

# High temperature protection bearings. Stainless steel (inox) type



Version: 01/2025

Product specifications have been calculated to ensure accuracy and compatibility and may be present in this document. However, no responsibility is assumed for any solutions to errors or omissions. Subject to change without notice.



The bearing housing is made of stainless steel, resistant to high temperatures

GMW manufactures a range of stainless steel pillow block bearings. The base material is high-quality steel, whose chemical composition provides an ideal combination of corrosion resistance, hardness, temperature stability, and wear resistance for the bearings.

In this catalogue, you will find the standard GMW range for stainless steel bearing assemblies.

The housings and bearings for these assemblies are manufactured from stainless steel – SUS304 material.

Pillow block and grooved bearing assemblies with spherical outer rings can compensate for alignment errors and shaft deformation to a certain extent.

Fixing to the shaft is achieved using fixing screws or eccentric locking rings.

The bearings are equipped with high-performance seals and lubricated with food-grade grease (NSF-H1 and HALAL standard). This special lubricant can withstand temperatures up to 288°C.

GMW stainless steel bearing assemblies are primarily used in humid or corrosive environments under high-temperature operating conditions, where the lifespan of conventional cast iron bearing assemblies and chrome steel bearing inserts is severely reduced.

For example, GMW stainless steel bearing assemblies are particularly suitable for machinery in the food, pharmaceutical, and chemical industries.

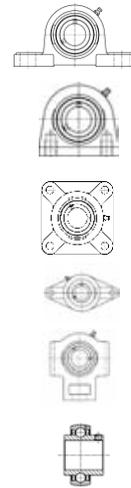
However, for optimal performance, regular cleaning is the ideal solution.





**Products lines:**

- *Pillow blocks units* SUCP200
- *Tapped base pillow block units* SUCPA200
- *Four-bolt flanged units* SUCF200
- *Two-bolt flanged units* SUCFL200
- *Take-up units* SUCT200
- *Bearing inserts* SUC200



**Parameter indication:**

**SUCP205T200**

Insert bearing No. SUC205 (mm)

Housing No. SP205 (mm)

