UG100 Single Seals

Standard Mechanical Seals - Elastomer Bellows Seals

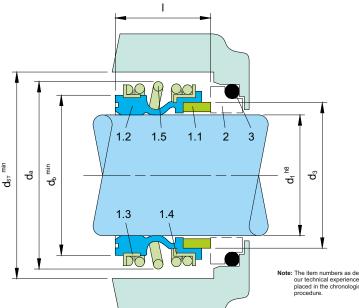


Product Description

- 1. Single seal configuration
- 2. Unbalanced design
- 3. Independent of direction of rotation
- 4. For plain shafts
- 5. Rotary elastomer bellows design

Technical Features

- 1. Low cost seal solution
- 2. Suitable for mild sterile applications
- $3. \ No \ damage \ to \ the \ shaft$
- 4. Can be employed for low solids content
- 5. Multifaceted application usage



Item	Part no.	Description
1.5	477	Spring
2	475	Seat
3	412	O-ring or cup rubber
	DIN	24250

Item	Part no.	Description
1.1	472	Seal face
1.2	481	Bellows
1.3	484.2	L-ring (spring collar)
1.4	484.1	L-ring (spring collar)
	NIO	24250

Notes

The UG100 can also be used as a multiple seal in tandem or in a back-to-back arrangement. Installation proposals can be supplied on request. Dimension adaptations for specific conditions, e.g. shaft in inches or special seat dimensions are available on request.

Typical Industrial Applications	
nical industry	

Chemical industry Chemical standard pumps Food Processing industry

Helical screw pumps Pulp, Paper & Latex

Submersible pumps
Water, waste water and mild slurries

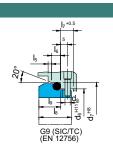
Sizes									
Pressure	4.000") ure								
Vacuum	bar (14.5PSI) with seat								
Temperature	t = -20°C+140°C (-4°F+284°F)								
Speed	10 m/s (33 ft/s)								

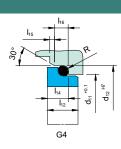
Permissible axial movement:

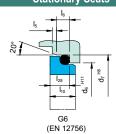
±2.0 mm

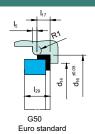
Standards EN 12756

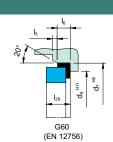
	Materials
Seal face	Carbon graphite antimony impregnated (A), Carbon graphite resin impregnated (B), Silicon carbide (Q1),Tungsten carbide (U3)
Seat	Silicon carbide (Q1, Q2), Tungsten carbide (U3), Special cast CrMo steel(S), Aluminium oxide (V)
Elastomer	NBR (P), EPDM (E), FKM (V),
Metals	CrNIMo steel (G), Hastelloy® C4 (M)







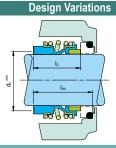




UG120

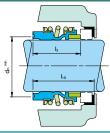
Dimensions in millimeter

Dimensions, items and designations same as for UG100, but with an extended bellows tail to achieve the fitting length I_{1k} according to EN12756 in combination with seat G6or G60 (d_a exceeds EN12756).



UG130

Dimensions, items and designations same as for UG100, but with an extended bellows tail to achieve the fitting length I_{1N} according to EN 12756 in combination with seat G6 or G60 (d_g exceeds EN12756).



UG100S20

Dimensions, items and designations same as for UG100, but with an extended bellows tail to achieve the special fitting length I_{1S} in combination with seat.

