

UFLWT 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

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
Highly viscous media
Hot media
Power plant technology
Refining technology

Design Variations

UFLWT900

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

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

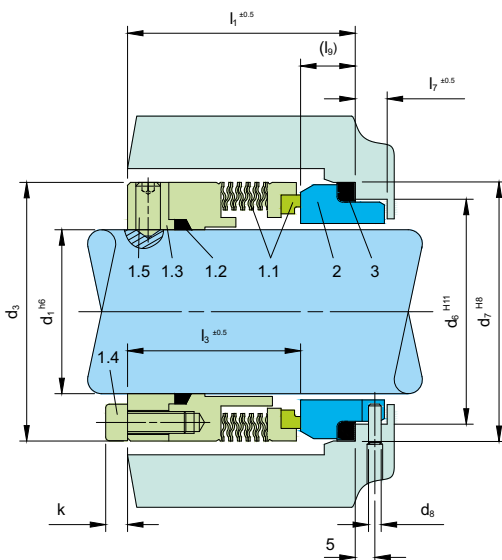
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Materials

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 = ... 25 bar (363 PSI)	
Internally pressurized:	
p_1 <120 °C (248 °F) 10 bar (145 PSI)	
p_1 <220 °C (428 °F) 5 bar (73 PSI)	
p_1 <400 °C (752 °F) 3 bar (44 PSI)	
Stationary seat lock necessary	
Temperature	t = -20 °C...+400 °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

	d ₁	d ₃	d ₆	d ₇	d ₈	l ₁	l ₃	l ₅	l ₆	l ₇	l ₈	l ₉	f	k	m _x
16	38	29.0	35.0	3	58.0	46.5	2.0	5	9	19.5	11.5	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	5	M5
20	42	34.0	40.0	3	58.0	46.5	2.0	5	9	19.5	11.5	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	5	M5
24	46	37.0	43.0	3	58.0	46.5	2.0	5	9	19.5	11.5	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	5	M5
28	50	42.0	48.0	3	58.0	46.5	2.0	5	9	19.5	11.5	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	5	M6
32	54	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	5	M6
33	55	49.0	56.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	5	M6
35	57	51.0	58.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	5	M6
38	60	54.0	61.0	4	60.5	46.5	2.0	6	9	22.0	14.0	5	5	5	M6
40	66	56.0	63.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	6	M6
43	69	59.0	66.0	4	61.5	47.5	2.0	6	9	22.0	14.0	5	6	6	M6
45	71	62.0	70.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	6	M6
48	74	65.0	73.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	6	M6
50	76	67.0	75.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	6	M6
53	79	70.0	78.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	6	M6
55	81	72.0	80.0	4	62.5	47.5	2.5	6	9	23.0	15.0	5	6	6	M6
58	85	75.0	83.0	4	68.0	53.0	2.5	6	9	23.0	15.0	5	6	6	M6
60	87	77.0	85.0	4	68.0	53.0	2.5	6	9	23.0	15.0	6	6	6	M8
63	90	81.0	90.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	6	M8
65	92	83.0	92.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	6	M8
68	95	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	6	M8
70	97	88.0	97.0	4	71.0	53.0	2.5	7	9	26.0	18.0	6	6	6	M8
75	102	95.0	105.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	6	M8
80	107	100.0	110.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	6	M8
85	112	105.0	115.0	4	71.0	52.8	3.0	7	9	26.2	18.2	6	6	6	M8
90	117	110.0	120.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	6	M8
95	122	115.0	125.0	4	71.0	53.8	3.0	7	9	25.2	17.2	6	6	6	M8
100	127	122.2	134.3	5	74.0	54.0	3.0	9	11	30.0	20.0	6	6	6	M8

inch size available from size 0.625 to 4.000

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

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