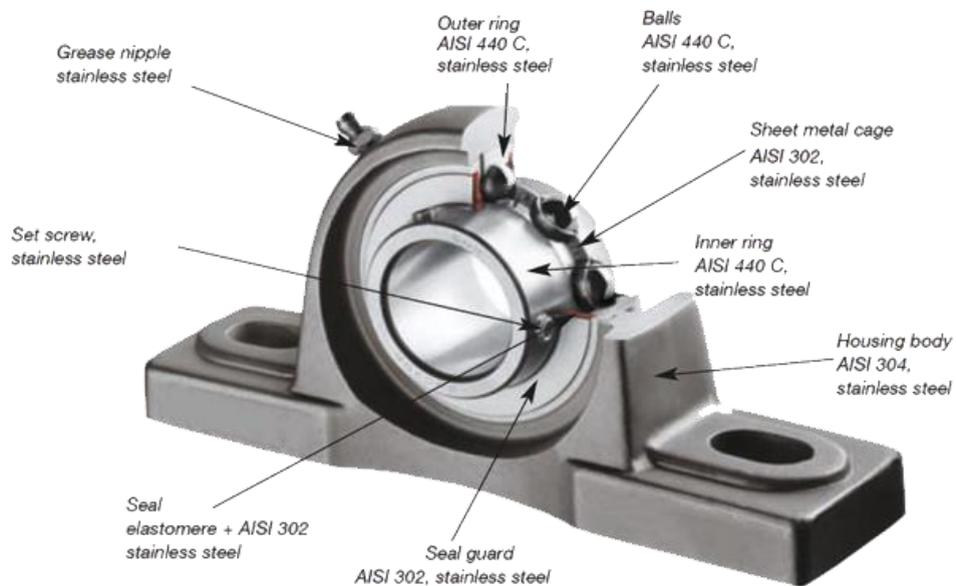
T = High-temperature resistance

200 = upto max 200°C

280 = upto max 280°C



## | Technical specifications – Materials

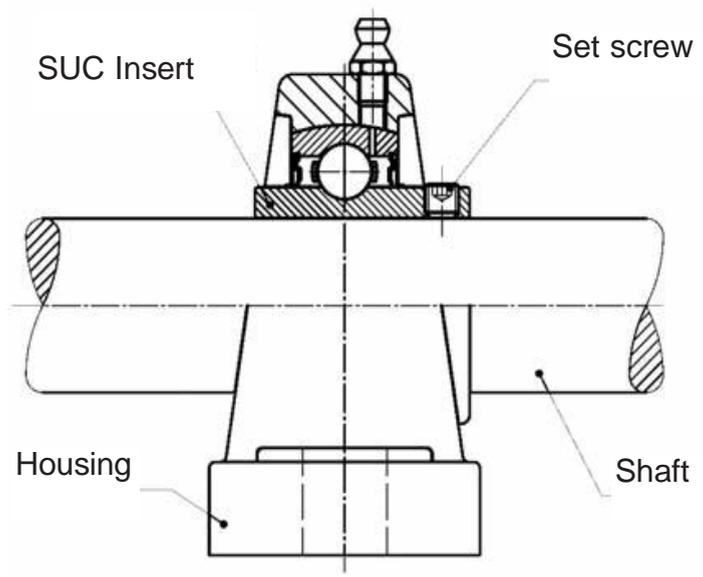


## | Safe lubrication solution

- High-temperature-resistant perfluoropolyether material withstands temperatures up to 288°C and is NSF-H1 food safety certified.
- Lubricant penetration depth: 265-295 (at 77°C; 1/10 mm) NLGI-2
- Dropping point: 215°C



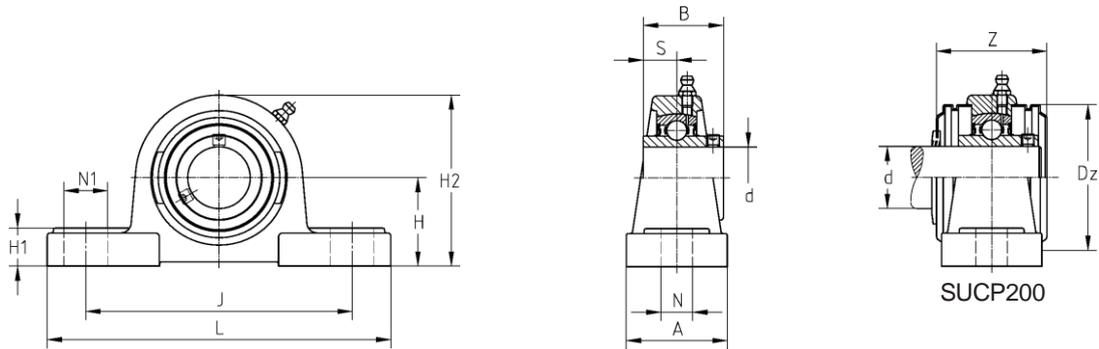
Code	Bore	j7	Max speeds [rpm] for shaft tolerance		
	[mm]		h7	h8	h9
SUC 204	20	6,000	4,800	3,400	1,200
SUC 205	25	5,600	4,000	3,000	1,000
SUC 206	30	4,500	3,400	2,400	850
SUC 207	35	4,000	3,000	2,000	750
SUC 208	40	3,600	2,600	1,900	670
SUC 209	45	3,200	2,400	1,700	600
SUC 210	50	3,000	2,200	1,600	560
SUC 211	55	2,400	1,800	1,300	450
SUC 212	60	1,900	1,600	1,000	400



# SUCP2XX

Housing  
Bearings

SP200  
SUC200

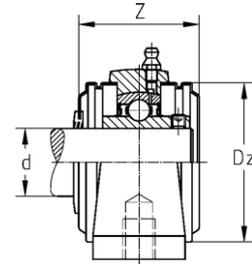
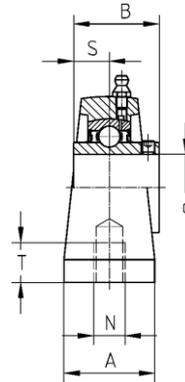
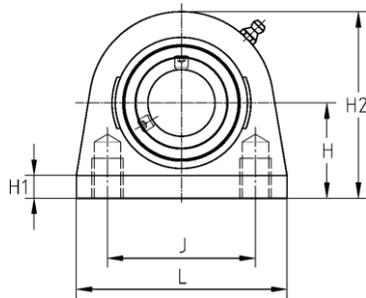


