



Description

Balanced
 Dual seals in tandem as well as back-to-back arrangements also available
 Independent of direction of rotation Single seal
 Stationary springs

Technical Features

Adjusts to shaft movements because of the stationary design
 Balanced seal even with plain shafts No damage of the shaft by a dynamically loaded O-Ring
 Operation in vacuum without additional seal locking possible
 Safe operation
 Small installation sizes
 Spring unit isolated from the product so no sticking and clogging of the springs
 Suitable for pressure reversals
 Suitable for solid containing and abrasive media

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 = Upto 100 mm (Upto 4.000")
 Pressure: p1*) = 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

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)

Dimensional Data

Dimensions in millimeter

d1	d3	d6	d7	d8	d10	I1k	I3	I5	I6	f	m _v
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.