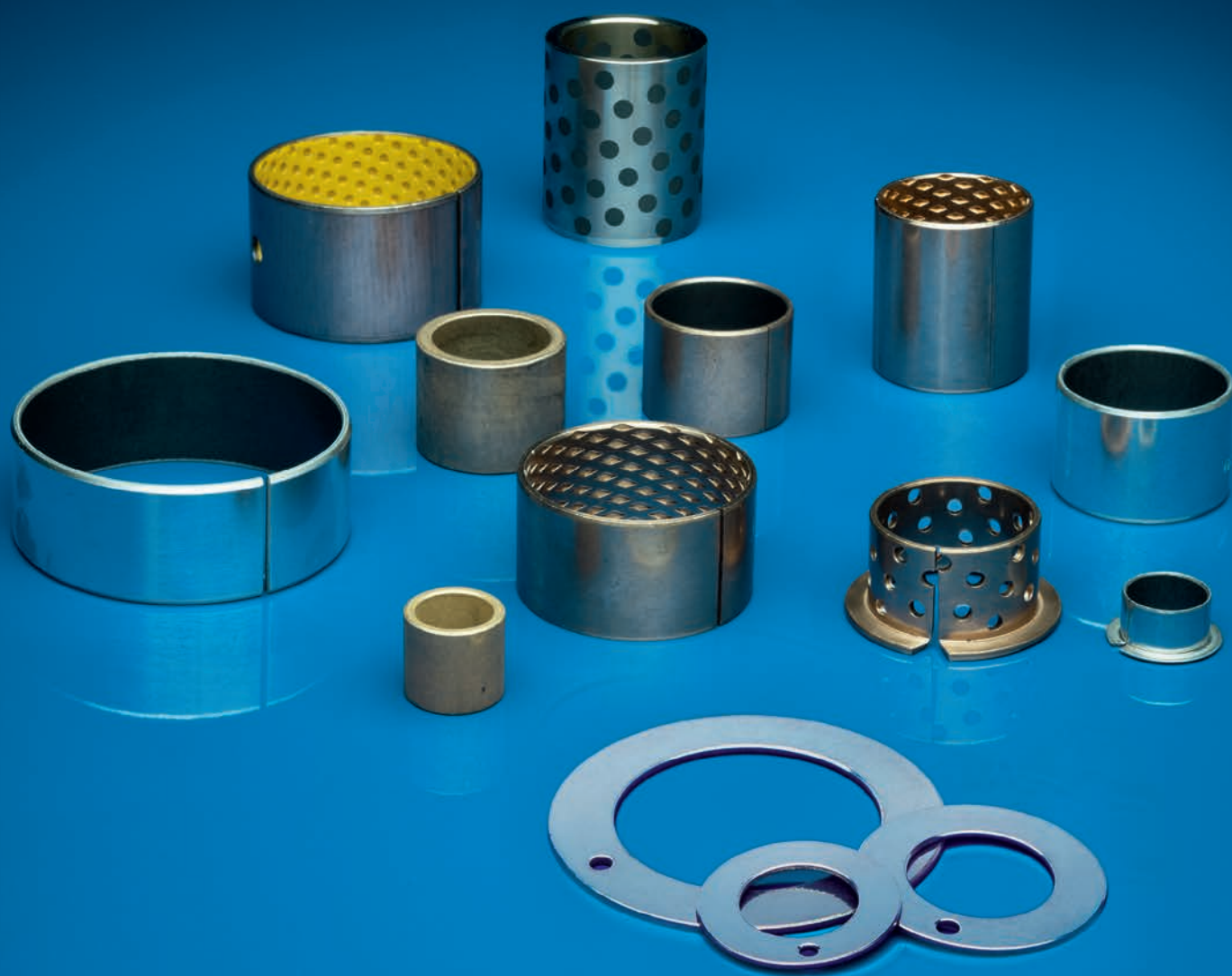




**NÖLLE +
NORDHORN**

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Slide Bearing Catalogue

SLIDE WITH US TOWARDS TECHNICAL PROGRESS

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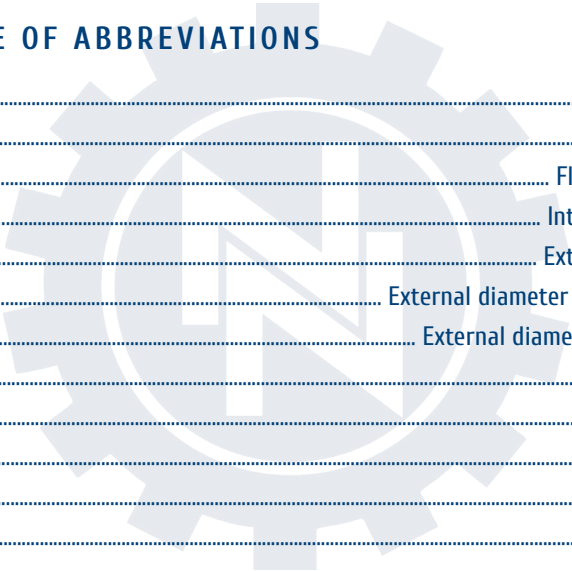
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TABLE OF ABBREVIATIONS



W	Width
W1	Usage width
FT	Flange thickness
d	Internal diameter
D	External diameter
D1	External diameter without flange
D2	External diameter with flange
H	Height
L	Length
H	Hole circle
R	Radius
T	Thickness



**NÖLLE +
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Always the best possible solution

For over 60 years, NÖLLE + NORDHORN has been one of the leading suppliers of brand quality and service – starting from pneumatics and hydraulics through to drive technology, toolmaking standards and up to, and including, industrial technology and service.

Our role as an important system partner for industry means that our slide bearings and bushes product range also never leaves anything to be desired – commencing with our expertise for professional advice up to providing exceptional quality at the best possible price with optimum delivery service.

Benefit from the advantages provided by sintered bronze bushings, rolled slide bearings and maintenance-free sliding elements for all your individual requirements:

- Long service life at highest revolution speeds in continuous operation
- Maintenance-free with special composite bearings
- Reduced friction
- Low noise output
- Insensitive to impacts
- Minimal construction-design volume
- Exceptionally high load-bearing capacity
- Simple, cost-saving assembly

Should you not locate the desired slide bearing bush which you require, then please contact us. Specialised manufacturing is our speciality.

A passion for
PRODUCTS and **SERVICE**

NN-010

BUSHES: Metal-plastic-composite St + sintered bronze + PTFE

TYPICAL FEATURES

- Self-lubricating sliding material with very good wear and friction characteristics over a wide range - different loads, sliding speeds and temperatures
- Very good physical and mechanical characteristics
- Suitable for rotating and oscillating movements with self-lubrication

TECHNICAL DATA

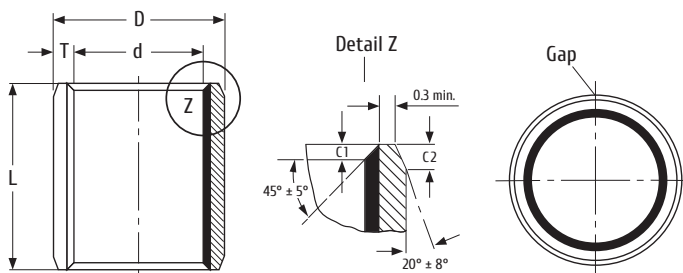
Maximum load	Static load:	250 N/mm ²
	Dynamic load:	140 N/mm ²
Maximum Speed	Dry running:	2,0 m/s
	Hydro-dynamic usage:	> 2 m/s
Maximum PV value	Short-term usage:	3,6 N/mm ² * m/s
	Continuous usage:	1,8 N/mm ² * m/s
Friction coefficient	0,03 ~ 0,25	
Temperature range	- 195 ~ 280 °C	
Thermal conductivity	42 W/m * k	
Thermal expansion coefficient	11 * 10 ⁻⁶ / K	

NN-010 Bushes, cylindrical *self-lubricating with steel back*



T: Wall thickness	C1: Chamfer inside	C2: Chamfer outside
0,75	0,25 ± 0,15	0,50 ± 0,30
1,00	0,30 ± 0,20	0,60 ± 0,40
1,50	0,40 ± 0,30	0,60 ± 0,40
2,00	0,40 ± 0,30	1,20 ± 0,40
2,50	0,60 ± 0,40	1,80 ± 0,60

All details in mm.



ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-0203	2	3,5	3	H6/f7
NN-010-0205	2	3,5	5	H6/f7
NN-010-0303	3	4,5	3	H6/f7
NN-010-0304	3	4,5	4	H6/f7
NN-010-0305	3	4,5	5	H6/f7
NN-010-0306	3	4,5	6	H6/f7
NN-010-0403	4	5,5	3	H6/f7
NN-010-0404	4	5,5	4	H6/f7
NN-010-0406	4	5,5	6	H6/f7
NN-010-0408	4	5,5	8	H6/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-0410	4	5,5	10	H6/f7
NN-010-0505	5	7	5	H7/f7
NN-010-0508	5	7	8	H7/f7
NN-010-0510	5	7	10	H7/f7
NN-010-0604	6	8	4	H7/f7
NN-010-0605	6	8	5	H7/f7
NN-010-0606	6	8	6	H7/f7
NN-010-0608	6	8	8	H7/f7
NN-010-0610	6	8	10	H7/f7
NN-010-0710	7	9	10	H7/f7

NN-010

Bushes, cylindrical

self-lubricating with steel back

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-0806	8	10	6	H7/f7
NN-010-0808	8	10	8	H7/f7
NN-010-0810	8	10	10	H7/f7
NN-010-0812	8	10	12	H7/f7
NN-010-10060	10	12	6	H7/f7
NN-010-1008	10	12	8	H7/f7
NN-010-1010	10	12	10	H7/f7
NN-010-1012	10	12	12	H7/f7
NN-010-1015	10	12	15	H7/f7
NN-010-1020	10	12	20	H7/f7
NN-010-1206	12	14	6	H7/f7
NN-010-1208	12	14	8	H7/f7
NN-010-1210	12	14	10	H7/f7
NN-010-1212	12	14	12	H7/f7
NN-010-1215	12	14	15	H7/f7
NN-010-1220	12	14	20	H7/f7
NN-010-1225	12	14	25	H7/f7
NN-010-1310	13	15	10	H7/f7
NN-010-1320	13	15	20	H7/f7
NN-010-1405	14	16	5	H7/f7
NN-010-1410	14	16	10	H7/f7
NN-010-1412	14	16	12	H7/f7
NN-010-1415	14	16	15	H7/f7
NN-010-1420	14	16	20	H7/f7
NN-010-1425	14	16	25	H7/f7
NN-010-1510	15	17	10	H7/f7
NN-010-1512	15	17	12	H7/f7
NN-010-1515	15	17	15	H7/f7
NN-010-1520	15	17	20	H7/f7
NN-010-1525	15	17	25	H7/f7
NN-010-1610	16	18	10	H7/f7
NN-010-1612	16	18	12	H7/f7
NN-010-1615	16	18	15	H7/f7
NN-010-1620	16	18	20	H7/f7
NN-010-1625	16	18	25	H7/f7
NN-010-1712	17	19	12	H7/f7
NN-010-1715	17	19	15	H7/f7
NN-010-1720	17	19	20	H7/f7
NN-010-1810	18	20	10	H7/f7
NN-010-1815	18	20	15	H7/f7
NN-010-1820	18	20	20	H7/f7
NN-010-1825	18	20	25	H7/f7
NN-010-2010	20	23	10	H7/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-2012	20	23	12	H7/f7
NN-010-2015	20	23	15	H7/f7
NN-010-2020	20	23	20	H7/f7
NN-010-2025	20	23	25	H7/f7
NN-010-2030	20	23	30	H7/f7
NN-010-2215	22	25	15	H7/f7
NN-010-2220	22	25	20	H7/f7
NN-010-2225	22	25	25	H7/f7
NN-010-2230	22	25	30	H7/f7
NN-010-2415	24	27	15	H7/f7
NN-010-2420	24	27	20	H7/f7
NN-010-2425	24	27	25	H7/f7
NN-010-2430	24	27	30	H7/f7
NN-010-2515	25	28	15	H7/f7
NN-010-2520	25	28	20	H7/f7
NN-010-2525	25	28	25	H7/f7
NN-010-2530	25	28	30	H7/f7
NN-010-2540	25	28	40	H7/f7
NN-010-2550	25	28	50	H7/f7
NN-010-2615	26	30	15	H7/f7
NN-010-2620	26	30	20	H7/f7
NN-010-2630	26	30	30	H7/f7
NN-010-2815	28	32	15	H7/f7
NN-010-2820	28	32	20	H7/f7
NN-010-2825	28	32	25	H7/f7
NN-010-2830	28	32	30	H7/f7
NN-010-2920	29	33	20	H7/f7
NN-010-3010	30	34	10	H7/f7
NN-010-3012	30	34	12	H7/f7
NN-010-3015	30	34	15	H7/f7
NN-010-3020	30	34	20	H7/f7
NN-010-3025	30	34	25	H7/f7
NN-010-3030	30	34	30	H7/f7
NN-010-3035	30	34	35	H7/f7
NN-010-3040	30	34	40	H7/f7
NN-010-3220	32	36	20	H7/f7
NN-010-3230	32	36	30	H7/f7
NN-010-3240	32	36	40	H7/f7
NN-010-3420	34	38	20	H7/f7
NN-010-3520	35	39	20	H7/f7
NN-010-3530	35	39	30	H7/f7
NN-010-3535	35	39	35	H7/f7
NN-010-3540	35	39	40	H7/f7