Bore d [mm]	Code	Technical specifications [mm]											Insert bearing	Housing	Weight
		L	J	B	H	H1	H2	S	A	N	N1 Z max.	Dz	Code	[Kgs]	
20	SUCP204	126	95	31	33	15	65	13	38	13	19 45.6	54	SUC204	SP204	1.8
25	SUCP205	140	105	34	37	16	70	14	38	13	19 47.8	60	SUC205	SP205	2.1
30	SUCP206	165	121	38	43	18	83	16	48	17	21 52.8	70	SUC206	SP206	3.5
35	SUCP207	167	127	43	48	19	94	18	48	17	21 57.4	80	SUC207	SP207	4.3
40	SUCP208	184	136	49	49	19	100	19	54	17	23 66.8	88	SUC208	SP208	5.3
45	SUCP209	190	146	49	54	20	109	19	54	17	23 67.8	95	SUC209	SP209	6
50	SUCP210	206	159	52	57	22	114	19	60	20	25 75.6	100	SUC210	SP210	7.2
55	SUCP211	219	171	56	64	23	126	22	60	20	25 75.2	110	SUC211	SP211	9.1
60	SUCP212	241	184	65	70	25	138	25	70	20	25 87.8	120	SUC212	SP212	13

# SUCPA2XX

Housing  
Bearings

SPA200  
SUC200



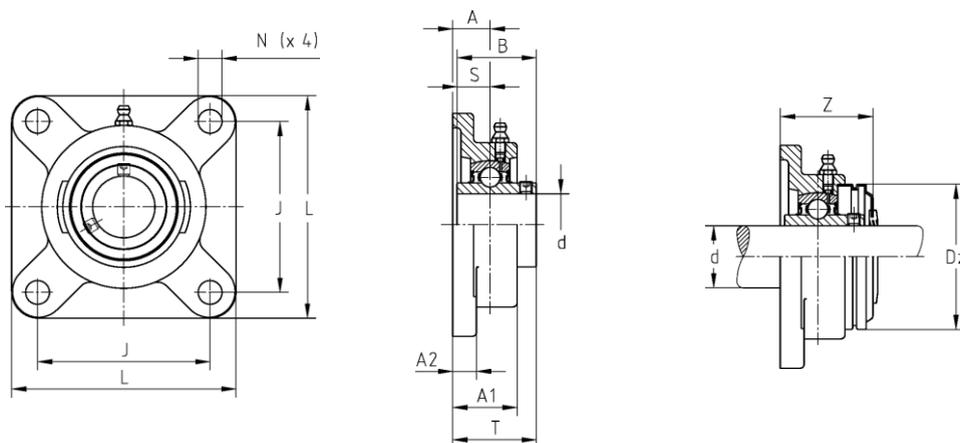
SUCPA200

Bore d [mm]	Code	Technical specifications [mm]												Insert bearing	Housing	Weight [kgs]
		L	J	B	H	H1	H2	S	A	N	T	Z <sub>max</sub>	Dz			
20	SUCPA204	73	50.8	31	33.3	11	65	12.7	38	M8	13	45.6	54	SUC204	SPA204	1.5
25	SUCPA205	76	50.8	34.1	36.5	11	71	14.3	38	M10	13	47.8	60	SUC205	SPA205	1.72
30	SUCPA206	102	76.2	38.1	42.9	12	86	15.9	38	M10	16	52.8	70	SUC206	SPA206	2.87
35	SUCPA207	108	82.6	42.9	47.6	12	95	17.5	48	M10	19	57.4	80	SUC207	SPA207	3.79
40	SUCPA208	117	89	49.2	49.2	13	100	19	48	M12	19	66.8	88	SUC208	SPA208	4.21
45	SUCPA209	127	95.3	49.2	54	13	108	19	51	M12	19	67.8	95	SUC209	SPA209	5.14
50	SUCPA210	140	101.6	51.6	57.2	13	117	19	51	M16	19	75.6	100	SUC210	SPA210	6.24

