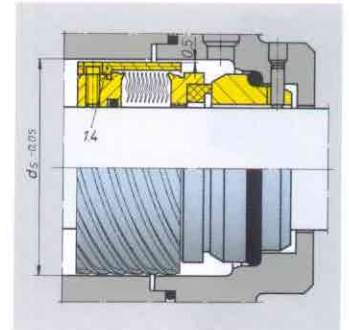
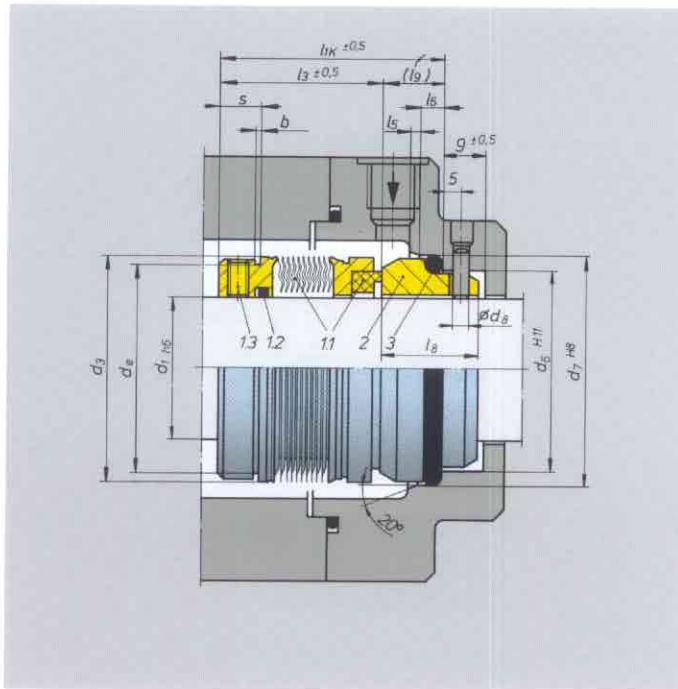


MFL 85 N



MFL 85 F

Dimensions, item no's and descriptions as for MFL 85 N, but with **pumping screw** (item no. 14). Dependent on direction of rotation!
The pumping screw can be retrofitted.

- ▶ **Single seal**
- ▶ **Balanced**
- ▶ **Independent of direction of rotation**
- ▶ **Metal bellows**
- ▶ **To DIN 24 960**

Mechanical seals in the MFL series have a universal field of application. They are designed for extreme ranges of temperature and for high-viscosity media. There is no dynamic O-ring and therefore a bellows seal will never hang-up. (See page 63 for details of the MFL65 stationary bellows seal.)

Operating limits

- $d_1 = 16 \dots 100 \text{ mm } 0.64'' \dots 4''$
 $p_1 = \text{with external pressurization}^1$
 25 bar 360 PSI
 with internal pressurization²⁾
 < 120 °C 10 bar 145 PSI
 < 220 °C 5 bar 72 PSI
- $v_0 = 20 \text{ m/s } 66 \text{ ft/s}$
- MFL 85 N:
 $t = -40 \dots +220 \text{ °C}$
 (-40° F... 428° F)
- MFLWT 80:
 $t = -20 \dots 400 \text{ °C}$
 (-4° F... 752° F)
- MFLCT 80:
 $t = -100 \dots 100 \text{ °C}$
 (-148° F... 212° F)

¹⁾ Higher pressures possible with special designs – please refer to Burgmann.
²⁾ Positively retained stationary seat necessary.

MFL 85 N

With vibration damper for optimum running characteristics (important when there is a risk of dry running).

Item Part no. Description to DIN 24 250

Item	Part no.	Description to DIN 24 250
1.1	472/481	Seal face with bellows unit
1.2	412.1	O-ring
1.3	904	Set screw
2	475	Type G 9 stationary seat
3	412.2	O-ring

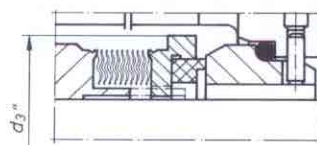
MFL 85 GS

Gas-lubricated seal faces. For application options never thought possible before now. Same dimensions as MFL 85 N. See page 72 for more details.