NN-010

Bushes, cylindrical

self-lubricating with steel back

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-3550	35	39	50	H7/f7
NN-010-3720	37	41	20	H7/f7
NN-010-3825	38	42	25	H7/f7
NN-010-4020	40	44	20	H7/f7
NN-010-4030	40	44	30	H7/f7
NN-010-4040	40	44	40	H7/f7
NN-010-4050	40	44	50	H7/f7
NN-010-4520	45	50	20	H7/f7
NN-010-4530	45	50	30	H7/f7
NN-010-4540	45	50	40	H7/f7
NN-010-4550	45	50	50	H7/f7
NN-010-5020	50	55	20	H7/f7
NN-010-5030	50	55	30	H7/f7
NN-010-5040	50	55	40	H7/f7
NN-010-5050	50	55	50	H7/f7
NN-010-5060	50	55	60	H7/f7
NN-010-5520	55	60	20	H7/f7
NN-010-5525	55	60	25	H7/f7
NN-010-5530	55	60	30	H7/f7
NN-010-5540	55	60	40	H7/f7
NN-010-5550	55	60	50	H7/f7
NN-010-5555	55	60	55	H7/f7
NN-010-5560	55	60	60	H7/f7
NN-010-6020	60	65	20	H7/f7
NN-010-6030	60	65	30	H7/f7
NN-010-6040	60	65	40	H7/f7
NN-010-6050	60	65	50	H7/f7
NN-010-6060	60	65	60	H7/f7
NN-010-6070	60	65	70	H7/f7
NN-010-6530	65	70	30	H7/f7
NN-010-6550	65	70	50	H7/f7
NN-010-6570	65	70	70	H7/f7
NN-010-7040	70	75	40	H7/f7
NN-010-7050	70	75	50	H7/f7
NN-010-7070	70	75	70	H7/f7
NN-010-7550	75	80	50	H7/f7
NN-010-7560	75	80	60	H7/f7
NN-010-7580	75	80	80	H7/f7
NN-010-8060	80	85	60	H7/h8
NN-010-80100	80	85	100	H7/h8
NN-010-8530	85	90	30	H7/h8

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-010-8560	85	90	60	H7/h8
NN-010-85100	85	90	100	H7/h8
NN-010-9060	90	95	60	H7/h8
NN-010-90100	90	95	100	H7/h8
NN-010-9560	95	100	60	H7/h8
NN-010-95100	95	100	100	H7/h8
NN-010-10050	100	105	50	H7/h8
NN-010-10060	100	105	60	H7/h8
NN-010-100115	100	105	115	H7/h8
NN-010-10560	105	110	60	H7/h8
NN-010-105115	105	110	115	H7/h8
NN-010-11060	110	115	60	H7/h8
NN-010-110115	110	115	115	H7/h8
NN-010-11550	115	120	50	H7/h8
NN-010-11570	115	120	70	H7/h8
NN-010-12050	120	125	50	H7/h8
NN-010-12060	120	125	60	H7/h8
NN-010-120100	120	125	100	H7/h8
NN-010-120120	120	125	120	H7/h8
NN-010-125100	125	130	100	H7/h8
NN-010-13060	130	135	60	H7/h8
NN-010-130100	130	135	100	H7/h8
NN-010-13560	135	140	60	H7/h8
NN-010-13580	135	140	80	H7/h8
NN-010-14060	140	145	60	H7/h8
NN-010-140100	140	145	100	H7/h8
NN-010-140120	140	145	120	H7/h8
NN-010-15060	150	155	60	H7/h8
NN-010-15080	150	155	80	H7/h8
NN-010-150100	150	155	100	H7/h8
NN-010-16080	160	165	80	H7/h8
NN-010-160100	160	165	100	H7/h8
NN-010-18080	180	185	80	H7/h8
NN-010-180100	180	185	100	H7/h8
NN-010-200100	200	205	100	H7/h8
NN-010-210100	210	215	100	H7/h8
NN-010-220100	220	225	100	H7/h8
NN-010-250100	250	255	100	H7/h8
NN-010-28080	280	285	80	H7/h8
NN-010-300100	300	305	100	H7/h8

NN-010 F

Flange bushes

self-lubricating with steel back

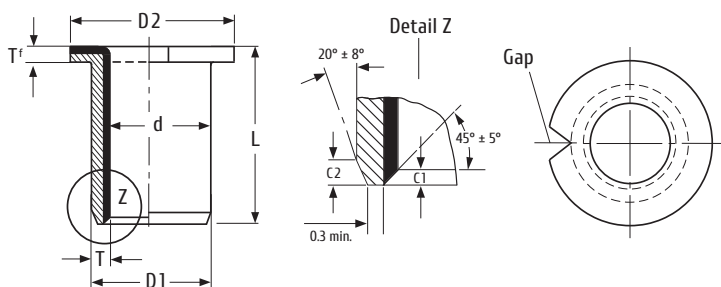


ARTICLE	DIMENSIONS				TOLERANCE Housing/Studs
	d	D1	D2	L	
NN-010F-0304	3	4,5	7	4	H6/h6
NN-010F-0405	4	5,5	9	5	H6/h6
NN-010F-0505	5	7	10	5	H7/f7
NN-010F-0604	6	8	12	4	H7/f7
NN-010F-0607	6	8	12	7	H7/f7
NN-010F-0608	6	8	12	8	H7/f7
NN-010F-08055	8	10	15	5,5	H7/f7
NN-010F-0806	8	10	15	6	H7/f7
NN-010F-08075	8	10	15	7,5	H7/f7
NN-010F-0808	8	10	15	8	H7/f7
NN-010F-08095	8	10	15	9,5	H7/f7
NN-010F-0810	8	10	15	10	H7/f7
NN-010F-1007	10	12	18	7	H7/f7
NN-010F-1009	10	12	18	9	H7/f7
NN-010F-1012	10	12	18	12	H7/f7
NN-010F-1017	10	12	18	17	H7/f7
NN-010F-1207	12	14	20	7	H7/f7
NN-010F-1209	12	14	20	9	H7/f7
NN-010F-1212	12	14	20	12	H7/f7
NN-010F-1217	12	14	20	17	H7/f7
NN-010F-1412	14	16	22	12	H7/f7
NN-010F-1417	14	16	22	17	H7/f7
NN-010F-1509	15	17	23	9	H7/f7
NN-010F-1512	15	17	23	12	H7/f7
NN-010F-1517	15	17	23	17	H7/f7
NN-010F-1612	16	18	24	12	H7/f7
NN-010F-1617	16	18	24	17	H7/f7
NN-010F-1812	18	20	26	12	H7/f7

ARTICLE	DIMENSIONS				TOLERANCE Housing/Studs
	d	D1	D2	L	
NN-010F-1817	18	20	26	17	H7/f7
NN-010F-1822	18	20	26	22	H7/f7
NN-010F-20115	20	23	30	11,5	H7/f7
NN-010F-2012	20	23	30	12	H7/f7
NN-010F-2015	20	23	30	15	H7/f7
NN-010F-20165	20	23	30	16,5	H7/f7
NN-010F-2017	20	23	30	17	H7/f7
NN-010F-20215	20	23	30	21,5	H7/f7
NN-010F-2022	20	23	30	22	H7/f7
NN-010F-22215	22	25	33	21,5	H7/f7
NN-010F-25115	25	28	35	11,5	H7/f7
NN-010F-2512	25	28	35	12	H7/f7
NN-010F-25165	25	28	35	16,5	H7/f7
NN-010F-2517	25	28	35	17	H7/f7
NN-010F-25215	25	28	35	21,5	H7/f7
NN-010F-2522	25	28	35	22	H7/f7
NN-010F-25265	25	28	35	26,5	H7/f7
NN-010F-3016	30	34	42	16	H7/f7
NN-010F-3026	30	34	42	26	H7/f7
NN-010F-3030	30	34	42	30	H7/f7
NN-010F-3516	35	39	47	16	H7/f7
NN-010F-3526	35	39	47	26	H7/f7
NN-010F-4016	40	44	53	16	H7/f7
NN-010F-4026	40	44	53	26	H7/f7
NN-010F-4516	45	50	60	16	H7/f7
NN-010F-4526	45	50	60	26	H7/f7
NN-010F-5022	50	55	65	22	H7/f7

T: Wall thickness	C1: Chamfer inside	C2: Chamfer outside
0,75	0,25 ± 0,15	0,50 ± 0,30
1,00	0,30 ± 0,20	0,60 ± 0,40
1,50	0,40 ± 0,30	0,60 ± 0,40
2,00	0,40 ± 0,30	1,20 ± 0,40
2,50	0,60 ± 0,40	1,80 ± 0,60

All details in mm.



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NN-010 W

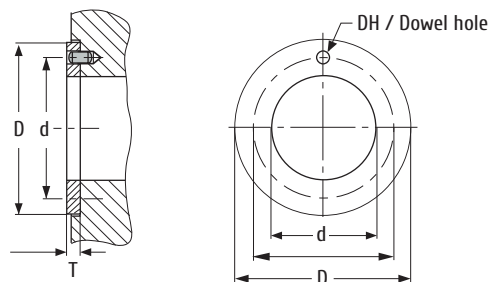
Thrust washers

self-lubricating with steel back



ARTICLE	DIMENSIONS			
	d	D	T	DH
NN-010W-10	10	20	1,5	15
NN-010W-12	12	24	1,5	18
NN-010W-14	14	26	1,5	20
NN-010W-16	16	30	1,5	22
NN-010W-18	18	32	1,5	25
NN-010W-20	20	36	1,5	28
NN-010W-22	22	38	1,5	30
NN-010W-24	24	42	1,5	33

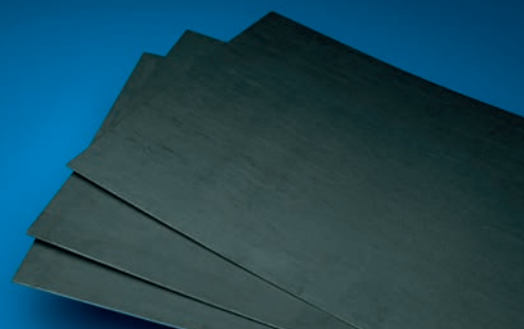
ARTICLE	DIMENSIONS			
	d	D	T	DH
NN-010W-26	26	44	1,5	35
NN-010W-28	28	48	1,5	38
NN-010W-32	32	54	1,5	43
NN-010W-38	38	62	1,5	50
NN-010W-42	42	66	1,5	54
NN-010W-48	48	74	2	61
NN-010W-52	52	78	2	65
NN-010W-62	62	90	2	76



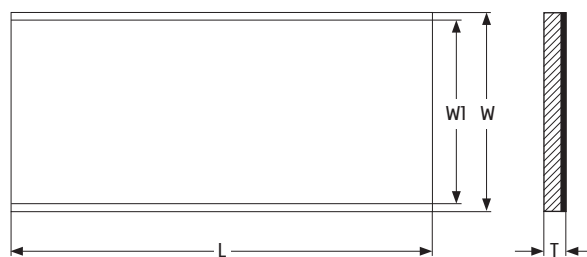
NN-010 P

Stripes

self-lubricating with steel back



ARTICLE	DIMENSIONS			
	L	W	WI	T
NN-010P-072190	500	200	182	0,75
NN-010P-099190	500	200	182	1
NN-010P-150240	500	250	232	1,5
NN-010P-198240	500	250	232	2
NN-010P-248240	500	225	207	2,5
NN-010P-304240	500	200	200	3,06



Tolerance is 0/-0.05 mm

NN-011

BUSHES: Metal-plastic-composite Bz + sintered bronze + PTFE

TYPICAL FEATURES

- Self-lubricating sliding material with very good wear and friction characteristics over a wide range - different loads, sliding speeds and temperatures
- Very good physical and mechanical characteristics
- Suitable for rotating and oscillating movements with self-lubrication
- The bronze back improves the corrosion-resistance and thermal conductivity compared to NN-010
- Anti-magnetic

TECHNICAL DATA

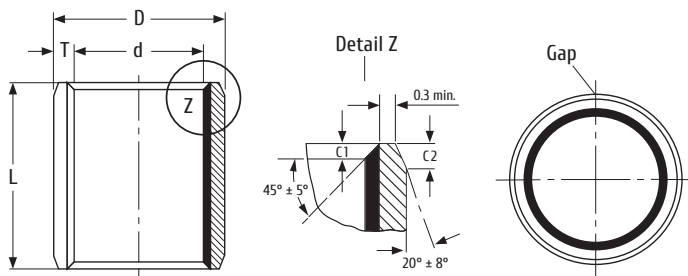
Maximum load	Static load:	250 N/mm ²
	Dynamic load:	140 N/mm ²
Maximum Speed	Dry running:	2,0 m/s
	Hydro-dynamic usage:	> 2 m/s
Maximum PV value	Short-term usage:	3,6 N/mm ² * m/s
	Continuous usage:	1,8 N/mm ² * m/s
Friction coefficient	0,02 ~ 0,20	
Temperature range	- 195 ~ 280 °C	
Thermal conductivity	60 W/m * k	
Thermal expansion coefficient	18 * 10 ⁻⁶ / K	

NN-011 Bushes, cylindrical *self-lubricating with bronze back*



T: Wall thickness	C1: Chamfer inside	C2: Chamfer outside
0,75	0,25 ± 0,15	0,50 ± 0,30
1,00	0,30 ± 0,20	0,60 ± 0,40
1,50	0,40 ± 0,30	0,60 ± 0,40
2,00	0,40 ± 0,30	1,20 ± 0,40
2,50	0,60 ± 0,40	1,80 ± 0,60

All details in mm.



ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-011-0203	2	3,5	3	H6/h6
NN-011-0205	2	3,5	3	H6/h6
NN-011-0306	3	4,5	6	H6/h6
NN-011-0404	4	5,5	4	H6/h6
NN-011-0406	4	5,5	6	H6/h6
NN-011-0505	5	7	5	H7/f7
NN-011-0510	5	7	10	H7/f7
NN-011-0606	6	8	6	H7/f7
NN-011-0610	6	8	10	H7/f7
NN-011-0808	8	10	8	H7/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-011-0810	8	10	10	H7/f7
NN-011-0812	8	10	12	H7/f7
NN-011-1010	10	12	10	H7/f7
NN-011-1015	10	12	15	H7/f7
NN-011-1208	12	14	8	H7/f7
NN-011-1210	12	14	10	H7/f7
NN-011-1212	12	14	12	H7/f7
NN-011-1215	12	14	15	H7/f7
NN-011-1410	14	16	10	H7/f7
NN-011-1415	14	16	15	H7/f7

NN-011

Bushes, cylindrical

self-lubricating with bronze back

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-011-1420	14	16	20	H7/f7
NN-011-1515	15	17	15	H7/f7
NN-011-1525	15	17	25	H7/f7
NN-011-1615	16	18	15	H7/f7
NN-011-1625	16	18	25	H7/f7
NN-011-1820	18	20	20	H7/f7
NN-011-1825	18	20	25	H7/f7
NN-011-2015	20	23	15	H7/f7
NN-011-2020	20	23	20	H7/f7
NN-011-2025	20	23	25	H7/f7
NN-011-2030	20	23	30	H7/f7
NN-011-2215	22	25	15	H7/f7
NN-011-2220	22	25	20	H7/f7
NN-011-2225	22	25	25	H7/f7
NN-011-2515	25	28	15	H7/f7
NN-011-2525	25	28	25	H7/f7
NN-011-2830	28	32	30	H7/f7
NN-011-3020	30	34	20	H7/f7
NN-011-3030	30	34	30	H7/f7
NN-011-3040	30	34	40	H7/f7
NN-011-3240	32	36	40	H7/f7
NN-011-3520	35	39	20	H7/f7
NN-011-3530	35	39	30	H7/f7
NN-011-4030	40	44	30	H7/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-011-4050	40	44	50	H7/f7
NN-011-4530	45	50	30	H7/f7
NN-011-4550	45	50	50	H7/f7
NN-011-5040	50	55	40	H7/f7
NN-011-5060	50	55	60	H7/f7
NN-011-5540	55	60	40	H7/f7
NN-011-6040	60	65	40	H7/f7
NN-011-6050	60	65	50	H7/f7
NN-011-6060	60	65	60	H7/f7
NN-011-6070	60	65	70	H7/f7
NN-011-6570	65	70	70	H7/f7
NN-011-7050	70	75	50	H7/f7
NN-011-7070	70	75	70	H7/f7
NN-011-7580	75	80	80	H7/f7
NN-011-8060	80	85	60	H7/h8
NN-011-80100	80	85	100	H7/h8
NN-011-85100	85	90	100	H7/h8
NN-011-9060	90	95	60	H7/h8
NN-011-90100	90	95	100	H7/h8
NN-011-95100	95	100	100	H7/h8
NN-011-10060	100	105	60	H7/h8
NN-011-100115	100	105	115	H7/h8
NN-011-105115	105	110	115	H7/h8
NN-011-110115	110	115	115	H7/h8

NN-011 F

Flange bushes

self-lubricating with steel back

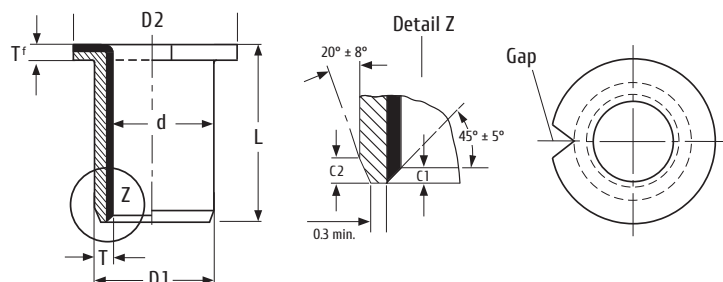


ARTICLE	DIMENSIONS				TOLERANCE Housing/Studs
	d	D1	D2	L	
NN-011F-0304	3	4,5	7	4	H6/h6
NN-011F-0404	4	5,5	9	4	H6/h6
NN-011F-0505	5	7	10	5	H7/f7
NN-011F-0608	6	8	12	8	H7/f7
NN-011F-0806	8	10	15	5,5	H7/f7
NN-011F-0810	8	10	15	9,5	H7/f7
NN-011F-1007	10	12	18	7	H7/f7
NN-011F-1012	12	12	18	12	H7/f7
NN-011F-1207	12	14	20	7	H7/f7
NN-011F-1209	12	14	20	9	H7/f7
NN-011F-1212	12	14	20	12	H7/f7
NN-011F-1417	14	16	22	17	H7/f7
NN-011F-1512	15	17	23	12	H7/f7
NN-011F-1517	15	17	23	17	H7/f7

ARTICLE	DIMENSIONS				TOLERANCE Housing/Studs
	d	D1	D2	L	
NN-011F-1612	16	18	24	12	H7/f7
NN-011F-1617	16	18	24	17	H7/f7
NN-011F-1812	18	20	26	12	H7/f7
NN-011F-1822	18	20	26	22	H7/f7
NN-011F-2012	20	23	30	11,5	H7/f7
NN-011F-2017	20	23	30	16,5	H7/f7
NN-011F-2512	25	28	35	11,5	H7/f7
NN-011F-2522	25	28	35	21,5	H7/f7
NN-011F-3016	30	34	42	16	H7/f7
NN-011F-3026	30	34	42	26	H7/f7
NN-011F-3526	35	39	47	26	H7/f7
NN-011F-4026	40	44	53	26	H7/f7
NN-011F-4526	45	50	58	26	H7/f7

T: Wall thickness	C1: Chamfer inside	C2: Chamfer outside
0,75	0,25 ± 0,15	0,50 ± 0,30
1,00	0,30 ± 0,20	0,60 ± 0,40
1,50	0,40 ± 0,30	0,60 ± 0,40
2,00	0,40 ± 0,30	1,20 ± 0,40
2,50	0,60 ± 0,40	1,80 ± 0,60

All details in mm.



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NN-020

BUSHES: Metal-plastic-composite St + sintered bronze + POM with lubrication pockets

TYPICAL FEATURES

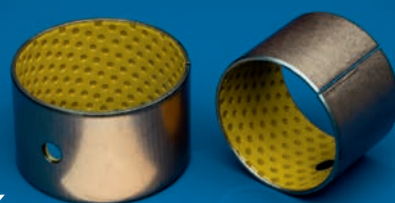
- Low-maintenance sliding material for usage in grease-lubricated or oil-lubricated systems
- Very good physical and mechanical characteristics
- Suitable for rotating and oscillating movements with self-lubrication
- Standard parts with lubrication pockets in the running layer

TECHNICAL DATA

Maximum load	Static load:	250 N/mm ²
	Dynamic load:	140 N/mm ²
Maximum Speed	Pre-lubricated:	2,0 m/s
	Oil-/Grease lubrication continuous usage:	> 2,0 m/s
Maximum PV value	Short-term usage:	2,8 N/mm ² * m/s
Friction coefficient		0,05 ~ 0,20
Temperature range		- 40 ~ 110 °C
Thermal conductivity		42 W/m * k
Thermal expansion coefficient		11 * 10 ⁻⁶ / K

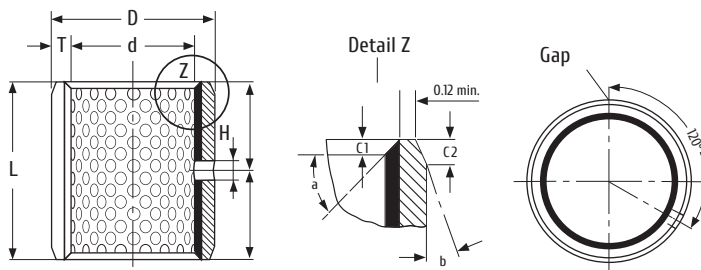
NN-020 Bushes, cylindrical

low-maintenance with copper-plated steel back



T: Wall thickness	C1: Chamfer inside	C2: Chamfer outside
1,00	0,30 ± 0,20	0,60 ± 0,40
1,50	0,40 ± 0,30	0,60 ± 0,40
2,00	0,40 ± 0,30	1,20 ± 0,40
2,50	0,60 ± 0,30	1,80 ± 0,60

All details in mm.



ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-020-0808	8	10	8	H7/h8
NN-020-0810	8	10	10	H7/h8
NN-020-0812	8	10	12	H7/h8
NN-020-1010	10	12	10	H7/h8
NN-020-1012	10	12	12	H7/h8
NN-020-1015	10	12	15	H7/h8
NN-020-1020	10	12	20	H7/h8
NN-020-1210	12	14	10	H7/h8
NN-020-1212	12	14	12	H7/h8
NN-020-1215	12	14	15	H7/h8
NN-020-1220	12	14	20	H7/h8
NN-020-1225	12	14	25	H7/h8
NN-020-1415	14	16	15	H7/h8
NN-020-1420	14	16	20	H7/h8

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-020-1425	14	16	25	H7/h8
NN-020-1510	15	17	10	H7/h8
NN-020-1512	15	17	12	H7/h8
NN-020-1515	15	17	15	H7/h8
NN-020-1525	15	17	25	H7/h8
NN-020-1615	16	18	15	H7/h8
NN-020-1620	16	18	20	H7/h8
NN-020-1625	16	18	25	H7/h8
NN-020-1815	18	20	15	H7/h8
NN-020-1820	18	20	20	H7/h8
NN-020-1825	18	20	25	H7/h8
NN-020-2010	20	23	10	H7/h8
NN-020-2015	20	23	15	H7/h8
NN-020-2020	20	23	20	H7/h8

NN-020

Bushes, cylindrical

low-maintenance with copper-plated steel back

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-020-2025	20	23	25	H7/h8
NN-020-2030	20	23	30	H7/h8
NN-020-2215	22	25	15	H7/h8
NN-020-2220	22	25	20	H7/h8
NN-020-2225	22	25	25	H7/h8
NN-020-2230	22	25	30	H7/h8
NN-020-2425	24	27	25	H7/h8
NN-020-2430	24	27	30	H7/h8
NN-020-2515	25	28	15	H7/h8
NN-020-2520	25	28	20	H7/h8
NN-020-2525	25	28	25	H7/h8
NN-020-2530	25	28	30	H7/h8
NN-020-2825	28	32	25	H7/h8
NN-020-2830	28	32	30	H7/h8
NN-020-3020	30	34	20	H7/h8
NN-020-3025	30	34	25	H7/h8
NN-020-3030	30	34	30	H7/h8
NN-020-3040	30	34	40	H7/h8
NN-020-3220	32	36	20	H7/h8
NN-020-3230	32	36	30	H7/h8
NN-020-3240	32	36	40	H7/h8
NN-020-3520	35	39	20	H7/h8
NN-020-3530	35	39	30	H7/h8
NN-020-3535	35	39	35	H7/h8
NN-020-3550	35	39	50	H7/h8
NN-020-4020	40	44	20	H7/h8
NN-020-4030	40	44	30	H7/h8
NN-020-4040	40	44	40	H7/h8
NN-020-4050	40	44	50	H7/h8
NN-020-4520	45	50	20	H7/h8
NN-020-4530	45	50	30	H7/h8
NN-020-4540	45	50	40	H7/h8
NN-020-4545	45	50	45	H7/h8
NN-020-4550	45	50	50	H7/h8
NN-020-5030	50	55	30	H7/h8
NN-020-5040	50	55	40	H7/h8
NN-020-5045	50	55	45	H7/h8
NN-020-5050	50	55	50	H7/h8
NN-020-5060	50	55	60	H7/h8
NN-020-5520	55	60	20	H7/h8
NN-020-5525	55	60	25	H7/h8
NN-020-5530	55	60	30	H7/h8
NN-020-5540	55	60	40	H7/h8

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-020-5550	55	60	50	H7/h8
NN-020-5560	55	60	60	H7/h8
NN-020-6030	60	65	30	H7/h8
NN-020-6040	60	65	40	H7/h8
NN-020-6050	60	65	50	H7/h8
NN-020-6060	60	65	60	H7/h8
NN-020-6070	60	65	70	H7/h8
NN-020-6540	65	70	40	H7/h8
NN-020-6560	65	70	60	H7/h8
NN-020-6570	65	70	70	H7/h8
NN-020-7040	70	75	40	H7/h8
NN-020-7050	70	75	50	H7/h8
NN-020-7060	70	75	60	H7/h8
NN-020-7065	70	75	65	H7/h8
NN-020-7070	70	75	70	H7/h8
NN-020-7080	70	75	80	H7/h8
NN-020-7540	75	80	40	H7/h8
NN-020-7560	75	80	60	H7/h8
NN-020-7580	75	80	80	H7/h8
NN-020-8040	80	85	40	H7/h8
NN-020-8050	80	85	50	H7/h8
NN-020-8060	80	85	60	H7/h8
NN-020-8080	80	85	80	H7/h8
NN-020-80100	80	85	100	H7/h8
NN-020-8540	85	90	40	H7/h8
NN-020-8560	85	90	60	H7/h8
NN-020-8580	85	90	80	H7/h8
NN-020-9040	90	95	40	H7/h8
NN-020-9060	90	95	60	H7/h8
NN-020-9080	90	95	80	H7/h8
NN-020-9090	90	95	90	H7/h8
NN-020-90100	90	95	100	H7/h8
NN-020-95100	95	100	100	H7/h8
NN-020-10050	100	105	50	H7/h8
NN-020-10060	100	105	60	H7/h8
NN-020-10080	100	105	80	H7/h8
NN-020-10095	100	105	95	H7/h8
NN-020-100115	100	105	115	H7/h8
NN-020-105110	105	110	110	H7/h8
NN-020-105115	105	110	115	H7/h8
NN-020-11060	110	115	60	H7/h8
NN-020-110110	110	115	110	H7/h8
NN-020-11550	115	120	50	H7/h8

NN-090

BUSHES:
CuSn8 solid bronze

TYPICAL FEATURES

- Sliding materials made of solid bronze strip with lubrication pockets provided as grease reserves
- Good wear resistance, also for suitable for harsh operations
- Perfectly suited for high loads and low speeds

