



COWSEAL

A leading mechanical seal manufacturer



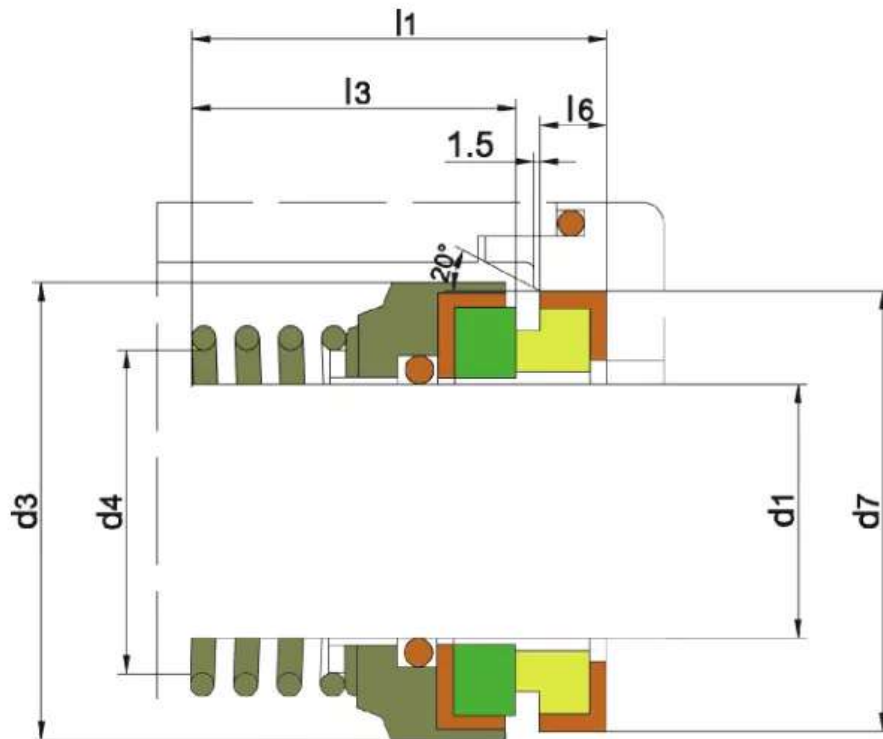
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Welcome to Product Catalog for COWSEAL



<u>Mechanical seal</u>	01
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WM 101

OPERATING CONDITIONS

PRESSURE: $\leq 0.4\text{MPa}$

SPEED: $\leq 3\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CERAMIC)
- STATIONARY RING (PLASTIC CARBON)
- SECONDARY RING (NBR/VITON)
- SPRING AND RETAINER (S.S/COPPER)

Model	d1(mm)	d3	d4	d7	l1	l3	l6
WM101-16	16	30	23	35	35	27	5.5
WM101-25	25	42.5	29.5	41	40	31	7
WM101-35	35	54	41	52	45	36	7



WM 102

OPERATING CONDITIONS

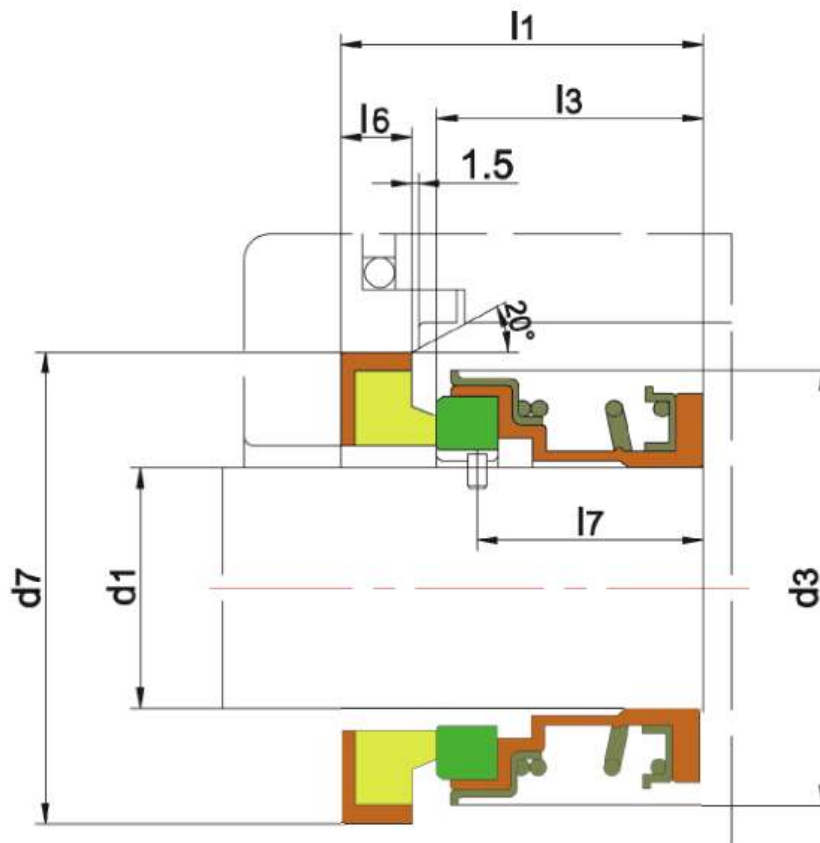
PRESSURE: $\leq 0.3\text{MPa}$

SPEED: $\leq 3\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$

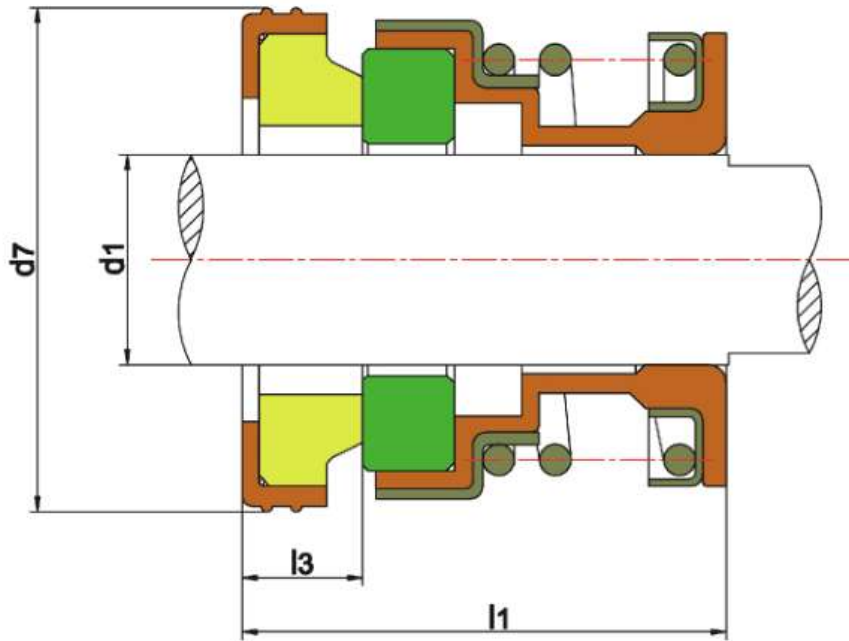
MATERIALS COMBINATION

- ROTARY RING (CERAMIC)
- STATIONARY RING (PLASTIC CARBON)
- SECONDARY RING (NBR/VITON)
- SPRING AND RETAINER (S.S/COPPER)



Model	d1(mm)	d3	d7	l1	l3	l6	l7
WM102-14	14	33	35	24.5	17.5	5	13
WM102-18	18	37	40	24.5	17.5	5	13
WM102-20	20	38	40	25	18	5	15





WM 103

OPERATING CONDITIONS

PRESSURE: $\leq 0.8\text{MPa}$

SPEED: $\leq 5\text{M/S}$

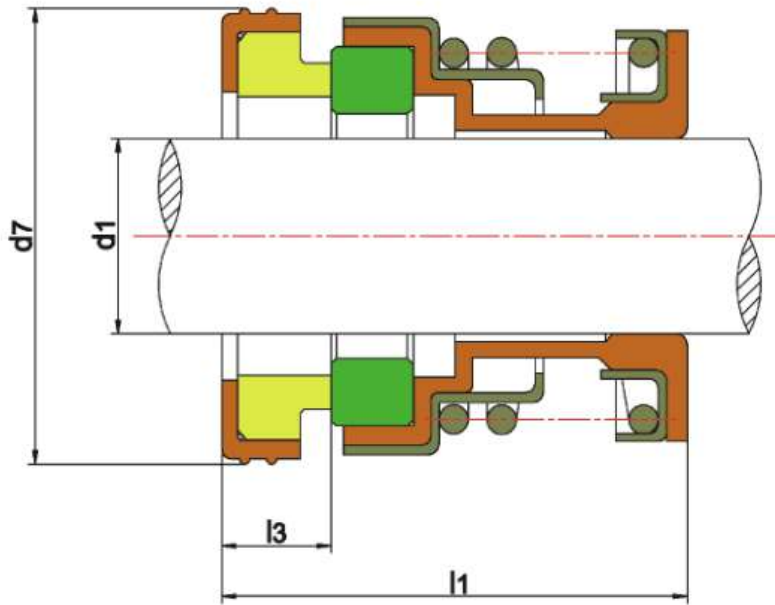
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CERAMIC)
- STATIONARY RING (PLASTIC CARBON)
- SECONDARY RING (NBR/VITON)
- SPRING AND RETAINER (S.S./COPPER)

Model	d1(mm)	d7	l1	l3
WM103-10	10	25	20.5	5
WM103-12	12	26	20.5	5.5
WM103-14	14	30	20.5	7
WM103-17	17	35	20.5	7
WM103-18	18	35	20.5	7





WM 104

OPERATING CONDITIONS

PRESSURE: ≤ 0.4MPA

SPEED: ≤ 5M/S

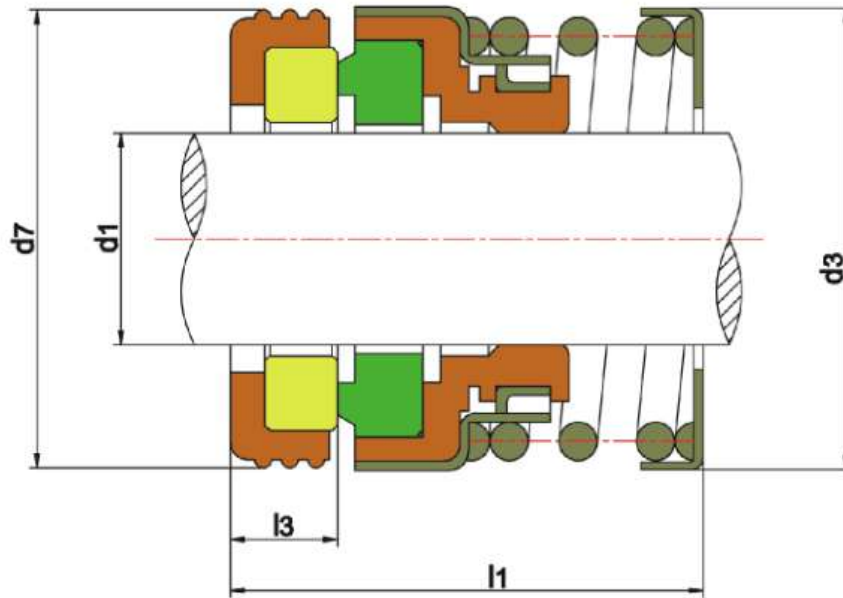
TEMPERATURE: -30℃ ~+200℃

MATERIALS COMBINATION

- ROTARY RING (CERAMIC)
- STATIONARY RING (PLASTIC CARBON)
- SECONDARY RING(NBR/VITON)
- SPRING AND RETAINER(S.S/COPPER)

Model	d1(mm)	d7	l1	l3
WM104-9	9	22	20	5.5
WM104-10	10	22	20	5.5
WM104-11	11	24	20	5.5
WM104-12	12	24	20	5.5
WM104-14	14	26	25	7
WM104-15	15	28	25	7
WM104-16	16	28	25	7
WM104-17	17	34	25	7
WM104-18	18	34	25	7
WM104-19	19	36	25	7
WM104-20	20	36	25	7
WM104-22	22	38	25	7
WM104-25	25	41	37	9
WM104-30	30	46	37	9
WM104-35	35	51	37	9
WM104-40	40	60	40	10.5
WM104-45	45	65	40	10.5





WM 108

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 10\text{M/S}$

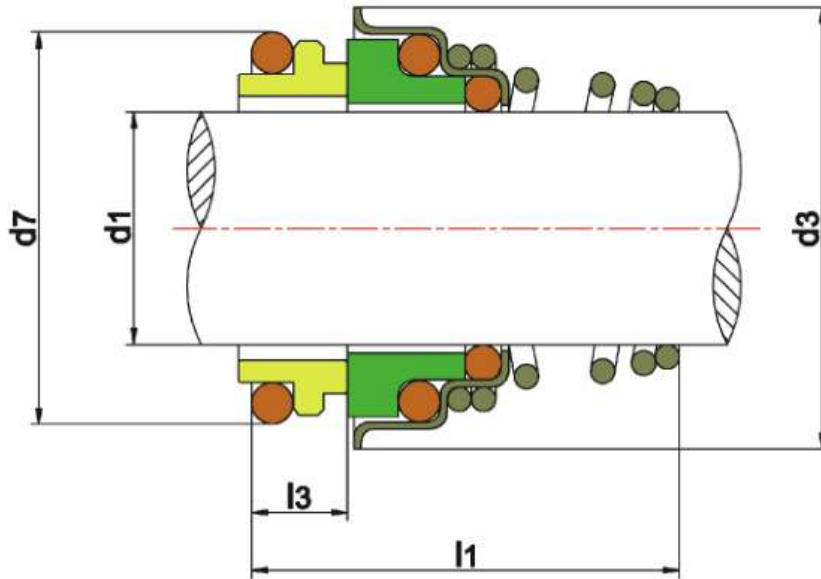
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL (NBR/EPDM/VITON)
- SPRING & OTHER PARTS (SUS304/SUS316)

Model	d1(mm)	d3	d7	l1	l3	Model	d1(mm)	d3	d7	l1	l3
WM108-9	9	20	21	20	5	WM108-20	20	34	35	25	7
WM108-10	10	20	21	20	5	WM108-22	22	36	37	28	7
WM108-11	11	22	23	20	5	WM108-25	25	39	40	32	8
WM108-12	12	22	23	20	5	WM108-28	28	42	43	35	8
WM108-14	14	24.5	25	25	5	WM108-30	30	44	45	35	8
WM108-15	15	26.5	27	25	5	WM108-35	35	49	50	37	8
WM108-16	16	26.5	27	25	5	WM108-40	40	56	58	40	8
WM108-17	17	32	33	25	5	WM108-45	45	61	63	40	9
WM108-18	18	32	33	25	5	WM108-50	50	67	70	45	9
WM108-19	19	34	35	25	7	WM108-55	55	72	75	45	9





WM 155/155B

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 10\text{M/S}$

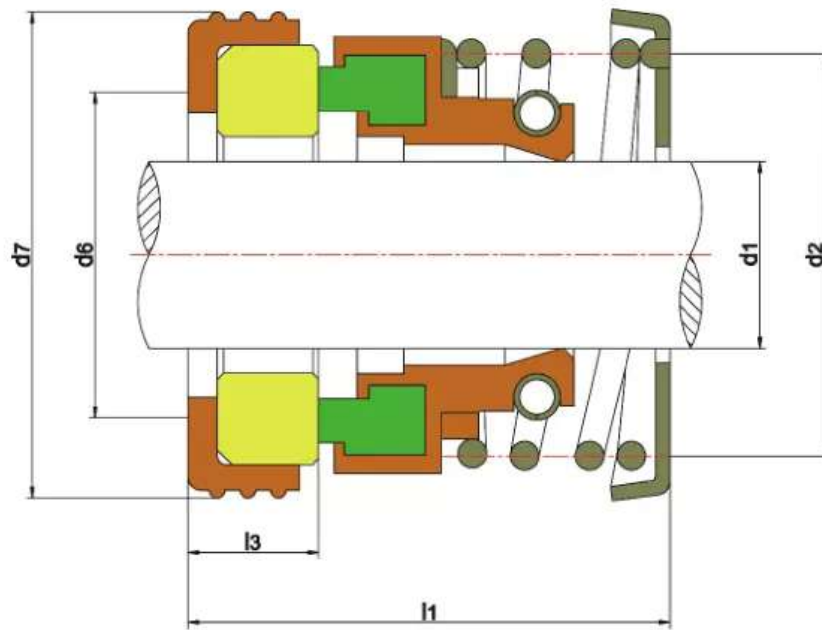
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1 (mm)	d3	d7	l1	l3	Model	d1 (mm)	d3	d7	l1	l3
WM155-10	10	20	18.1	20.5	5.5	WM155B-10	10	20	21	15.2	7
WM155-11	11	22	20.6	23.5	5.5	WM155B-12	12	22	23	18.2	7
WM155-12	12	22	20.6	23.5	5.5	WM155B-14	14	25	25	22.2	7
WM155-13	13	25	23.1	28	6	WM155B-16	16	29	27	23.2	7
WM155-14	14	25	23.1	28	6	WM155B-18	18	33	33	24.2	10
WM155-15	15	29	26.9	30	7	WM155B-20	20	33	35	25.2	10
WM155-16	16	29	26.9	30	7	WM155B-22	22	38	37	25.2	10
WM155-17	17	29	26.9	30	7	WM155B-24	24	38	39	27.2	10
WM155-18	18	33	30.9	32	8	WM155B-25	25	40	40	27.2	10
WM155-19	19	33	30.9	33	8	WM155B-28	28	46	43	29.2	10
WM155-20	20	33	30.9	33	8	WM155B-30	30	46	45	30.2	10
WM155-21	21	38	35.4	33	8	WM155B-32	32	46	48	30.2	10
WM155-22	22	38	35.4	33	8	WM155B-33	33	48	48	39.2	10
WM155-23	23	38	35.4	35	8	WM155B-35	35	50	50	39.2	10
WM155-24	24	38	35.4	35	8	WM155B-38	38	56	56	42.2	13
WM155-25	25	40	38.2	35.5	8.5	WM155B-40	40	58	58	42.2	13
WM155-28	28	46	43.3	39	9						
WM155-29	29	46	43.3	39	9						
WM155-30	30	46	43.3	39	9						
WM155-32	32	46	43.3	39	9						
WM155-33	33	48	53.5	50.5	11.5						
WM155-35	35	50	53.5	50.5	11.5						
WM155-38	38	58	60.5	50.5	11.5						
WM155-40	40	58	60.5	50.5	11.5						





