



GLYCODUR®
RB and RS

The GLYCODUR® RB and GLYCODUR® RS sliding bearings are based on the tried and tested GLYCODUR® sliding bearings. However, through the use of a bronze backing (RB) or stainless steel backing (RS), they offer optimum heat conductivity and resistance to corrosion.





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1.1 Composition

Sliding bearing material

GLYCODUR® RB and GLYCODUR® RS compliment the proven lead free GLYCODUR® sliding bearings with an important new characteristic: they are corrosion resistant.

Whereas the GLYCODUR® sliding bearings have a copper plated steel backing (see also: GLYCODUR® sliding bearing catalogue), the GLYCODUR® RB and GLYCODUR® RS use different backing materials.



GLYCODUR® RB

GLYCODUR® RB sliding bearings have a bronze backing which makes them corrosion resistant. At the same time they have particularly good heat

conductivity compared to GLYCODUR® F sliding bearings. If heat is generated by the application, it can be dissipated better through the bearing into the housing.

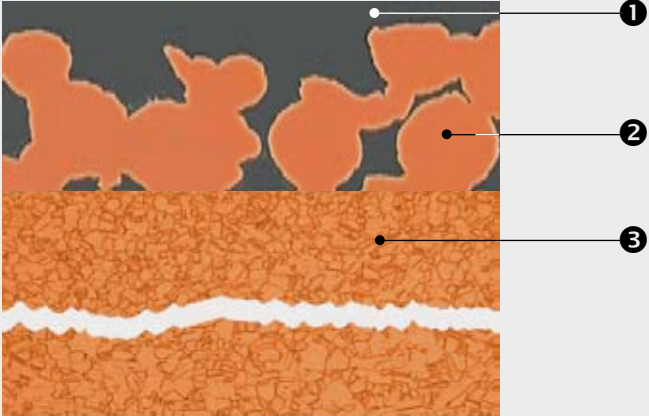


GLYCODUR® RS

GLYCODUR® RS sliding bearings have a stainless steel backing, which is very corrosion resistant. They are suitable

for all applications where it is important to avoid corrosion (the food industry for instance).

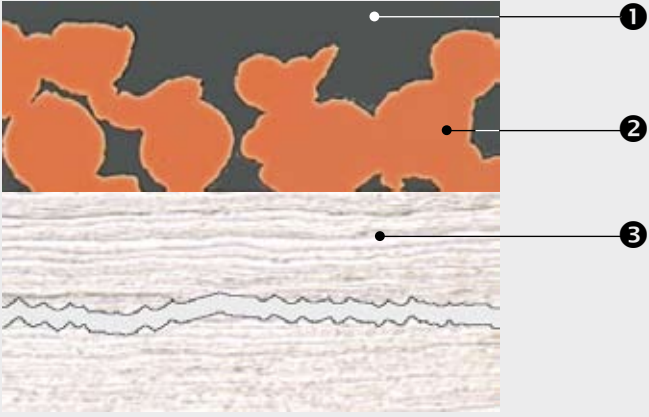
GLYCODUR® RB



- 1 Polytetrafluorethylene (PTFE) and additives
- 2 Tin bronze
- 3 Bronze backing

Figure 1.1.1 – Microsection GLYCODUR® RB

GLYCODUR® RS



- 1 Polytetrafluorethylene (PTFE) and additives
- 2 Tin bronze
- 3 Stainless steel backing

