

RELY ON EXCELLENCE

MFL65

Mechanical seals | Mechanical seals for pumps | Metal bellows seals



Features

- Stationary bellows
- Single Seal
- Balanced
- Independent of direction of rotation

Advantages

- For high temperature
- High sliding velocities
- No elastomer secondary seals

Operating range

Shaft diameter: $d_1 = 16 \dots 100 \text{ mm}$ (0.63" ... 4"),
($>100 \text{ mm}$ on request)

Externally pressurized: $p_1 = 25 \text{ bar}$ (363 PSI),
(higher pressure possible, please inquire)

Internally pressurized:

$p_1 < 120 \text{ °C}$ (248 °F) 10 bar (145 PSI),

$p_1 < 220 \text{ °C}$ (428 °F) 5 bar (72 PSI),

$p_1 < 400 \text{ °C}$ (752 °F) 3 bar (44 PSI)

Stationary seat lock necessary.

Temperature:

$t = -20 \text{ °C} \dots 400 \text{ °C}$ (-4 °F ... +752 °F)

Sliding velocity: $v_g = 50 \text{ m/s}$ (165 ft/s)

Materials

Bellows:

Inconel® 718 (M6), Hastelloy® C-276 (M5)

Seal face:

Carbon graphite antimony impregnated (A),

Silicon carbide (Q12)

Seat:

Silicon carbide (Q1), Special cast CrMo steel

(S)

Metal parts:

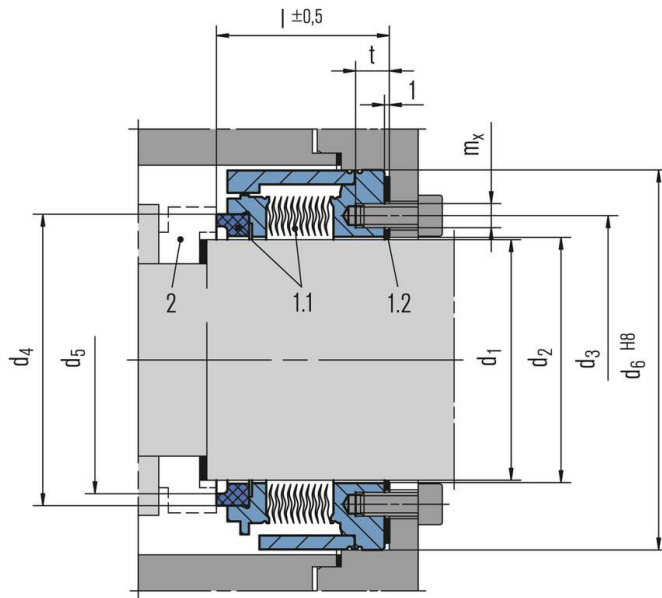
Duplex (G1), Carpenter® 42 (T4), Hastelloy®

C-4 (M)

Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Petrochemical industry
- Chemical industry
- Hot media
- High sliding velocities
- Pumps
- Special rotating equipment

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Item	Part	Description
	DIN 24250	
1.1	472 and 481	Seal face and bellows unit
1.2	400.1	Flat gasket
2	475	Seat

Product variants

MFL69

Shaft diameter:

d1 = 16 ... 100 mm (0.64" ... 4"),
(>100 mm on request)

Internally pressurized:

p1 = 16 bar (232 PSI),
(higher pressure possible, please inquire)

Externally pressurized:

p1 = 10 bar (145 PSI),
stationary seat lock necessary. Temperature:

t = -20 °C ... +400 °C (-4 °F ... +752 °F) Sliding

velocity:

vg = 50 m/s (165 ft/s)

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Dimensions

d	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	l	n _x mx	t
19	16-19	20.5	29	30.3	25.3	45.0	33.5	4xM4	6
24	20-24	25.5	35	38.8	33.8	49.0	33.5	4xM4	6
30	25-30	31.5	40	43.6	38.6	55.0	34.5	6xM4	6
35	31-35	36.0	45	45.8	40.8	59.0	33.0	6xM4	6
40	36-40	41.0	50	51.5	46.5	65.0	30.5	6xM4	6
45	41-45	46.0	55	55.2	50.2	69.0	35.5	6xM4	6
51	46-51	52.0	63	64.7	59.7	76.5	40.5	6xM5	7
60	52-60	61.0	70	70.6	65.6	84.0	32.0	6xM5	7
70	61-70	71.0	80	82.8	76.8	95.0	38.0	6xM5	7
82	71-82	83.5	95	98.0	92.0	112.0	41.0	6xM6	7
88	83-88	89.5	100	107.7	101.7	120.0	47.0	6xM6	7
100	89-100	101.0	112	112.7	106.7	130.0	47.0	6xM6	7

Dimensions in Millimeter