WM 156

OPERATING CONDITIONS

PRESSURE: $\leq 0.5\text{MPa}$

SPEED: $\leq 10\text{M/S}$

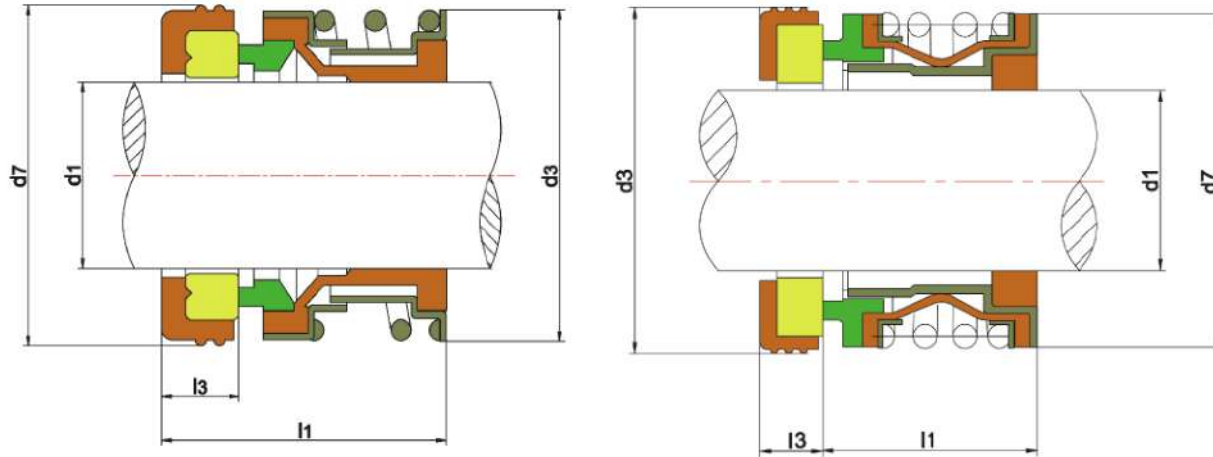
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d3	d7	l1	l3	Model	d1(mm)	d3	d7	l1	l3
WM108-9	9	20	21	20	5	WM108-20	20	34	35	25	7
WM108-10	10	20	21	20	5	WM108-22	22	36	37	28	7
WM108-11	11	22	23	20	5	WM108-25	25	39	40	32	8
WM108-12	12	22	23	20	5	WM108-28	28	42	43	35	8
WM108-14	14	24.5	25	25	5	WM108-30	30	44	45	35	8
WM108-15	15	26.5	27	25	5	WM108-35	35	49	50	37	8
WM108-16	16	26.5	27	25	5	WM108-40	40	56	58	40	8
WM108-17	17	32	33	25	5	WM108-45	45	61	63	40	9
WM108-18	18	32	33	25	5	WM108-50	50	67	70	45	9
WM108-19	19	34	35	25	7	WM108-55	55	72	75	45	9





WM 166/E

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 15\text{M/S}$

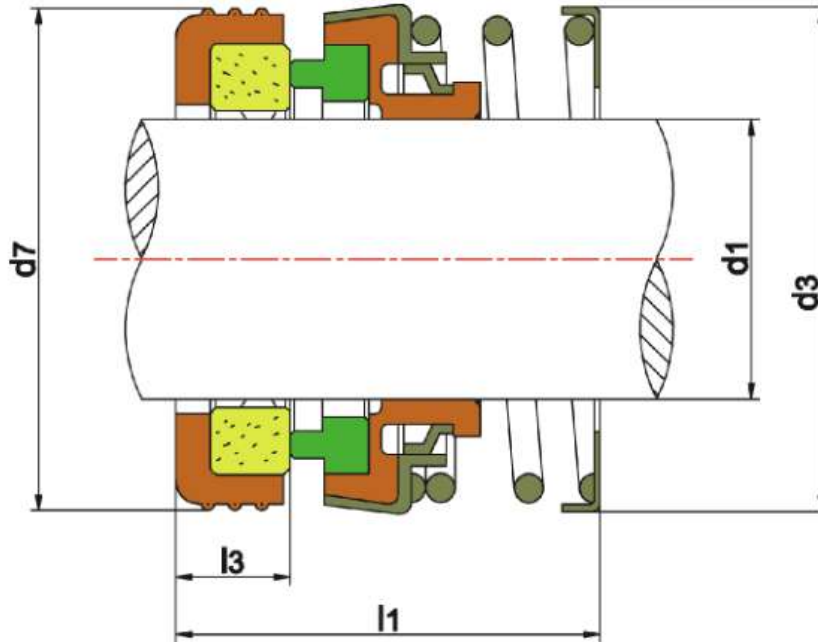
TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +200\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(Inch)	d3	d7	l1	l3
WM166-5/16"	7.938	23.29	25.4	24.5	7.9
WM166-3/8"	9.525	23.29	22.225	23.8	7.14
WM166-1/2"	12.7	23.29	25.4	24.8	7.93
WM166-5/8"	15.875	30.1	31.75	28.55	10.31
WM166-3/4"	19.05	33.07	34.925	28.55	10.31
WM166-7/8"	22.225	36.3	38.1	30.94	10.31
WM166-1"	25.4	39.42	41.275	31.72	11.1
Model	d1(Inch)	d3	d7	l1	l3
WME-3/8"A	9.53	23.8	22.23	16.08	6.35
WME-3/8"	9.53	26.97	25.4	16.86	7.93
WME-1/2"A	12.7	26.97	25.4	16.86	6.35
WME-1/2"	12.7	26.97	25.4	16.86	7.93
WME-5/8"	15.88	30.94	31.75	18.44	10.31
WME-3/4"	19.05	34.11	34.93	18.44	10.31
WME-7/8"	22.23	42.85	41.28	20.82	11.1
WME-1"	25.4	42.85	41.28	20.82	11.1





WM 166T

OPERATING CONDITIONS

PRESSURE: ≤ 0.5 MPA

SPEED: ≤ 10 M/S

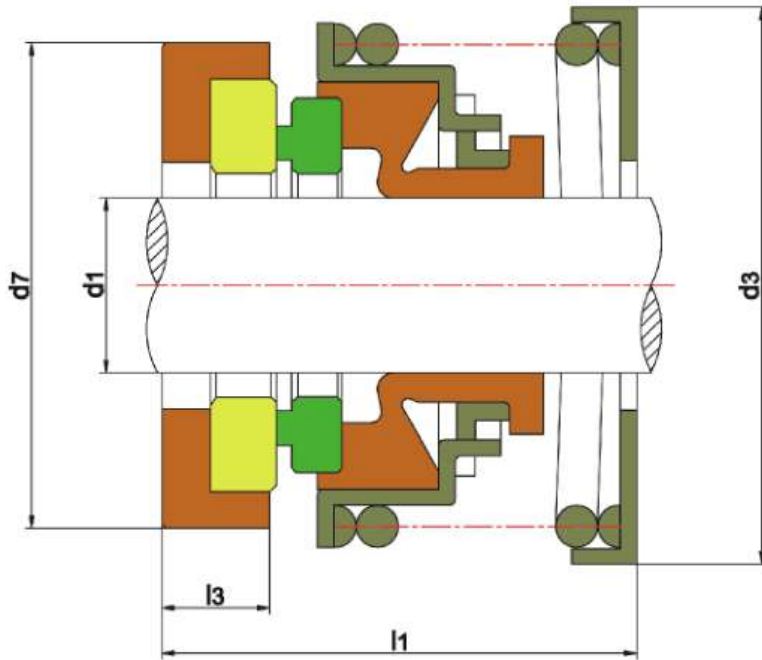
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- CUP GASKET (NBR/EPDM/VITON)
- SPRING(SUS304/SUS316)
- DRIVE RING(SUS304/SUS316)
- RETAINER(SUS304/SUS316)
- BELLOWS(NBR/EPDM/VITON)

Model	d1(Inch)	d3	d7	l1	l3	Model	d1(mm)	d3	d7	l1	l3
WM166T-3/8"	9.525	23.292	24.587	34.138	8.738	WM166T-12	12	23.3	27.8	34.1	8.7
WM166T-7/16"	11.1	22	30	26	5.4	WM166T-16	16	30.1	30.95	35.7	10.3
WM166T-1/2"	12.7	23.292	27.788	34.138	8.738	WM166T-20	20	36.3	35.7	35.7	10.3
WM166T-5/8"	15.875	30.099	30.937	35.712	10.312	WM166T-22	22	36.3	37.3	35.7	10.3
WM166T-3/4"	19.05	33.071	33.1/34.138	35.712	6.5/10.312	WM166T-24	24	39.4	40.5	35.7	10.3
WM166T-7/8"	22.225	36.297	37.287	35.712	10.312	WM166T-25	25	39.4	40.5	35.7	10.3
WM166T-1"	25.4	39.421	40.488/41.28	43.307	10.3/11.1	WM166T-28	28	44.4	47.65	45.2	11.9
WM166T-1 1/8"	28.575	44.45	47.625	44.907	11.913	WM166T-30	30	47.6	50.8	45.2	11.9
WM166T-1 1/4"	31.75	47.625	50.8	44.907	11.913	WM166T-32	32	47.6	50.8	45.2	11.9
WM166T-1 3/8"	34.925	50.8	53.975	44.907	11.913	WM166T-35	35	50.8	54	45.2	11.9
WM166T-1 1/2"	38.1	53.975	57.15	44.907	11.913	WM166T-38	38	54	57.15	45.2	11.9
WM166T-1 5/8"	41.275	60.325	60.325	44.907	11.913	WM166T-40	40	60.3	60.35	45.2	11.9
WM166T-1 3/4"	44.45	60.325	63.5	52.934	11.913	WM166T-45	46	66.7	63.5	52.4	11.9
WM166T-1 7/8"	47.625	63.881	66.675	52.934	11.913	WM166T-48	48	66.7	66.7	52.4	11.9
WM166T-2"	50.8	69	69.85	54.508	13.487	WM166T-50	50	69	69.85	54	13.5
WM166T-3"	76.2	98.4	101.6	68.25	15.875	WM166T-55	55	74.6	73.05	54	13.5





WM 70

OPERATING CONDITIONS

PRESSURE: $\leq 0.6\text{MPa}$

SPEED: $\leq 10\text{M/S}$

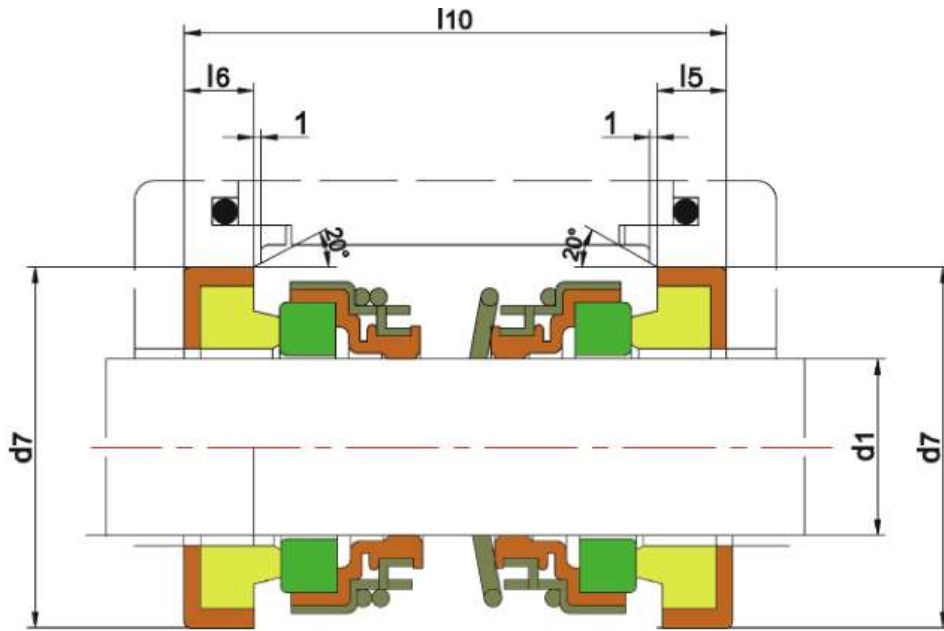
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d7	d3	l1	l3
WM70-10	10	25.4	22.6	19	5.6
WM70-13	13	29.5	31.5	32	8
WM70-14	14	29.5	31.5	32	8
WM70-15	15	29.5	31.5	26/32	8
WM70-16	16	29.5	31.5	26/32	8





WM 202

OPERATING CONDITIONS

PRESSURE: ≤ 1.2MPA

SPEED: ≤ 10M/S

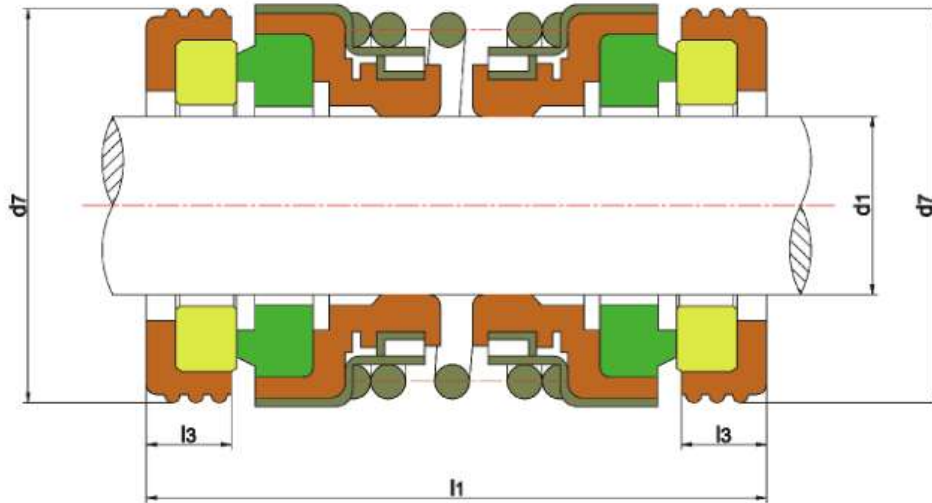
TEMPERATURE: -30℃ ~+200℃

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d7	l10	l6
WM202-14	14	26/28	35/38	5.0
WM202-16	16	28	38/45	5.0
WM202-17	17	34/35	38/48	5.0
WM202-18	18	34/35	38/48	5.0
WM202-20	20	36/1	40/48	5.0
WM202-22	22	38	45	5.5
WM202-25	25	41	51.0	7.0
WM202-30	30	46	51.0	7.0
WM202-35	35	51	51.0	7.0
WM202-40	40	60	61.0	8.0
WM202-45	45	65	61.0	8.0





WM 208

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +200\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d7	l1	l3
WM208-10	10	21	30	5
WM208-12	12	23	30	5
WM208-14	14	26/28	38	6
WM208-16	16	28/30	38	5
WM208-18	18	33/35	38	5
WM208-20	20	35/36	40	5.5
WM208-25	25	40/41	48	8
WM208-30	30	45	51	8
WM208-35	35	50	51	8
WM208-40	40	58	58	9
WM208-45	45	63	58	9



WM 560D

OPERATING CONDITIONS

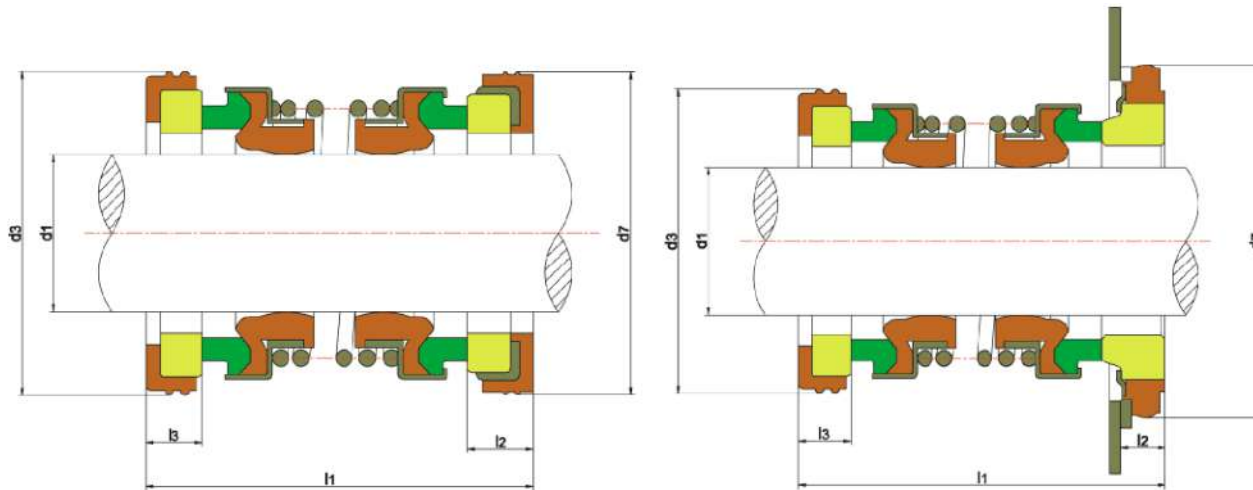
PRESSURE: $\leq 0.3\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

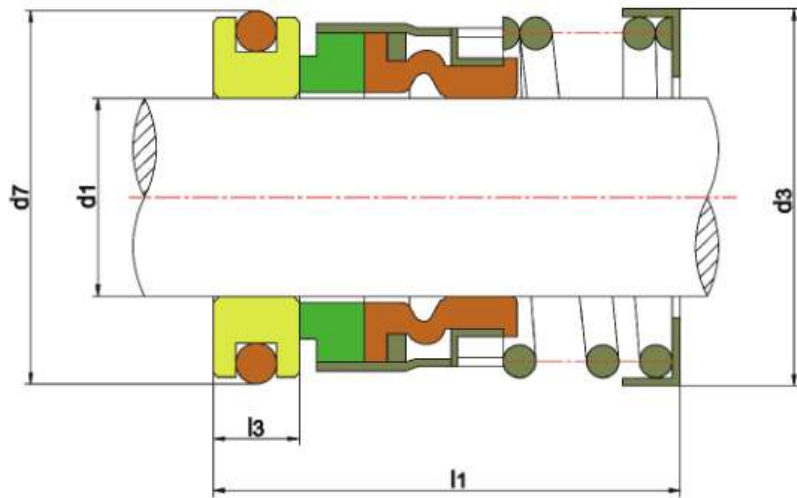
MATERIALS COMBINATION

- ROTARY RING (PLASTIC CARBON/
CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)



Model	d1(mm)	d3	d7	l1	l2	l3
WM560D-13	13	25	25	36	5	5
WM560D-14	14	30	30	37	5	5
WM560D-15	15	30	30	37	5	5
WM560D-16	16	30	30	37	5	5
WM560D-18	18	35	38	49	7	10
WM560D-19	19	35	38	49	7	10
WM560D-20	20	38	44	49	7	7
WM560D-25	25	44	50	51	7	7
WM560D-30	30	50	57	59	9	8
WM560D-35	35	58	64	61	9	9
WM560D-40	40	64	70	64	11	9
WM560D-45	45	66	70	65	10	9
WM560D-50	50	72	80	69	10	9