Dimensional Data

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d₁	d۶	de	d ₇	d۵	d 11	d ₁₂	d ₁ 1	d ₁₆	d _a	۲°*)	d _m *)	d-*)	deт		Ιa	Ιıν	Ian	I ₁ e	I ₂	Ιa	I ₅	I۵	I ₇	I ₈	l ₉	I10	I12	144	I ₁₅	116	I ₁₇	128	I ₂₉	R
						19.2		24.60		-		-																						
								27.80																									9.0	1.2
14	19.7	21	25	3	20.5	24.6	17.0	30.95	28.5	26.5	22	22	30	17.0	28.4	35.0	40	35.5	33.4	25	1.5	4	8.5	17.5	10.0	7.5	6.5	5.6	1.2	3.8	9.0	6.6	10.5	1.2
15	20.8	-	-	-	20.5	24.6	17.0	30.95	28.5	26.5	22	22	30	17.0	28.4	-	-	35.5	33.4	25	-	-	-	-	-	-	7.5	6.6	1.2	3.8	9.0	-	10.5	1.2
16	21.0	23	27	3	22.0	28.0	17.0	30.95	28.5	26.5	22	22	30	17.0	28.4	35.0	40	35.5	33.4	25	1.5	4	8.5	17.5	10.0	7.5	8.5	7.5	1.5	5.0	9.0	6.6	10.5	1.5
18	23.7	27	33	3	24.0	30.0	20.0	34.15	32.0	29.0	29	26	33	19.5	30.0	37.5	45	35.5	37.5	25	2.0	5	9.0	19.5	11.5	8.5	9.0	8.0	1.5	5.0	9.0	7.5	10.5	1.5
19	26.7	-	-	-	-	-	20.0	34.15	37.0	33.0	33	28	38	21.5	30.0	-	-	35.5	37.5	25	-	-	-	-	-	-	-	-	-	-	9.0	-	10.5	-
20	26.7	29	35	3	29.5	35.0	21.5	35.70	37.0	33.0	33	28	38	21.5	30.0	37.5	45	35.5	37.5	25	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	9.0	7.5	10.5	1.5
22	27.7	31	37	3	29.5	35.0	23.0	37.30	37.0	33.0	33	28	38	21.5	30.0	37.5	45	35.5	37.5	25	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	9.0	7.5	10.5	1.5
24	31.2	33	39	3	32.0	38.0	26.5	40.50	42.5	38.0	38	32	44	22.5	32.5	40.0	50	35.5	42.5	25	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	9.0	7.5	10.5	1.5
25	31.2	34	40	3	32.0	38.0	26.5	40.50				32	44	23.0	32.5	40.0	50	35.5	42.5	25	2.0	5	9.0	19.5	11.5	8.5	8.5	7.5	1.5	5.0	9.0	7.5	10.5	1.5
						42.0		47.65				37																					12.0	
	37.0					45.0			49.0			37																					12.0	
						48.0			53.5			41																					12.0	
						50.0			53.5			41																					12.0	
						52.0 55.0		57.15	57.0			44 47																					12.0 12.0	
						58.0			62.0			49																					12.0	
	51.8					62.0			65.5			53			36.0									-									12.0	
						62.0		63.50				53																					12.0	
						64.0			68.0			55																					12.0	
48	56.8	59	66	4	59.7	68.4	49.0	66.70	70.5	63.0	58	58	74	30.5	36.0	45.0	60	53.0	51.0	41	2.0	6	9.0	22.0	14.0	10.0	12.8	11.6	2.0	6.0	10.5	9.0	12.0	2.5
50	58.8	62	70	4	60.8	69.3	52.0	69.85	74.0	65.0	60	60	77	30.5	38.0	47.5	60	54.5	50.5	41	2.5	6	9.0	23.0	15.0	10.5	12.8	11.6	2.0	6.0	12.0	9.5	13.5	2.5
53	62.2	65	73	4	63.8	72.3	55.5	73.05	78.5	70.0	63	63	81	33.0	36.5	47.5	70	54.5	59.0	41	2.5	6	9.0	23.0	15.0	12.0	13.5	12.3	2.0	6.0	12.0	11.0	13.5	2.5
55	64.2	67	75	4	66.5	75.4	58.5	76.20	81.0	72.0	65	65	83	35.0	36.5	47.5	70	54.5	59.0	41	2.5	6	9.0	23.0	15.0	12.0	14.5	13.3	2.0	6.0	12.0	11.0	13.5	2.5
58	67.2	70	78	4	69.5	78.4	61.5	79.40	85.5	75.0	68	68	88	37.0	41.5	52.5	70	54.5	59.0	41	2.5	6	9.0	23.0	15.0	12.0	14.5	13.3	2.0	6.0	12.0	11.0	13.5	2.5
60	70.0	72	80	4	71.5	80.4	61.5	79.40	88.5	79.0	70	70	91	38.0	41.5	52.5	70	54.5	59.0	41	2.5	6	9.0	23.0	15.0	12.0	14.5	13.3	2.0	6.0	12.0	11.0	13.5	2.5
65	75.0	77	85	4	76.5	85.4	68.0	92.10	93.5	84.0	77	77	96	40.0	41.5	52.5	80	65.0	69.0	49	2.5	6	9.0	23.0	15.0	12.0	14.2	13.0	2.0	6.0	14.5	11.0	16.0	2.5
68	78.0	81	90	4	82.7	91.5	71.0	95.25	96.5	88.0	80	80	100	40.0	41.2	52.5	80	65.0	68.7	49	2.5	7	9.0	26.0	18.0	12.5	14.9	13.7	2.0	6.0	14.5	11.3	16.0	2.5
70	80.0	83	92	4	83.0	92.0	71.0	95.25	99.5	90.0	82	82	103	40.0	48.7	60.0	80	65.0	68.7	49	2.5	7	9.0	26.0	18.0	12.5	14.2	13.0	2.0	6.0	14.5	11.3	16.0	2.5
								101.60																										
								114.30																										
								117.50																										
								123.85																										
								127.00																										
100	112.0	115	125	4	114.5	123.3	103.0	133.35	137.0	124.0	114	114	140	47.0	51.0	65.0	90	82.0	76.0	62	3.0	7	9.0	25.2	17.2	15.0	17.0	15.8	2.0	6.0	18.5	14.0	20.0	2.5

*) minimum diameter of the mating collar.

inch size available from size 0.375 to 4.000

Note: Additional technical & dimensional information will be provided on request.