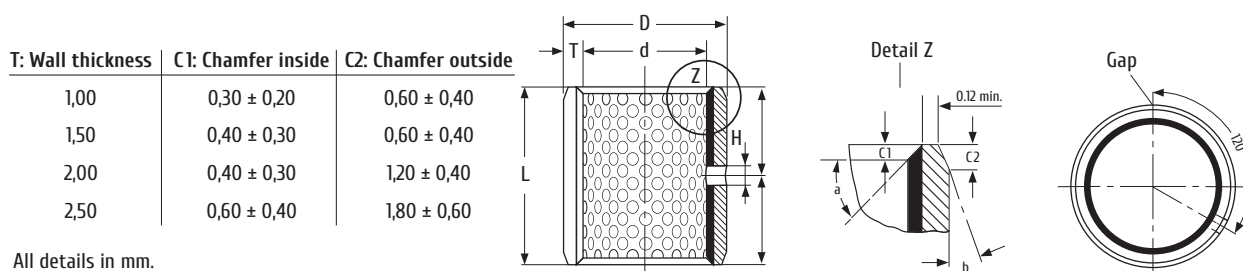
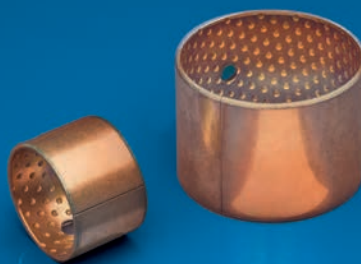
TECHNICAL DATA

Maximum load	Static load:	120 N/mm ²
	Dynamic load:	40 N/mm ²
Maximum Speed	Dry:	2,0 m/s
Maximum PV value	Short-term usage: 2,8 N/mm ² * m/s	
Friction coefficient	0,08 ~ 0,25	
Temperature range	- 100 ~ 200 °C	
Thermal conductivity	60 W/m * k	
Thermal expansion coefficient	15 * 10 ⁻⁶ / K	

NN-090

Bushes, cylindrical

low-maintenance



ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-090-1010	10	12	10	H7/f7
NN-090-1215	12	14	15	H7/f7
NN-090-1415	14	16	15	H7/f7
NN-090-1420	14	16	20	H7/f7
NN-090-1515	15	17	15	H7/f7
NN-090-1525	15	17	25	H7/f7
NN-090-1615	16	18	15	H7/f7
NN-090-1620	16	18	20	H7/f7
NN-090-1625	16	18	25	H7/f7
NN-090-1815	18	21	15	H7/f7
NN-090-1820	18	21	20	H7/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-090-1825	18	21	25	H7/f7
NN-090-2015	20	23	15	H7/f7
NN-090-2020	20	23	20	H7/f7
NN-090-2025	20	23	25	H7/f7
NN-090-2030	20	23	30	H7/f7
NN-090-2215	22	25	15	H7/f7
NN-090-2230	22	25	30	H7/f7
NN-090-2515	25	28	15	H7/f7
NN-090-2525	25	28	25	H7/f7
NN-090-2530	25	28	30	H7/f7
NN-090-2830	28	31	30	H7/f7

NN-090

Bushes, cylindrical

low-maintenance

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-090-3020	30	34	20	H7/f7
NN-090-3030	30	34	30	H7/f7
NN-090-3040	30	34	40	H7/f7
NN-090-3220	32	36	20	H7/f7
NN-090-3230	32	36	30	H7/f7
NN-090-3240	32	36	40	H7/f7
NN-090-3520	35	39	20	H7/f7
NN-090-3530	35	39	30	H7/f7
NN-090-3540	35	39	40	H7/f7
NN-090-4020	40	44	20	H7/f7
NN-090-4030	40	44	30	H7/f7
NN-090-4040	40	44	40	H7/f7
NN-090-4050	40	44	50	H7/f7
NN-090-4530	45	50	30	H7/f7
NN-090-4550	45	50	50	H7/f7
NN-090-5030	50	55	40	H7/f7
NN-090-5040	50	55	40	H7/f7

ARTICLE	DIMENSIONS			TOLERANCE Housing/Studs
	d	D	L	
NN-090-5060	50	55	60	H7/f7
NN-090-5540	55	60	40	H7/f7
NN-090-5560	55	60	60	H7/f7
NN-090-6030	60	65	30	H7/f7
NN-090-6040	60	65	40	H7/f7
NN-090-6060	60	65	60	H7/f7
NN-090-6540	65	70	40	H7/f7
NN-090-7040	70	75	40	H7/f7
NN-090-7080	70	75	80	H7/f7
NN-090-7580	75	80	80	H7/f7
NN-090-8040	80	85	40	H7/f7
NN-090-8080	80	85	80	H7/f7
NN-090-9040	90	95	40	H7/f7
NN-090-9090	90	95	90	H7/f7
NN-090-10050	100	105	50	H7/f7
NN-090-10095	100	105	95	H7/f7



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NN-06

BUSHES:
CuSn6-6-3 sintered bronze

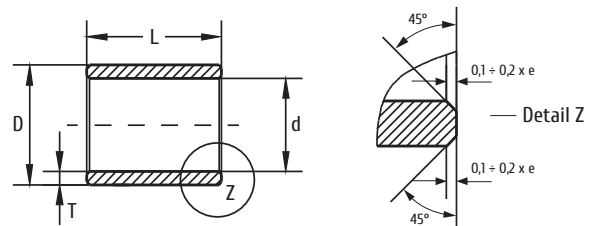
TYPICAL FEATURES

- Similar to DIN 1850
- Sliding materials made of solid bronze strip with lubrication pockets provided as grease reserves
- Optimum bearing performance when utilising low specific load and high sliding speed

TECHNICAL DATA

Maximum load	Static load:	70 N/mm ²
	Dynamic load:	20 N/mm ²
Maximum Speed	6,0 m/s	
Maximum PV value	2,45 N/mm ² * m/s	
Friction coefficient	~ 0,10	
Temperature range	- 20 ~ 100 °C	
Hardness	24 (HB10)	
Tolerance (Housing / Studs)	H7 / f7	

NN-06 Sintered bronze bushes, cylindrical *self-lubricating (oil-soaked)*



ARTICLE	DIMENSIONS		
	d	D	L
NN-06-020502	2	5	2
NN-06-020503	2	5	3
NN-06-030604	3	6	4
NN-06-030605	3	6	5
NN-06-030606	3	6	6
NN-06-030607	3	6	7
NN-06-030608	3	6	8
NN-06-030610	3	6	10
NN-06-040604	4	6	4
NN-06-040605	4	6	5
NN-06-040606	4	6	6
NN-06-040608	4	6	8

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-040610	4	6	10
NN-06-040703	4	7	3
NN-06-040704	4	7	4
NN-06-040706	4	7	6
NN-06-040708	4	7	8
NN-06-040710	4	7	10
NN-06-040712	4	7	12
NN-06-040803	4	8	3
NN-06-040804	4	8	4
NN-06-040805	4	8	5
NN-06-040806	4	8	6
NN-06-040808	4	8	8

NN-06

Sintered bronze bushes, cylindrical

self-lubricating (oil-soaked)

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-040810	4	8	10
NN-06-040812	4	8	12
NN-06-050804	5	8	4
NN-06-050805	5	8	5
NN-06-050808	5	8	8
NN-06-050810	5	8	10
NN-06-050812	5	8	12
NN-06-050815	5	8	15
NN-06-050816	5	8	16
NN-06-050904	5	9	4
NN-06-050905	5	9	5
NN-06-050908	5	9	8
NN-06-050910	5	9	10
NN-06-051005	5	10	5
NN-06-051006	5	10	6
NN-06-051008	5	10	8
NN-06-051010	5	10	10
NN-06-051012	5	10	12
NN-06-051015	5	10	15
NN-06-060904	6	9	4
NN-06-060905	6	9	5
NN-06-060906	6	9	6
NN-06-060908	6	9	8
NN-06-060910	6	9	10
NN-06-060912	6	9	12
NN-06-060915	6	9	15
NN-06-060916	6	9	16
NN-06-061004	6	10	4
NN-06-061005	6	10	5
NN-06-061006	6	10	6
NN-06-061010	6	10	10
NN-06-061012	6	10	12
NN-06-061014	6	10	14
NN-06-061015	6	10	15
NN-06-061016	6	10	16
NN-06-061205	6	12	5
NN-06-061206	6	12	6
NN-06-061208	6	12	8
NN-06-061210	6	12	10
NN-06-061212	6	12	12
NN-06-061215	6	12	15
NN-06-061216	6	12	16
NN-06-071005	7	10	5

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-071008	7	10	8
NN-06-071010	7	10	10
NN-06-071108	7	11	8
NN-06-071110	7	11	10
NN-06-071210	7	12	10
NN-06-071215	7	12	15
NN-06-081006	8	10	6
NN-06-081008	8	10	8
NN-06-081010	8	10	10
NN-06-081012	8	10	12
NN-06-081015	8	10	15
NN-06-081106	8	11	6
NN-06-081108	8	11	8
NN-06-081110	8	11	10
NN-06-081112	8	11	12
NN-06-081116	8	11	16
NN-06-081120	8	11	20
NN-06-081206	8	12	6
NN-06-081208	8	12	8
NN-06-081210	8	12	10
NN-06-081212	8	12	12
NN-06-081215	8	12	15
NN-06-081216	8	12	16
NN-06-081220	8	12	20
NN-06-081408	8	14	8
NN-06-081410	8	14	10
NN-06-081412	8	14	12
NN-06-081415	8	14	15
NN-06-081416	8	14	16
NN-06-081420	8	14	20
NN-06-081510	8	15	10
NN-06-081513	8	15	13
NN-06-081515	8	15	15
NN-06-081608	8	16	8
NN-06-081612	8	16	12
NN-06-081618	8	16	18
NN-06-091206	9	12	67
NN-06-091210	9	12	10
NN-06-091214	9	12	14
NN-06-091310	9	13	10
NN-06-091312	9	13	12
NN-06-091314	9	13	14
NN-06-091410	9	14	10

NN-06

Sintered bronze bushes, cylindrical

self-lubricating (oil-soaked)

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-901412	9	14	12
NN-06-901415	9	14	15
NN-06-901420	9	14	20
NN-06-101310	10	13	10
NN-06-101312	10	13	12
NN-06-101315	10	13	15
NN-06-101316	10	13	16
NN-06-101319	10	13	19
NN-06-101320	10	13	20
NN-06-101325	10	13	25
NN-06-101408	10	14	8
NN-06-101410	10	14	10
NN-06-101412	10	14	12
NN-06-101413	10	14	13
NN-06-101414	10	14	14
NN-06-101415	10	14	15
NN-06-101416	10	14	16
NN-06-101418	10	14	18
NN-06-101420	10	14	20
NN-06-101425	10	14	25
NN-06-101510	10	15	10
NN-06-101512	10	15	12
NN-06-101515	10	15	15
NN-06-101516	10	15	16
NN-06-101520	10	15	20
NN-06-101525	10	15	25
NN-06-101608	10	16	8
NN-06-101610	10	16	10
NN-06-101612	10	16	12
NN-06-101615	10	16	15
NN-06-101616	10	16	16
NN-06-101620	10	16	20
NN-06-101624	10	16	24
NN-06-101625	10	16	25
NN-06-101810	10	18	10
NN-06-101812	10	18	12
NN-06-101815	10	18	15
NN-06-101816	10	18	16
NN-06-101820	10	18	20
NN-06-101825	10	18	25
NN-06-102015	10	20	15
NN-06-102024	10	20	24
NN-06-111510	11	15	10

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-111515	11	15	15
NN-06-111520	11	15	20
NN-06-111525	11	15	25
NN-06-111715	11	17	15
NN-06-111720	11	17	20
NN-06-121410	12	14	10
NN-06-121412	12	14	12
NN-06-121415	12	14	15
NN-06-121416	12	14	16
NN-06-121418	12	14	18
NN-06-121420	12	14	20
NN-06-121510	12	15	10
NN-06-121512	12	15	12
NN-06-121514	12	15	14
NN-06-121515	12	15	15
NN-06-121516	12	15	16
NN-06-121518	12	15	18
NN-06-121520	12	15	20
NN-06-121525	12	15	25
NN-06-121606	12	16	6
NN-06-121608	12	16	8
NN-06-121610	12	16	10
NN-06-121612	12	16	12
NN-06-121615	12	16	15
NN-06-121616	12	16	16
NN-06-121618	12	16	18
NN-06-121620	12	16	20
NN-06-121625	12	16	25
NN-06-121710	12	17	10
NN-06-121712	12	17	12
NN-06-121715	12	17	15
NN-06-121716	12	17	16
NN-06-121720	12	17	20
NN-06-121725	12	17	25
NN-06-121808	12	18	8
NN-06-121809	12	18	9
NN-06-121810	12	18	10
NN-06-121812	12	18	12
NN-06-121815	12	18	15
NN-06-121816	12	18	16
NN-06-121820	12	18	20
NN-06-121825	12	18	25
NN-06-121830	12	18	30



ARTICLE	DIMENSIONS		
	d	D	L
NN-06-122012	12	20	12
NN-06-122015	12	20	15
NN-06-122020	12	20	20
NN-06-122025	12	20	25
NN-06-122030	12	20	30
NN-06-141720	14	17	20
NN-06-141810	14	18	10
NN-06-141814	14	18	14
NN-06-141815	14	18	15
NN-06-141818	14	18	18
NN-06-141820	14	18	20
NN-06-141822	14	18	22
NN-06-141824	14	18	24
NN-06-141825	14	18	25
NN-06-141828	14	18	28
NN-06-142010	14	20	10
NN-06-142012	14	20	12
NN-06-142014	14	20	14
NN-06-142015	14	20	15
NN-06-142018	14	20	18
NN-06-142020	14	20	20
NN-06-142022	14	20	22
NN-06-142025	14	20	25
NN-06-142028	14	20	28
NN-06-142030	14	20	30
NN-06-142215	14	22	15
NN-06-142220	14	22	20
NN-06-142222	14	22	22
NN-06-142225	14	22	25
NN-06-142230	14	22	30
NN-06-151810	15	18	10
NN-06-151815	15	18	15
NN-06-151820	15	18	20
NN-06-151825	15	18	25
NN-06-151830	15	18	30
NN-06-151908	15	19	8
NN-06-151910	15	19	10
NN-06-151915	15	19	15
NN-06-151916	15	19	16
NN-06-151920	15	19	20
NN-06-151925	15	19	25
NN-06-151932	15	19	32
NN-06-152010	15	20	10

