

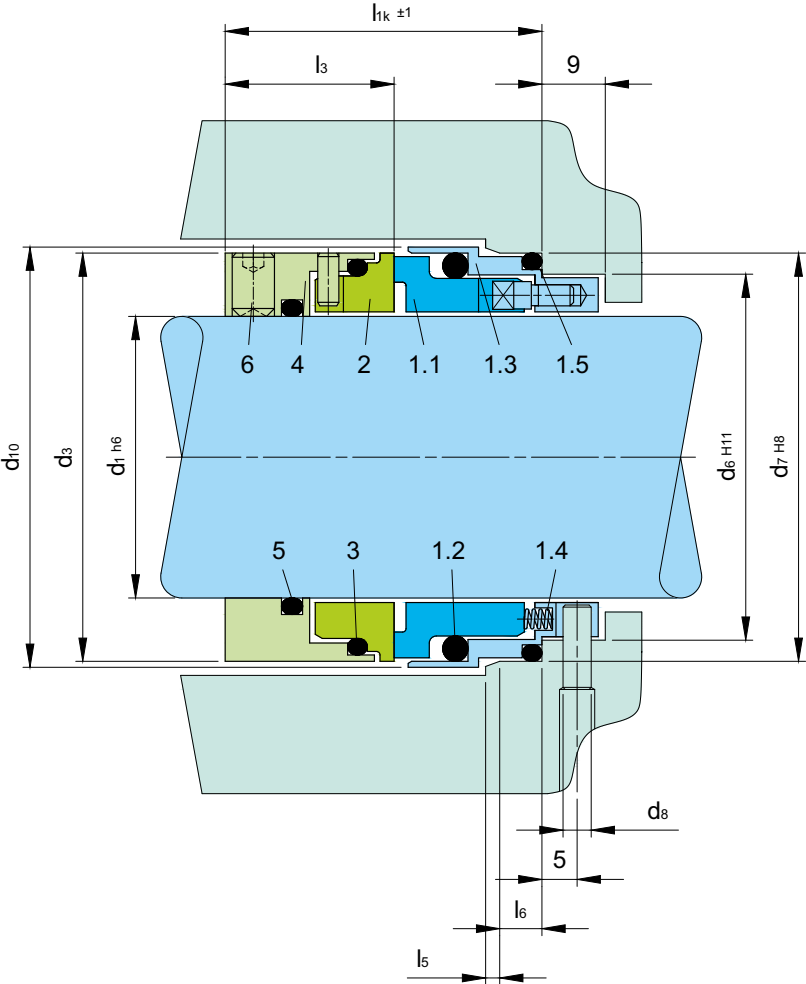


Product Description

- 1. Single seal configuration
- 2. Balanced design
- 3. Independent of direction of rotation
- 4. For plain shafts
- 5. Stationary design with multiple springs

Technical Features

- 1. Accommodates shaft deflections due to stationary design
- 2. Designed to handle media containing solids
- 3. O-ring is dynamically loaded to prevent shaft damage.
- 4. Can operate under vacuum without locking the seat
- 5. Pumping device available for increased efficiency in circulation
- 6. Springs are product protected to avoid contamination
- 7. Compact installation design
- 8. Can accommodate reverse pressure



**Note:** The item numbers as depicted above are based on our technical experience and knowledge and are placed in the chronological order of their assembly procedure.

Item	Part no.	Description
1.1	472	Seal face
1.2	412.1	O-ring
1.3	485	Retainer
1.4	477	Spring
1.5	412.2	O-ring
2	475	Seat
3	412.3	O-ring
4	485	Drive collar
5	412.4	O-ring
6	904	Set screw

DIN 24250

Typical Industrial Applications	
Chemical	Power plant technology
Dirty & abrasive media	Pulp & paper
Dredgers	Refining technology
FGD	Sewage treatment
Fugitive hydrocarbons	Solids containing media
Mining	Sticky & stringy media
Oil & gas	Water & waste water
Oil sand extraction	