Figure 1.1.2 – Microsection GLYCODUR® RS

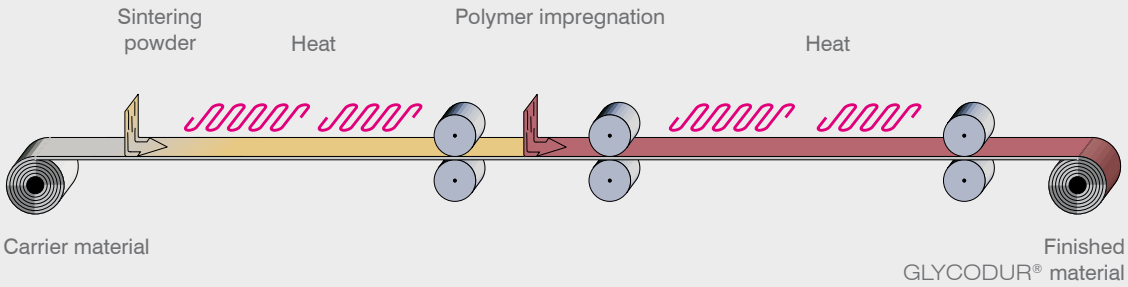


Figure 1.1.3 – Scheme production process

1.2 Characteristics summary of GLYCODUR® RB and GLYCODUR® RS

Properties	GLYCODUR® RB and GLYCODUR® RS
Construction	Bronze backing (RB) / stainless-steel backing (RS) with sintered layer of tin bronze. Pore filling and covering layer (5 to 30 μm) of PTFE with friction reducing additives
Permissible static specific bearing load	250 MPa
Permissible dynamic specific load	80 MPa
Maximum sliding velocity	2 m/s
Operating temperature	-200 to 260 °C
Coefficient of friction	0.03 to 0.25
Stick-slip	negligible
Wear layer thickness	0.2 mm
Lubrication	not required
Ability to support edge loads (e.g. resulting from misalignment)	fair
Ability to embed dirt and foreign particles	fair
Ability to carry alternating loads	good
Ability to accommodate linear movement	fair
Machining of sliding surface after mounting	calibration

Lubrication	Friction	Wear resistance	Load capacity
GLYCODUR® RB and GLYCODUR® RS			
Dry	●	●	●
Oil	●●●	●	●

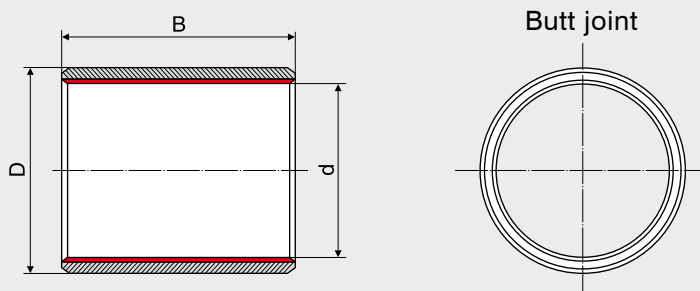
- Limited applicable ● Standard ●● Superior ●●● Excellent

2.1 Dimension table GLYCODUR® RB bushings

Dimension			Mass	Designation
d	D	B		
mm	mm	mm	g	
3	4.5	3	0.20	PG 030403 RB/4.5
4	5.5	4	0.30	PG 040504 RB/5.5
	5.5	6	0.60	PG 040506 RB/5.5
5	7	5	0.70	PG 050705 RB
	7	8	1.10	PG 050708 RB
6	8	6	1.00	PG 060806 RB
	8	10	1.60	PG 060810 RB
8	10	8	1.70	PG 081008 RB
	10	12	2.50	PG 081012 RB
10	12	10	2.50	PG 101210 RB
	12	15	3.80	PG 101215 RB
	12	20	5.10	PG 101220 RB
12	14	10	3.00	PG 121410 RB
	14	12	3.60	PG 121412 RB
	14	15	4.50	PG 121415 RB
	14	25	7.60	PG 121425 RB
14	16	10	3.50	PG 141610 RB
	16	15	5.20	PG 141615 RB
	16	25	8.70	PG 141625 RB
15	17	15	5.60	PG 151715 RB
	17	25	9.30	PG 151725 RB
16	18	15	5.90	PG 161815 RB
	18	25	9.90	PG 161825 RB
18	20	20	8.80	PG 182020 RB
	20	25	11.00	PG 182025 RB
20	23	15	11.00	PG 202315 RB
	23	20	15.00	PG 202320 RB
	23	30	23.00	PG 202330 RB
22	25	15	12.00	PG 222515 RB
	25	20	16.00	PG 222520 RB
	25	30	25.00	PG 222530 RB