# SUCF2XX

Housing  
Bearings

SF200  
SUC200



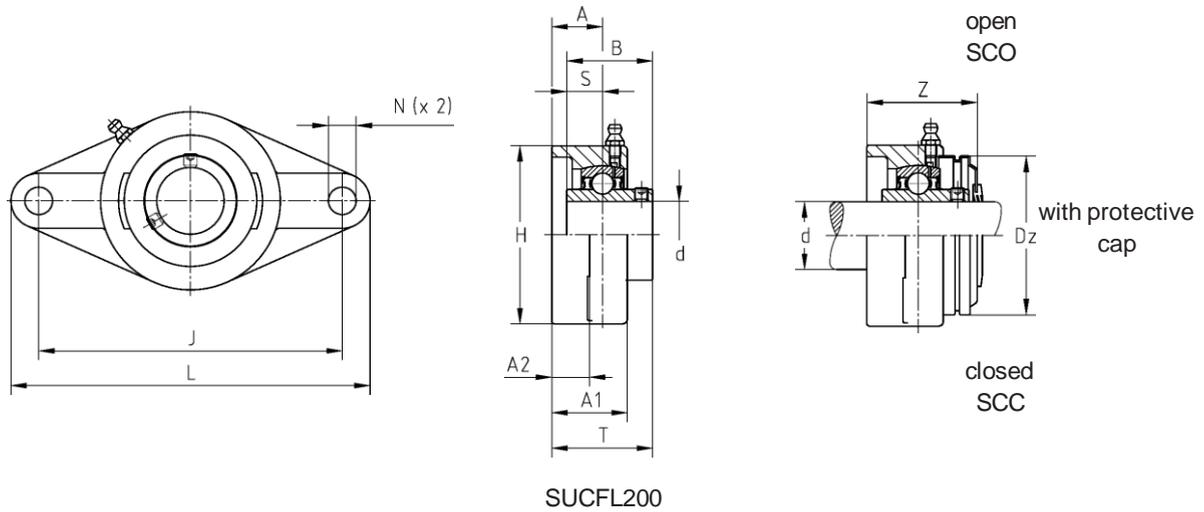
SUCF200

Bore d [mm]	Code	Technical specifications [mm]											Insert bearing	Housing	Weight
		L	J	B	A	A1	A2	S	T	N	Z max	Dz	Mã hiệu	[kgs]	
20	SUCF204	86	64	31	15	25.5	12	12.7	33.3	12	37.8	54	SUC204	SF204	1.35
25	SUCF205	95	70	34.1	16	27	14	14.3	35.8	12	39.9	60	SUC205	SF205	1.81
30	SUCF206	108	83	38.1	18	30.5	14	15.9	40.2	12	44.4	70	SUC206	SF206	2.49
35	SUCF207	116	92	42.9	19	33.5	14,5	17.5	44.4	14	48.2	80	SUC207	SF207	3.11
40	SUCF208	130	102	49.2	21	36	14,5	19	51.2	16	54.4	88	SUC208	SF208	4.17
45	SUCF209	137	105	49.2	22	38	15,5	19	52.2	16	55.9	95	SUC209	SF209	5.12
50	SUCF210	143	111	51.6	22	40	15	19	54.6	16	59.8	100	SUC210	SF210	5.84
55	SUCF211	162	130	55.6	25	44	20	22.2	58.4	19	62.6	110	SUC211	SF211	8.95
60	SUCF212	175	143	65.1	29	48	20	25.4	68.7	19	72.9	120	SUC212	SF212	12.1