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-152012	15	20	12
NN-06-152015	15	20	15
NN-06-152016	15	20	16
NN-06-152020	15	20	20
NN-06-152025	15	20	25
NN-06-152030	15	20	30
NN-06-152110	15	21	10
NN-06-152115	15	21	15
NN-06-152116	15	21	16
NN-06-152120	15	21	20
NN-06-152125	15	21	25
NN-06-152132	15	21	32
NN-06-152215	15	22	15
NN-06-152216	15	22	16
NN-06-152220	15	22	20
NN-06-152225	15	22	25
NN-06-152230	15	22	30
NN-06-161914	16	19	14
NN-06-161915	16	19	15
NN-06-162012	16	20	12
NN-06-162014	16	20	14
NN-06-162015	16	20	15
NN-06-162016	16	20	16
NN-06-162018	16	20	18
NN-06-162020	16	20	20
NN-06-162024	16	20	24
NN-06-162025	16	20	25
NN-06-162030	16	20	30
NN-06-162032	16	20	32
NN-06-162212	16	22	12
NN-06-162215	16	22	15
NN-06-162216	16	22	16
NN-06-162220	16	22	20
NN-06-162225	16	22	25
NN-06-162230	16	22	30
NN-06-162232	16	22	32
NN-06-162235	16	22	35
NN-06-162240	16	22	40
NN-06-162430	16	24	30
NN-06-172215	17	22	15
NN-06-172220	17	22	20
NN-06-172225	17	22	25
NN-06-172230	17	22	30



ARTICLE	DIMENSIONS		
	d	D	L
NN-06-172235	17	22	35
NN-06-182212	18	22	12
NN-06-182213	18	22	13
NN-06-182215	18	22	15
NN-06-182218	18	22	18
NN-06-182220	18	22	20
NN-06-182222	18	22	22
NN-06-182225	18	22	25
NN-06-182228	18	22	28
NN-06-182230	18	22	30
NN-06-182236	18	22	36
NN-06-182412	18	24	12
NN-06-182415	18	24	15
NN-06-182418	18	24	18
NN-06-182420	18	24	20
NN-06-182422	18	24	22
NN-06-182425	18	24	25
NN-06-182428	18	24	28
NN-06-182430	18	24	30
NN-06-182435	18	24	35
NN-06-182436	18	24	36
NN-06-182516	18	25	16
NN-06-182518	18	25	18
NN-06-182520	18	25	20
NN-06-182522	18	25	22
NN-06-182525	18	25	25
NN-06-182528	18	25	28
NN-06-182530	18	25	30
NN-06-182535	18	25	35
NN-06-182536	18	25	36
NN-06-192530	19	25	30
NN-06-192540	19	25	40
NN-06-202410	20	24	10
NN-06-202412	20	24	12
NN-06-202416	20	24	16
NN-06-202420	20	24	20
NN-06-202425	20	24	25
NN-06-202430	20	24	30
NN-06-202432	20	24	32
NN-06-202515	20	25	15
NN-06-202516	20	25	16
NN-06-202520	20	25	20
NN-06-202525	20	25	25

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-202530	20	25	30
NN-06-202532	20	25	32
NN-06-202535	20	25	35
NN-06-202610	20	26	10
NN-06-202615	20	26	15
NN-06-202616	20	26	16
NN-06-202620	20	26	20
NN-06-202625	20	26	25
NN-06-202630	20	26	30
NN-06-202632	20	26	32
NN-06-202635	20	26	35
NN-06-202640	20	26	40
NN-06-202716	20	27	16
NN-06-202720	20	27	20
NN-06-202725	20	27	25
NN-06-202732	20	27	32
NN-06-202816	20	28	16
NN-06-202820	20	28	20
NN-06-202825	20	28	25
NN-06-202830	20	28	30
NN-06-202832	20	28	32
NN-06-202835	20	28	35
NN-06-202840	20	28	40
NN-06-203020	20	30	20
NN-06-203025	20	30	25
NN-06-203030	20	30	30
NN-06-203035	20	30	35
NN-06-203040	20	30	40
NN-06-222620	22	26	20
NN-06-222622	22	26	22
NN-06-222625	22	26	25
NN-06-222630	22	26	30
NN-06-222715	22	27	15
NN-06-222718	22	27	18
NN-06-222720	22	27	20
NN-06-222722	22	27	22
NN-06-222725	22	27	25
NN-06-222728	22	27	28
NN-06-222730	22	27	30
NN-06-222735	22	27	35
NN-06-222736	22	27	36
NN-06-222740	22	27	40
NN-06-222818	22	28	18

NN-06

Sintered bronze bushes, cylindrical

self-lubricating (oil-soaked)

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-222820	22	28	20
NN-06-222822	22	28	22
NN-06-222825	22	28	25
NN-06-222828	22	28	28
NN-06-222830	22	28	30
NN-06-222835	22	28	35
NN-06-222836	22	28	36
NN-06-222840	22	28	40
NN-06-222918	22	29	18
NN-06-222922	22	29	22
NN-06-222928	22	29	28
NN-06-222936	22	29	36
NN-06-223020	22	30	20
NN-06-223025	22	30	25
NN-06-223030	22	30	30
NN-06-223220	22	32	20
NN-06-223222	22	32	22
NN-06-223225	22	32	25
NN-06-223230	22	32	30
NN-06-223235	22	32	35
NN-06-242825	24	28	25
NN-06-242830	24	28	30
NN-06-253020	25	30	20
NN-06-253025	25	30	25
NN-06-253030	25	30	30
NN-06-253032	25	30	32
NN-06-253035	25	30	35
NN-06-253040	25	30	40
NN-06-253220	25	32	20
NN-06-253225	25	32	25
NN-06-253230	25	32	30
NN-06-253232	25	32	32
NN-06-253235	25	32	35
NN-06-253240	25	32	40
NN-06-253245	25	32	45
NN-06-253525	25	35	25
NN-06-253530	25	35	30
NN-06-253535	25	35	35
NN-06-253540	25	35	40
NN-06-253545	25	35	45
NN-06-253550	25	35	50
NN-06-263025	26	30	25
NN-06-263030	26	30	30

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-283220	28	32	20
NN-06-283222	28	32	22
NN-06-283225	28	32	25
NN-06-283228	28	32	28
NN-06-283232	28	32	32
NN-06-283235	28	32	35
NN-06-283236	28	32	36
NN-06-283240	28	32	40
NN-06-283245	28	32	45
NN-06-283320	28	33	20
NN-06-283322	28	33	22
NN-06-283225	28	32	25
NN-06-283328	28	33	28
NN-06-283332	28	33	32
NN-06-283336	28	33	36
NN-06-283340	28	33	40
NN-06-283345	28	33	45
NN-06-283520	28	35	20
NN-06-283525	28	35	25
NN-06-283530	28	35	30
NN-06-283535	28	35	35
NN-06-283540	28	35	40
NN-06-253545	28	35	45
NN-06-253550	28	35	50
NN-06-283622	28	36	22
NN-06-283625	28	36	25
NN-06-283628	28	36	28
NN-06-283635	28	36	35
NN-06-283636	28	36	36
NN-06-283645	28	36	45
NN-06-303520	30	35	20
NN-06-303525	30	35	25
NN-06-303530	30	35	30
NN-06-303535	30	35	35
NN-06-303540	30	35	40
NN-06-303545	30	35	45
NN-06-303550	30	35	50
NN-06-303820	30	38	20
NN-06-303824	30	38	24
NN-06-303825	30	38	25
NN-06-303830	30	38	30
NN-06-303835	30	38	35
NN-06-303838	30	38	38

NN-06

Sintered bronze bushes, cylindrical

self-lubricating (oil-soaked)

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-303840	30	38	40
NN-06-303845	30	38	45
NN-06-303850	30	38	50
NN-06-304020	30	40	20
NN-06-304025	30	40	25
NN-06-304030	30	40	30
NN-06-304035	30	40	35
NN-06-304040	30	40	40
NN-06-304045	30	40	45
NN-06-304050	30	40	50
NN-06-323820	32	38	20
NN-06-323825	32	38	25
NN-06-323832	32	38	32
NN-06-323840	32	38	40
NN-06-323850	32	38	50
NN-06-324020	32	40	20
NN-06-324025	32	40	25
NN-06-324030	32	40	30
NN-06-324032	32	40	32
NN-06-324035	32	40	35
NN-06-324040	32	40	40
NN-06-324045	32	40	45
NN-06-324050	32	40	50
NN-06-354020	35	40	20
NN-06-354025	35	40	25
NN-06-354030	35	40	30
NN-06-354035	35	40	35
NN-06-354040	35	40	40
NN-06-354045	35	40	45
NN-06-354050	35	40	50
NN-06-354422	35	44	22
NN-06-354428	35	44	28
NN-06-354435	35	44	35
NN-06-354525	35	45	25
NN-06-354530	35	45	30
NN-06-354535	35	45	35
NN-06-354540	35	45	40
NN-06-354545	35	45	45
NN-06-354550	35	45	50
NN-06-354560	35	45	60
NN-06-364222	36	42	22
NN-06-364228	36	42	28
NN-06-364236	36	42	36

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-364245	36	42	45
NN-06-364522	36	45	22
NN-06-364528	36	45	28
NN-06-364536	36	45	36
NN-06-364545	36	45	45
NN-06-384425	38	44	25
NN-06-384435	38	44	35
NN-06-384445	38	44	45
NN-06-384630	38	46	30
NN-06-404535	40	45	35
NN-06-404540	40	45	40
NN-06-404545	40	45	45
NN-06-404550	40	45	50
NN-06-404625	40	46	25
NN-06-404630	40	46	30
NN-06-404632	40	46	32
NN-06-404635	40	46	35
NN-06-404637	40	46	37
NN-06-404640	40	46	40
NN-06-404645	40	46	45
NN-06-404650	40	46	50
NN-06-405025	40	50	25
NN-06-405032	40	50	32
NN-06-405040	40	50	40
NN-06-405045	40	50	45
NN-06-405050	40	50	50
NN-06-405060	40	50	60
NN-06-455128	45	51	28
NN-06-455136	45	51	36
NN-06-455145	45	51	45
NN-06-455156	45	51	56
NN-06-455530	45	55	30
NN-06-455535	45	55	35
NN-06-455540	45	55	40
NN-06-455545	45	55	45
NN-06-455550	45	55	50
NN-06-455555	45	55	55
NN-06-455560	45	55	60
NN-06-455565	45	55	65
NN-06-455628	45	56	28
NN-06-455636	45	56	36
NN-06-455645	45	56	45
NN-06-455656	45	56	56



ARTICLE	DIMENSIONS		
	d	D	L
NN-06-456040	45	60	40
NN-06-456045	45	60	45
NN-06-456050	45	60	50
NN-06-456060	45	60	60
NN-06-505632	50	56	32
NN-06-505640	50	56	40
NN-06-505650	50	56	50
NN-06-505663	50	56	63
NN-06-506032	50	60	32
NN-06-506040	50	60	40
NN-06-506045	50	60	45
NN-06-506050	50	60	50
NN-06-506060	50	60	60
NN-06-506063	50	60	63
NN-06-506070	50	60	70
NN-06-556540	55	65	40
NN-06-556555	55	65	55
NN-06-556560	55	65	60
NN-06-556570	55	65	70
NN-06-607050	60	70	50

ARTICLE	DIMENSIONS		
	d	D	L
NN-06-607060	60	70	60
NN-06-607090	60	70	90
NN-06-6070120	60	70	120
NN-06-607250	60	72	50
NN-06-607260	60	72	60
NN-06-607270	60	72	70
NN-06-608070	60	80	70
NN-06-608090	60	80	90
NN-06-6080120	60	80	120
NN-06-637040	63	70	40
NN-06-637050	63	70	50
NN-06-708050	70	80	50
NN-06-708060	70	80	60
NN-06-708090	70	80	90
NN-06-7080120	70	80	120
NN-06-758570	75	85	70
NN-06-8010080	80	100	80
NN-06-80100120	80	100	120
NN-06-10012080	100	120	80
NN-06-100120120	100	120	120



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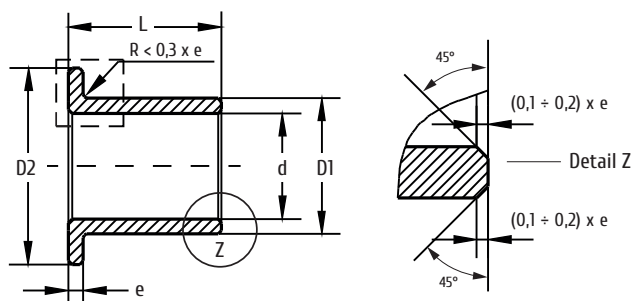
NN-06 F