WM T1

OPERATING CONDITIONS

PRESSURE: ≤ 2.8MPA

SPEED: ≤ 13M/S

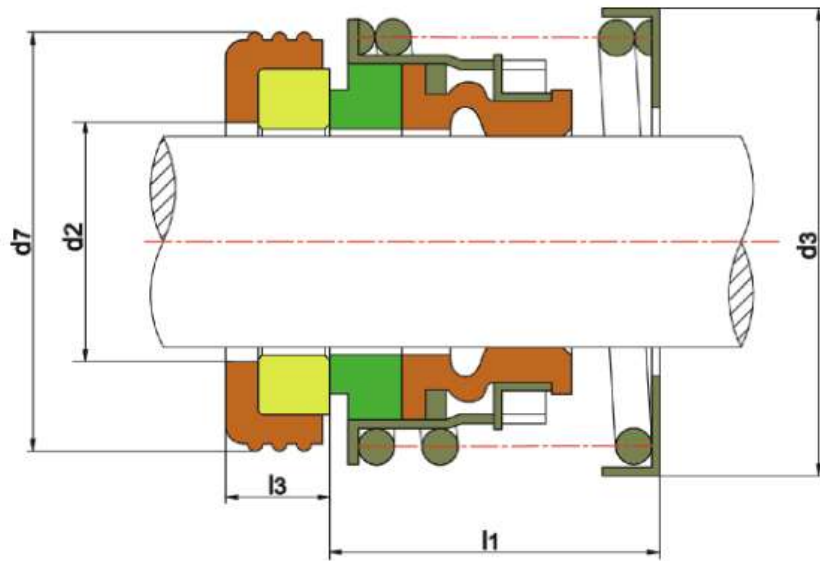
TEMPERATURE: -30℃ ~+200℃

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(Inch)	d3	d7	l1	l3
WMT1-5/8"	15.872	27.76	31.75	43.81	10.29
WMT1-3/4"	19.05	30.6	34.93	43.81	10.29
WMT1-7/8"	22.225	35	38.1	45.43	10.29
WMT1-1"	25.4	39	41.28	50.97	11.1
WMT1-1 1/8"	28.575	42	44.45	52.58	11.1
WMT1-1 1/4"	31.75	45	47.63	52.58	11.1
WMT1-1 3/8"	34.925	49	50.8	52.58	11.1
WMT1-1 1/2"	38.1	51	53.98	54.15	11.1
WMT1-1 5/8"	41.275	58	60.33	54.15	12.7
WMT1-1 3/4"	44.45	61	63.5	63.7	12.7
WMT1-1 7/8"	47.625	63.8	66.68	63.7	12.7
WMT1-2"	50.8	68	69.85	66.87	12.7
WMT1-2 1/8"	53.9	71.42	76.2	74.8	14.27
WMT1-2 1/4"	57.1	74.6	79.38	74.8	14.27
WMT1-2 3/8"	60.3	77.77	82.55	77.97	14.27
WMT1-2 1/2"	63.5	80.95	85.73	77.97	14.27
WMT1-2 5/8"	66.6	85.73	85.73	85.95	15.9
WMT1-2 3/4"	69.8	88.9	88.9	85.95	15.9
WMT1-2 7/8"	73	92.8	95.25	89.1	15.9
WMT1-3"	76.2	95.25	98.43	89.1	15.9





WM T2

OPERATING CONDITIONS

PRESSURE: $\leq 2.8\text{MPa}$

SPEED: $\leq 13\text{M/S}$

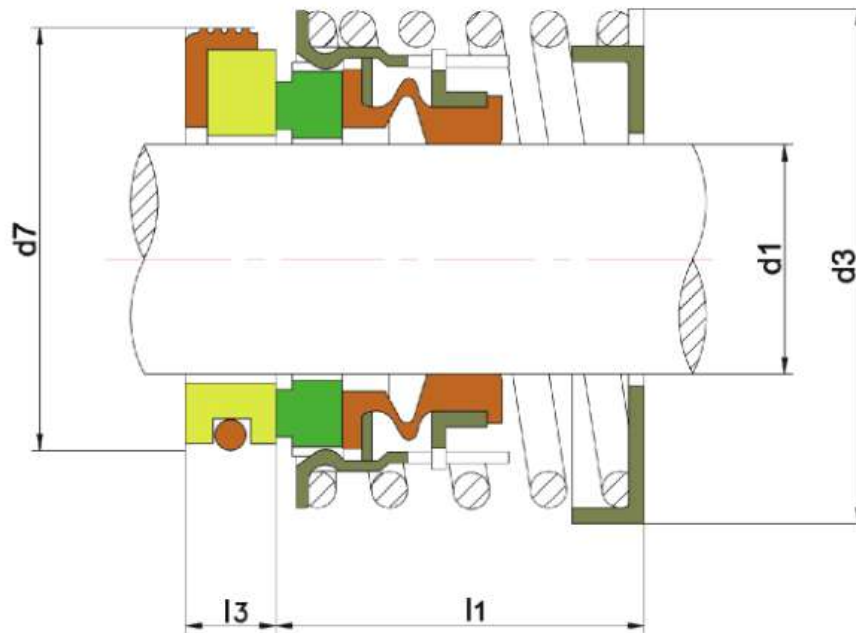
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model(Inch)	Model(metric)	d7	d2	d3	l1	l3
WMT2-1/2"	12	25.40	19.05	30.14	20.64	7.93
	14	31.75	23.80	33.32	22.23	10.28
WMT2-5/8"	16	31.75	23.80	33.32	22.23	10.28
WMT2-3/4"	18	34.93	26.98	36.50	22.23	10.28
	20	38.10	30.15	39.67	23.80	10.28
WMT2-7/8"	22	38.10	30.15	39.67	23.80	10.28
	24	41.28	33.32	45.50	25.40	11.10
WMT2-1"	25	41.28	33.32	45.50	25.40	11.10
WMT2-1 1/8"	28	44.44	36.50	48.50	26.97	11.10
	30	47.63	37.90	52.37	26.97	11.10
WMT2-1 1/4"	32	47.63	37.90	52.37	126.97	11.10
	33	50.80	42.84	56.00	28.58	11.10
WMT2-1 3/8"	35	50.80	42.84	56.00	28.58	11.10
WMT2-1 1/2"	38	53.98	46.05	59.20	28.58	11.10
WMT2-1 5/8"	40	60.38	50.80	67.00	34.93	12.70
	43	63.50	53.97	69.85	34.93	12.70
WMT2-1 3/4"	45	63.50	53.97	69.85	34.93	12.70
WMT2-1 7/8"	48	66.68	57.15	73.03	38.10	12.70
	48	69.85	60.32	73.03	38.10	12.70
WMT2-2"	50	69.85	60.32	76.20	38.10	12.70
WMT2-2 1/8"	53	76.20	60.32	82.55	42.85	14.28
WMT2-2 1/4"	55	79.38	61.90	85.73	42.85	14.28
WMT2-2 3/8"	60	82.55	67.39	88.90	46.02	14.28
WMT2-2 1/2"	63	85.73	68.25	92.08	46.02	14.28
WMT2-2 5/8"	65	87.73	71.24	98.43	49.20	15.90
WMT2-2 3/4"	70	88.90	74.60	101.60	49.20	15.90
WMT2-2 7/8"	73	95.25	77.77	104.78	52.37	15.90
WMT2-3"	75	98.43	80.95	107.95	52.37	15.90





WM FBD

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 12\text{M/S}$

TEMPERATURE: $-30 \sim +200\text{ }^{\circ}\text{C}$

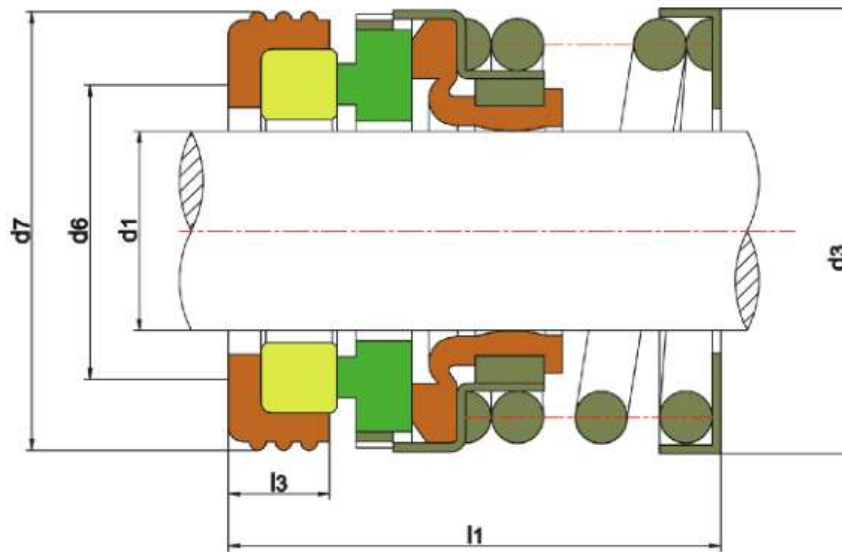
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l3	l1
WMFBD-16	16	34	30	8	25.2
WMFBD-18	18	36.8	32	8	25.2
WMFBD-20	20	38.8	34	8	25.2
WMFBD-22	22	41.5	36	8	25.2
WMFBD-25	25	44.8	39	8	26.2
WMFBD-28	28	48.5	43	8	26.2
WMFBD-30	30	52	48	8	26.2
WMFBD-35	35	57	53	10	30.2
WMFBD-40	40	67	58	10	34.2
WMFBD-45	45	73	63	10	36.2
WMFBD-50	50	79	68	10	41.2
WMFBD-55	55	84	73	12	41.2
WMFBD-60	60	90	79	12	41.2
WMFBD-65	65	98.5	86	12	49.2
WMFBD-70	70	103.5	91	12	52.2
WMFBD-75	75	110.5	96	12	52.2
WMFBD-80	80	120	105	14	56.2
WMFBD-85	85	125	110	14	56.2
WMFBD-90	90	132	115	14	56.2
WMFBD-95	95	137	120	14	56.2
WMFBD-100	100	144	125	14	62.2
WMFBD-110	110	157	135	16	62.2
WMFBD-120	120	169.5	145	16	72.2

Model	d1(Inch)	d3	d7	l3	l1
WMFBD-5/8"	15.87	34	30.95	10.3	25.2
WMFBD-3/4"	19.05	38.8	34.15	10.3	25.2
WMFBD-7/8"	22.22	41.5	37.3	10.3	25.2
WMFBD-1"	25.4	44.8	40.5	10.3	25.2
WMFBD-1 1/8"	28.57	48.5	47.65	11.9	33.2
WMFBD-1 1/4"	31.75	57	50.8	11.9	33.2
WMFBD-1 3/8"	34.92	57	54	11.9	33.2
WMFBD-1 1/2"	38.1	67	57.15	11.9	33.2
WMFBD-1 5/8"	41.27	67	60.35	11.9	33.2
WMFBD-1 3/4"	44.45	73	63.5	11.9	41.2
WMFBD-1 7/8"	47.62	73	66.7	11.9	41.2
WMFBD-2"	50.8	79	69.85	13.5	41.2
WMFBD-2 1/8"	53.97	84	73.05	13.5	41.2
WMFBD-2 1/4"	57.15	84	76.2	13.5	41.2
WMFBD-2 3/8"	60.32	90	79.4	13.5	41.2
WMFBD-2 1/2"	63.5	94	82.55	13.5	41.2





WM 560A/B

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 12\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

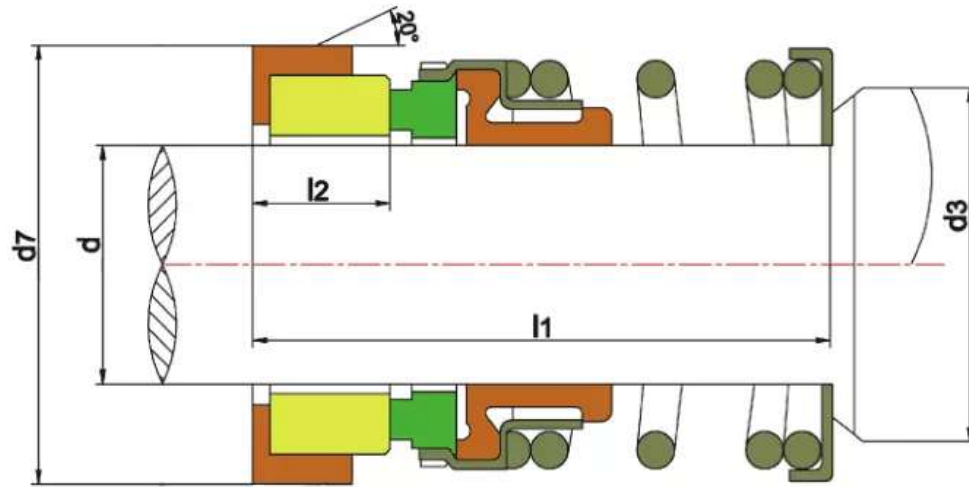
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d6	d7	l1	l3
WM560A-10	10	23.5	16	24	25	7
WM560A-11	11	23.5	16	24	25	7
WM560A-12	12	26	17	26	25	7
WM560A-14	14	28	21	28	25.5	7
WM560A-15	15	30	21	28	29.5	7
WM560A-16	16	32	22	32	33.5	10
WM560A-18	18	32.5	25	35	36.5	10
WM560A-19	19	32.5	25	35	36.5	10
WM560A-20	20	35.5	27	38	38	10
WM560A-22	22	37.5	29	40	40.3	10
WM560A-25	25	42	32	44	39.3	10
WM560A-28	28	47	34	46	40	10
WM560A-30S	30	46	35	45	38.2	7.5
WM560A-30L	30	48	38	50	40	10
WM560A-32	32	50	40	54	40	10
WM560A-35	35	54.5	44	58	42	10
WM560A-38	38	58.5	46	60	42.6	10
WM560A-40	40	62.5	48	64	42.6	10
WM560A-45	45	66.5	52	66	45	10
WM560A-50	50	72.5	58	72	54.6	11.5
WM560A-55S	55	72	60	75	59.4	12

Model	d1(Inch)	d3	d6	d7	l1	l3
WM560B-3/8"	9.525	23.5	14.3	22.23	28.6	7.9
WM560B-1/2"	12.7	26	17.5	25.4	28.6	7.9
WM560B-5/8"	15.875	30	20.6	31.75	32.5	10.3
WM560B-3/4"	19.05	32.5	23.8	34.93	32.5	10.3
WM560B-7/8"	22.225	37.5	27	38.1	34.1	10.3
WM560B-1"	25.4	44	30.2	41.28	36.5	11.1
WM560B-1 1/8"	28.575	48	33.3	44.45	38.1	11.1
WM560B-1 1/4"	31.75	50	36.5	47.63	38.1	11.1
WM560B-1 3/8"	34.925	54.5	39.7	50.8	39.7	11.1
WM560B-1 1/2"	38.1	58.5	42.9	53.98	39.7	11.1
WM560B-1 5/8"	41.275	64	46	60.33	47.6	12.7
WM560B-1 3/4"	44.45	67	49.2	63.5	47.6	12.7
WM560B-1 7/8"	47.625	71	52.4	66.68	50.8	12.7
WM560B-2"	50.8	73.5	55.6	69.85	50.8	12.7
WM560B-2 1/8"	53.975	75.6	\	76.2	57.2	14.3
WM560B-2 1/4"	57.15	80	65	79.38	57.2	14.3
WM560B-2 3/8"	60.325	79.6	\	82.55	57.2	14.3
WM560B-2 1/2"	63.5	84.9	70	85.73	60.3	14.3
WM560B-2 5/8"	66.675	84.6	\	85.725	65.1	15.9
WM560B-2 3/4"	69.85	93	\	88.9	65.1	15.9
WM560B-3"	76.2	102	\	98.425	68.3	15.9





WM BIA

OPERATING CONDITIONS

PRESSURE: $\leq 1\text{MPa}$

SPEED: $\leq 10\text{M/S}$

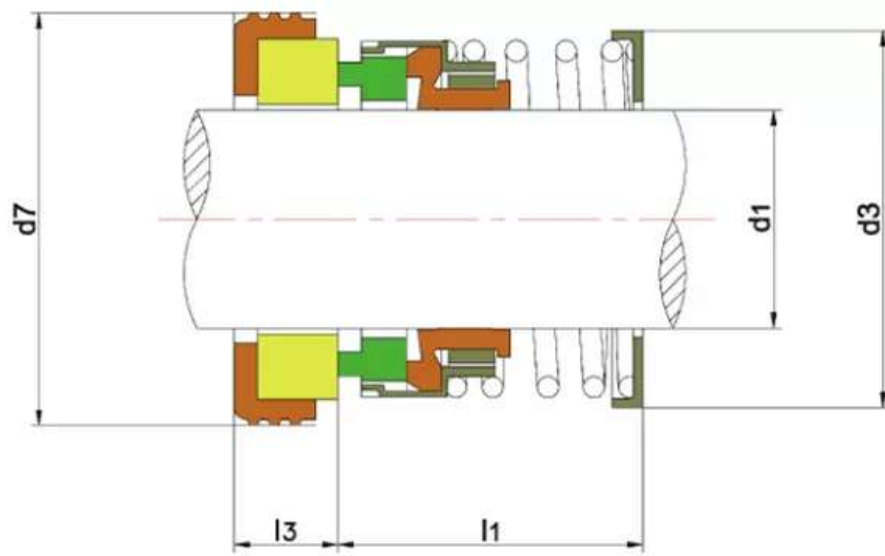
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d(mm)	d3	d7	l1	l2
WMBIA-14	14	27	30	23.7	5
WMBIA-16	16	28.5	32	26	5
WMBIA-18	18	30.5	35	30	7.5
WMBIA-20	20	34	35	29	8
WMBIA-25	25	39	40	33.5	8
WMBIA-28	28	42	43	33.5	8
WMBIA-30	30	44	45	34.5	9
WMBIA-32	32	47	48	42.5	9
WMBIA-33	33	47	48	42.5	9
WMBIA-35	35	49	50	42.5	9
WMBIA-38	38	54	56	42.5	9
WMBIA-40	40	56	58	42.5	9
WMBIA-43	43	59	61	46	9.5
WMBIA-45	45	62	63	47.5	9.5
WMBIA-48	48	64	66	47.5	9.5
WMBIA-50	50	66	70	47.5	9.5
WMBIA-53	53	69	73	50.5	9.5
WMBIA-55	55	72	75	50.5	9.5
WMBIA-58	58	80	78	51.5	9.5
WMBIA-60	60	80	80	51.5	9.5
WMBIA-70	70	90	92	56	11





WM 20

OPERATING CONDITIONS

PRESSURE: $\leq 0.8\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-20\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