Combination of materials

Bellows: M₆ - Inconel 718
 M₅ - Hastelloy C
 Seal face: A, Q₁₂
 Stationary seat: Q₁

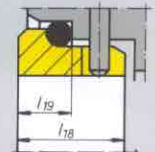
MFLCT 80: only A Q₁ G M₆ M/G



Execution in Hastelloy® C MFLWT/CT 80

Stationary seat alternative

- G 16



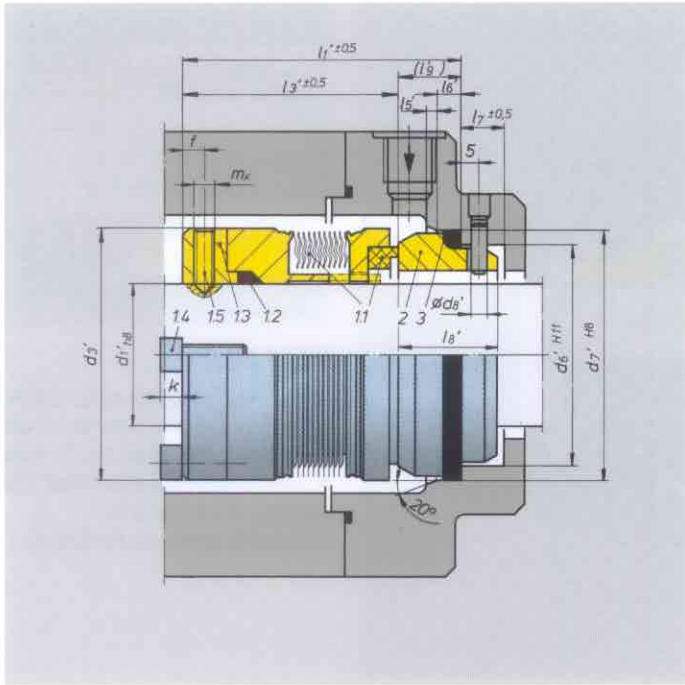
l_{1K} is shorter than specified by DIN 24960 (MFL 85 N).
 Unquoted dim. same as for G 9.



Vibration damper for type MFL 85 N



Torque transmission for type MFL WT 80



MFL WT 80 / MFL CT 80

Dimensions are not to DIN 24960. Seal face positively driven to protect bellows from torsional stress. Secondary seals made of Burgmann Statotherm®.



Item Part no. Description to DIN 24 250

- 1.1 472/481 Seal face with bellows unit
- 1.2 410 Sealing ring
- 1.3 474 Drive collar
- 1.4 Socket head screw
- 1.5 904 Set screw
- 2 475 Stationary seat
- 3 412 Sealing ring