Sintered bronze flanged bushes *self-lubricating (oil-soaked)*



ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-0306090415	3	6	9	4	1.5
NN-06F-0306090515	3	6	9	5	1.5
NN-06F-0306090615	3	6	9	6	1.5
NN-06F-0306091015	3	6	9	10	1.5
NN-06F-040812042	4	8	12	4	2.0
NN-06F-040812052	4	8	12	5	2.0
NN-06F-040812082	4	8	12	8	2.0
NN-06F-040812102	4	8	12	10	2.0
NN-06F-040812122	4	8	12	12	2.0
NN-06F-061014062	6	10	14	6	2.0
NN-06F-061014102	6	10	14	10	2.0
NN-06F-061014152	6	10	14	15	2.0
NN-06F-061014162	6	10	14	16	2.0
NN-06F-081216062	8	12	16	6	2.0
NN-06F-081216082	8	12	16	8	2.0
NN-06F-081216102	8	12	16	10	2.0
NN-06F-081216122	8	12	16	12	2.0
NN-06F-081216152	8	12	16	15	2.0
NN-06F-081216162	8	12	16	16	2.0
NN-06F-081316152	8	13	16	15	2.0
NN-06F-081418152	8	14	18	15	2.0
NN-06F-081418083	8	14	18	8	3.0
NN-06F-081518102	8	15	18	10	2.0
NN-06F-081518152	8	15	18	15	2.0
NN-06F-0914190625	9	14	19	6	2.5
NN-06F-0914191425	9	14	19	14	2.5
NN-06F-1013160815	10	13	16	8	1.5
NN-06F-1013161015	10	13	16	10	1.5
NN-06F-1013161615	10	13	16	16	1.5
NN-06F-1013162015	10	13	16	20	1.5
NN-06F-1013171025	10	13	17	10	2.5
NN-06F-1013171625	10	13	17	16	2.5
NN-06F-101418102	10	14	18	10	2.0
NN-06F-101418152	10	14	18	15	2.0
NN-06F-101418202	10	14	18	20	2.0
NN-06F-1015201025	10	15	20	10	2.5
NN-06F-1015201625	10	15	20	16	2.5
NN-06F-1015202025	10	15	20	20	2.5
NN-06F-101520103	10	15	20	10	3.0
NN-06F-101520153	10	15	20	15	3.0
NN-06F-101520163	10	15	20	16	3.0
NN-06F-101520203	10	15	20	20	3.0
NN-06F-101622083	10	16	22	8	3.0

ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-101622103	10	16	22	10	3.0
NN-06F-101622163	10	16	22	16	3.0
NN-06F-101622203	10	16	22	20	3.0
NN-06F-12151807515	12	15	18	27.5	1.5
NN-06F-1215181215	12	15	18	12	1.5
NN-06F-1215181615	12	15	18	16	1.5
NN-06F-1215182015	12	15	18	20	1.5
NN-06F-121518082	12	15	18	8	2.0
NN-06F-121518122	12	15	18	12	2.0
NN-06F-121518152	12	15	18	15	2.0
NN-06F-121518162	12	15	18	16	2.0
NN-06F-121518202	12	15	18	20	2.0
NN-06F-121618152	12	16	18	15	2.0
NN-06F-121618202	12	16	18	20	2.0
NN-06F-1217221225	12	17	22	12	2.5
NN-06F-1217221625	12	17	22	16	2.5
NN-06F-1217222025	12	17	22	20	2.5
NN-06F-1217222525	12	17	22	25	2.5
NN-06F-121722103	12	17	22	10	3.0
NN-06F-121722123	12	17	22	12	3.0
NN-06F-121722153	12	17	22	15	3.0
NN-06F-121722163	12	17	22	16	3.0
NN-06F-121722203	12	17	22	20	3.0
NN-06F-121722253	12	17	22	25	3.0
NN-06F-121824203	12	18	24	20	3.0
NN-06F-141822142	14	18	22	14	2.0
NN-06F-141822182	14	18	22	18	2.0
NN-06F-141822222	14	18	22	22	2.0
NN-06F-141822203	14	18	22	20	3.0
NN-06F-142025103	14	20	25	10	3.0
NN-06F-142025143	14	20	25	14	3.0
NN-06F-142025153	14	20	25	15	3.0
NN-06F-142025183	14	20	25	18	3.0
NN-06F-142025203	14	20	25	20	3.0
NN-06F-142025223	14	20	25	22	3.0
NN-06F-142025253	14	20	25	25	3.0
NN-06F-142025283	14	20	25	28	3.0
NN-06F-142025303	14	20	25	30	3.0
NN-06F-142026143	14	20	26	14	3.0
NN-06F-142026183	14	20	26	18	3.0
NN-06F-142026223	14	20	26	22	3.0
NN-06F-142026283	14	20	26	28	3.0
NN-06F-151923162	15	19	23	16	2.0



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ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-151923202	15	19	23	20	2.0
NN-06F-151923252	15	19	23	25	2.0
NN-06F-152025153	15	20	25	15	3.0
NN-06F-152025203	15	20	25	20	3.0
NN-06F-152025253	15	20	25	25	3.0
NN-06F-152025303	15	20	25	30	3.0
NN-06F-152127163	15	21	27	16	3.0
NN-06F-152127203	15	21	27	20	3.0
NN-06F-152127253	15	21	27	25	3.0
NN-06F-152127323	15	21	27	32	3.0
NN-06F-152228123	15	22	28	12	3.0
NN-06F-152228153	15	22	28	15	3.0
NN-06F-162024162	16	20	24	16	2.0
NN-06F-162024202	16	20	24	20	2.0
NN-06F-162024252	16	20	24	25	2.0
NN-06F-162228123	16	22	28	12	3.0
NN-06F-162228153	16	22	28	15	3.0
NN-06F-162228163	16	22	28	16	3.0
NN-06F-162228203	16	22	28	20	3.0
NN-06F-162228253	16	22	28	25	3.0
NN-06F-162228303	16	22	28	30	3.0
NN-06F-162228323	16	22	28	32	3.0
NN-06F-182226182	18	22	26	18	2.0
NN-06F-182226202	18	22	26	20	2.0
NN-06F-182226222	18	22	26	22	2.0
NN-06F-182226282	18	22	26	28	2.0
NN-06F-182430183	18	24	30	18	3.0
NN-06F-182430223	18	24	30	22	3.0
NN-06F-182430283	18	24	30	28	3.0
NN-06F-182430303	18	24	30	30	3.0
NN-06F-182532204	18	25	32	20	4.0
NN-06F-182532254	18	25	32	25	4.0
NN-06F-182532304	18	25	32	30	4.0
NN-06F-182532354	18	25	32	35	4.0
NN-06F-202428102	20	24	28	10	2.0
NN-06F-202428162	20	24	28	16	2.0
NN-06F-202428202	20	24	28	20	2.0
NN-06F-202428252	20	24	28	25	2.0
NN-06F-202632153	20	26	32	15	3.0
NN-06F-202632163	20	26	32	16	3.0
NN-06F-202632203	20	26	32	20	3.0
NN-06F-202632253	20	26	32	25	3.0
NN-06F-202632303	20	26	32	30	3.0

ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-202632323	20	26	32	32	3.0
NN-06F-202835204	20	28	35	20	4.0
NN-06F-202835254	20	28	35	25	4.0
NN-06F-202835304	20	28	35	30	4.0
NN-06F-202835354	20	28	35	35	4.0
NN-06F-2227321825	22	27	32	18	2.5
NN-06F-2227322225	22	27	32	22	2.5
NN-06F-2227322825	22	27	32	28	2.5
NN-06F-222833154	22	28	33	15	4.0
NN-06F-222833204	22	28	33	20	4.0
NN-06F-222833254	22	28	33	25	4.0
NN-06F-222833304	22	28	33	30	4.0
NN-06F-222833354	22	28	33	35	4.0
NN-06F-222833404	22	28	33	40	4.0
NN-06F-222834153	22	28	34	15	3.0
NN-06F-222834203	22	28	34	20	3.0
NN-06F-222834253	22	28	34	25	3.0
NN-06F-222834303	22	28	34	30	3.0
NN-06F-2229361835	22	29	36	18	3.5
NN-06F-2229362235	22	29	36	22	3.5
NN-06F-2229362835	22	29	36	28	3.5
NN-06F-2229363635	22	29	36	36	3.5
NN-06F-2530352025	25	30	35	20	2.5
NN-06F-2530352525	25	30	35	25	2.5
NN-06F-2530353025	25	30	35	30	2.5
NN-06F-2530353225	25	30	35	32	2.5
NN-06F-2532392035	25	32	39	20	3.5
NN-06F-2532392535	25	32	39	25	3.5
NN-06F-2532393235	25	32	39	32	3.5
NN-06F-2532392055	25	32	39	20	5.5
NN-06F-253240204	25	32	40	20	4.0
NN-06F-253240254	25	32	40	25	4.0
NN-06F-253240304	25	32	40	30	4.0
NN-06F-253240324	25	32	40	32	4.0
NN-06F-253240354	25	32	40	35	4.0
NN-06F-253240404	25	32	40	40	4.0
NN-06F-253545165	25	35	45	16	5.0
NN-06F-253545205	25	35	45	20	5.0
NN-06F-253545255	25	35	45	25	5.0
NN-06F-253545305	25	35	45	30	5.0
NN-06F-2833382225	28	33	38	22	2.5
NN-06F-2833382825	28	33	38	28	2.5
NN-06F-2833383625	28	33	38	36	2.5

NN-06 F

Sintered bronze flanged bushes

self-lubricating (oil-soaked)

ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-283644224	28	36	44	22	4.0
NN-06F-283644254	28	36	44	25	4.0
NN-06F-283644284	28	36	44	28	4.0
NN-06F-283644304	28	36	44	30	4.0
NN-06F-283644354	28	36	44	35	4.0
NN-06F-283644364	28	36	44	36	4.0
NN-06F-283644404	28	36	44	40	4.0
NN-06F-303544304	30	35	44	30	4.0
NN-06F-303544354	30	35	44	35	4.0
NN-06F-303544404	30	35	44	40	4.0
NN-06F-303846204	30	38	46	20	4.0
NN-06F-303846254	30	38	46	25	4.0
NN-06F-303846304	30	38	46	30	4.0
NN-06F-304048254	30	40	48	25	4.0
NN-06F-304048304	30	40	48	30	4.0
NN-06F-304048354	30	40	48	35	4.0
NN-06F-304048404	30	40	48	40	4.0
NN-06F-323844203	32	38	44	20	3.0
NN-06F-323844253	32	38	44	25	3.0
NN-06F-323844303	32	38	44	30	3.0
NN-06F-323844323	32	38	44	32	3.0
NN-06F-324048204	32	40	48	20	4.0
NN-06F-324048254	32	40	48	25	4.0
NN-06F-324048304	32	40	48	30	4.0
NN-06F-324048324	32	40	48	32	4.0
NN-06F-324048354	32	40	48	35	4.0
NN-06F-324048404	32	40	48	40	4.0
NN-06F-354555205	35	45	55	20	5.0
NN-06F-354555255	35	45	55	25	5.0
NN-06F-354555305	35	45	55	30	5.0
NN-06F-354555355	35	45	55	35	5.0
NN-06F-354555405	35	45	55	40	5.0
NN-06F-364248223	36	42	48	22	3.0
NN-06F-364248283	36	42	48	28	3.0
NN-06F-364248363	36	42	48	36	3.0
NN-06F-3645542245	36	45	54	22	4.5
NN-06F-3645542845	36	45	54	28	4.5
NN-06F-3645543645	36	45	54	36	4.5
NN-06F-404652253	40	46	52	25	3.0
NN-06F-404652303	40	46	52	30	3.0
NN-06F-404652323	40	46	52	32	3.0
NN-06F-404652353	40	46	52	35	3.0
NN-06F-404652403	40	46	52	40	3.0

ARTICLE	DIMENSIONS				
	d	D1	D2	L	FT
NN-06F-404853405	40	48	53	40	5.0
NN-06F-405060255	40	50	60	25	5.0
NN-06F-405060305	40	50	60	30	5.0
NN-06F-405060325	40	50	60	32	5.0
NN-06F-405060355	40	50	60	35	5.0
NN-06F-405060405	40	50	60	40	5.0
NN-06F-405060505	40	50	60	50	5.0
NN-06F-455157283	45	51	57	28	3.0
NN-06F-455157363	45	51	57	36	3.0
NN-06F-455157453	45	51	57	45	3.0
NN-06F-455565355	45	55	65	35	5.0
NN-06F-455565305	45	55	65	30	5.0
NN-06F-455565355	45	55	65	35	5.0
NN-06F-455565405	45	55	65	40	5.0
NN-06F-455565455	45	55	65	45	5.0
NN-06F-4556672855	45	56	67	28	5.5
NN-06F-4556673655	45	56	67	36	5.5
NN-06F-4556674555	45	56	67	45	5.5
NN-06F-505662303	50	56	62	30	3.0
NN-06F-505662323	50	56	62	32	3.0
NN-06F-505662403	50	56	62	40	3.0
NN-06F-505662503	50	56	62	50	3.0
NN-06F-5060702755	50	60	70	27.5	5.0
NN-06F-506070325	50	60	70	32	5.0
NN-06F-506070355	50	60	70	35	5.0
NN-06F-506070405	50	60	70	40	5.0
NN-06F-506070455	50	60	70	45	5.0
NN-06F-506070505	50	60	70	50	5.0
NN-06F-607080305	60	70	80	30	5.0
NN-06F-607080405	60	70	80	40	5.0
NN-06F-607080455	60	70	80	45	5.0
NN-06F-607080505	60	70	80	50	5.0
NN-06F-607080605	60	70	80	60	5.0
NN-06F-607080406	60	70	80	40	6.0
NN-06F-708595406	70	85	95	40	6.0
NN-06F-708595506	70	85	95	50	6.0
NN-06F-708595606	70	85	95	60	6.0
NN-06F-100120130808	100	120	130	80	8.0



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NN-065

BUSHES:
CuZn25Al6FeMn3

TYPICAL FEATURES

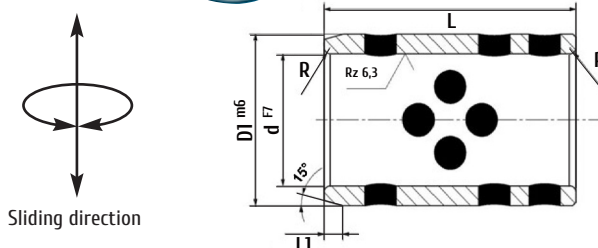
- Maintenance-free, corrosion-resistant, environmentally friendly
- No soiling caused by lubricants
- Especially suitable for oscillating sliding movements
- Long service life

