

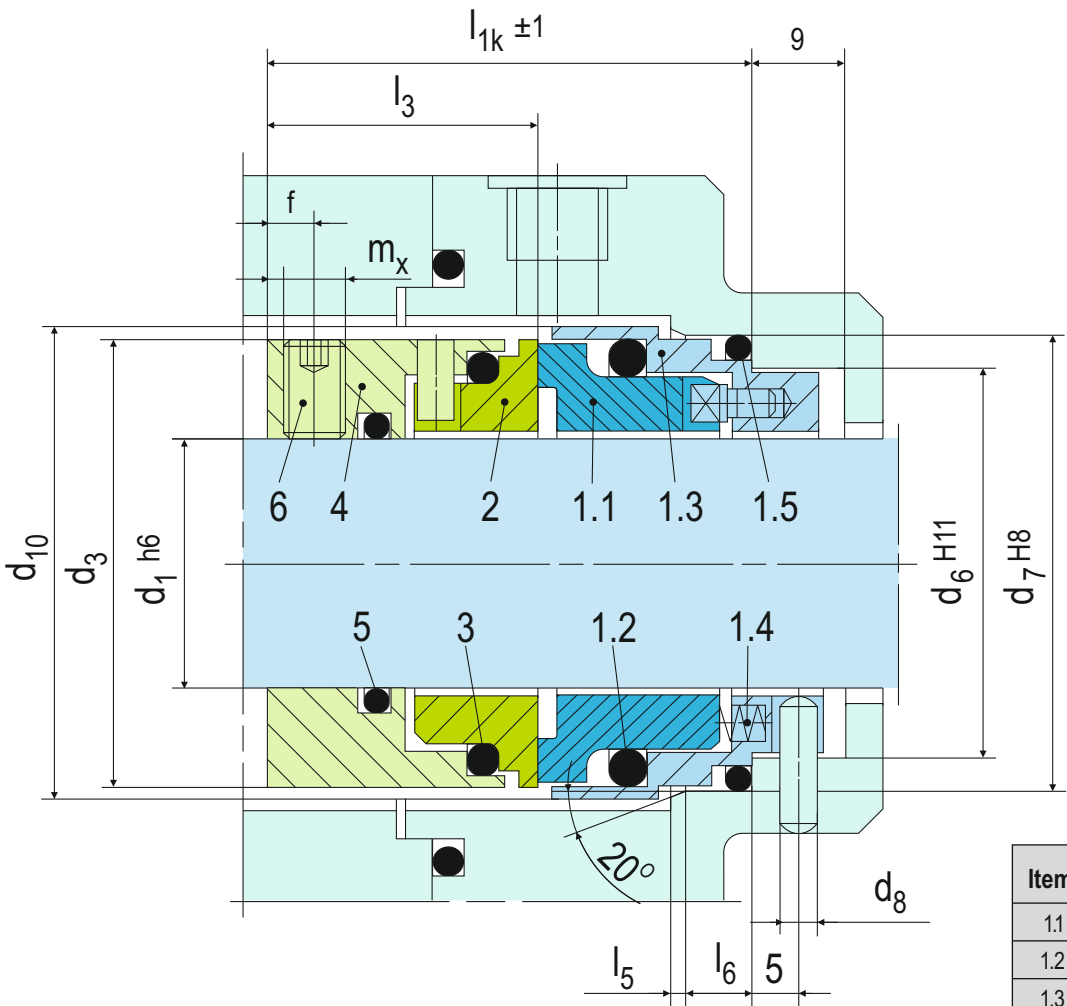


Product Description

- 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 industry
 Dirty, abrasive and solid containing media
 Fugitive hydrocarbons
 Refining technology
 Sticky and stringy media
 Water and waste water technology
 Chemical standard pumps
 Sewage pumps

Performance Capabilities

Sizes: d_1 = Upto 100 mm (Upto 4.000")
 Pressure: p_1 *) = 25 bar (363 PSI)
 Temperature: t = -40 °C .. +220 °C
 (-40 °F .. +428 °F)
 Speed = 20 m/s (66 ft/s)
 Permissible axial movement: ± 1.0 mm
 *) Additional seat locking is not needed in vacuum operation. For operation under vacuum it is necessary to arrange for quenching on the atmosphere.

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_1	d_3	d_6	d_7	d_8	d_{10}	l_{1k}	l_3	l_5	l_6	f	m_x
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.