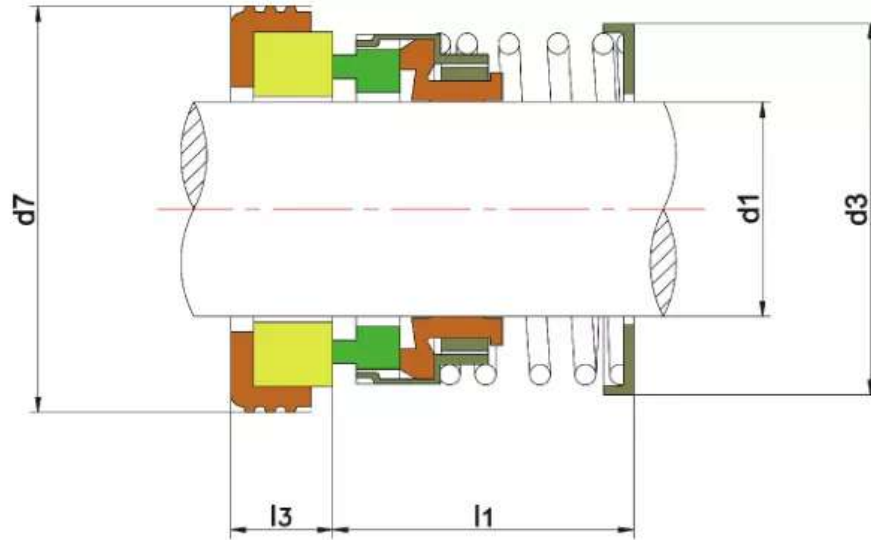
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(Inch)	d3	d7	l3	l1
WM20-3/8"	9.5	22.95	24.6	8.74	25.6
WM20-1/2"	12.7	23.9	27.79	8.74	25.6
WM20-5/8"	15.8	26.7	30.95	10.32	25.6
WM20-3/4"	19.1	31.1	34.15	10.32	25.6
WM20-7/8"	22.2	33.4	37.3	10.32	25.6
WM20-1"	25.4	43.2	40.5	10.32	25.6
WM20-1 1/8"	28.6	46.3	47.63	11.99	33.54
WM20-1 1/4"	31.7	49.4	50.8	11.99	33.54
WM20-1 3/8"	34.9	52.6	53.98	11.99	33.54
WM20-1 1/2"	38.1	55.8	57.15	11.99	33.54
WM20-1 5/8"	41.2	62.2	60.35	11.99	33.54
WM20-1 3/4"	44.4	66	63.5	11.99	40.68
WM20-1 7/8"	47.6	66.6	66.7	11.99	40.68
WM20-2"	50.8	73	69.85	11.99	40.68
WM20-2 1/8"	53.9	73.3	73.05	13.5	41.2
WM20-2 1/4"	57.1	78.4	76.2	13.5	41.2
WM20-2 3/8"	60.3	82	79.4	13.5	41.2
WM20-2 1/2"	63.5	84.9	82.55	13.5	41.2
WM20-2 5/8"	66.6	88.4	92.1	15.9	49.2
WM20-2 3/4"	69.8	92.6	95.25	15.9	49.2
WM20-2 7/8"	73	94.85	98.45	15.9	49.2
WM20-3"	76.2	101.9	101.65	15.9	49.2

Model	d1(mm)	d3	d7	l3	l1
WM20-10	10	22.95	24.6	8.74	25.6
WM20-12	12	23.9	27.79	8.74	25.6
WM20-13	13	23.9	27.79	8.74	25.6
WM20-14	14	26.7	30.95	10.32	25.6
WM20-15	15	26.7	30.95	10.32	25.6
WM20-16	16	26.7	30.95	10.32	25.6
WM20-18	18	31.1	34.15	10.32	25.6
WM20-19	19	31.1	34.15	10.32	25.6
WM20-20	20	33.4	35.7	10.32	25.6
WM20-22	22	33.4	37.3	10.32	25.6
WM20-24	24	39.2	40.5	10.32	25.6
WM20-25	25	39.2	40.5	10.32	25.6
WM20-28	28	46.3	47.63	11.99	33.54
WM20-30	30	49.4	50.8	11.99	33.54
WM20-32	32	49.4	50.8	11.99	33.54
WM20-33	33	52.6	53.98	11.99	33.54
WM20-34	34	52.6	53.98	11.99	33.54
WM20-35	35	52.6	53.98	11.99	33.54
WM20-38	38	55.8	57.15	11.99	33.54
WM20-40	40	62.2	60.35	11.99	33.54
WM20-42	42	66	63.5	11.99	40.68
WM20-43	43	66	63.5	11.99	40.68
WM20-44	44	66	63.5	11.99	40.68
WM20-45	45	66	63.5	11.99	40.68
WM20-48	48	66.6	66.7	11.99	40.68
WM20-50	50	71.65	69.85	11.99	40.68
WM20-53	53	73.3	73.05	13.5	41.2
WM20-55	55	78.4	76.2	13.5	41.2
WM20-58	58	82	79.4	13.5	41.2
WM20-60	60	82	79.4	13.5	41.2
WM20-63	63	84.9	82.55	13.5	41.2
WM20-65	65	88.4	92.1	15.9	49.2
WM20-70	70	92.6	95.25	15.9	49.2
WM20-73	73	94.85	98.45	15.9	49.2
WM20-75	75	101.9	101.65	15.9	49.2





WM 21

OPERATING CONDITIONS

PRESSURE: ≤ 0.8MPA

SPEED: ≤ 10M/S

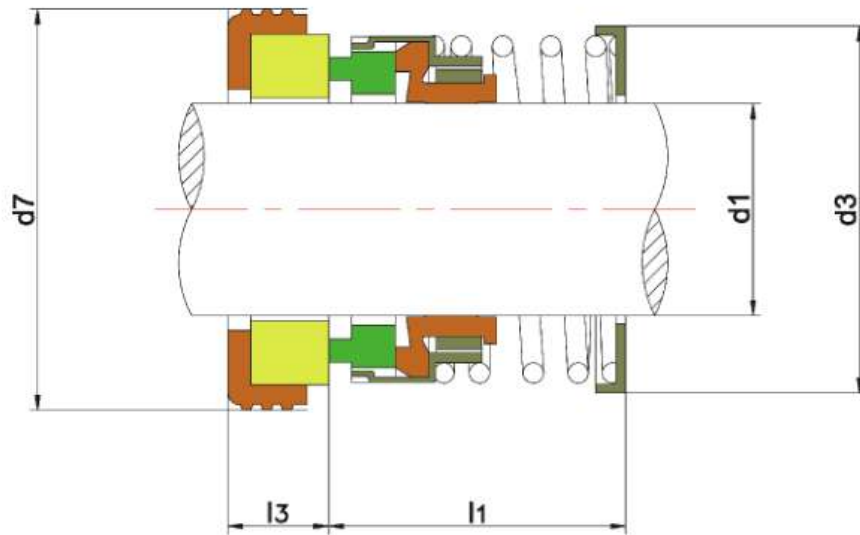
TEMPERATURE: -20℃ ~+150℃

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(Inch)	d3	d7	l3	l1
WM21-1/2"	12.7	23.88	25.4	7.92	20.82
WM21-5/8"	15.875	26.7	31.75	10.29	22.43
WM21-3/4"	19.05	31.09	34.93	10.29	22.43
WM21-7/8"	22.225	33.4	38.1	10.29	24
WM21-1"	25.4	43.18	41.28	11.1	25.6
WM21-1 1/8"	28.575	46.28	44.45	11.1	27.17
WM21-1 1/4"	31.75	49.4	47.63	11.1	27.17
WM21-1 3/8"	34.925	52.58	50.8	11.1	28.78
WM21-1 1/2"	38.1	55.8	53.98	11.1	28.78
WM21-1 5/8"	41.275	62.2	60.33	12.7	35.13
WM21-1 3/4"	44.45	66	63.5	12.7	35.13
WM21-1 7/8"	47.625	66.6	66.68	12.7	38.3
WM21-2"	50.8	73	69.85	12.7	38.3
WM21-2 1/8"	53.9	73.3	76.2	14.27	43.05
WM21-2 1/4"	57.1	78.41	79.38	14.27	43.05
WM21-2 3/8"	60.3	82	82.55	14.27	46.25
WM21-2 1/2"	63.5	84.87	85.73	14.27	46.25
WM21-2 5/8"	66.6	88.4	85.73	15.9	49.4
WM21-2 3/4"	69.8	92.58	88.9	15.9	49.4
WM21-2 7/8"	73	94.85	95.25	15.9	52.57
WM21-3"	76.2	101.9	98.43	15.9	52.57





WM 24

OPERATING CONDITIONS

PRESSURE: ≤ 0.8MPA

SPEED: ≤ 10M/S

TEMPERATURE: -20℃ ~+150℃

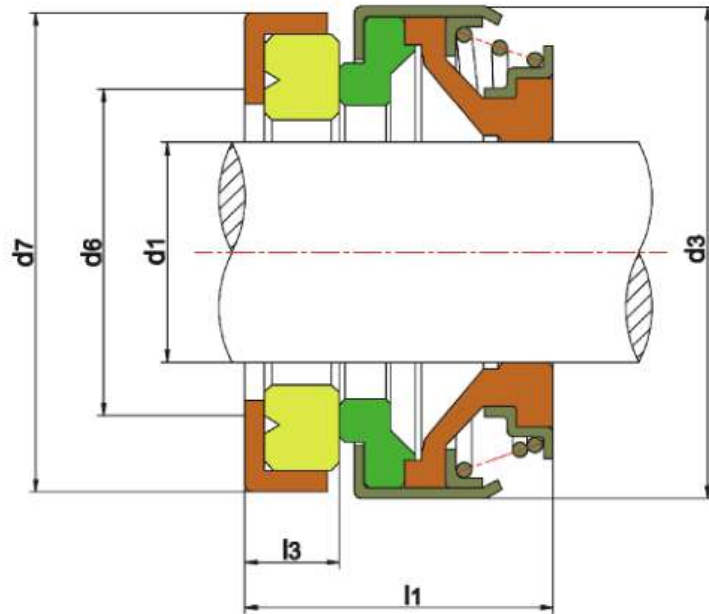
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l3	l1
WM24-12	12	21.7	23	8.6	24.1
WM24-14	14	24.5	25	8.6	26.6
WM24-16	16	26.65	27	8.6	26.6
WM24-18	18	30.35	33	10	27.7
WM24-20	20	33.4	35	10	27.7
WM24-22	22	33.55	37	10	27.7
WM24-24	24	38.3	39	10	30.2
WM24-25	25	39.3	40	10	30.2
WM24-28	28	42.2	43	10	32.7
WM24-30	30	43.95	45	10	32.7
WM24-32	32	45.75	48	10	32.7
WM24-33	33	45.85	48	10	32.7
WM24-35	35	49.1	50	10	32.7
WM24-38	38	52.6	56	11	34.2

Model	d1(mm)	d3	d7	l3	l1
WM24-40	40	55.7	58	11	34.2
WM24-43	43	58.8	61	11	34.2
WM24-45	45	61	63	11	34.2
WM24-48	48	64.2	66	11	34.2
WM24-50	50	66.6	70	13	34.7
WM24-55	55	71.65	75	13	34.7
WM24-58	58	78.4	78	13	39.7
WM24-60	60	78.4	80	13	39.7
WM24-63	63	81.5	83	13	39.7
WM24-65	65	84.3	85	13	39.7
WM24-68	68	89.65	90	15.3	37.4
WM24-70	70	89.65	92	15.3	44.9
WM24-75	75	96.8	97	15.3	44.9





WM 301

OPERATING CONDITIONS

PRESSURE: $\leq 0.6\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

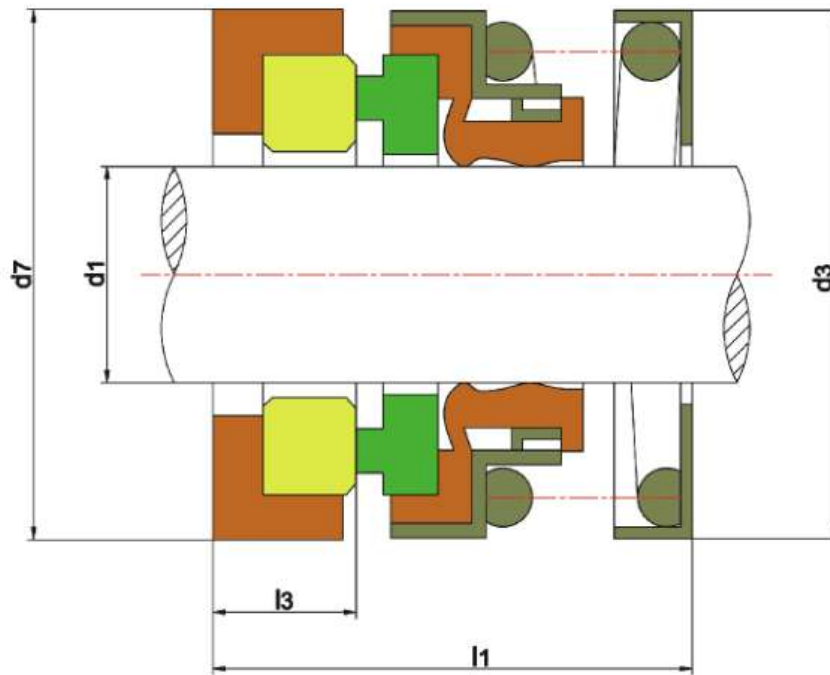
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d6	d7	l1	l3
WM301-6	6	18	8	22	14	4
WM301-8S	8	18	10	22	15	4
WM301-8M	8	20	10	22/26	15/16.5	4.0/5.5
WM301-8L	8	24	10	26	16.5	5.5
WM301-10	10	24	12	26	21	8
WM301-11	11	24	13	26	21	8
WM301-12	12	24	14	25/26	21	8
WM301-13	13	24	15	26	18.5/21	5.5/8.0
WM301-13L	13	28	16	28	21	8
WM301-13H	13	32	16	29.5	30.5	8
WM301-14	14	28	16	28/28.5	21	8
WM301-14L	14	32	16	29.5	21	8
WM301-15S	15	28	16	28.5/30	21	8
WM301-15M	15	32	16	30/29.5	21	8
WM301-15L	15	39	18	38	21	8
WM301-16S	16	28	16	29.5/30	21	8
WM301-16M	16	32	18	29.5	21	8
WM301-16L	16	39	18	38	21	8
WM301-16H	16	32	16	30	29	10
WM301-17	17	39	19	42	21	8
WM301-18	18	39	20	42	21	8
WM301-19	19	39	21	42	21	8

Model	d1(mm)	d3	d6	d7	l1	l3
WM301-20	20	39	22	42	21	8
WM301-20L	20	42	24	45	23	10
WM301-22S	22	36	24	45	26.5	10
WM301-22L	22	42	24	45	23	10
WM301-23	23	47	25	50	23.5	10
WM301-24	24	47	26	50	23.5	10
WM301-25	25	42	27	50	23.5	10
WM301-25L	25	47	27	50	23.5	10
WM301-26	26	47	29	50	23.5	10
WM301-27	27	47	30	50	23.5	10
WM301-28	28	54	31	57	25	10
WM301-30	30	54	33	57	25	10
WM301-32	32	54	35	57	25	10
WM301-35	35	60	38	63	26	10
WM301-38	38	65	41	68	30	12
WM301-40	40	65	43	68	30	12
WM301-45	45	70	48	73	32	12
WM301-50	50	85	52	88	38	15
WM301-55	55	85	58	88	38	15
WM301-60	60	105	63	110	45	15
WM301-65	65	105	\	110	47	15
WM301-70	70	105	\	110	47	15





WM 960

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

SPEED: $\leq 15\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

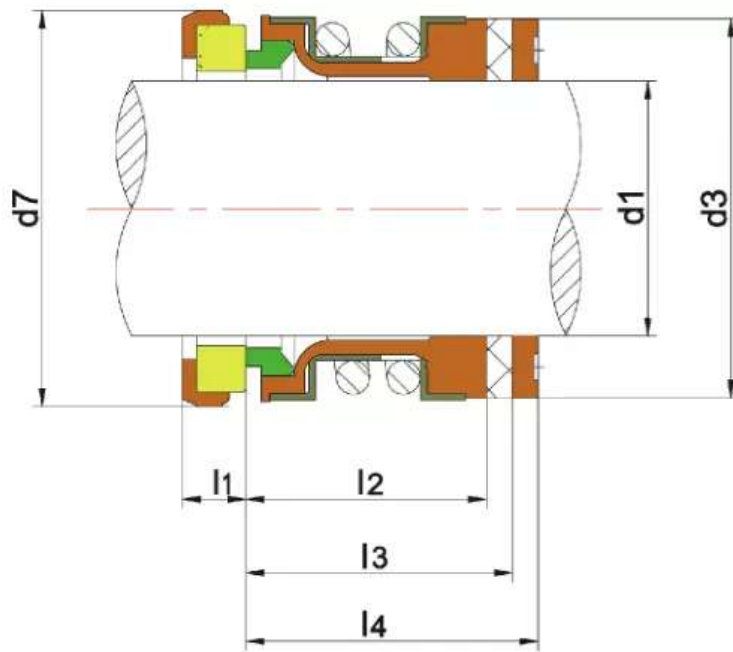
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l1	l3
WM960-14	14	24.5	25	35	8
WM960-16	16	26.8	27	35	8
WM960-18	18	31.8	33	37.5	10
WM960-20	20	32.5	35	37.5	10
WM960-22	22	36.5	37	37.5	10
WM960-24	24	38.8	39	40	10
WM960-25	25	38.8	40	40	10
WM960-28	28	46.5	43	42.5	10
WM960-30	30	46.5	45	42.5	10
WM960-32	32	46.5	48	42.5	10
WM960-33	33	49.5	48	42.5	10
WM960-35	35	49.5	50	42.5	11

Model	d1(mm)	d3	d7	l1	l3
WM960-38	38	54	56	45	11
WM960-40	40	57	58	45	11
WM960-43	43	61.5	61	45	11
WM960-45	45	61.5	63	45	11
WM960-48	48	70.6	66	45	11
WM960-50	50	70.6	70	47.5	11
WM960-53	53	70.6	73	47.5	12
WM960-55	55	76	75	47.5	12
WM960-58	58	79.6	78	52.5	12
WM960-60	60	79.6	80	52.5	12
WM960-63	63	84.6	83	52.5	12
WM960-65	65	84.6	85	52.5	13