TECHNICAL DATA

Maximum load	100 N/mm ²
Maximum Speed	0,25 m/s
Maximum PV value	3,33 N/mm ² * m/s
Friction coefficient	0,05 ~ 0,12
Temperature range	briefly until 200 °C
Hardness	> 210 (HB10)

NN-065

Maintenance-free slide bearings *with graphite inserts*



ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-081114	8	11	14	1	1	H7/f7
NN-065-081215	8	12	15	1	1	H7/f7
NN-065-081208	8	12	8	1	1	H7/f7
NN-065-081210	8	12	10	1	1	H7/f7
NN-065-081212	8	12	12	1	1	H7/f7
NN-065-081215	8	12	15	1	1	H7/f7
NN-065-101408	10	14	8	1	1	H7/f7
NN-065-101410	10	14	10	1	1	H7/f7
NN-065-101412	10	14	12	1	1	H7/f7
NN-065-101415	10	14	15	1	1	H7/f7
NN-065-101420	10	14	20	1	1	H7/f7
NN-065-101510	10	15	10	1	1	H7/f7
NN-065-121610	12	16	10	2	1	H7/f7
NN-065-121612	12	16	12	2	1	H7/f7
NN-065-121620	12	16	20	2	1	H7/f7

ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-121810	12	18	10	2	1	H7/f7
NN-065-121812	12	18	12	2	1	H7/f7
NN-065-121815	12	18	15	2	1	H7/f7
NN-065-121816	12	18	16	2	1	H7/f7
NN-065-121820	12	18	20	2	1	H7/f7
NN-065-121825	12	18	25	2	1	H7/f7
NN-065-121830	12	18	30	2	1	H7/f7
NN-065-131910	13	19	10	2	1	H7/f7
NN-065-131916	13	19	16	2	1	H7/f7
NN-065-131920	13	19	20	2	1	H7/f7
NN-065-142010	14	20	10	2	1	H7/f7
NN-065-142012	14	20	12	2	1	H7/f7
NN-065-142016	14	20	16	2	1	H7/f7
NN-065-142020	14	20	20	2	1	H7/f7
NN-065-142025	14	20	25	2	1	H7/f7



ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-142030	14	20	30	2	1	H7/f7
NN-065-152110	15	21	10	2	1	H7/f7
NN-065-152112	15	21	12	2	1	H7/f7
NN-065-152115	15	21	15	2	1	H7/f7
NN-065-152120	15	21	20	2	1	H7/f7
NN-065-152125	15	21	25	2	1	H7/f7
NN-065-152130	15	21	30	2	1	H7/f7
NN-065-162016	16	20	16	2	1	H7/f7
NN-065-162020	16	20	20	2	1	H7/f7
NN-065-162025	16	20	25	2	1	H7/f7
NN-065-162028	16	20	28	2	1	H7/f7
NN-065-162210	16	22	10	2	1	H7/f7
NN-065-162212	16	22	12	2	1	H7/f7
NN-065-162215	16	22	15	2	1	H7/f7
NN-065-162216	16	22	16	2	1	H7/f7
NN-065-162220	16	22	20	2	1	H7/f7
NN-065-162225	16	22	25	2	1	H7/f7
NN-065-162230	16	22	30	2	1	H7/f7
NN-065-162235	16	22	35	2	1	H7/f7
NN-065-162240	16	22	40	2	1	H7/f7
NN-065-182412	18	24	12	2	1	H7/f7
NN-065-182415	18	24	15	2	1	H7/f7
NN-065-182416	18	24	16	2	1	H7/f7
NN-065-182418	18	24	18	2	1	H7/f7
NN-065-182420	18	24	20	2	1	H7/f7
NN-065-182425	18	24	25	2	1	H7/f7
NN-065-182430	18	24	30	2	1	H7/f7
NN-065-182435	18	24	35	2	1	H7/f7
NN-065-182440	18	24	40	2	1	H7/f7
NN-065-192615	19	26	15	2	1	H7/f7
NN-065-192620	19	26	20	2	1	H7/f7
NN-065-202615	20	26	15	3	1	H7/f7
NN-065-202620	20	26	20	3	1	H7/f7
NN-065-202625	20	26	25	3	1	H7/f7
NN-065-202630	20	26	30	3	1	H7/f7
NN-065-202810	20	28	10	2	1	H7/f7
NN-065-202812	20	28	12	2	1	H7/f7
NN-065-202815	20	28	15	2	1	H7/f7
NN-065-202816	20	28	16	2	1	H7/f7
NN-065-202820	20	28	20	2	1	H7/f7
NN-065-202825	20	28	25	2	1	H7/f7
NN-065-202830	20	28	30	2	1	H7/f7
NN-065-202835	20	28	35	2	1	H7/f7

ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-202840	20	28	40	2	1	H7/f7
NN-065-202850	20	28	50	2	1	H7/f7
NN-065-203016	20	30	16	2	1	H7/f7
NN-065-203020	20	30	20	2	1	H7/f7
NN-065-203025	20	30	25	2	1	H7/f7
NN-065-203030	20	30	30	2	1	H7/f7
NN-065-203035	20	30	35	2	1	H7/f7
NN-065-203040	20	30	40	2	1	H7/f7
NN-065-203050	20	30	50	2	1	H7/f7
NN-065-223212	22	32	12	3	2	H7/f7
NN-065-223215	22	32	15	3	2	H7/f7
NN-065-223220	22	32	20	3	2	H7/f7
NN-065-223225	22	32	25	3	2	H7/f7
NN-065-253020	25	30	20	3	2	H7/f7
NN-065-253312	25	33	12	3	2	H7/f7
NN-065-253316	25	33	16	3	2	H7/f7
NN-065-253320	25	33	20	3	2	H7/f7
NN-065-253325	25	33	25	3	2	H7/f7
NN-065-253330	25	33	30	3	2	H7/f7
NN-065-253335	25	33	35	3	2	H7/f7
NN-065-253340	25	33	40	3	2	H7/f7
NN-065-253350	25	33	50	3	2	H7/f7
NN-065-253360	25	33	60	3	2	H7/f7
NN-065-253512	25	35	12	3	2	H7/f7
NN-065-253516	25	35	16	3	2	H7/f7
NN-065-253520	25	35	20	3	2	H7/f7
NN-065-253525	25	35	25	3	2	H7/f7
NN-065-253530	25	35	30	3	2	H7/f7
NN-065-253535	25	35	35	3	2	H7/f7
NN-065-253540	25	35	40	3	2	H7/f7
NN-065-253550	25	35	50	3	2	H7/f7
NN-065-253560	25	35	60	3	2	H7/f7
NN-065-303815	30	38	15	3	2	H7/f7
NN-065-303820	30	38	20	3	2	H7/f7
NN-065-303825	30	38	25	3	2	H7/f7
NN-065-303830	30	38	30	3	2	H7/f7
NN-065-303835	30	38	35	3	2	H7/f7
NN-065-303840	30	38	40	3	2	H7/f7
NN-065-303845	30	38	45	3	2	H7/f7
NN-065-303850	30	38	50	3	2	H7/f7
NN-065-303860	30	38	60	3	2	H7/f7
NN-065-304020	30	40	20	3	2	H7/f7
NN-065-304025	30	40	25	3	2	H7/f7

NN-065 Maintenance-free slide bearings *with graphite inserts*

ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-304030	30	40	30	3	2	H7/f7
NN-065-304035	30	40	35	3	2	H7/f7
NN-065-304040	30	40	40	3	2	H7/f7
NN-065-304050	30	40	50	3	2	H7/f7
NN-065-304060	30	40	60	3	2	H7/f7
NN-065-304540	30	45	40	3	2	H7/f7
NN-065-314030	31	40	30	3	2	H7/f7
NN-065-314040	31	40	40	3	2	H7/f7
NN-065-324230	32	42	30	3	2	H7/f7
NN-065-324240	32	42	40	3	2	H7/f7
NN-065-354425	35	44	25	3	2	H7/f7
NN-065-354430	35	44	30	3	2	H7/f7
NN-065-354435	35	44	35	3	2	H7/f7
NN-065-354440	35	44	40	3	2	H7/f7
NN-065-354450	35	44	50	3	2	H7/f7
NN-065-354460	35	44	60	3	2	H7/f7
NN-065-354520	35	45	20	3	2	H7/f7
NN-065-354525	35	45	25	3	2	H7/f7
NN-065-354530	35	45	30	3	2	H7/f7
NN-065-354535	35	45	35	3	2	H7/f7
NN-065-354540	35	45	40	3	2	H7/f7
NN-065-354545	35	45	45	3	2	H7/f7
NN-065-354550	35	45	50	3	2	H7/f7
NN-065-354560	35	45	60	3	2	H7/f7
NN-065-3545100	35	45	100	3	2	H7/f7
NN-065-384830	38	48	30	3	2	H7/f7
NN-065-384840	38	48	40	3	2	H7/f7
NN-065-405020	40	50	20	3	2	H7/f7
NN-065-405025	40	50	25	3	2	H7/f7
NN-065-405030	40	50	30	3	2	H7/f7
NN-065-405035	40	50	35	3	2	H7/f7
NN-065-405040	40	50	40	3	2	H7/f7
NN-065-405050	40	50	50	3	2	H7/f7
NN-065-405060	40	50	60	3	2	H7/f7
NN-065-405080	40	50	80	3	2	H7/f7
NN-065-405525	40	55	25	3	2	H7/f7
NN-065-445530	40	55	30	3	2	H7/f7
NN-065-445535	40	55	35	3	2	H7/f7
NN-065-445540	40	55	40	3	2	H7/f7
NN-065-405550	40	55	50	3	2	H7/f7
NN-065-445560	40	55	60	3	2	H7/f7
NN-065-455530	45	55	30	3	2	H7/f7
NN-065-455535	45	55	35	3	2	H7/f7

ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-455540	45	55	40	3	2	H7/f7
NN-065-455550	45	55	50	3	2	H7/f7
NN-065-455560	45	55	60	3	2	H7/f7
NN-065-4555110	45	55	110	3	2	H7/f7
NN-065-455630	45	56	30	3	2	H7/f7
NN-065-455635	45	56	35	3	2	H7/f7
NN-065-455640	45	56	40	3	2	H7/f7
NN-065-455650	45	56	50	3	2	H7/f7
NN-065-455660	45	56	60	3	2	H7/f7
NN-065-456030	45	60	30	3	2	H7/f7
NN-065-456040	45	60	40	3	2	H7/f7
NN-065-456050	45	60	50	3	2	H7/f7
NN-065-456060	45	60	60	3	2	H7/f7
NN-065-456070	45	60	70	3	2	H7/f7
NN-065-456080	45	60	80	3	2	H7/f7
NN-065-506030	50	60	30	3	2	H7/f7
NN-065-506035	50	60	35	3	2	H7/f7
NN-065-506040	50	60	40	3	2	H7/f7
NN-065-506050	50	60	50	3	2	H7/f7
NN-065-506060	50	60	60	3	2	H7/f7
NN-065-506070	50	60	70	3	2	H7/f7
NN-065-506080	50	60	80	3	2	H7/f7
NN-065-506230	50	62	30	3	2	H7/f7
NN-065-506235	50	62	35	3	2	H7/f7
NN-065-506240	50	62	40	3	2	H7/f7
NN-065-506250	50	62	50	3	2	H7/f7
NN-065-506260	50	62	60	3	2	H7/f7
NN-065-506270	50	62	70	3	2	H7/f7
NN-065-506280	50	62	80	3	2	H7/f7
NN-065-506530	50	65	30	3	2	H7/f7
NN-065-506550	50	65	50	3	2	H7/f7
NN-065-506560	50	65	60	3	2	H7/f7
NN-065-506570	50	65	70	3	2	H7/f7
NN-065-506580	50	65	80	3	2	H7/f7
NN-065-506580	50	65	80	3	2	H7/f7
NN-065-5065100	50	65	100	3	2	H7/f7
NN-065-557040	55	70	40	3	2	H7/f7
NN-065-557050	55	70	50	3	2	H7/f7
NN-065-557060	55	70	60	3	2	H7/f7
NN-065-557070	55	70	70	3	2	H7/f7
NN-065-607050	60	70	50	4	3	H7/f7
NN-065-607430	60	74	30	4	3	H7/f7
NN-065-607435	60	74	35	4	3	H7/f7

