

VGMXU Single Seals Standard Mechanical Seals - Metal Bellows Seals



Product Description

1. Single seal configuration
2. Balanced design
3. Independent of direction of rotation
4. For plain shafts
5. Rotary metal bellows design

Design Variations

UFLWT900

Shaft diameter: $d_1 =$ Upto 150 mm (Upto 6.000")
 Internally pressurized: $p_1 = \dots$ 16 bar (232 PSI)
 Externally pressurized: $p_1 =$ 10 bar (145 PSI)
 Temperature: $t = -20^\circ\text{C} \dots +400^\circ\text{C}$ (-4°F...+752°F)
 stationary seat lock necessary.
 Speed: = 20 m/s (66 ft/s)

Technical Features

1. Suitable for very high temperature application
2. No dynamically loaded O-ring
3. Pumping screw for media with higher viscosity also available
4. Short installation length possible
5. Rugged design for long operating life
6. Bellows design efficiently ensure self-cleaning

Typical Industrial Applications

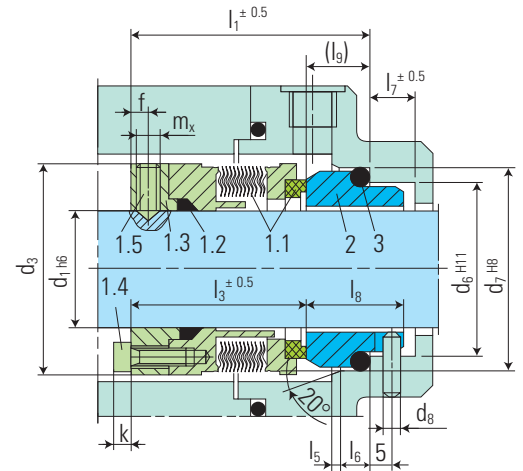
Chemical industry Power plant technology
 Highly viscous media Refining technology
 Hot media

Materials

Seal face: Carbon graphite antimony impregnated (A), Silicon carbide (Q12)
 Seat: Silicon carbide (Q1)
 Bellows: Inconel® 718 hardened (M6), Hastelloy® C-276 (M5)
 Metal parts: CrNiMo steel (G), Duplex (G1), Carpenter® 42 (T4), Hastelloy® C-4 (M)

Performance Capabilities

Sizes: $d_1 =$ Upto 150 mm (Upto 6.000")
 Externally pressurized:
 $p_1 = \dots$ 25 bar (363 PSI)
 Internally pressurized:
 $p_1 < 120^\circ\text{C}$ (248 °F) 10 bar (145 PSI)
 $p_1 < 220^\circ\text{C}$ (428 °F) 5 bar (73 PSI)
 $p_1 < 400^\circ\text{C}$ (752 °F) 3 bar (44 PSI)
 Stationary seat lock necessary
 Temperature: $t = -20^\circ\text{C} \dots +400^\circ\text{C}$ (-4 °F...+752 °F)
 Speed = 20 m/s (66 ft/s)



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.

Dimensional Data

Dimensions in millimeter

d1	d3	d6	d7	d8	l1	l3	l5	l6	l7	l8	l9	f	k	mx
16	38	29.0	35.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
18	40	31.0	37.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
20	42	34.0	40.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
22	44	37.0	43.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
24	46	37.0	43.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
25	47	39.0	45.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M5
28	50	42.0	48.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M6
30	52	44.0	50.0	3	58.0	46.5	2.0	5	9	19.5	11.5	5	5	M6
32	54	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
33	55	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
35	57	51.0	58.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
38	60	54.0	61.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	M6
40	66	56.0	63.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	M6
43	69	59.0	66.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	M6
45	71	62.0	70.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
48	74	65.0	73.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
50	76	67.0	75.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
53	79	70.0	78.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
55	81	72.0	80.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	M6
58	85	75.0	83.0	4	68.0	53.0	2.5	6	9	23.0	15.0	5	6	M6
60	87	77.0	85.0	4	68.0	53.0	2.5	6	9	23.0	15.0	6	6	M8
63	90	81.0	90.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
65	92	83.0	92.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
68	95	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
70	97	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	M8
75	102	95.0	105.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
80	107	100.0	110.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
85	112	105.0	115.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	M8
90	117	110.0	120.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	M8
95	122	115.0	125.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	M8
100	127	122.2	134.3	5	74.0	54.0	3.0	9	11	30.0	20.0	6	6	M8

Item	Part no.	Description
1.1	472/481	Seal face with bellows unit
1.2	410	Sealing Ring
1.3	474	Drive Collar
1.4		Socket head screw
1.5	904	Set screw
2	475	Seat
3	412	Sealing Ring
DIN 24250		

inch size available from size 0.625 to 4.000
Note: Additional technical & dimensional information will be provided on request.