		A open	Bi-N B4B210	ES	24145786	○
580	620	81,5	10		B open	Bi-N B4B210	ES	24218649	○
580	620	81,5	10		B closed	Bi-N B4B210	ES	24218825	○
580	630	100	12,5		A closed	Bi-N B4B210	ES	24219231	○
580	630	102	12,5		B open	Bi-N B4B210	ES	24107260	○
580	630	102	12,5		B closed	Bi-N B4B210	ES	24218827	○
590	630	60	10		A closed	Bi-N B4B210	ES	24114340	○
590	630	70	10		A closed	Bi-N B4B210	ES	24091257	○
590	630	70	10		A open	Bi-N B4B210	ES	24219084	○
590	630	71,5	10		B open	Bi-N B4B210	ES	24218651	○
590	630	71,5	10		B closed	Bi-N B4B210	ES	24218828	○
590	630	80	10		A closed	Bi-N B4B210	ES	24083741	○
590	630	81,5	10		B closed	Bi-N B4B210	ES	24009812	○
590	630	81,5	10		B closed	Bi-N B4B210	ES	24218829	○
600	630	52,5	7,5		A open	Bi-N B4B210	ES	24199064	○
600	640	60	10		A closed	Bi-N B4B210	ES	24116145	○
600	640	70	10		A closed	Bi-N B4B210	ES	24078738	○
600	640	70	10		A open	Bi-N B4B210	ES	24219086	○
600	640	71,5	10		B closed	Bi-N B4B210	ES	24063849	○
600	640	71,5	10		B open	Bi-N B4B210	ES	24232447	○
600	640	80	10		A closed	Bi-N B4B210	ES	24219232	○
600	640	81,5	10		B closed	Bi-N B4B210	ES	24068954	○
600	640	81,5	10		B open	Bi-N B4B210	ES	24071227	○
600	650	100	12,5		A open	Bi-N B4B210	ES	24219089	○
600	650	102	12,5		B open	Bi-N B4B210	ES	24132508	○
600	650	102	12,5		B closed	Bi-N B4B210	ES	24218831	○
610	650	70	10		A open	Bi-N B4B210	ES	24316425	○
610	650	80	10		A open	Bi-N B4B210	ES	24222956	○
610	650	81,5	10		B open	Bi-N B4B210	ES	24351998	○
620	650	52,5	7,5		A open	Bi-N B4B210	ES	24346337	○
620	660	61,5	10		B open	Bi-N B4B210	ES	24291254	○
620	660	70	10		A open	Bi-N B4B210	ES	24219092	○
620	660	71,5	10		B open	Bi-N B4B210	ES	24218655	○
620	660	80	10		A open	Bi-N B4B210	ES	24219093	○
620	660	81,5	10		B open	Bi-N B4B210	ES	24087689	○
620	670	100	12,5		A open	Bi-N B4B210	ES	24219095	○
620	670	102	12,5		B open	Bi-N B4B210	ES	24218657	○
630	670	61,5	10		B closed	Bi-N B4B210	ES	24064701	○
630	670	61,5	10		B open	Bi-N B4B210	ES	24106809	○
630	670	70	10		A open	Bi-N B4B210	ES	24084675	○
630	670	70	10		A closed	Bi-N B4B210	ES	24219238	○
630	670	71,5	10		B open	Bi-N B4B210	ES	24218658	○
630	670	71,5	10		B closed	Bi-N B4B210	ES	24218835	○

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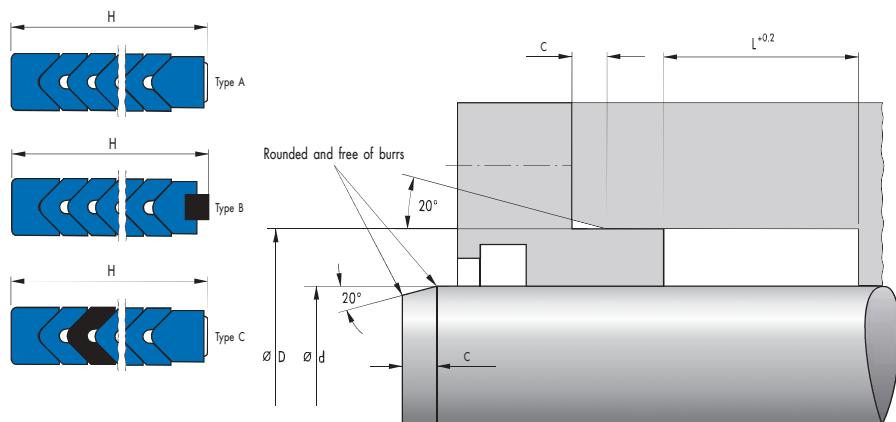


d	D	L	C	Housing	Type	Material	Type	Article No.	