NN-065

Maintenance-free slide bearings

with graphite inserts

ARTICLE	DIMENSIONS					TOLERANZ Gehäuse / Zapfen
	d	D1	L	L1	R	
NN-065-607440	60	74	40	4	3	H7/f7
NN-065-607445	60	74	45	4	3	H7/f7
NN-065-607450	60	74	50	4	3	H7/f7
NN-065-607460	60	74	60	4	3	H7/f7
NN-065-607470	60	74	70	4	3	H7/f7
NN-065-607480	60	74	80	4	3	H7/f7
NN-065-607530	60	75	30	4	3	H7/f7
NN-065-607535	60	75	35	4	3	H7/f7
NN-065-607540	60	75	40	4	3	H7/f7
NN-065-607550	60	75	50	4	3	H7/f7
NN-065-607560	60	75	60	4	3	H7/f7
NN-065-607570	60	75	70	4	3	H7/f7
NN-065-607580	60	75	80	4	3	H7/f7
NN-065-6075100	60	75	100	4	3	H7/f7
NN-065-637560	63	75	60	4	3	H7/f7
NN-065-637570	63	75	70	4	3	H7/f7
NN-065-637580	63	75	80	4	3	H7/f7
NN-065-658050	65	80	50	4	3	H7/f7
NN-065-658060	65	80	60	4	3	H7/f7
NN-065-658070	65	80	70	4	3	H7/f7
NN-065-658080	65	80	80	4	3	H7/f7
NN-065-708535	70	85	35	4	3	H7/f7
NN-065-708540	70	85	40	4	3	H7/f7
NN-065-708550	70	85	50	4	3	H7/f7
NN-065-708560	70	85	60	4	3	H7/f7
NN-065-708570	70	85	70	4	3	H7/f7
NN-065-708580	70	85	80	4	3	H7/f7
NN-065-7085100	70	85	100	4	3	H7/f7
NN-065-709040	70	90	40	4	3	H7/f7
NN-065-709050	70	90	50	4	3	H7/f7
NN-065-709060	70	90	60	4	3	H7/f7
NN-065-709070	70	90	70	4	3	H7/f7
NN-065-709080	70	90	80	4	3	H7/f7
NN-065-759060	75	90	60	4	3	H7/f7
NN-065-759070	75	90	70	4	3	H7/f7
NN-065-759080	75	90	80	4	3	H7/f7
NN-065-7590100	75	90	100	4	3	H7/f7
NN-065-759560	75	95	60	4	3	H7/f7
NN-065-759570	75	95	70	4	3	H7/f7
NN-065-759580	75	95	80	4	3	H7/f7
NN-065-7595100	75	95	100	4	3	H7/f7
NN-065-809640	80	96	40	4	3	H7/f7
NN-065-809650	80	96	50	4	3	H7/f7

ARTICLE	DIMENSIONS					TOLERANCE Housing/Studs
	d	D1	L	L1	R	
NN-065-809660	80	96	60	4	3	H7/f7
NN-065-809670	80	96	70	4	3	H7/f7
NN-065-809680	80	96	80	4	3	H7/f7
NN-065-8096100	80	96	100	4	3	H7/f7
NN-065-8096120	80	96	120	4	3	H7/f7
NN-065-8010040	80	100	40	4	3	H7/f7
NN-065-8010050	80	100	50	4	3	H7/f7
NN-065-8010060	80	100	60	4	3	H7/f7
NN-065-8010070	80	100	70	4	3	H7/f7
NN-065-8010080	80	100	80	4	3	H7/f7
NN-065-80100100	80	100	100	4	3	H7/f7
NN-065-80100120	80	100	120	4	3	H7/f7
NN-065-80100140	80	100	140	4	3	H7/f7
NN-065-9011050	90	110	50	4	3	H7/f7
NN-065-9011060	90	110	60	4	3	H7/f7
NN-065-9011070	90	110	70	4	3	H7/f7
NN-065-9011080	90	110	80	4	3	H7/f7
NN-065-90110100	90	110	100	4	3	H7/f7
NN-065-90110120	90	110	120	4	3	H7/f7
NN-065-10012060	100	120	60	4	3	H7/f7
NN-065-10012070	100	120	70	4	3	H7/f7
NN-065-10012080	100	120	80	4	3	H7/f7
NN-065-100120100	100	120	100	4	3	H7/f7
NN-065-100120120	100	120	120	4	3	H7/f7
NN-065-100120140	100	120	140	4	3	H7/f7
NN-065-11013080	110	130	80	4	3	H7/f7
NN-065-110130100	110	130	100	4	3	H7/f7
NN-065-110120120	110	120	120	4	3	H7/f7
NN-065-12014080	120	140	80	4	3	H7/f7
NN-065-120140100	120	140	100	4	3	H7/f7
NN-065-120140120	120	140	120	4	3	H7/f7
NN-065-120140140	120	140	140	4	3	H7/f7
NN-065-125145100	125	145	100	4	3	H7/f7
NN-065-125145120	125	145	120	4	3	H7/f7
NN-065-130150100	130	150	100	4	3	H7/f7
NN-065-130150120	130	150	120	4	3	H7/f7
NN-065-130150130	130	150	130	4	3	H7/f7
NN-065-140160100	140	160	100	4	3	H7/f7
NN-065-140160140	140	160	140	4	3	H7/f7
NN-065-150170100	150	170	100	4	3	H7/f7
NN-065-150170150	150	170	150	4	3	H7/f7
NN-065-160180100	160	180	100	4	3	H7/f7
NN-065-160180150	160	180	150	4	3	H7/f7

NN-065 F

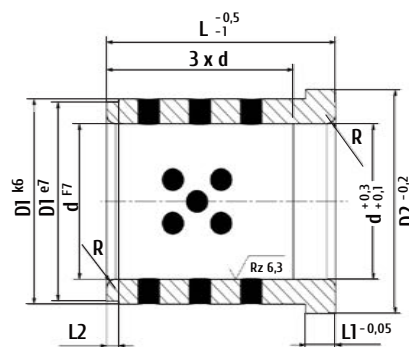
Maintenance-free slide bearings with flange *with graphite inserts*



**NÖLLE +
NORDHORN**

Member of DEXIS Europe

Sliding direction



ARTICLE	DIMENSIONS						
	d	D1	D2	L	L1	L2	R
NN-065F-101422152	10	14	22	15	2	2	1
NN-065F-101422202	10	14	22	20	2	2	1
NN-065F-121825153	12	18	25	15	3	3	1
NN-065F-121825203	12	18	25	20	3	3	1
NN-065F-131926153	13	19	26	15	3	3	1,5
NN-065F-131926203	13	19	26	20	3	3	1,5
NN-065F-142027153	14	20	27	15	3	3	1,5
NN-065F-142027203	14	20	27	20	3	3	1,5
NN-065F-152128153	15	21	28	15	3	3	1,5
NN-065F-152128203	15	21	28	20	3	3	1,5
NN-065F-152128253	15	21	28	25	3	3	1,5
NN-065F-162229153	16	22	29	15	3	3	1,5
NN-065F-162229203	16	22	29	20	3	3	1,5
NN-065F-162229253	16	22	29	25	3	3	1,5
NN-065F-203040155	20	30	40	15	5	3	1,5
NN-065F-162229303	16	22	29	30	3	3	1,5
NN-065F-203040205	20	30	40	20	5	3	1,5
NN-065F-203040305	20	30	40	30	5	3	1,5
NN-065F-203040405	20	30	40	40	5	3	1,5
NN-065F-253545205	25	35	45	20	5	3	2
NN-065F-253545255	25	35	45	25	5	3	2
NN-065F-253545305	25	35	45	30	5	3	2
NN-065F-253545355	25	35	45	35	5	3	2
NN-065F-253545405	25	35	45	40	5	3	2
NN-065F-304050205	30	40	50	20	5	3	2
NN-065F-304050255	30	40	50	25	5	3	2
NN-065F-304050305	30	40	50	30	5	3	2
NN-065F-304050355	30	40	50	35	5	3	2
NN-065F-304050405	30	40	50	40	5	3	2
NN-065F-304050505	30	40	50	50	5	3	2
NN-065F-3154050305	31,5	40	50	30	5	3	2
NN-065F-354560255	35	45	60	25	5	4	2

ARTICLE	DIMENSIONS						
	d	D1	D2	L	L1	L2	R
NN-065F-354560305	35	45	60	30	5	4	2
NN-065F-354560405	35	45	60	40	5	4	2
NN-065F-354560505	35	45	60	50	5	4	2
NN-065F-405065305	40	50	65	30	5	4	2
NN-065F-405065405	40	50	65	40	5	4	2
NN-065F-405065505	40	50	65	50	5	4	2
NN-065F-455570305	45	55	70	30	5	4	2
NN-065F-455570405	45	55	70	40	5	4	2
NN-065F-455570505	45	55	70	50	5	4	2
NN-065-455570605	45	55	70	60	5	4	2
NN-065F-506075305	50	60	75	30	5	4	2
NN-065F-506075405	50	60	75	40	5	4	2
NN-065F-506075505	50	60	75	50	5	4	2
NN-065F-506075605	50	60	75	60	5	4	2
NN-065F-556580405	55	65	80	40	5	4	2
NN-065F-556580605	55	65	80	60	5	4	2
NN-065F-6075904075	60	75	90	40	7,5	4	3
NN-065F-6075905075	60	75	90	50	7,5	4	3
NN-065F-6075908075	60	75	90	80	7,5	4	3
NN-065F-63758567575	63	75	85	67,5	7,5	4	3
NN-065F-70851055075	70	85	105	50	7,5	4	3
NN-065F-70851058075	70	85	105	80	7,5	4	3
NN-065F-75901106075	75	90	110	60	7,5	4	3
NN-065F-801001206010	80	100	120	60	10	5	3
NN-065F-801001208010	80	100	120	80	10	5	3
NN-065F-8010012010010	80	100	120	100	10	5	3
NN-065F-901101306010	90	110	130	60	10	5	3
NN-065F-901101308010	90	110	130	80	10	5	3
NN-065F-1001201508010	100	120	150	80	10	5	3
NN-065F-10012015010010	100	120	150	100	10	5	3
NN-065F-1201401708010	120	140	170	80	10	5	3
NN-065F-12014017010010	120	140	170	100	10	5	3

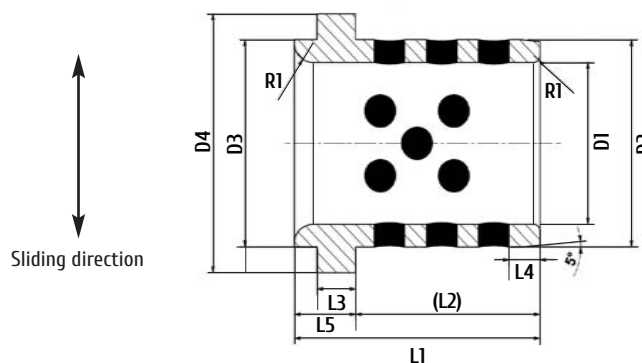
NN-065 F according to DIN 9834

Maintenance-free slide bearings with flange *with graphite inserts*



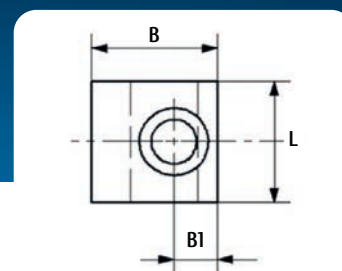
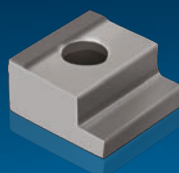
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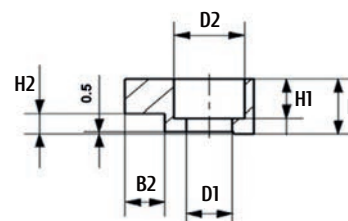


ARTICLE	DIMENSIONS										Associated clamp Ident number
	D1 H7	D2 H6	D3 -0,25	D4 -0,8	L1 -0,5 -1	L3 +0,1	L4 +1	L5 -0,5	(L2) -0,8	R1	
NN-065F-2532403263	25	32	32	40	32	6,3	4		22	3	19798 / 19784 / 19785
NN-065F-2532404063	25	32	32	40	40	6,3	3	10		3	19798 / 19784 / 19785
NN-065F-2532404063	25	32	32	40	40	6,3	4		32	3	19798 / 19784 / 19785
NN-065F-2432404063	24	32	32	40	40	6,3	4		32	3	19798 / 19784 / 19785
NN-065F-3240505063	32	40	40	50	50	6,3	4	12		3	19798 / 19784 / 19785
NN-065F-4050636363	40	50	50	63	63	6,3	5	15		3	19798 / 19784 / 19785
NN-065F-5063717163	50	63	63	71	71	6,3	6,3	17		5	19798 / 19784 / 19785
NN-065F-6380908010	63	80	80	90	80	10	8	19		6	19799
NN-065F-8010011210010	80	100	100	112	100	10	10	22		8	19799
NN-065F-10012514012510	100	125	125	140	125	10	12,5		100	10	19799
NN-065F-10012514012510	100	125	125	140	125	10	12,5	21		10	19799
NN-065F-12516018018010	125	160	160	180	180	10	16	30		12	19799
NN-065F-16020022020010	160	200	200	220	200	10	16	32		18	19799

Clamps



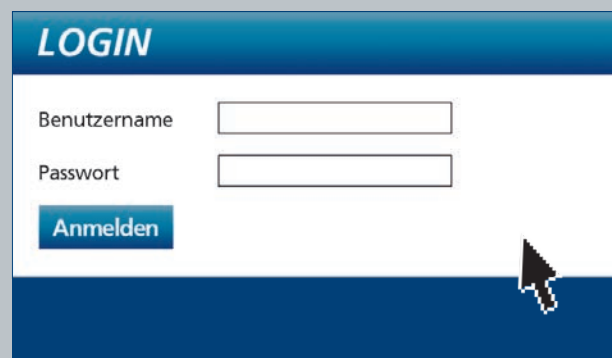
ARTICLE	DIMENSIONS								
	B H9	L 0 -0,4	H H11	B1	B2 +0,3 0	H1 +0,2 0	H2 0 -0,3	D1 +0,2 0	D2 +0,2 0
Clamp 19798	20	20	10	7,5	5	7	6,3	7	11
Clamp 19799	32	32	16	1	10	11,5	10	11,5	17,5
Clamp 19784	25	20	12	10	5	8,5	6,3	9	15
Clamp 19785	32	25	16	11	10	11,5	6,3	11	18



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The screenshot shows a login interface with a blue header bar containing the word "LOGIN" in white. Below the header, there are two input fields: "Benutzername" (Username) and "Passwort" (Password). A blue button labeled "Anmelden" (Login) is positioned below the password field. A mouse cursor is visible at the bottom right of the form area.

LOGIN	
Benutzername	
Passwort	
Anmelden	

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An overview of our business areas



PNEUMATIC



HYDRAULIC



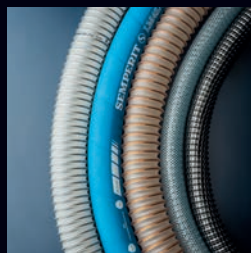
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