

SFL650

Description

Balanced
 For shafts without a step Independent of direction of rotation Metal bellows rotating
 Single Seal

Technical Features

For extreme high temperature ranges No dynamically loaded O-Ring Pumping screw for highly viscous media available Self cleaning effect Short installation length possible

Typical Industrial Applications

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

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: d1 = Upto 150 mm (Upto 6.000'')
 Externally pressurized: p1 = ... 25 bar (363 PSI)
 Internally pressurized:
 p1 <120 °C (248 °F) 10 bar (145 PSI)
 p1 <220 °C (428 °F) 5 bar (73 PSI)
 p1 <400 °C (752 °F) 3 bar (44 PSI)
 Stationary seat lock necessary
 Temperature: t = -40 °C .. +400 °C (-148 °F .. +752 °F)
 Speed = 20 m/s (66 ft/s)

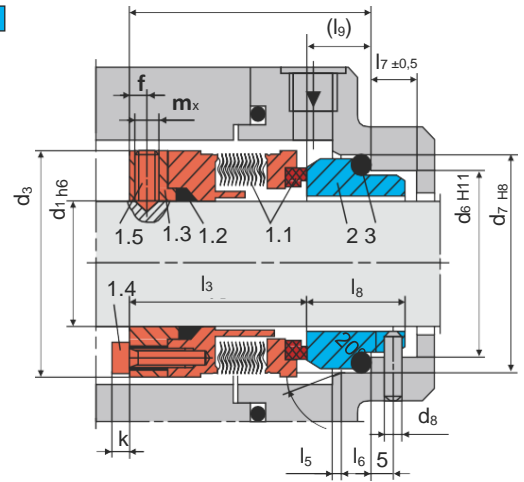


l1 ±0.5

Design Variations

UFLWT900

Shaft diameter: d1 = Upto 150 mm (Upto 6.000'')
 Internally pressurized: p1 = ... 16 bar (232 PSI)
 Externally pressurized: p1 = 10 bar (145 PSI)
 Temperature: t = -20 °C ... +400 °C (-4 °F...+752 °F), stationary seat lock necessary. Speed: Vg = 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

DIN 24250

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