

RELY ON EXCELLENCE

## MF95N

Mechanical seals | Mechanical seals for pumps | Metal bellows seals



### Features

- For unstepped shafts
- Rotating bellows
- Single Seal
- Balanced
- Independent of direction of rotation
- Roller bellows

### Advantages

- For extreme temperature ranges
- No dynamically loaded O-Ring
- Very good self cleaning effect
- Suitable for low-end sterile applications

### Operating range

Shaft diameter:

$d_1 = 14 \dots 100 \text{ mm} (0.55" \dots 3.94")$

Temperature:

$t = -40 \text{ °C} \dots +220 \text{ °C} (-40 \text{ °F} \dots +428 \text{ °F})$

Pressure:  $p = 16 \text{ bar} (232 \text{ PSI})$

Sliding velocity:  $v_g = 20 \text{ m/s} (66 \text{ ft/s})$

Axial movement:  $\pm 0.5 \text{ mm}$

### Materials

Bellows: Hastelloy® C-276 (M5)

Seal face: Silicon carbide (Q12), Carbon graphite resin impregnated (B), Carbon graphite antimony impregnated (A)

Seat: Silicon carbide (Q1)

Metal parts: CrNiMo steel (G1)

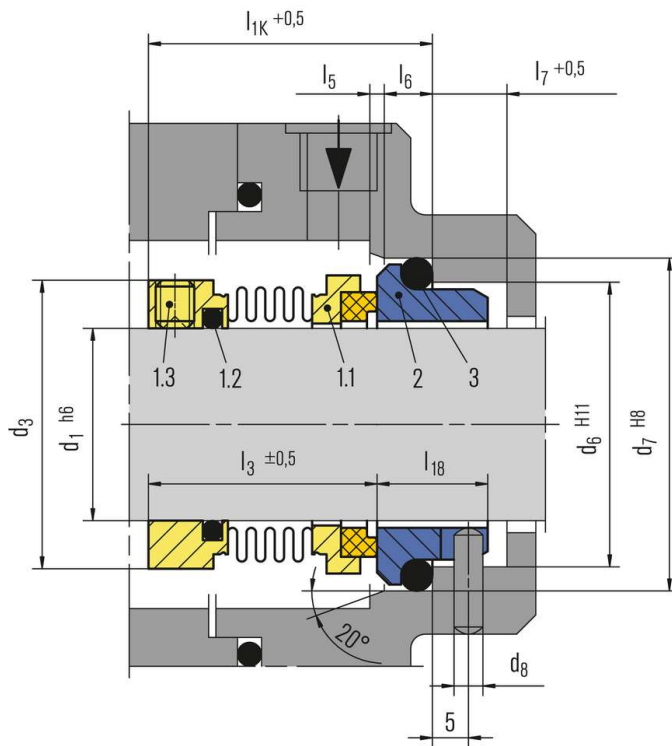
### Standards and approvals

- EN 12756

### Recommended applications

- Process industry
- Oil and gas industry
- Refining technology
- Chemical industry
- Pharmaceutical industry
- Pulp and paper industry
- Food and beverage industry
- Hot media
- Cold media
- Highly viscous media
- Pumps
- Special rotating equipment

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Item	Part no.	Description
	<b>DIN 24250</b>	
1.1	472/481	Seal face with bellows unit
1.2	412.1	O-Ring
1.3	904	Set screw
2	475	Seat (G16)
3	412.2	O-Ring

## Product variants

### MF90N

Shaft diameter:

$d1 = 14 \dots 100 \text{ mm} (0.55" \dots 3.94")$

Temperature:

$t = -40 \text{ °C} \dots +220 \text{ °C} (-40 \text{ °F} \dots +428 \text{ °F})$

Internally pressurized:  $p = 10 \text{ bar} (145 \text{ PSI})$ ,

stationary seat lock necessary.

Sliding velocity:  $v_g = 20 \text{ m/s} (66 \text{ ft/s})$

Axial movement:  $\pm 0.5 \text{ mm}$

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## Dimensions

d <sub>1</sub>	d <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	l <sub>1K</sub>	l <sub>3</sub>	l <sub>5</sub>	l <sub>6</sub>	l <sub>7</sub>	l <sub>18</sub>
14	24	21	25	3	35.0	30.5	1.5	4	8.5	15.0
16	26	23	27	3	35.0	29.5	1.5	4	8.5	15.0
18	32	27	33	3	37.5	30.5	2.0	5	9.0	15.0
20	34	29	35	3	37.5	30.5	2.0	5	9.0	15.0
22	36	31	37	3	37.5	30.5	2.0	5	9.0	15.0
24	39	33	39	3	40.0	33.0	2.0	5	9.0	15.0
25	39	34	40	3	40.0	33.0	2.0	5	9.0	15.0
28	42	37	43	3	42.5	35.5	2.0	5	9.0	15.0
30	44	39	45	3	42.5	35.5	2.0	5	9.0	15.0
32	46	42	48	3	42.5	35.5	2.0	5	9.0	15.0
33	47	42	48	3	42.5	35.5	2.0	5	9.0	15.0
35	49	44	50	3	42.5	35.5	2.0	5	9.0	15.0
38	54	49	56	4	45.0	37.0	2.0	6	9.0	16.0
40	56	51	58	4	45.0	37.0	2.0	6	9.0	16.0
43	58	54	61	4	45.0	37.0	2.0	6	9.0	16.0
45	61	56	63	4	45.0	37.0	2.0	6	9.0	16.0
48	64	59	66	4	45.0	37.0	2.0	6	9.0	16.0
50	66	62	70	4	47.5	38.0	2.5	6	9.0	17.0
53	69	65	73	4	47.5	38.0	2.5	6	9.0	17.0
55	71	67	75	4	47.5	38.0	2.5	6	9.0	17.0
58	78	70	78	4	52.5	42.0	2.5	6	9.0	18.0
60	80	72	80	4	52.5	42.0	2.5	6	9.0	18.0
63	83	75	83	4	52.5	42.0	2.5	6	9.0	18.0
65	85	77	85	4	52.5	42.0	2.5	6	9.0	18.0
68	87	81	90	4	52.5	41.5	2.5	7	9.0	18.5
70	90	83	92	4	60.0	48.5	2.5	7	9.0	19.0
75	99	88	97	4	60.0	48.5	2.5	7	9.0	19.0
80	104	95	105	4	60.0	48.5	3.0	7	9.0	19.0
85	109	100	110	4	60.0	48.5	3.0	7	9.0	19.0
90	114	105	115	4	65.0	52.0	3.0	7	9.0	20.5
95	119	110	120	4	65.0	52.0	3.0	7	9.0	20.5
100	124	115	125	4	65.0	52.0	3.0	7	9.0	20.5

Dimensions in millimeter