WM 2100

OPERATING CONDITIONS

PRESSURE: ≤ 0.2 MPA

SPEED: ≤ 15 M/S

TEMPERATURE: $-30 \sim +200$ °C

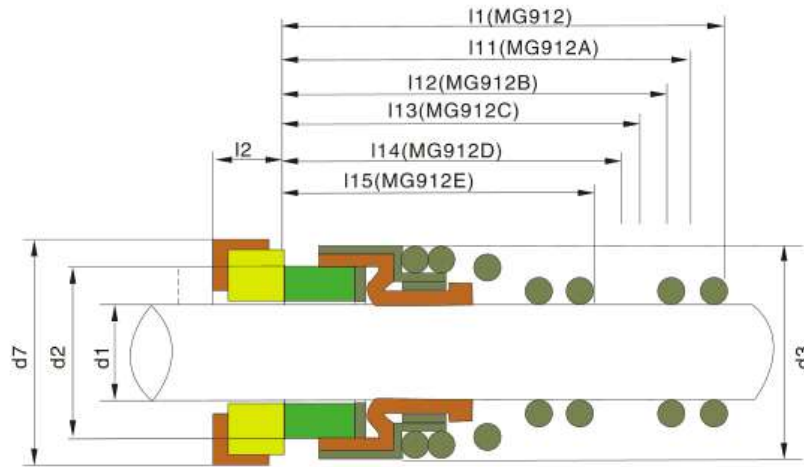
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l1	l2	l3	l4
WM2100-10	10	20	21	5	15.2	27.7	35.2
WM2100-12	12	22	23	6	15.2	26.7	34.2
WM2100-14	14	24	25	6	15.2	29.2	34.2
WM2100-15	15	25	26	6	15.2	29.2	34.2
WM2100-16	16	26	27	6	15.2	29.2	34.2
WM2100-18	18	32	33	6	20.2	31.7	39.2
WM2100-20	20	34	35	6	20.2	31.7	39.2
WM2100-22	22	36	37	6	20.2	31.7	39.2
WM2100-24	24	38	39	6	20.2	34.2	44.2
WM2100-25	25	39	40	6	20.2	34.2	44.2
WM2100-28	28	42	43	6	26.2	36.7	44.2
WM2100-30	30	44	45	7	26.2	35.7	43.2
WM2100-32	32	46	48	7	26.2	35.7	48.2
WM2100-33	33	47	48	7	26.2	35.7	48.2
WM2100-35	35	49	50	8	26.2	34.7	47.2
WM2100-38	38	54	56	8	30.2	37.2	47.2
WM2100-40	40	56	58	8	30.2	37.2	47.2
WM2100-43	43	59	61	8	30.2	37.2	52.2
WM2100-45	45	61	63	8	30.2	37.2	52.2
WM2100-48	48	64	66	10	30.2	35.2	50.2
WM2100-50	50	66	70	10	30.2	37.7	50.2
WM2100-53	53	69	73	10	30.2	37.7	60.2
WM2100-55	55	71	75	10	30.2	37.7	60.2
WM2100-58	58	78	78	10	33.2	42.7	60.2
WM2100-60	60	80	80	12	33.2	40.7	58.2
WM2100-63	63	83	83	12	33.2	40.7	58.2
WM2100-65	65	85	85	12	33.2	40.7	68.2
WM2100-68	68	88	90	12	33.2	40.7	68.2
WM2100-70	70	90	92	12	33.2	48.2	68.2
WM2100-75	75	99	97	12	40.2	48.2	68.2
WM2100-80	80	104	105	14	40.2	47.7	77.7
WM2100-85	85	109	110	14	40.2	47.7	77.7
WM2100-90	90	114	115	14	40.2	52.7	77.7
WM2100-95	95	119	120	14	40.2	52.7	77.7
WM2100-100	100	124	125	14	40.2	52.7	77.7

Model	d1(Inch)	d3	d7	l1	l2
WM2100-3/8"	9.525	20	22.225	7.9	15.2
WM2100-1/2"	12.7	24	25.4	7.9	15.2
WM2100-5/8"	15.875	26	31.75	10.3	15.2
WM2100-3/4"	19.05	32	34.93	10.3	20.2
WM2100-7/8"	22.225	36	38.1	10.3	20.2
WM2100-1"	25.4	39	41.28	11.1	20.2
WM2100-1 1/8"	28.575	42	44.45	11.1	26.2
WM2100-1 1/4"	31.75	46	47.63	11.1	26.2
WM2100-1 3/8"	34.925	49	50.8	11.1	26.2
WM2100-1 1/2"	38.1	54	53.98	11.1	30.2
WM2100-1 5/8"	41.275	56	60.33	12.7	30.2
WM2100-1 3/4"	44.45	61	63.5	12.7	30.2
WM2100-1 7/8"	47.625	64	66.68	12.7	30.2
WM2100-2"	50.8	66	69.85	12.7	30.2
WM2100-2 1/8"	53.975	69	76.2	14.3	30.2
WM2100-2 1/4"	57.15	77	79.38	14.3	33.2
WM2100-2 3/8"	60.325	80	82.55	14.3	33.2
WM2100-2 1/2"	63.5	83	85.73	14.3	33.2
WM2100-2 5/8"	66.675	88	85.73	15.9	33.2
WM2100-2 3/4"	69.85	89	88.9	15.9	33.2
WM2100-2 7/8"	73.025	96	95.25	15.9	33.2
WM2100-3"	76.2	99	98.425	15.9	40.2
WM2100-3 1/8"	79.375	103	101.6	19.8	40.2
WM2100-3 1/4"	82.55	104	104.775	19.8	40.2
WM2100-3 3/8"	85.725	108	107.95	19.8	40.2
WM2100-3 1/2"	88.9	112	111.125	19.8	40.2
WM2100-3 5/8"	92.075	114	114.3	19.8	40.2
WM2100-3 3/4"	95.25	118	117.475	19.8	40.2
WM2100-3 7/8"	98.425	122	120.65	19.8	40.2
WM2100-4"	101.6	124	123.83	19.8	40.2





WM MG912 INCH

OPERATING CONDITIONS

PRESSURE: ≤ 1.0 MPA

SPEED: ≤ 10 M/S

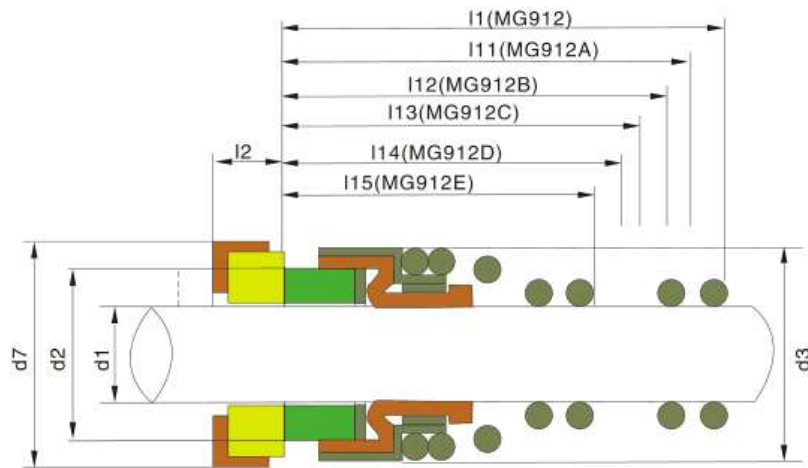
TEMPERATURE: $-20^{\circ}\text{C} \sim +120^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(Inch)	d3	d2	d7	I1	I11	I14	I15	I2
WMMG912-0.375	9.5	18.8	15.88	22.23	44.0	30.15	25.0	20.63	7.95
WMMG912-0.500	12.7	22.3	19.05	25.40	44.0	30.15	25.0	20.63	7.95
WMMG912-0.625	15.8	26.5	23.80	31.75	44.0	33.33	25.0	22.23	10.31
WMMG912-0.750	19.0	29.5	26.97	34.93	44.0	33.33	25.0	22.23	10.31
WMMG912-0.875	22.2	33.0	30.15	38.10	44.0	34.93	25.0	23.80	10.31
WMMG912-1.000	25.4	38.0	33.32	41.28	44.0	39.70	25.0	25.40	11.10
WMMG912-1.125	28.5	41.5	36.50	44.45	60.0	41.27	33.0	27.00	11.10
WMMG912-1.250	31.7	45.0	39.70	47.63	60.0	41.27	33.0	27.00	11.10
WMMG912-1.375	34.9	48.0	42.85	50.80	60.0	42.85	33.0	28.57	11.10
WMMG912-1.500	38.1	52.5	46.05	53.98	60.0	42.85	33.0	28.57	11.10
WMMG912-1.625	41.2	57.0	50.80	60.33	60.0	50.80	33.0	34.93	12.70
WMMG912-1.750	44.4	60.5	53.97	63.50	71.0	50.80	41.0	34.93	12.70
WMMG912-1.875	47.6	64.0	57.15	66.68	71.0	53.98	41.0	38.10	12.70
WMMG912-2.000	50.8	66.0	60.33	69.85	72.5	53.98	42.5	38.10	12.70
WMMG912-2.125	53.9	71.0	60.33	76.20	71.0	60.33	41.0	42.85	14.27
WMMG912-2.250	57.1	76.5	61.90	79.38	71.0	60.33	41.0	42.85	14.27
WMMG912-2.375	60.3	78.5	65.10	82.55	71.0	63.50	41.0	46.06	14.27
WMMG912-2.500	63.5	82.0	68.25	85.73	71.0	63.50	41.0	46.06	14.27
WMMG912-2.625	66.6	84.0	71.42	85.73	70.0	69.85	49.0	49.19	15.88
WMMG912-2.750	69.8	89.0	74.60	88.90	70.0	69.85	49.0	49.19	15.88
WMMG912-2.875	73.0	92.5	77.77	95.25	73.0	73.02	52.0	52.37	15.88
WMMG912-3.000	76.2	95.5	80.95	98.43	73.0	73.02	52.0	52.37	15.88
WMMG912-3.125	79.3	101.6	84.12	101.60	79.0	79.37	56.0	55.55	19.84
WMMG912-3.250	82.5	-	87.30	104.78	79.0	79.37	56.0	55.55	19.84
WMMG912-3.375	85.7	-	90.47	107.95	79.0	79.37	56.0	55.55	19.84
WMMG912-3.500	88.9	111.5	93.65	111.13	79.0	79.37	56.0	55.55	19.84
WMMG912-3.625	92.0	-	96.82	114.30	83.0	82.55	59.0	58.72	19.84
WMMG912-3.750	95.2	118.0	100.00	117.48	83.0	82.55	59.0	58.72	19.84
WMMG912-3.875	98.4	-	103.17	120.65	86.0	85.72	62.0	61.90	19.84
WMMG912-4.000	101.6	125.0	106.35	123.83	86.0	85.72	62.0	61.90	19.84





WM MG912 METRIC

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

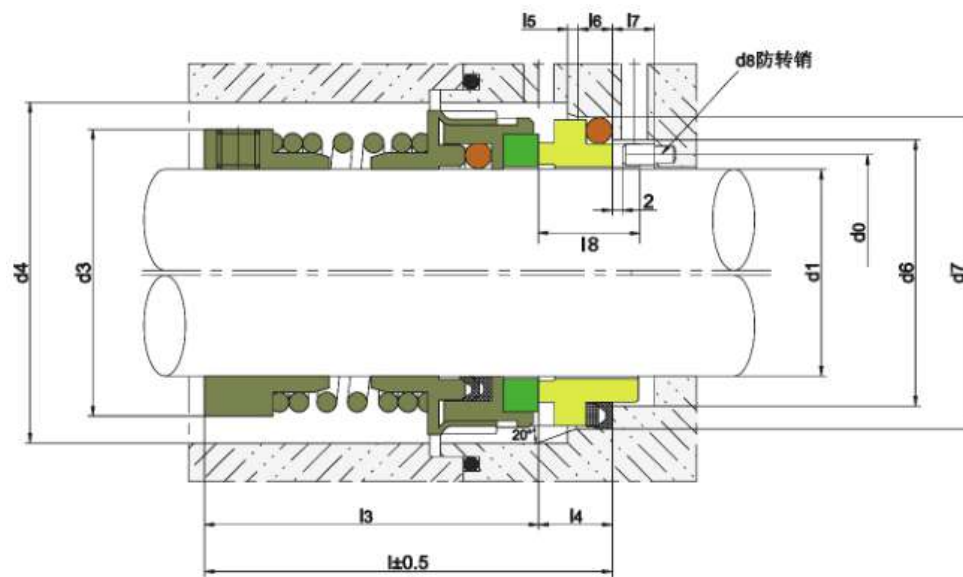
TEMPERATURE: $-20\text{ }^{\circ}\text{C} \sim +120\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1 (mm)	d3	d2	d7	l1	l12	l13	l14	l2
WMMG912-10	10	19.6	17	21	44.0	33.4	25.9	25.0	6.6
WMMG912-12	12	21.6	19	23	44.0	33.4	25.9	25.0	6.6
WMMG912-14	14	24.0	21	25	44.0	33.4	28.4	25.0	6.6
WMMG912-15	15	25.0	-	-	44.0	-	-	25.0	-
WMMG912-16	16	26.5	23	27	44.0	33.4	28.4	25.0	6.6
WMMG912-18	18	29.0	27	33	44.0	37.5	30.0	25.0	7.5
WMMG912-20	20	31.5	29	35	44.0	37.5	30.0	25.0	7.5
WMMG912-22	22	33.0	31	37	44.0	37.5	30.0	25.0	7.5
WMMG912-24	24	37.0	33	39	44.0	42.5	32.5	25.0	7.5
WMMG912-25	25	38.0	34	40	44.0	42.5	32.5	25.0	7.5
WMMG912-28	28	41.0	37	43	60.0	42.5	35.0	33.0	7.5
WMMG912-30	30	43.0	39	45	60.0	42.5	35.0	33.0	7.5
WMMG912-32	32	45.0	42	48	60.0	47.5	35.0	33.0	7.5
WMMG912-33	33	46.0	42	48	60.0	47.5	35.0	33.0	7.5
WMMG912-35	35	48.0	44	50	60.0	47.5	35.0	33.0	7.5
WMMG912-38	38	52.5	49	56	60.0	46.0	36.0	33.0	9.0
WMMG912-40	40	55.5	51	58	60.0	46.0	36.0	33.0	9.0
WMMG912-43	43	58.5	54	61	71.0	51.0	36.0	41.0	9.0
WMMG912-45	45	60.5	56	63	71.0	51.0	36.0	41.0	9.0
WMMG912-48	48	64.0	59	66	71.0	51.0	36.0	41.0	9.0
WMMG912-50	50	66.0	62	70	72.5	50.5	38.0	42.5	9.5
WMMG912-53	53	69.0	65	73	71.0	59.0	36.5	41.0	11.0
WMMG912-55	55	71.0	67	75	71.0	59.0	36.5	41.0	11.0
WMMG912-58	58	76.0	70	78	71.0	59.0	41.5	41.0	11.0
WMMG912-60	60	78.0	72	80	71.0	59.0	41.5	41.0	11.0
WMMG912-63	63	82.0	75	83	-	59.0	41.5	-	11.0
WMMG912-65	65	84.0	77	85	70.0	69.0	41.5	49.0	11.0
WMMG912-68	68	87.0	81	90	70.0	68.7	41.2	49.0	11.3
WMMG912-70	70	89.0	83	92	70.0	68.7	48.7	49.0	11.3
WMMG912-75	75	95.0	88	97	73.0	68.7	48.7	52.0	11.3
WMMG912-80	80	101.5	95	105	79.0	78.0	48.0	56.0	12.0
WMMG912-85	85	-	100	110	79.0	76.0	46.0	56.0	14.0
WMMG912-90	90	111.5	105	115	83.0	76.0	51.0	59.0	14.0
WMMG912-95	95	-	110	120	83.0	76.0	51.0	59.0	14.0
WMMG912-100	100	122.5	115	125	86.0	76.0	51.0	62.0	14.0





WM 103U

OPERATING CONDITIONS

PRESSURE: $\leq 0.8\text{MPa}$

SPEED: $\leq 13\text{M/S}$

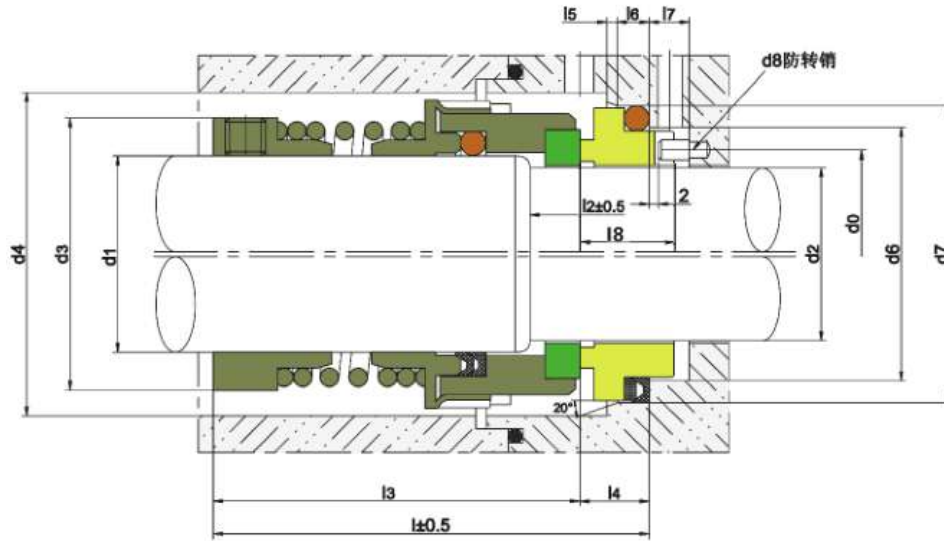
TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d4	d6	d7	d8	d0	l	l3	l4	l5	l6	l7	l8
WM103U-16	16	33	36	25	33	2	21	52	40	12	1.5	5.5	7.0	16
WM103U-18	18	35	38	28	36	2	23	56	44	12	1.5	5.5	7.0	16
WM103U-20	20	37	40	30	40	3	25	58	44	14	2.0	6.5	8.0	19
WM103U-22	22	39	42	32	42	3	27	62	48	14	2.0	6.5	8.0	19
WM103U-25	25	42	45	35	45	3	30	62	48	14	2.0	6.5	8.0	19
WM103U-28	28	45	48	38	48	3	33	64	50	14	2.0	6.5	8.0	19
WM103U-30	30	52	55	40	50	3	35	70	56	14	2.0	6.5	8.0	19
WM103U-35	35	57	60	45	55	3	40	74	60	14	2.0	6.5	8.0	19
WM103U-40	40	62	65	50	60	3	45	78	64	14	2.0	6.5	8.0	19
WM103U-45	45	67	70	55	65	3	50	85	71	14	2.0	6.5	8.0	19
WM103U-50	50	72	75	60	70	3	55	89	75	14	2.5	6.5	8.0	19
WM103U-55	55	77	80	65	75	3	60	91	77	14	2.5	6.5	8.0	19
WM103U-60	60	82	85	70	80	3	65	91	77	14	2.5	6.5	8.0	19
WM103U-65	65	92	95	80	90	3	73	106	89	17	2.5	6.5	8.0	22
WM103U-70	70	97	100	85	97	3	78	110	91	19	2.5	7.5	9.0	25
WM103U-75	75	102	105	90	102	3	83	110	91	19	2.5	7.5	9.0	25
WM103U-80	80	107	110	95	107	3	88	117	98	19	3.0	7.5	9.0	25
WM103U-85	85	112	115	100	112	3	93	119	100	19	3.0	7.5	9.0	25
WM103U-90	90	117	120	105	117	3	98	120	101	19	3.0	7.5	9.0	25
WM103U-95	95	122	125	110	122	3	103	120	101	19	3.0	7.5	9.0	25
WM103U-100	100	127	130	115	127	3	108	120	101	19	3.0	7.5	9.0	25
WM103U-110	110	141	145	130	142	3	120	147	126	21	3.0	8.0	9.0	27
WM103U-120	120	151	155	140	152	3	130	147	126	21	3.0	8.0	9.0	27