630	670	80	10		A open	Bi-N B4B210	ES	24219096	○
630	670	80	10		A closed	Bi-N B4B210	ES	24219239	○
630	670	81,5	10		B open	Bi-N B4B210	ES	24218659	○
630	670	81,5	10		B closed	Bi-N B4B210	ES	24218836	○
630	680	100	12,5		A open	Bi-N B4B210	ES	24219098	○
630	680	102	12,5		B open	Bi-N B4B210	ES	24218661	○
640	680	70	10		A open	Bi-N B4B210	ES	24219099	○
640	680	71,5	10		B open	Bi-N B4B210	ES	24218662	○
640	680	80	10		A open	Bi-N B4B210	ES	24087777	○
640	680	81,5	10		B open	Bi-N B4B210	ES	24218663	○
640	690	100	12,5		A open	Bi-N B4B210	ES	24219101	○
640	690	102	12,5		B open	Bi-N B4B210	ES	24148978	○
650	690	70	10		A open	Bi-N B4B210	ES	24219102	○
650	690	70	10		A closed	Bi-N B4B210	ES	24219240	○
650	690	71,5	10		B open	Bi-N B4B210	ES	24074106	○
650	690	71,5	10		B closed	Bi-N B4B210	ES	24218839	○
650	690	80	10		A open	Bi-N B4B210	ES	24081546	○
650	690	80	10		A closed	Bi-N B4B210	ES	24172074	○
650	690	81,5	10		B open	Bi-N B4B210	ES	24116502	○
650	690	81,5	10		B closed	Bi-N B4B210	ES	24218840	○
650	700	100	12,5		A open	Bi-N B4B210	ES	24267972	○
660	700	70	10		A open	Bi-N B4B210	ES	24219103	○
660	700	71,5	10		B open	Bi-N B4B210	ES	24218665	○
660	700	80	10		A open	Bi-N B4B210	ES	24219104	○
660	700	81,5	10		B open	Bi-N B4B210	ES	24218666	○
660	710	80	12,5		A closed	Bi-N B4B210	ES	24197590	○
660	710	100	12,5		A open	Bi-N B4B210	ES	24219106	○
660	710	102	12,5		B open	Bi-N B4B210	ES	24218668	○
670	710	81,5	10		B open	Bi-N B4B210	ES	24071181	○
670	720	100	12,5		A closed	Bi-N B4B210	ES	24176117	○
670	720	100	12,5		A open	Bi-N B4B210	ES	24219108	○
670	720	102	12,5		B open	Bi-N B4B210	ES	24218670	○
670	720	102	12,5		B closed	Bi-N B4B210	ES	24218842	○
675	725	100	12,5		A open	Bi-N B4B210	ES	24103976	○
680	710	60	7,5		A open	Bi-N B4B210	ES	24348073	○
680	720	70	10		A open	Bi-N B4B210	ES	24219109	○
680	720	71,5	10		B open	Bi-N B4B210	ES	24218671	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
680	720	80	10		A open	Bi-N B4B210	ES	24219110	○
680	720	81,5	10		B open	Bi-N B4B210	ES	24218673	○
680	730	100	12,5		A open	Bi-N B4B210	ES	24219112	○
680	730	102	12,5		B open	Bi-N B4B210	ES	24218672	○
685	725	81,5	10		B open	Bi-N B4B210	ES	24192820	○
690	730	61,5	10		B closed	Bi-N B4B210	ES	24293797	○
690	730	70	10		A open	Bi-N B4B210	ES	24219113	○
690	730	70	10		A closed	Bi-N B4B210	ES	24219242	○
690	730	71,5	10		B open	Bi-N B4B210	ES	24218674	○
690	730	71,5	10		B closed	Bi-N B4B210	ES	24218843	○
690	730	80	10		A open	Bi-N B4B210	ES	24219114	○
690	730	80	10		A closed	Bi-N B4B210	ES	24219243	○
690	730	81,5	10		B open	Bi-N B4B210	ES	24109229	○
690	730	81,5	10		B closed	Bi-N B4B210	ES	24218844	○
695	735	80	10		A open	Bi-N B4B210	ES	24296289	○
700	730	60	7,5		A open	Bi-N B4B210	ES	24120063	○
700	740	60	10		A closed	Bi-N B4B210	ES	24106925	○
700	740	61,5	10		B open	Bi-N B4B210	ES	24193914	○
700	740	70	10		A closed	Bi-N B4B210	ES	24078869	○
700	740	70	10		A open	Bi-N B4B210	ES	24219115	○
700	740	71,5	10		B open	Bi-N B4B210	ES	24103215	○
700	740	71,5	10		B closed	Bi-N B4B210	ES	24218845	○
700	740	80	10		A open	Bi-N B4B210	ES	24219116	○
700	740	80	10		A closed	Bi-N B4B210	ES	24219261	○
700	740	81,5	10		B open	Bi-N B4B210	ES	24218675	○
700	740	81,5	10		B closed	Bi-N B4B210	ES	24218846	○