Dimension			Mass	Designation
d	D	B		
mm	mm	mm	g	
24	27	15	13.00	PG 242715 RB
	27	30	26.00	PG 242730 RB
25	28	15	14.00	PG 252815 RB
	28	25	23.00	PG 252825 RB
30	34	20	30.00	PG 303420 RB
	34	30	45.00	PG 303430 RB
	34	40	60.00	PG 303440 RB
35	39	20	34.00	PG 353920 RB
	39	30	52.00	PG 353930 RB
40	44	30	59.00	PG 404430 RB
	44	50	98.00	PG 404450 RB
45	50	30	83.00	PG 455030 RB
	50	50	140.00	PG 455050 RB
50	55	30	93.00	PG 505530 RB
	55	60	185.00	PG 505560 RB
55	60	40	135.00	PG 556040 RB
60	65	40	145.00	PG 606540 RB
	65	60	220.00	PG 606560 RB
	65	70	255.00	PG 606570 RB
70	75	50	210.00	PG 707550 RB
	75	70	300.00	PG 707570 RB
75	80	80	365.00	PG 758080 RB
80	85	60	290.00	PG 808560 RB
	85	100	485.00	PG 8085100 RB
85	90	100	510.00	PG 8590100 RB
90	95	60	325.00	PG 909560 RB
	95	100	540.00	PG 9095100 RB
95	100	100	570.00	PG 95100100 RB
100	105	60	360.00	PG 10010560 RB
	105	115	690.00	PG 100105115 RB

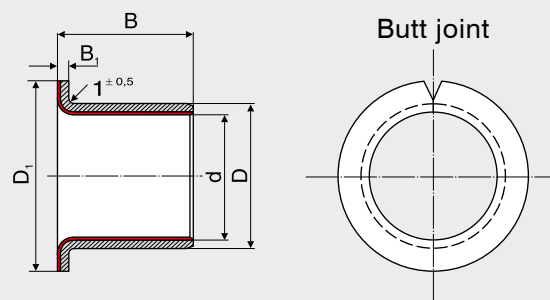
Delivery of special shapes and sizes on request if the batches are large enough to be economical.



2.2 Dimension table GLYCODUR® RB flanged bushings

Dimension					Mass	Designation
d	D	D ₁	B	B ₁		
mm	mm	mm	mm	mm	g	
5	7	11.5	4	1	1.10	PBG 050704 RB
6	8	12	8	1	1.90	PBG 060808 RB
8	10	15	5.5	1	2.10	PBG 081005.5 RB
	10	15	9.5	1	2.90	PBG 081009.5 RB
10	12	18	7	1	3.10	PBG 101207 RB
	12	18	12	1	4.30	PBG 101212 RB
12	14	20	7	1	3.60	PBG 121407 RB
	14	20	9	1	4.20	PBG 121409 RB
	14	20	12	1	5.10	PBG 121412 RB
14	16	22	17	1	7.50	PBG 141617 RB
15	17	23	12	1	6.20	PBG 151712 RB
	17	23	17	1	7.60	PBG 151717 RB
16	18	24	12	1	6.20	PBG 161812 RB
	18	24	17	1	8.10	PBG 161817 RB
18	20	26	12	1	7.30	PBG 182012 RB
	20	26	22	1	12.00	PBG 182022 RB
20	23	30	11.5	1.5	13.00	PBG 202311.5 RB
	23	30	21.5	1.5	21.00	PBG 202321.5 RB
25	28	35	11.5	1.5	16.00	PBG 252811.5 RB
	28	35	21.5	1.5	25.00	PBG 252821.5 RB
30	34	42	16	2	35.00	PBG 303416 RB
	34	42	26	2	50.00	PBG 303426 RB
35	39	47	26	2	61.00	PBG 353926 RB

Delivery of special shapes and sizes on request
if the batches are large enough to be economical.