WM 103B

OPERATING CONDITIONS

PRESSURE: $\leq 0.6-3.0\text{MPa}$

SPEED: $\leq 13\text{M/S}$

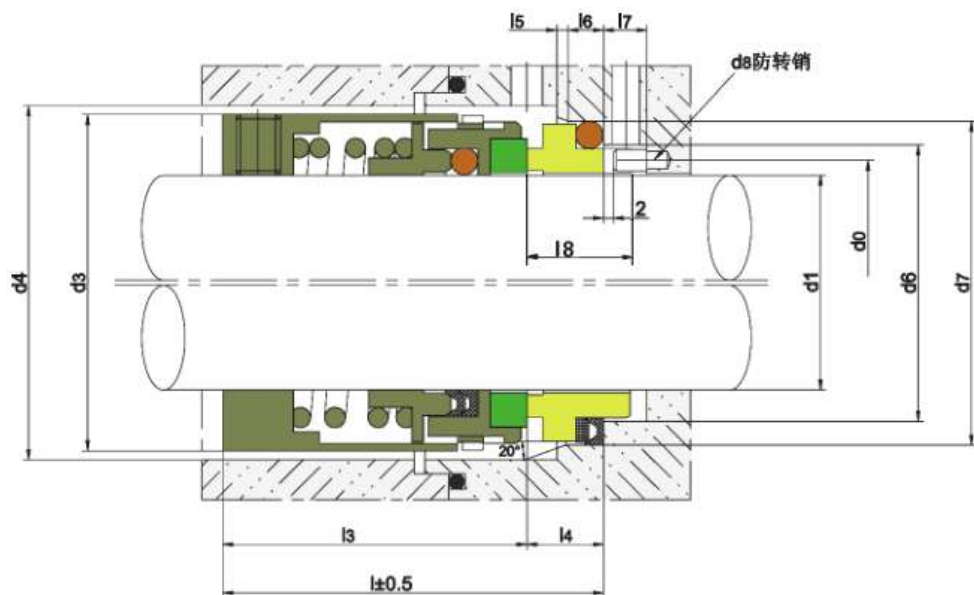
TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d2	d3	d4	d6	d7	d8	d0	l	l2	l3	l4	l5	l6	l7	l8
WM103B-16	16	11	33	36	25	33	2	19	60	20	48	12	1.5	5.5	7.0	16
WM103B-18	18	13	35	38	28	36	2	22	64	20	52	12	1.5	5.5	7.0	16
WM103B-20	20	15	37	40	30	40	3	23	66	22	52	14	2.0	6.5	8.0	19
WM103B-22	22	17	39	42	32	42	3	26	70	22	56	14	2.0	6.5	8.0	19
WM103B-25	25	20	42	45	35	45	3	28	70	22	56	14	2.0	6.5	8.0	19
WM103B-28	28	22	45	48	38	48	3	31	72	22	58	14	2.0	6.5	8.0	19
WM103B-30	30	25	52	55	40	50	3	33	79	23	65	14	2.0	6.5	8.0	19
WM103B-35	35	28	57	60	45	55	3	37	84	24	70	14	2.0	6.5	8.0	19
WM103B-40	40	34	62	65	50	60	3	42	88	24	74	14	2.0	6.5	8.0	19
WM103B-45	45	38	67	70	55	65	3	47	95	24	81	14	2.0	6.5	8.0	19
WM103B-50	50	44	72	75	60	70	3	52	99	24	85	14	2.5	6.5	8.0	19
WM103B-55	55	48	77	80	65	75	3	57	101	24	87	14	2.5	6.5	8.0	19
WM103B-60	60	52	82	85	70	80	3	62	101	24	87	14	2.5	6.5	8.0	19
WM103B-65	65	58	92	95	80	90	3	70	113	27	96	17	2.5	6.5	8.0	22
WM103B-70	70	62	97	100	85	97	3	74	120	32	101	19	2.5	7.5	9.0	25
WM103B-75	75	66	102	105	90	102	3	79	120	32	101	19	2.5	7.5	9.0	25
WM103B-80	80	72	107	110	95	107	3	84	127	32	108	19	3.0	7.5	9.0	25
WM103B-85	85	76	112	115	100	112	3	89	129	32	110	19	3.0	7.5	9.0	25
WM103B-90	90	82	117	120	105	117	3	94	130	32	111	19	3.0	7.5	9.0	25
WM103B-95	95	85	122	125	110	122	3	99	130	32	111	19	3.0	7.5	9.0	25
WM103B-100	100	90	127	130	115	127	3	104	130	32	111	19	3.0	7.5	9.0	25
WM103B-110	110	100	141	145	130	142	3	116	159	36	138	21	3.0	8.0	9.0	27
WM103B-120	120	110	151	155	140	152	3	126	159	36	138	21	3.0	8.0	9.0	27





WM 104U

OPERATING CONDITIONS

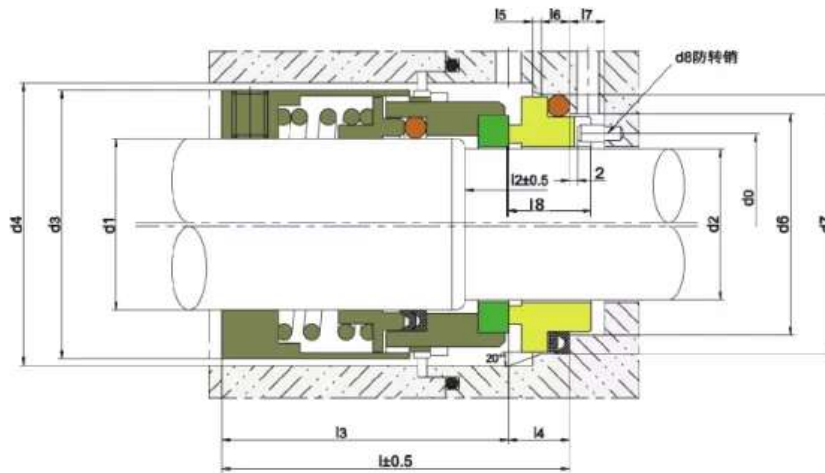
PRESSURE: $\leq 0.8\text{MPa}$
 SPEED: $\leq 13\text{M/S}$
 TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d4	d6	d7	d8	d0	l	l3	l4	l5	l6	l7	l8
WM104U-16	16	33	36	25	33	2	21	49	37	12	1.5	5.5	7.0	16
WM104U-18	18	35	38	28	36	2	23	52	40	12	1.5	5.5	7.0	16
WM104U-20	20	37	40	30	40	3	25	54	40	14	2.0	6.5	8.0	19
WM104U-22	22	39	42	32	42	3	27	57	43	14	2.0	6.5	8.0	19
WM104U-25	25	42	45	35	45	3	30	57	43	14	2.0	6.5	8.0	19
WM104U-28	28	45	48	38	48	3	33	58	44	14	2.0	6.5	8.0	19
WM104U-30	30	52	55	40	50	3	35	63	49	14	2.0	6.5	8.0	19
WM104U-35	35	57	60	45	55	3	40	65	51	14	2.0	6.5	8.0	19
WM104U-40	40	62	65	50	60	3	45	68	54	14	2.0	6.5	8.0	19
WM104U-45	45	67	70	55	65	3	50	74	60	14	2.0	6.5	8.0	19
WM104U-50	50	72	75	60	70	3	55	77	63	14	2.5	6.5	8.0	19
WM104U-55	55	77	80	65	75	3	60	79	65	14	2.5	6.5	8.0	19
WM104U-60	60	82	85	70	80	3	65	79	65	14	2.5	6.5	8.0	19
WM104U-65	65	92	95	80	90	3	73	91	74	17	2.5	6.5	8.0	22
WM104U-70	70	97	100	85	97	3	78	95	76	19	2.5	7.5	9.0	25
WM104U-75	75	102	105	90	102	3	83	95	76	19	2.5	7.5	9.0	25
WM104U-80	80	107	110	95	107	3	88	100	81	19	3.0	7.5	9.0	25
WM104U-85	85	112	115	100	112	3	93	101	82	19	3.0	7.5	9.0	25
WM104U-90	90	117	120	105	117	3	98	102	83	19	3.0	7.5	9.0	25
WM104U-95	95	122	125	110	122	3	103	102	83	19	3.0	7.5	9.0	25
WM104U-100	100	127	130	115	127	3	108	102	83	19	3.0	7.5	9.0	25
WM104U-110	110	141	145	130	142	3	120	126	105	21	3.0	8.0	9.0	27
WM104U-120	120	151	155	140	152	3	130	126	105	21	3.0	8.0	9.0	27





WM 104B

OPERATING CONDITIONS

PRESSURE: ≤ 0.6-3.0MPA

SPEED: ≤ 13M/S

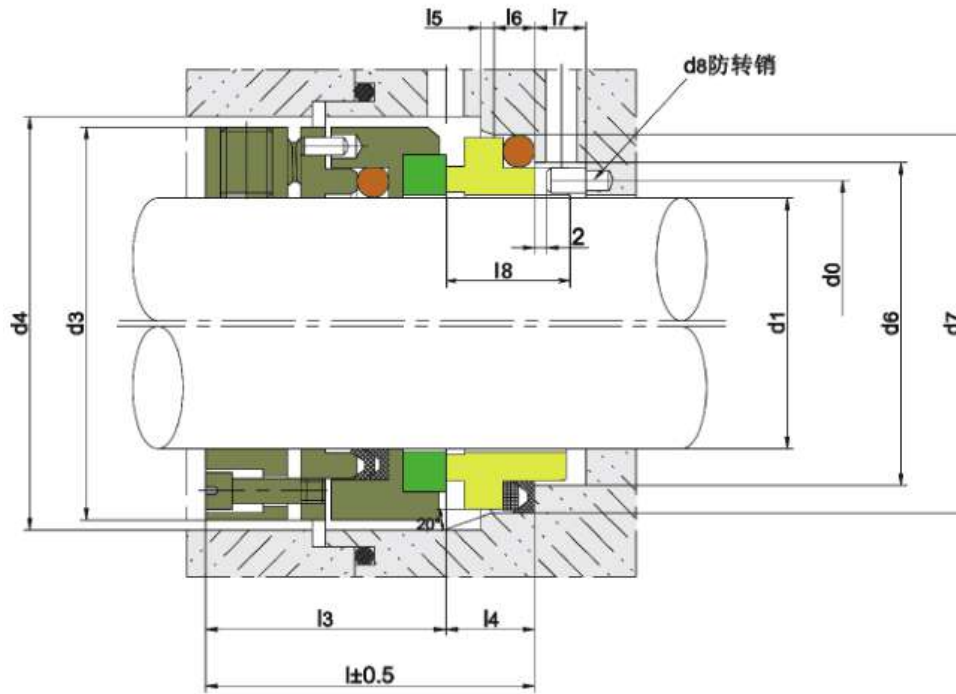
TEMPERATURE: -20℃ ~+200℃

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d4	d6	d7	d8	d0	l1	l2	l3	l4	l5	l6	l7	l8
WM104B-16	16	33	36	25	33	2	19	57	20	45	12	1.5	5.5	7.0	16
WM104B-18	18	35	38	28	36	2	21	60	20	48	12	1.5	5.5	7.0	16
WM104B-20	20	37	40	30	40	3	23	62	22	48	14	2.0	6.5	8.0	19
WM104B-22	22	39	42	32	42	3	25	65	22	51	14	2.0	6.5	8.0	19
WM104B-25	25	42	45	35	45	3	28	65	22	51	14	2.0	6.5	8.0	19
WM104B-28	28	45	48	38	48	3	31	66	22	52	14	2.0	6.5	8.0	19
WM104B-30	30	52	55	40	50	3	33	72	23	58	14	2.0	6.5	8.0	19
WM104B-35	35	57	60	45	55	3	37	75	24	61	14	2.0	6.5	8.0	19
WM104B-40	40	62	65	50	60	3	42	78	24	64	14	2.0	6.5	8.0	19
WM104B-45	45	67	70	55	65	3	47	84	24	70	14	2.0	6.5	8.0	19
WM104B-50	50	72	75	60	70	3	52	87	24	73	14	2.5	6.5	8.0	19
WM104B-55	55	77	80	65	75	3	57	89	24	75	14	2.5	6.5	8.0	19
WM104B-60	60	82	85	70	80	3	62	89	24	75	14	2.5	6.5	8.0	19
WM104B-65	65	92	95	80	90	3	70	98	27	81	17	2.5	6.5	8.0	22
WM104B-70	70	97	100	85	97	3	74	105	32	86	19	2.5	7.5	9.0	25
WM104B-75	75	102	105	90	102	3	79	105	32	86	19	2.5	7.5	9.0	25
WM104B-80	80	107	110	95	107	3	84	110	32	91	19	3.0	7.5	9.0	25
WM104B-85	85	112	115	100	112	3	89	111	32	92	19	3.0	7.5	9.0	25
WM104B-90	90	117	120	105	117	3	94	112	32	93	19	3.0	7.5	9.0	25
WM104B-95	95	122	125	110	122	3	99	112	32	93	19	3.0	7.5	9.0	25
WM104B-100	100	127	130	115	127	3	104	112	32	93	19	3.0	7.5	9.0	25
WM104B-110	110	141	145	130	142	3	116	138	36	117	21	3.0	8.0	9.0	27
WM104B-120	120	151	155	140	152	3	126	138	36	117	21	3.0	8.0	9.0	27





WM 105U

OPERATING CONDITIONS

PRESSURE: $\leq 0.8\text{MPa}$

SPEED: $\leq 13\text{M/S}$

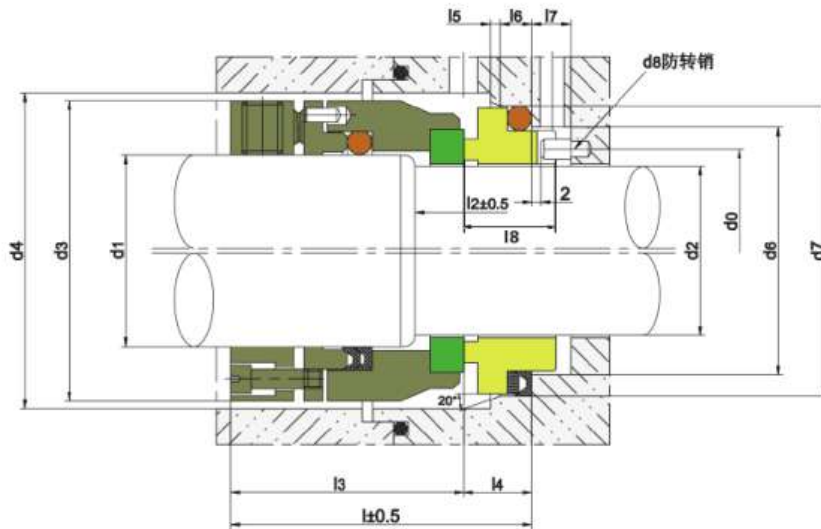
TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d4	d6	d7	d8	d0	l	l3	l4	l5	l6	l7	l8
WM105U-35	35	57	60	45	55	3	40	52	38	14	2.0	6.5	8.0	19
WM105U-40	40	62	65	50	60	3	45	52	38	14	2.0	6.5	8.0	19
WM105U-45	45	67	70	55	65	3	50	53	39	14	2.0	6.5	8.0	19
WM105U-50	50	72	75	60	70	3	55	53	39	14	2.5	6.5	8.0	19
WM105U-55	55	77	80	65	75	3	60	53	39	14	2.5	6.5	8.0	19
WM105U-60	60	82	85	70	80	3	65	53	39	14	2.5	6.5	8.0	19
WM105U-65	65	91	95	80	90	3	73	61	44	17	2.5	6.5	8.0	22
WM105U-70	70	96	100	85	97	3	78	63	44	19	2.5	7.5	9.0	25
WM105U-75	75	101	105	90	102	3	83	63	44	19	2.5	7.5	9.0	25
WM105U-80	80	106	110	95	107	3	88	63	44	19	3.0	7.5	9.0	25
WM105U-85	85	111	115	100	112	3	93	65	46	19	3.0	7.5	9.0	25
WM105U-90	90	116	120	105	117	3	98	65	46	19	3.0	7.5	9.0	25
WM105U-95	95	121	125	110	122	3	103	65	46	19	3.0	7.5	9.0	25
WM105U-100	100	126	130	115	127	3	108	65	46	19	3.0	7.5	9.0	25
WM105U-110	110	140	145	130	142	3	120	72	51	21	3.0	8.0	9.0	27
WM105U-120	120	150	155	140	152	3	130	72	51	21	3.0	8.0	9.0	27





WM 105B

OPERATING CONDITIONS

PRESSURE: $\leq 0.6-3.0\text{MPa}$

SPEED: $\leq 13\text{M/S}$

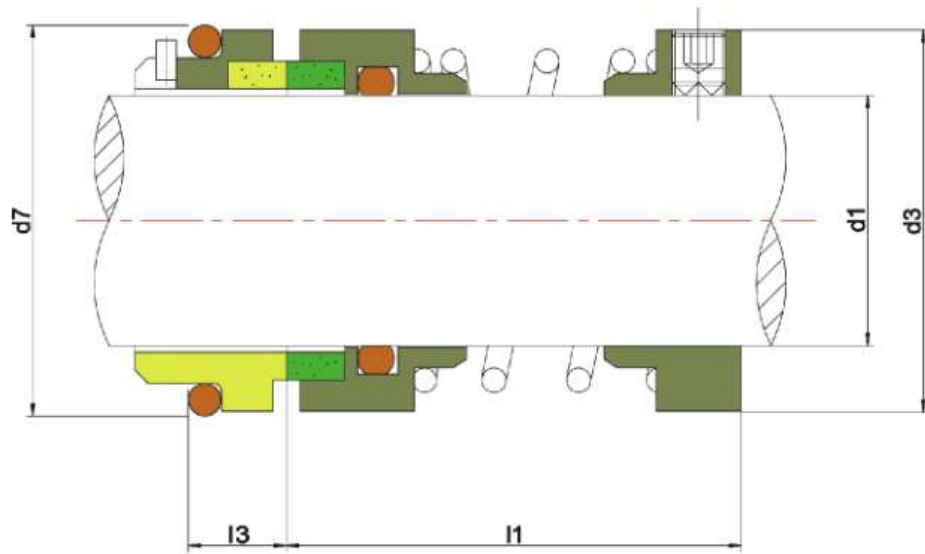
TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Mode	d1(mm)	d2	d3	d4	d6	d7	d8	d0	l	l2	l3	l4	l5	l6	l7	l8
WM105B-35	35	28	57	60	45	55	3	37	62	24	48	14	2.0	6.5	8.0	19
WM105B-40	40	34	62	65	50	60	3	42	62	24	48	14	2.0	6.5	8.0	19
WM105B-45	45	38	67	70	55	65	3	47	63	24	49	14	2.0	6.5	8.0	19
WM105B-50	50	44	72	75	60	70	3	52	63	24	49	14	2.5	6.5	8.0	19
WM105B-55	55	48	77	80	65	75	3	57	63	24	49	14	2.5	6.5	8.0	19
WM105B-60	60	52	82	85	70	80	3	62	63	24	49	14	2.5	6.5	8.0	19
WM105B-65	65	58	91	95	80	90	3	70	68	27	51	17	2.5	6.5	8.0	22
WM105B-70	70	62	96	100	85	97	3	74	73	32	54	19	2.5	7.5	9.0	25
WM105B-75	75	66	101	105	90	102	3	79	73	32	54	19	2.5	7.5	9.0	25
WM105B-80	80	72	106	110	95	107	3	84	73	32	54	19	3.0	7.5	9.0	25
WM105B-85	85	76	111	115	100	112	3	89	75	32	56	19	3.0	7.5	9.0	25
WM105B-90	90	82	116	120	105	117	3	94	75	32	56	19	3.0	7.5	9.0	25
WM105B-95	95	85	121	125	110	122	3	99	75	32	56	19	3.0	7.5	9.0	25
WM105B-100	100	90	126	130	115	127	3	104	75	32	56	19	3.0	7.5	9.0	25
WM105B-110	110	100	140	145	130	142	3	116	84	36	63	21	3.0	8.0	9.0	27
WM105B-120	120	110	150	155	140	152	3	126	84	36	63	21	3.0	8.0	9.0	27