Performance Capabilities	
Sizes	d <sub>1</sub> = Upto 100 mm (Upto 4.000")
Pressure	p <sub>1</sub> *) = 25 bar (363 PSI)
Temperature	t = -40 °C ... 300 °C (-40 °F ... +428 °F)
Speed	20 m/s (66 ft/s)
*) Additional seat locking is not needed in vacuum operation. For operation under vacuum it is necessary to arrange for quenching on the atmosphere.	
Permissible Axial Movement	
± 1.0 mm	

Materials	
Seal face	Carbon graphite resin impregnated (B), Silicon carbide (Q1)
Seat	Silicon carbide (Q1)
Secondary seals	FKM (V), NBR (P), FFKM (K), PTFE (T)
Springs	Hastelloy®C-4 (M)
Metal parts	CrNiMo steel (G)

Standards
EN 12756

## Dimensional Data

Dimensions in millimeter

d <sub>1</sub>	d <sub>3</sub>	d <sub>6</sub>	d <sub>7</sub>	d <sub>8</sub>	d <sub>10</sub>	l <sub>1k</sub>	l <sub>3</sub>	l <sub>5</sub>	l <sub>6</sub>	f	m <sub>x</sub>
18	33	27	33	3	34.7	37.5	19.5	2.0	5	3.0	4
20	35	29	35	3	36.7	37.5	19.5	2.0	5	3.0	4
22	37	31	37	3	38.7	37.5	19.5	2.0	5	3.0	4
24	39	33	39	3	40.7	40.0	20.5	2.0	5	3.5	5
25	40	34	40	3	41.7	40.0	20.5	2.0	5	3.5	5
28	43	37	43	3	44.7	42.5	21.5	2.0	5	3.5	5
30	45	39	45	3	46.7	42.5	21.5	2.0	5	3.5	5
32	48	42	48	3	49.7	42.5	21.5	2.0	5	3.5	5
33	48	42	48	3	49.7	42.5	21.5	2.0	5	3.5	5
35	50	44	50	3	51.7	42.5	21.5	2.0	5	3.5	5
38	56	49	56	4	57.7	45.0	24.0	2.0	6	4.0	6
40	58	51	58	4	59.7	45.0	24.0	2.0	6	4.0	6
43	61	54	61	4	62.7	45.0	24.0	2.0	6	4.0	6
45	63	56	63	4	64.7	45.0	24.0	2.0	6	4.0	6
48	66	59	66	4	67.7	45.0	24.0	2.0	6	4.0	6
50	70	62	70	4	71.7	47.5	25.0	2.5	6	4.0	6
53	73	65	73	4	74.7	47.5	25.0	2.5	6	4.0	6
55	75	67	75	4	76.7	47.5	25.0	2.5	6	4.0	6
58	78	70	78	4	80.5	52.5	28.0	2.5	6	4.0	6
60	80	72	80	4	82.5	52.5	28.0	2.5	6	4.0	6
63	83	75	83	4	85.5	52.5	28.0	2.5	6	4.0	6
65	85	77	85	4	87.5	52.5	28.0	2.5	6	4.0	6
68	90	81	90	4	92.5	52.5	28.0	2.5	7	4.0	6
70	92	83	92	4	94.5	60.0	34.0	2.5	7	6.0	8
75	97	88	97	4	100.5	60.0	34.0	2.5	7	6.0	8
80	105	95	105	4	108.5	60.0	34.0	3.0	7	6.0	8
85	110	100	110	4	113.5	60.0	34.0	3.0	7	6.0	8
90	115	105	115	4	118.5	65.0	39.0	3.0	7	10.0	8
95	120	110	120	4	123.5	65.0	39.0	3.0	7	10.0	8
100	125	115	125	4	128.5	65.0	39.0	3.0	7	10.0	8

inch size available from size 0.750 to 4.000

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

The specifications, drawings, images etc included in this catalogue are intended to be generic and must be interpreted as equivalent or functionally equivalent, more specifically the performance capabilities mentioned in this catalogue is based on optimum values, however the performance of the product is dependent on size, material of construction, media, pressure, temperature, sliding velocity etc and it shall vary from size to size or application to application. Customers are requested to consult with Sealmatic before employing the product from this catalogue for any application.