3.1 Dimension table GLYCODUR® RS bushings

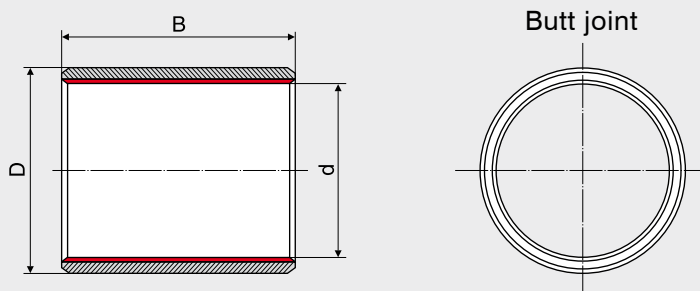
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GLYCODUR®
RS

Dimension			Mass	Designation
d	D	B		
mm	mm	mm	g	
5	7	5	0.70	PG 050705 RS
	7	8	1.10	PG 050708 RS
6	8	6	1.00	PG 060806 RS
8	10	8	1.70	PG 081008 RS
	10	12	2.50	PG 081012 RS
10	12	10	2.50	PG 101210 RS
	12	15	3.80	PG 101215 RS
	12	20	5.10	PG 101220 RS
12	14	10	3.00	PG 121410 RS
	14	12	3.60	PG 121412 RS
	14	15	4.50	PG 121415 RS
	14	25	7.60	PG 121425 RS
14	16	10	3.50	PG 141610 RS
	16	15	5.20	PG 141615 RS
	16	25	8.70	PG 141625 RS
15	17	15	5.60	PG 151715 RS
	17	25	9.30	PG 151725 RS
16	18	15	5.90	PG 161815 RS
	18	25	9.90	PG 161825 RS
18	20	20	8.80	PG 182020 RS
	20	25	11.00	PG 182025 RS
20	23	15	11.00	PG 202315 RS
	23	20	15.00	PG 202320 RS
	23	30	23.00	PG 202330 RS
22	25	15	12.00	PG 222515 RS
	25	20	16	PG 222520 RS
	25	30	25	PG 222530 RS
24	27	15	13	PG 242715 RS
	27	30	26	PG 242730 RS

Dimension			Mass	Designation	
d	D	B			
mm	mm	mm	g		
25	28	15	14.00	PG 252815 RS	
	28	25	23.00	PG 252825 RS	
30	34	20	30.00	PG 303420 RS	
	34	30	45.00	PG 303430 RS	
	34	40	60.00	PG 303440 RS	
35	39	20	34.00	PG 353920 RS	
	39	30	52.00	PG 353930 RS	
40	44	30	59.00	PG 404430 RS	
	44	50	98.00	PG 404450 RS	
45	50	30	83.00	PG 455030 RS	
	50	50	140.00	PG 455050 RS	
50	55	30	93.00	PG 505530 RS	
	55	60	185.00	PG 505560 RS	
55	60	40	135.00	PG 556040 RS	
	60	65	40	145.00	PG 606540 RS
		65	60	220.00	PG 606560 RS
60	65	70	255.00	PG 606570 RS	
	70	75	50	210.00	PG 707550 RS
75		70	300.00	PG 707570 RS	
75	80	80	365.00	PG 758080 RS	
80	85	60	290.00	PG 808560 RS	
	85	100	485.00	PG 8085100 RS	
85	90	100	510.00	PG 8590100 RS	
	90	95	60	325.00	PG 909560 RS
95		100	540.00	PG 9095100 RS	
95	100	100	570.00	PG 95100100 RS	
100	105	60	360.00	PG 10010560 RS	
	105	115	690.00	PG 100105115 RS	