WM 1527

OPERATING CONDITIONS

PRESSURE: ≤ 1.0MPA

SPEED: ≤ 10M/S

TEMPERATURE: -20℃ ~+180℃

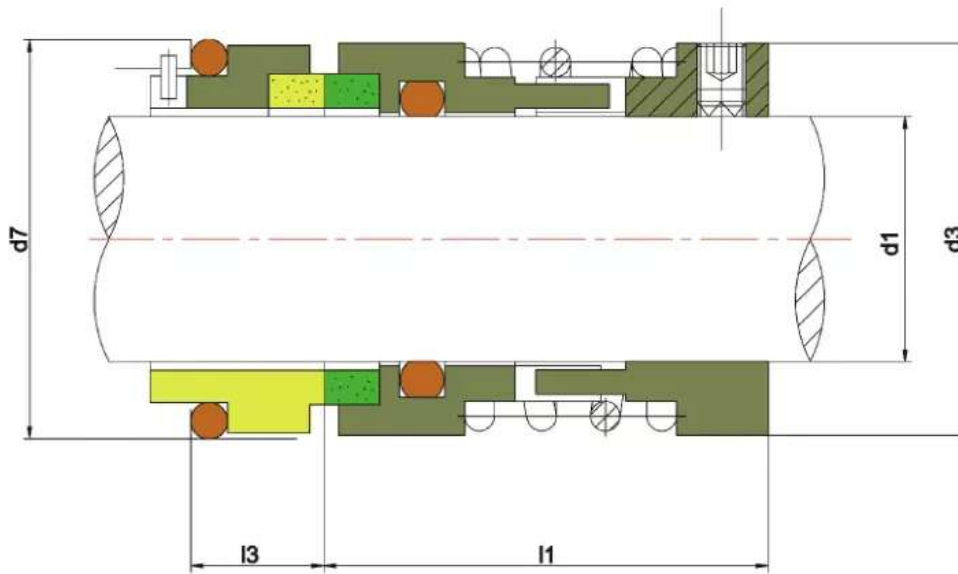
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l3	l1
WM1527-18	18	32	33	10	35
WM1527-20	20	34	35	10	35
WM1527-22	22	36	37	10	35
WM1527-24	24	38	39	10	40
WM1527-25	25	39	40	10	40
WM1527-28	28	42	43	10	40
WM1527-30	30	44	45	10	40
WM1527-32	32	46	48	10	45
WM1527-33	33	47	48	10	45
WM1527-35	35	49	50	10	45
WM1527-38	38	54	56	11	44
WM1527-40	40	56	58	11	44
WM1527-43	43	59	61	11	49
WM1527-45	45	61	63	11	49
WM1527-48	48	64	66	11	49

Model	d1(mm)	d3	d7	l3	l1
WM1527-50	50	66	70	13	47
WM1527-53	53	69	73	13	57
WM1527-55	55	71	75	13	57
WM1527-58	58	78	78	13	57
WM1527-60	60	80	80	13	57
WM1527-63	63	83	83	13	57
WM1527-65	65	85	85	13	67
WM1527-68	68	88	90	15.3	64.7
WM1527-70	70	90	92	15.3	64.7
WM1527-75	75	99	97	15.3	64.7
WM1527-80	80	104	105	15.7	74.3
WM1527-85	85	109	110	15.7	74.3
WM1527-90	90	114	115	15.7	74.3
WM1527-95	95	119	120	15.7	74.3
WM1527-100	100	124	125	15.7	74.3





WM 250

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

SPEED: $\leq 16\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

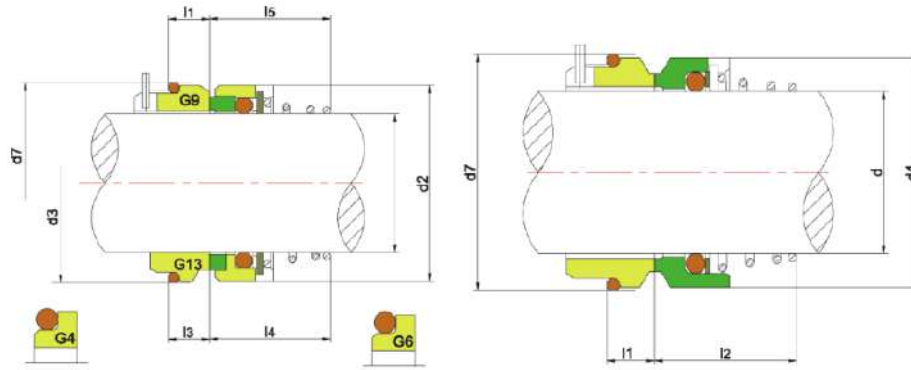
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l3	l1
WM250-20	20	34	35	13	41
WM250-22	22	36	37	13	41
WM250-24	24	38	39	13	43
WM250-25	25	39	40	13	43
WM250-28	28	42	43	13	45
WM250-30	30	44	45	13	45
WM250-33	33	47	48	13	45
WM250-35	35	49	50	13	49
WM250-38	38	54	56	13	53
WM250-40	40	56	58	13	55
WM250-43	43	59	61	13	55
WM250-45	45	61	63	13	55

Model	d1(mm)	d3	d7	l3	l1
WM250-48	48	64	66	13	55
WM250-50	50	66	68	13	60
WM250-53	53	69	71	13	61
WM250-55	55	71	73	13	61
WM250-58	58	76	79	16	63
WM250-60	60	78	81	16	63
WM250-63	63	81	84	16	63
WM250-65	65	83	86	16	67
WM250-70	70	90	92	16	68
WM250-75	75	95	97	16	72
WM250-80	80	100	105	16	72
WM250-85	85	105	110	16	77





WM M3

OPERATING CONDITIONS

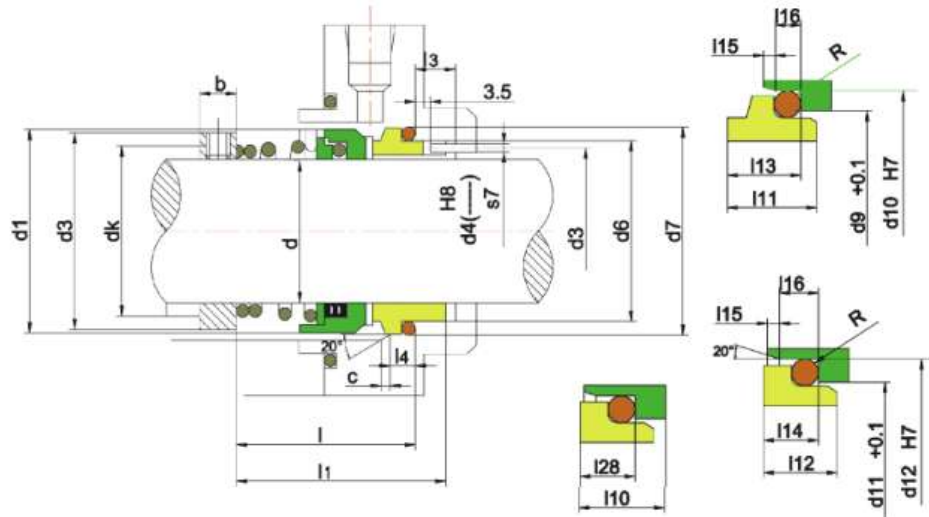
PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

Model	d(mm)	d4	d7	d2	d3	l1	l2	l3	l4	l5
WMM3-10	10	19	21	20	19.2	10	15.5	7.1		16.9
WMM3-12	12	21	23	22	21.6	10	16	7.6		17.4
WMM3-14	14	23	25	24	24.6	10	16.5	7.6	16.5	17.4
WMM3-16	16	26	27	26	28	10	18	9	16.5	19.5
WMM3-18	18	29	33	31	30	11.5	19.5	10	18	20.5
WMM3-20	20	31	35	34	35	11.5	22	9.5	19	22
WMM3-22	22	33	37	36	35	11.5	21.5	9.5	20.5	23.5
WMM3-24	24	35	39	38	38	11.5	23.5	9.5	22	25
WMM3-25	25	36	40	39	38	11.5	26.5	9.5	23.5	26.5
WMM3-28	28	40	43	42	42	11.5	26.5	11	24.5	26.5
WMM3-30	30	43	45	44	45	11.5	26.5	11	24.5	25
WMM3-32	32	46	48	46	48	11.5	28.5	11	28	28.5
WMM3-33	33	47	48	47		11.5	28.5			
WMM3-35	35	49	50	49	52	11.5	28.5	11.5	28	28.5
WMM3-38	38	53	56	54	55	14	33.5	11.5	31	32.2
WMM3-40	40	56	58	56	58	14	36	11.5	34	34.7
WMM3-43	43	59	61	59		14	38.5			
WMM3-45	45	61	63	61	64	14	39.5	14.3	36.5	39.2
WMM3-48	48	64	66	64	68.4	14	46	14.3	42	44.7
WMM3-50	50	66	70	66	69.3	15	45	14.3	43	45.7
WMM3-53	53	69	73	69		15	47			
WMM3-55	55	71	75	71	75.4	15	49	15.3	47	49
WMM3-58	58	76	78	78	78.4	15	55	15.3	50	52
WMM3-60	60	78	80	79	80.4	15	55	15.3	51	55
WMM3-63	63	83	83	83		15	55			
WMM3-65	65	84	85	85	85.4	15	55	15.3	52	54.3
WMM3-68	68	88	90	88	91.5	18	55	16	52.7	55.3
WMM3-70	70	90	92	90	92	18	57	15.3	54	56.3
WMM3-75	75	98	97	98	99	18	62	15.3	54	56.3
WMM3-80	80	100	105	103	104	18.2	61.8	16.3	58	59.3





WM 551

OPERATING CONDITIONS

PRESSURE: ≤ 1.0MPA

SPEED: ≤ 15M/S

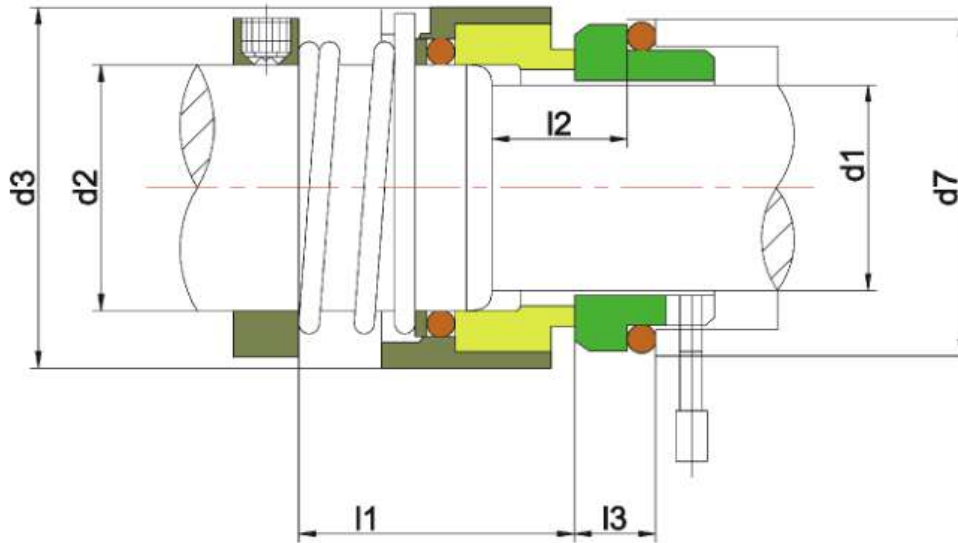
TEMPERATURE: -20℃ ~+220℃

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d(mm)	d3	d1	d7	d6	d4	d12	l	l1	l3	l4	c	d10	dk
WM551-14	14	24	26	25	21	18	24.6	26.5	34	8.5	4	1.5	23.1	17
WM551-16	16	26	28	27	23	20	28	28	35.5	8.5	4	1.5	26.9	19
WM551-18	18	32	34	33	27	23	30	31	38.5	9	5	2	30.9	21
WM551-20	20	34	36	35	29	25	35	33.5	41	9	5	2	30.9	27
WM551-22	22	36	38	37	31	27	35	33	40.5	9	5	2	35.4	26
WM551-24	24	38	40	39	33	29	38	35	42.5	9	5	2	35.4	28
WM551-25	25	39	41	40	34	30	38	38	45.5	9	5	2	38.2	30
WM551-28	28	42	44	43	37	33	42	38	45.5	9	5	2	43.3	33
WM551-30	30	44	46	45	39	35	45	38	45.5	9	5	2	43.3	35
WM551-32	32	46	48	48	42	38	48	40	47.5	9	5	2	43.3	37
WM551-33	33	47	49	48	42	38	48	40	47.5	9	5	2	53.5	38
WM551-35	35	49	51	50	44	40	52	40	47.5	9	5	2	53.5	40
WM551-38	38	54	58	56	49	44	55	47.5	55.5	9	6	2	60.5	44
WM551-40	40	56	60	58	51	46	58	50	58	9	6	2	60.5	45
WM551-43	43	59	63	61	54	49	62	52.5	60.5	9	6	2	60.5	50
WM551-45	45	61	65	63	56	51	64	53.5	61.5	9	6	2	65.5	52
WM551-48	48	64	68	66	59	54	68.4	60	68	9	6	2	65.5	55
WM551-50	50	66	70	70	62	57	69.3	60	68	9	6	2.5	72.5	58
WM551-53	53	69	73	73	65	60	69.3	62	70	9	6	2.5	72.5	61
WM551-55	55	71	75	75	67	62	75.4	64	72	9	6	2.5	72.5	63
WM551-58	58	78	83	78	70	65	78.4	70	78	9	6.5	2.5	72.5	67
WM551-60	60	80	85	80	72	67	50.4	70	78	9	6.5	2.5	79.3	69
WM551-63	63	83	88	83	75	70	80.4	70	78	9	6.5	2.5	79.3	72
WM551-65	65	85	90	85	77	72	85.4	70	78	9	6.5	2.5	84.5	74
WM551-68	68	88	93	90	81	75	91.5	73	81	9	7	2.5	84.5	78
WM551-70	70	90	95	82	83	77	92	75	83	9	7	2.5	89.5	80
WM551-75	75	98	104	97	88	72	99	80	88	9	7	2.5	94.5	86
WM551-80	80	103	109	105	95	89	104	80	88	9	7	3	99.5	91





WM H12N

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

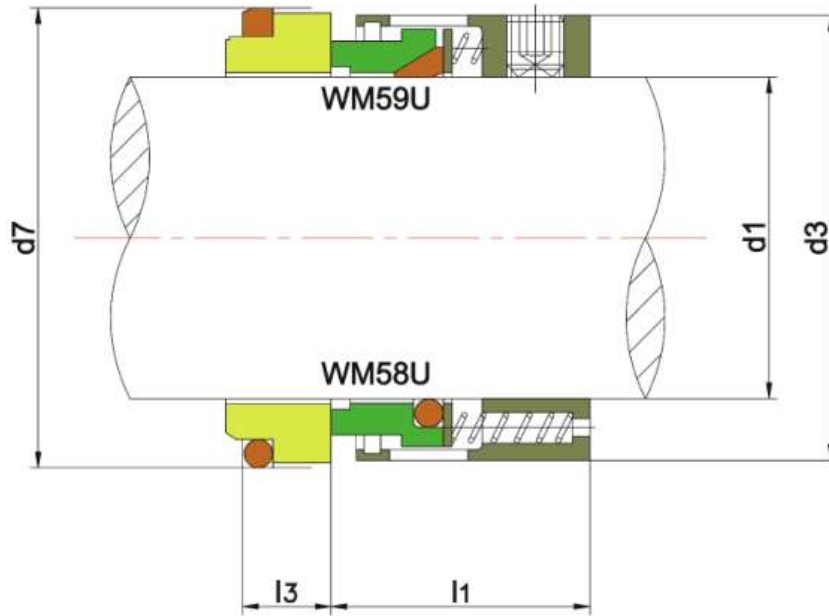
MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d2	d3	d7	l3	l1	l2
WMH12N-10	10	14	24	21	10	25.7	18
WMH12N-12	12	16	26	23	10	26.7	18
WMH12N-14	14	18	31	25	10	29.7	18
WMH12N-16	16	20	34	27	10	31.2	18
WMH12N-18	18	22	36	33	11.5	32.7	20
WMH12N-20	20	24	38	35	11.5	32.7	20
WMH12N-22	22	26	40	37	11.5	32.7	20
WMH12N-24	24	28	42	39	11.5	32.7	20
WMH12N-25	25	30	44	40	11.5	33.7	20
WMH12N-28	28	33	47	43	11.5	35.7	20
WMH12N-30	30	35	49	45	11.5	35.7	20
WMH12N-32	32	38	54	48	11.5	39.7	20
WMH12N-33	33	38	54	48	11.5	39.7	20
WMH12N-35	35	40	56	50	11.5	43.7	20
WMH12N-38	38	43	59	56	14	46.2	23

Model	d1(mm)	d2	d3	d7	l3	l1	l2
WMH12N-40	40	45	61	58	14	48.2	23
WMH12N-43	43	48	64	61	14	51.2	23
WMH12N-45	45	50	66	63	14	55.2	23
WMH12N-48	48	53	69	66	14	55.2	23
WMH12N-50	50	55	71	70	15	58.2	25
WMH12N-53	53	58	78	73	15	60.2	25
WMH12N-55	55	60	79	75	15	60.2	25
WMH12N-58	58	63	83	78	15	60.2	25
WMH12N-60	60	65	85	80	15	60.2	25
WMH12N-63	63	68	88	83	15	60.2	25
WMH12N-65	65	70	90	85	15	61.2	25
WMH12N-70	70	75	98	92	18	63.2	28
WMH12N-75	75	80	103	97	18	68.2	28
WMH12N-80	80	85	109	105	18.2	68.2	28