700	740	90,5	10		B closed	Bi-N B4B210	ES	24239435	○
700	750	100	12,5		A open	Bi-N B4B210	ES	24219118	○
700	750	102	12,5		B open	Bi-N B4B210	ES	24128272	○
710	750	60	10		A closed	Bi-N B4B210	ES	24195814	○
710	750	61,5	10		B closed	Bi-N B4B210	ES	24238814	○
710	750	70	10		A closed	Bi-N B4B210	ES	24074993	○
710	750	70	10		A open	Bi-N B4B210	ES	24219121	○
710	750	71,5	10		B closed	Bi-N B4B210	ES	24082443	○
710	750	71,5	10		B open	Bi-N B4B210	ES	24218679	○
710	750	80	10		A open	Bi-N B4B210	ES	24219122	○
710	750	80	10		A closed	Bi-N B4B210	ES	24219245	○
710	750	81,5	10		B open	Bi-N B4B210	ES	24071177	○
710	750	81,5	10		B closed	Bi-N B4B210	ES	24218849	○
710	750	90,5	10		B closed	Bi-N B4B210	ES	24129422	○
710	760	100	12,5		A closed	Bi-N B4B210	ES	24114586	○
710	760	100	12,5		A open	Bi-N B4B210	ES	24186413	○
710	760	102	12,5		B open	Bi-N B4B210	ES	24218680	○
710	760	102	12,5		B closed	Bi-N B4B210	ES	24218851	○
720	760	70	10		A open	Bi-N B4B210	ES	24219123	○
720	760	71,5	10		B open	Bi-N B4B210	ES	24218681	○
720	760	80	10		A open	Bi-N B4B210	ES	24187283	○
720	770	100	12,5		A open	Bi-N B4B210	ES	24219125	○
720	770	100	12,5		A closed	Bi-N B4B210	ES	24219247	○
720	770	102	12,5		B open	Bi-N B4B210	ES	24218684	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
800	850	70	12,5		A open	Bi-N B4B210	ES	24192354	○
800	850	80	12,5		A closed	Bi-N B4B210	ES	24067763	○
800	850	82	12,5		B closed	Bi-N B4B210	ES	24077894	○
800	850	100	12,5		A closed	Bi-N B4B210	ES	24066922	○
800	850	100	12,5		A open	Bi-N B4B210	ES	24094794	○
800	850	102	12,5		B closed	Bi-N B4B210	ES	24103851	○
800	850	102	12,5		B open	Bi-N B4B210	ES	24104080	○
810	850	81,5	10		B open	Bi-N B4B210	ES	24353087	○
820	860	71,5	10		B open	Bi-N B4B210	ES	24263168	○
820	870	100	12,5		A closed	Bi-N B4B210	ES	24114587	○
820	870	100	12,5		A open	Bi-N B4B210	ES	24219137	○
820	870	102	12,5		B open	Bi-N B4B210	ES	24218694	○
820	870	102	12,5		B closed	Bi-N B4B210	ES	24218857	○
825	875	102	12,5		B open	Bi-N B4B210	ES	24267024	○
830	880	100	12,5		A open	Bi-N B4B210	ES	24342533	○
840	880	81,5	10		B open	Bi-N B4B210	ES	24335687	○
840	890	100	12,5		A open	Bi-N B4B210	ES	24357980	○
850	890	60	10		A closed	Bi-N B4B210	ES	24339224	○
850	890	61,5	10		B closed	Bi-N B4B210	ES	24263169	○
850	890	70	10		A closed	Bi-N B4B210	ES	24114461	○
850	890	70	10		A open	Bi-N B4B210	ES	24219138	○
850	890	71,5	10		B open	Bi-N B4B210	ES	24218695	○
850	890	71,5	10		B closed	Bi-N B4B210	ES	24218858	○
850	890	80	10		A open	Bi-N B4B210	ES	24131119	○
850	890	80	10		A closed	Bi-N B4B210	ES	24219250	○
850	890	81,5	10		B closed	Bi-N B4B210	ES	24077013	○
850	890	81,5	10		B open	Bi-N B4B210	ES	24218696	○
850	900	70	12,5		A closed	Bi-N B4B210	ES	24114382	○
850	900	100	12,5		A open	Bi-N B4B210	ES	24219140	○
850	900	100	12,5		A closed	Bi-N B4B210	ES	24219252	○
850	900	102	12,5		B open	Bi-N B4B210	ES	24218698	○
850	900	102	12,5		B closed	Bi-N B4B210	ES	24218860	○
860	900	60	10		A open	Bi-N B4B210	ES	24359911	○
860	910	102	12,5		B open	Bi-N B4B210	ES	24199041	○
870	920	100	12,5		A open	Bi-N B4B210	ES	24219142	○
870	920	100	12,5		A closed	Bi-N B4B210	ES	24219254	○
870	920	102	12,5		B open	Bi-N B4B210	ES	24117560	○

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d	D	L	C	Housing	Type	Material	Type	Article No.	