MFL 85 N / MFL 85 F														MFL WT 80 / MFL CT 80																	
d ₁	d ₃	d ₆	d ₇	d ₈	d ₈	d ₅	l _{IK}	l ₃	l ₅	l ₆	l ₈	l ₉	l ₁₀	l ₁₉	b	s	d ₃ '	d ₃ ' ²⁾	d ₆ '	d ₇ '	d ₈ '	l ₁ '	l ₃ '	l ₅ '	l ₆ '	l ₇ '	l ₈ '	l ₉ '	f	k	m _x
16	30.0	23	27	3	25.0	38	42.5 ¹⁾	32.5	1.5	4	17.5	10.0	-	-	1.6	9.0	38	-	29.0	35.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
18	32.0	27	33	3	28.0	39	37.5	30.5	2.0	5	14.0	7.0	15.0	7.0	1.6	10.0	40	-	31.0	37.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
20	33.5	29	35	3	29.5	41	37.5	30.5	2.0	5	14.0	7.0	15.0	7.0	1.6	10.0	42	-	34.0	40.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
22	36.5	31	37	3	32.0	44	37.5	30.5	2.0	5	14.0	7.0	15.0	7.0	1.6	10.0	44	-	37.0	43.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
24	39.0	33	39	3	34.5	47	40.0	28.5	2.0	5	19.5	11.5	15.0	7.0	1.6	8.2	46	49.8	37.0	43.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
25	39.6	34	40	3	35.5	48	40.0	28.5	2.0	5	19.5	11.5	15.0	7.0	1.6	8.5	47	51.7	39.0	45.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
28	42.8	37	43	3	38.5	51	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.0	50	54.5	42.0	48.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M6
30	45.0	39	45	3	40.5	53	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	8.5	52	56.6	44.0	50.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M6
32	46.0	42	48	3	42.0	55	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.2	54	59.5	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
33	48.0	42	48	3	43.0	56	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.2	55	59.5	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
35	49.2	44	50	3	45.5	58	42.5	31.0	2.0	5	19.5	11.5	15.0	7.0	1.6	9.5	57	62.5	51.0	58.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
38	52.3	49	56	4	48.0	61	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	60	65.7	54.0	61.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
40	55.5	51	58	4	50.0	64	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	66	65.7	56.0	63.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	M8
43	57.5	54	61	4	53.0	67	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	69	68.6	59.0	66.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	M6
45	58.7	56	63	4	55.0	69	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.5	71	71.5	62.0	70.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
48	61.9	59	66	4	58.0	72	45.0	31.0	2.0	6	22.0	14.0	16.0	8.0	1.6	9.2	74	75.1	65.0	73.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
50	65.0	62	70	4	60.5	74	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.5	76	76.1	67.0	75.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
53	68.2	65	73	4	64.0	77	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.5	79	80.8	70.0	78.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
55	70.0	67	75	4	65.5	80	47.5	32.5	2.5	6	23.0	15.0	17.0	9.5	1.6	10.0	81	80.8	72.0	80.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
58	71.7	70	78	4	67.0	83	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0	85	84.0	75.0	83.0	4	68.0	53.0	2.5	6	9	23.0	15.0	5	6	M6
60	74.6	72	80	4	69.5	85	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0	87	92.3	77.0	85.0	4	68.0	53.0	2.5	6	9	23.0	15.0	6	6	M8
63	79.0	75	83	4	72.5	88	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0	90	95.5	81.0	90.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
65	84.1	77	85	4	78.0	95	52.5	37.5	2.5	6	23.0	15.0	18.0	10.5	3.0	14.0	92	95.5	83.0	92.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
68	87.3	81	90	4	82.0	96	52.5	34.5	2.5	7	26.0	18.0	18.5	11.0	1.6	10.0	95	101.3	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
70	87.3	83	92	4	81.0	96	60.0	42.0	2.5	7	26.0	18.0	19.0	11.5	3.0	17.0	97	101.3	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
75	95.0	88	97	4	87.0	104	60.0	42.0	2.5	7	26.0	18.0	19.0	11.5	3.0	16.0	102	105.0	95.0	105.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
80	98.4	95	105	4	91.0	109	60.0	41.8	3.0	7	26.2	18.2	19.0	11.5	3.0	16.0	107	110.6	100.0	110.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
85	104.7	100	110	4	96.0	114	60.0	41.8	3.0	7	26.2	18.2	19.0	11.5	3.0	16.0	112	117.0	105.0	115.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
90	111.0	105	115	4	103.0	119	65.0	46.8	3.0	7	26.2	18.2	20.5	13.0	3.0	21.0	117	120.2	110.0	120.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	M8
95	114.0	110	120	4	106.0	124	65.0	47.8	3.0	7	25.2	17.2	20.5	13.0	3.0	21.0	122	125.2	115.0	125.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	M8
100	117.4	115	125	4	111.0	129	65.0	47.8	3.0	7	25.2	17.2	20.5	13.0	3.0	20.0	127	130.2	122.2	134.3	5	74.0	54.0	3.0	9	11	30.0	20.0	6	6	M8

¹⁾ Installation length is longer than l_{IK} specified by DIN 24960

²⁾ d₃' Executed in Hastelloy®