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4.1

Applications

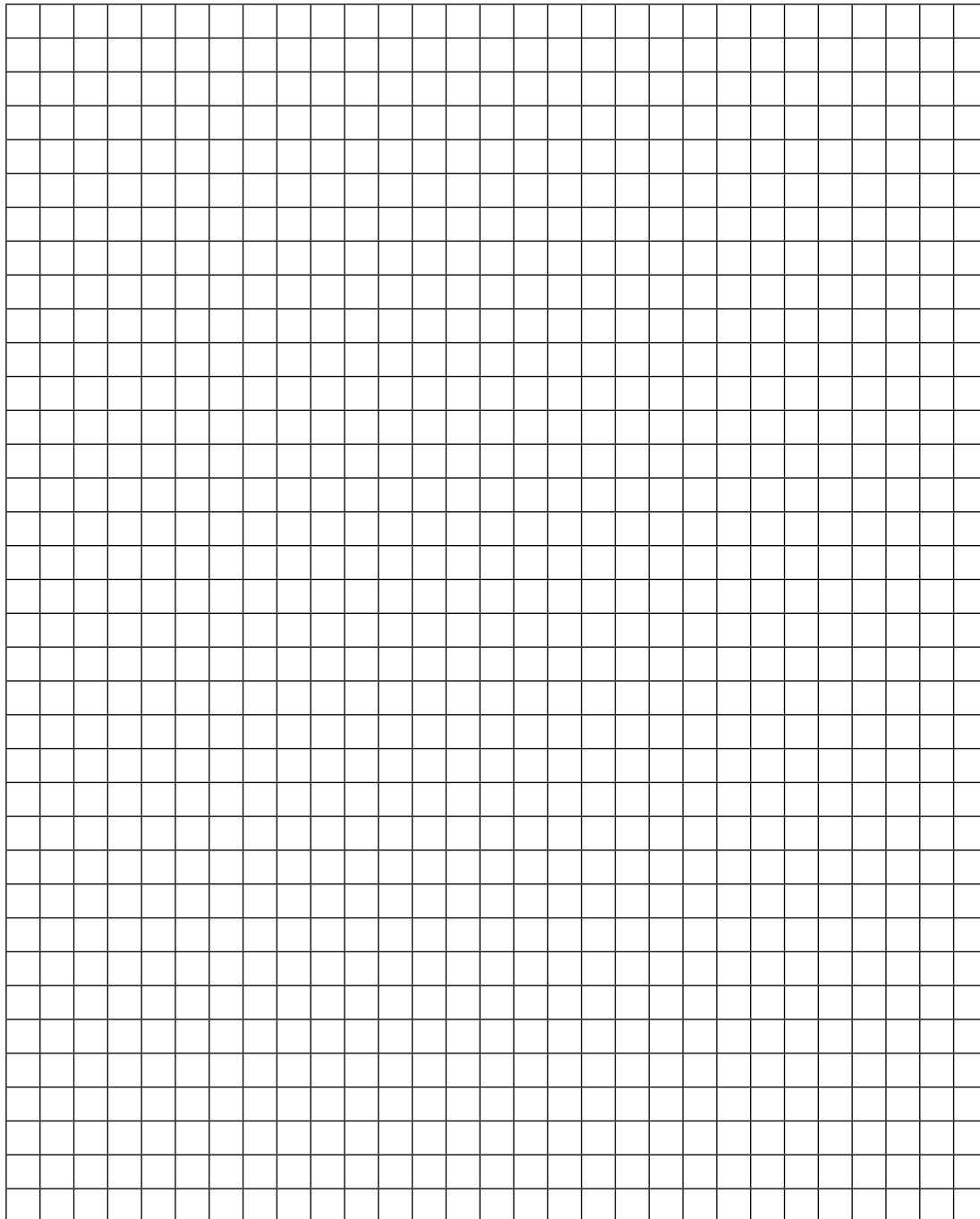
GLYCODUR® RB and GLYCODUR® RS

- Engineering
- Precision engineering
- Valves
- Chemical apparatus engineering
- Medicine and laboratories
- Pumps
- Household equipment
- Food industry
- Pharmaceuticals
- Ship and boat construction
- Convertible roofs...



GLYCODUR®

Notes



This catalog provides a description of our products. Information contained herein does not imply any guarantee of performance or recommendation of suitability for a specific application. Loading capacities and wear characteristics of GLYCODUR® dry sliding bearings depend on individual, specific environmental effects, therefore all calculations shown can be approximations only. In cases where the relevant experience is not available the user is advised to carry out tests with the product under the required application conditions. The right is reserved to make any changes necessitated by tech-

nological developments without prior notification, also to adopt alternative standards, norms and regulations. The respective contractual agreements, especially the agreed specifications, drawings and additional data are binding and take priority. Any deviation from the information contained in the brochure requires our written confirmation. No responsibility arising from the information or illustrations contained in the brochure will be accepted by us or by those acting on our behalf.



GLYCODUR®
Dry Bearings
Catalogue



GLYCODUR®
RPL and RPH



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