870	920	102	12,5		B closed	Bi-N B4B210	ES	24218862	○
875	925	100	12,5		A closed	Bi-N B4B210	ES	24101244	○
875	925	102	12,5		B open	Bi-N B4B210	ES	24085902	○
880	930	101	12,5		B open	Bi-N B4B210	ES	24244245	○
900	940	70	10		A closed	Bi-N B4B210	ES	24219257	○
900	940	71,5	10		B closed	Bi-N B4B210	ES	24218865	○
900	940	80	10		A closed	Bi-N B4B210	ES	24219258	○
900	940	81,5	10		B closed	Bi-N B4B210	ES	24218866	○
900	950	100	12,5		A closed	Bi-N B4B210	ES	24066945	○
900	950	100	12,5		A open	Bi-N B4B210	ES	24219146	○
900	950	102	12,5		B open	Bi-N B4B210	ES	24218703	○
900	950	102	12,5		B closed	Bi-N B4B210	ES	24218868	○
925	975	100	12,5		A open	Bi-N B4B210	ES	24351206	○
930	980	102	12,5		B open	Bi-N B4B210	ES	24261784	○
950	1000	91	12,5		B closed	Bi-N B4B210	ES	24214711	○
950	1000	100	12,5		A closed	Bi-N B4B210	ES	24114590	○
950	1000	100	12,5		A open	Bi-N B4B210	ES	24219150	○
950	1000	102	12,5		B open	Bi-N B4B210	ES	24218707	○
950	1000	102	12,5		B closed	Bi-N B4B210	ES	24218870	○
960	1010	100	12,5		A open	Bi-N B4B210	ES	24073190	○
960	1010	102	12,5		B open	Bi-N B4B210	ES	24218709	○
975	1015	61,5	10		B open	Bi-N B4B210	ES	24263162	○
980	1020	81,5	10		B open	Bi-N B4B210	ES	24078616	○
1000	1040	61,5	10		B open	Bi-N B4B210	ES	24267847	○
1000	1040	71,5	10		B open	Bi-N B4B210	ES	24218710	○
1000	1040	81,5	10		B open	Bi-N B4B210	ES	24071280	○
1000	1050	100	12,5		A closed	Bi-N B4B210	ES	24114995	○
1000	1050	100	12,5		A open	Bi-N B4B210	ES	24219155	○
1000	1050	102	12,5		B closed	Bi-N B4B210	ES	24137135	○
1000	1050	102	12,5		B open	Bi-N B4B210	ES	24218712	○
1020	1070	102	12,5		B open	Bi-N B4B210	ES	24343588	○
1050	1100	100	12,5		A closed	Bi-N B4B210	ES	24071553	○
1060	1110	100	12,5		A open	Bi-N B4B210	ES	24356608	○
1070	1120	100	12,5		A open	Bi-N B4B210	ES	24352076	○
1080	1130	102	12,5		B open	Bi-N B4B210	ES	24359160	○
1100	1140	80	10		A open	Bi-N B4B210	ES	24098392	○
1100	1150	102	12,5		B open	Bi-N B4B210	ES	24122700	○
1130	1170	60	10		A open	Bi-N B4B210	ES	24144932	○
1150	1200	70	12,5		A open	Bi-N B4B210	ES	24175251	○
1220	1270	100	12,5		A closed	Bi-N B4B210	ES	24335019	○

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