# SUCFL2XX

Housing  
Bearings

SFL200  
SUC200

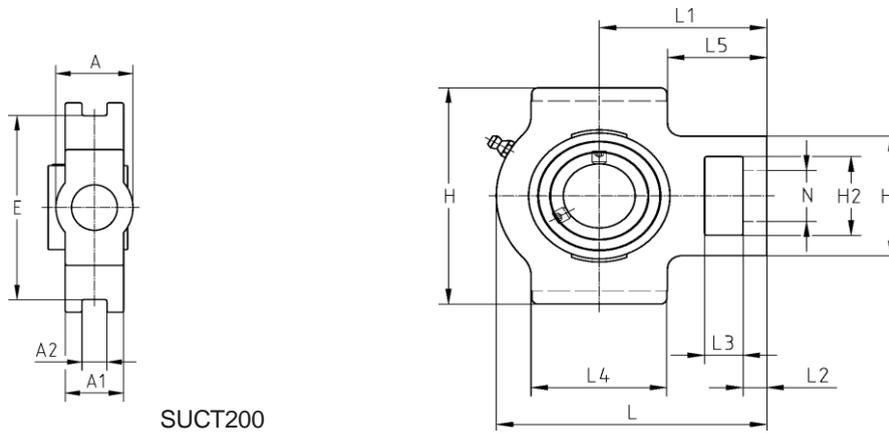


Bore d [mm]	Code	Technical specifications [mm]											Insert bearing	Housing	Weight [kgs]	
		L	J	H	B	A	A1	A2	S	T	N	Z <sub>max</sub>				Dz
20	SUCFL204	112	90	60	31	15	25.5	12	12.7	33.3	12	37.8	54	SUC204	SFL204	1.04
25	SUCFL205	125	99	68	34.1	16	27	13	14.3	35.8	16	39.9	60	SUC205	SFL205	1.32
30	SUCFL206	141	117	80	38.1	18	31	13	15.9	40.2	16	44.4	70	SUC206	SFL206	1.96
35	SUCFL207	156	130	90	42.9	19	33	15	17.5	44.4	16	47.7	80	SUC207	SFL207	2.6
40	SUCFL208	172	144	100	49.2	21	36	15	19	51.2	16	54.4	88	SUC208	SFL208	3.37
45	SUCFL209	180	148	108	49.2	22	38	15	19	52.2	19	55.9	95	SUC209	SFL209	3.99
50	SUCFL210	190	157	115	51.6	22	39	16	19	54.6	19	59.8	100	SUC210	SFL210	4.78

# SUCT2XX

Housing  
Bearings

ST200  
SUC200

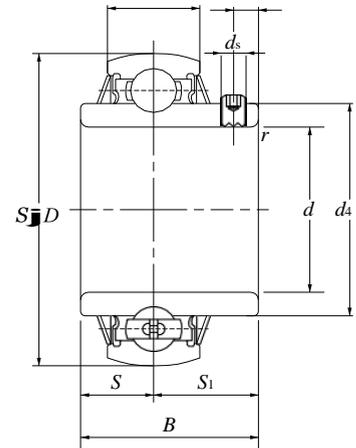


SUCT200

Bore d [mm]	Code	Unit code				Dimensions [mm]					
		L	H	A	B	A1	A2	E	S	L1	L2
20	SUCT204	94	89	32	31	21	12+0,2	76-0,5	12.7	61	10
25	SUCT205	97	89	32	34.1	24	12+0,2	76-0,5	14.3	62	10
30	SUCT206	113	102	37	38.1	28	12+0,2	89-0,5	15.9	70	10
35	SUCT207	129	102	37	42.9	30	12+0,2	89-0,5	17.5	78	13
40	SUCT208	144	114	49	49.2	33	16+0,2	102-0,5	19	88	16
45	SUCT209	144	117	49	49.2	35	16+0,2	102-0,5	19	87	16
50	SUCT210	149	117	49	51.6	37	16+0,2	102-0,5	19	90	16

								Insert bearings	Housing	Weight (kgs)
L3	L4	L5	N	H1	H2	Z <sub>max.</sub>	Dz			
16	51	35.5	19	51	32	45.6	54	SUC204	ST204	1.74
16	51	36.5	19	51	32	47.8	60	SUC205	ST205	1.94
16	57	41.5	22	56	37	52.8	70	SUC206	ST206	3.00
19	83	46.5	29	83	49	66.8	88	SUC208	ST208	5.60
19	83	45.5	29	83	49	67.8	95	SUC209	ST209	5.58
19	86	47	29	83	49	75.6	100	SUC210	ST210	5.91

## Insert bearing – SUC200



Bore [mm]	Code	Dimensions [mm]										Load		Weight kgs
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>rs min</i>	<i>S</i>	<i>S1</i>	<i>G</i>	<i>ds</i>	<i>d4</i>	Static		
												<i>Cr</i>	<i>Cor</i>	
20	S-UC204	20	47	31	17	1	12.7	18.3	4.5	M5'0.8	29.6	9 900	6 650	0.17
25	S-UC205	25	52	34.1	17	1	14.3	19.8	5	M5'0.8	33.9	10 800	7 850	0.2
30	S-UC206	30	62	38.1	19	1	15.9	22.2	5	M6'0.75	40.8	15 000	11 300	0.33
35	S-UC207	35	72	42.9	20	1.5	17.5	25.4	6	M6'0.75	46.8	19 700	15 300	0.49
40	S-UC208	40	80	49.2	21	1.5	19	30.2	8	M8'1	53	22 400	17 800	0.65
45	S-UC209	45	85	49.2	22	1.5	19	30.2	8	M8'1	57.5	25 200	20 400	0.7
50	S-UC210	50	90	51.6	24	1.5	19	32.6	9	M8'1	62.4	27 000	23 200	0.8