WM 58U/59U

OPERATING CONDITIONS

PRESSURE: ≤ 1.0MPA

SPEED: ≤ 20M/S

TEMPERATURE: -40℃ ~+200℃

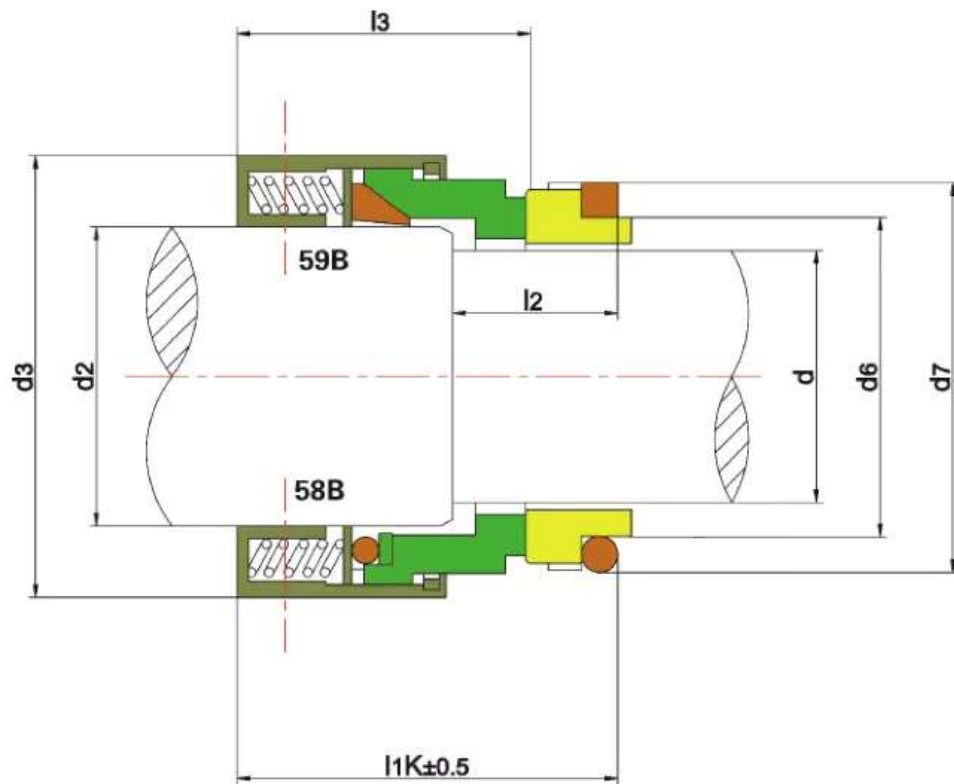
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d7	l3	l1
WM58U WM59U-14	14	24	25	12	23.2
WM58U WM59U-16	16	26	27	12	23.2
WM58U WM59U-18	18	32	33	13.5	24.2
WM58U WM59U-20	20	34	35	13.5	24.2
WM58U WM59U-22	22	36	37	13.5	24.2
WM58U WM59U-24	24	38	39	13.5	26.9
WM58U WM59U-25	25	39	40	13	27.2
WM58U WM59U-28	28	42	43	12.5	30.2
WM58U WM59U-30	30	44	45	12	30.7
WM58U WM59U-32	32	46	48	12	30.7
WM58U WM59U-33	33	47	48	12	30.7
WM58U WM59U-35	35	49	50	12	30.7
WM58U WM59U-38	38	54	56	13	32.2
WM58U WM59U-40	40	56	58	13	32.2
WM58U WM59U-43	43	59	61	13	32.2
WM58U WM59U-45	45	61	63	13	32.2

Model	d1(mm)	d3	d7	l3	l1
WM58U WM59U-48	48	64	66	13	32.2
WM58U WM59U-50	50	66	70	13.5	34.2
WM58U WM59U-53	53	69	73	13.5	34.2
WM58U WM59U-55	55	71	75	13.5	34.2
WM58U WM59U-58	58	78	78	13.5	39.2
WM58U WM59U-60	60	80	80	13.5	39.2
WM58U WM59U-63	63	83	83	13.5	39.2
WM58U WM59U-65	65	85	85	13.5	39.2
WM58U WM59U-68	68	88	90	13.5	39.2
WM58U WM59U-70	70	90	92	14.5	45.7
WM58U WM59U-75	75	95	97	14.5	45.7
WM58U WM59U-80	80	104	105	15	45.2
WM58U WM59U-85	85	109	110	15	45.2
WM58U WM59U-90	90	114	115	15	50.2
WM58U WM59U-95	95	119	120	15	50.2
WM58U WM59U-100	100	124	125	15	50.2





WM 58B/59B

OPERATING CONDITIONS

PRESSURE: ≤ 1.0MPA

SPEED: ≤ 20M/S

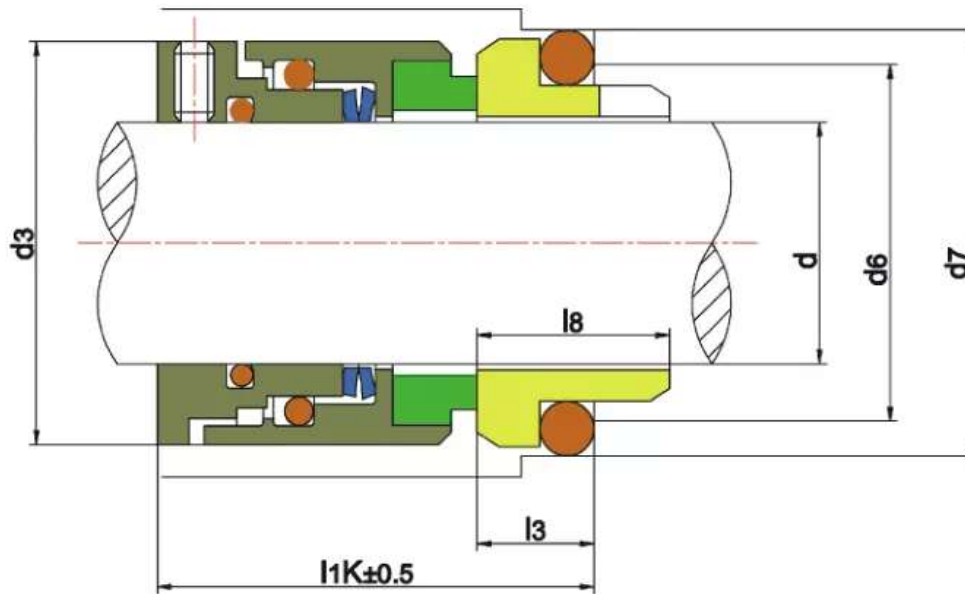
TEMPERATURE: -40℃ ~+200℃

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d(mm)	d2	d3	l1k	l2	l3	d6	d7	Model	d(mm)	d2	d3	l1k	l2	l3	d6	d7
WM58B WM59B-14	14	18	32	42.5	18	30.5	21	25	WM58B WM59B-48	48	53	69	52.5	25	39.5	59	66
WM58B WM59B-16	16	20	34	42.5	18	30.5	23	27	WM58B WM59B-50	50	55	71	57.5	25	44.0	62	70
WM58B WM59B-18	18	22	36	45.0	20	31.5	27	33	WM58B WM59B-53	53	58	78	57.5	25	44.0	65	73
WM58B WM59B-20	20	24	38	45.0	20	31.5	29	35	WM58B WM59B-55	55	60	80	57.5	25	44.0	67	75
WM58B WM59B-22	22	26	40	45.0	20	31.5	31	37	WM58B WM59B-58	58	63	83	62.5	25	49.0	70	78
WM58B WM59B-24	24	28	42	47.5	20	34.2	33	39	WM58B WM59B-60	60	65	85	62.5	25	49.0	72	80
WM58B WM59B-25	25	30	44	47.5	20	34.5	34	40	WM58B WM59B-63	63	68	88	62.5	25	49.0	75	83
WM58B WM59B-28	28	33	47	50.0	20	37.5	37	43	WM58B WM59B-65	65	70	90	62.5	25	49.0	77	85
WM58B WM59B-30	30	35	49	50.0	20	38.0	39	45	WM58B WM59B-70	70	75	95	70.0	28	55.5	83	92
WM58B WM59B-32	32	38	54	50.0	20	38.0	42	48	WM58B WM59B-75	75	80	104	70.0	28	55.5	88	97
WM58B WM59B-33	33	38	54	50.0	20	38.0	42	48	WM58B WM59B-80	80	85	109	70.0	28	55.0	95	105
WM58B WM59B-35	35	40	56	50.0	20	38.0	44	50	WM58B WM59B-85	85	90	114	75.0	28	60.0	100	110
WM58B WM59B-38	38	43	59	52.5	23	39.5	49	56	WM58B WM59B-90	90	95	119	75.0	28	60.0	105	115
WM58B WM59B-40	40	45	61	52.5	23	39.5	51	58	WM58B WM59B-95	95	100	124	75.0	28	60.0	110	120
WM58B WM59B-43	43	48	64	52.5	23	39.5	54	61	WM58B WM59B-100	100	105	129	75.0	28	60.0	115	125
WM58B WM59B-45	45	50	66	52.5	23	39.5	56	63									





WM HJ92N

OPERATING CONDITIONS

PRESSURE: $\leq 2.5\text{MPa}$

SPEED: $\leq 20\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

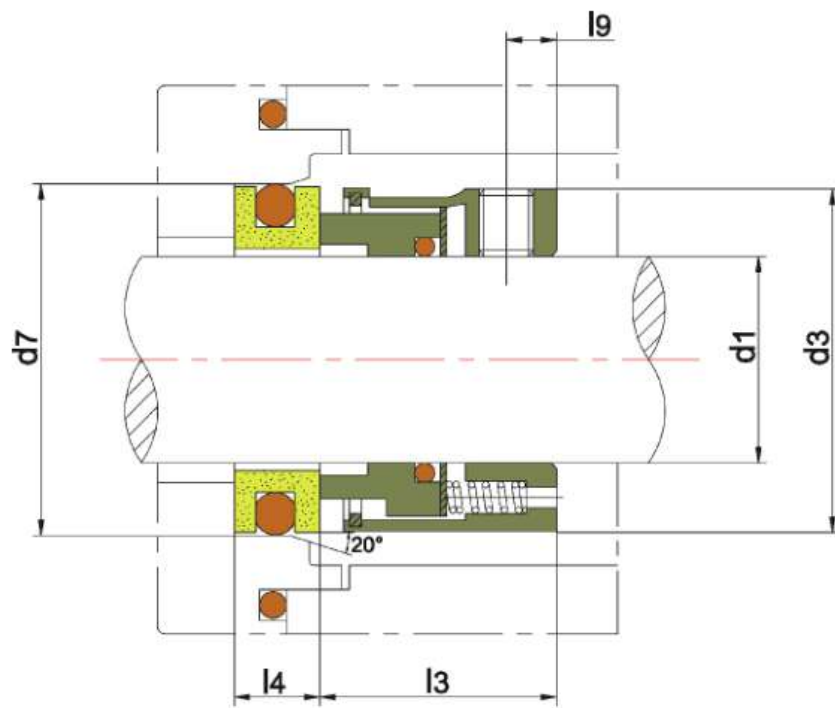
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d(mm)	d3	d6	d7	l8	l1k	l3
WMHJ92N-18	18	32	27	33	15.0	37.5	7
WMHJ92N-20	20	34	29	35	15.0	37.5	7
WMHJ92N-22	22	36	31	37	15.0	37.5	7
WMHJ92N-24	24	38	33	39	15.0	40.0	7
WMHJ92N-25	25	39	34	40	15.0	40.0	7
WMHJ92N-28	28	42	37	43	15.0	42.5	7
WMHJ92N-30	30	44	39	45	15.0	42.5	7
WMHJ92N-32	32	47	42	48	15.0	42.5	7
WMHJ92N-33	33	47	42	48	15.0	42.5	7
WMHJ92N-35	35	49	44	50	15.0	42.5	7
WMHJ92N-38	38	54	49	56	16.0	45.0	8
WMHJ92N-40	40	56	51	58	16.0	45.0	8
WMHJ92N-43	43	59	54	61	16.0	45.0	8
WMHJ92N-45	45	61	56	63	16.0	45.0	8
WMHJ92N-48	48	64	59	66	16.0	45.0	8

Model	d(mm)	d3	d6	d7	l8	l1k	l3
WMHJ92N-50	50	66	62	70	17.0	47.5	9.5
WMHJ92N-53	53	69	65	73	17.0	47.5	9.5
WMHJ92N-55	55	71	67	75	17.0	47.5	9.5
WMHJ92N-58	58	78	70	78	18.0	52.5	10.5
WMHJ92N-60	60	80	72	80	18.0	52.5	10.5
WMHJ92N-63	63	83	75	83	18.0	52.5	10.5
WMHJ92N-65	65	85	77	85	18.0	52.5	10.5
WMHJ92N-68	68	88	81	90	18.5	52.5	11.0
WMHJ92N-70	70	90	83	92	19.0	60.0	11.5
WMHJ92N-75	75	99	88	97	19.0	60.0	11.5
WMHJ92N-80	80	104	95	105	19.0	60.0	11.5
WMHJ92N-85	85	109	100	110	19.0	60.0	11.5
WMHJ92N-90	90	114	105	115	20.5	65.0	13.0
WMHJ92N-95	95	119	110	120	20.5	65.0	13.0
WMHJ92N-100	100	124	115	125	20.5	65.0	13.0





WM 8U8T

OPERATING CONDITIONS

PRESSURE: ≤ 1.7MPa

SPEED: ≤ 25M/S

TEMPERATURE: -50℃ ~+250℃

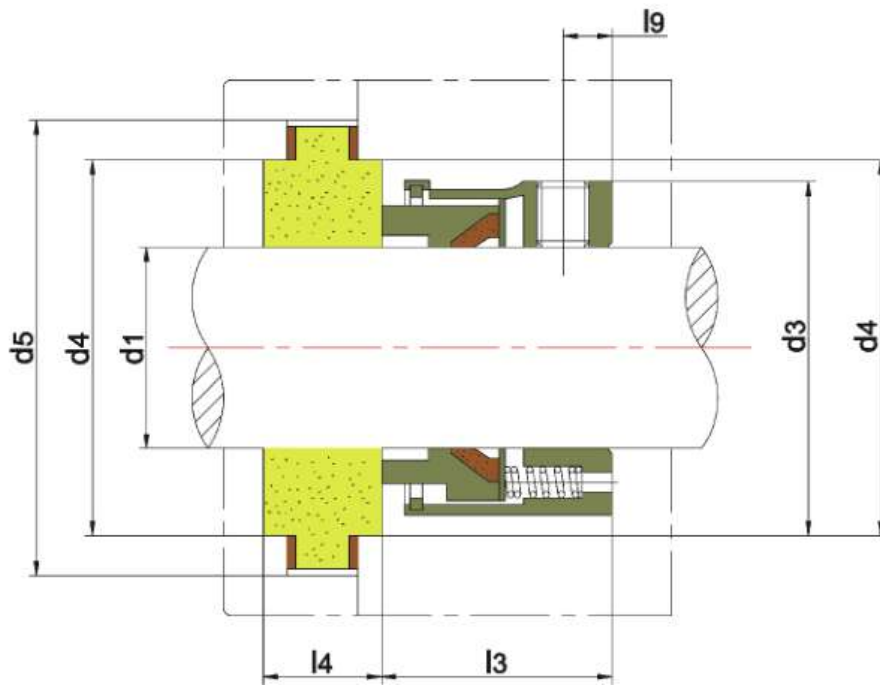
MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(Inch)	d3	d7	l3	l4	l9
WM8U-5/8"	0.625	1.187	1.250	0.750	0.406	0.156
WM8U-3/4"	0.750	1.312	1.375	0.875	0.406	0.187
WM8U-7/8"	0.875	1.437	1.500	0.937	0.406	0.187
WM8U-1"	1.000	1.562	1.625	1.000	0.437	0.187
WM8U-1 1/8"	1.125	1.687	1.750	1.062	0.437	0.218
WM8U-1 1/4"	1.250	1.875	1.875	1.062	0.437	0.187
WM8U-1 3/8"	1.375	2.000	2.000	1.125	0.437	0.187
WM8U-1 1/2"	1.500	2.125	2.125	1.125	0.437	0.187
WM8U-1 5/8"	1.625	2.375	2.375	1.375	0.500	0.281
WM8U-1 3/4"	1.750	2.500	2.500	1.375	0.500	0.281
WM8U-1 7/8"	1.875	2.625	2.625	1.375	0.500	0.281
WM8U-2"	2.000	2.750	2.750	1.375	0.500	0.281
WM8U-2 1/8"	2.125	3.000	3.000	1.687	0.562	0.343
WM8U-2 1/4"	2.250	3.125	3.125	1.687	0.562	0.343
WM8U-2 3/8"	2.375	3.250	3.250	1.687	0.562	0.343
WM8U-2 1/2"	2.500	3.375	3.375	1.687	0.562	0.343
WM8U-2 5/8"	2.625	3.500	3.375	1.687	0.625	0.343
WM8U-2 3/4"	2.750	3.625	3.500	1.687	0.625	0.343
WM8U-2 7/8"	2.875	3.750	3.750	1.687	0.625	0.343
WM8U-3"	3.000	3.812	3.875	1.687	0.625	0.343

Model	d1(Inch)	d3	d7	l3	l4	l9
WM8T-5/8"	0.625	1.062	1.250	0.937	0.406	0.156
WM8T-3/4"	0.750	1.187	1.375	0.937	0.406	0.187
WM8T-7/8"	0.875	1.312	1.500	0.937	0.406	0.187
WM8T-1"	1.000	1.437	1.625	1.000	0.437	0.187
WM8T-1 1/8"	1.125	1.562	1.750	1.000	0.437	0.218
WM8T-1 1/4"	1.250	1.687	1.875	1.000	0.437	0.187
WM8T-1 3/8"	1.375	1.937	2.000	1.375	0.437	0.187
WM8T-1 1/2"	1.500	1.937	2.125	1.125	0.437	0.187
WM8T-1 5/8"	1.625	2.250	2.375	1.156	0.500	0.281
WM8T-1 3/4"	1.750	2.312	2.500	1.375	0.500	0.281
WM8T-1 7/8"	1.875	2.500	2.625	1.375	0.500	0.281
WM8T-2"	2.000	2.625	2.750	1.375	0.500	0.281
WM8T-2 1/8"	2.125	2.812	3.000	1.687	0.562	0.343
WM8T-2 1/4"	2.250	2.843	3.125	1.375	0.562	0.343
WM8T-2 3/8"	2.375	3.000	3.250	1.687	0.562	0.343
WM8T-2 1/2"	2.500	3.125	3.375	1.375	0.562	0.343
WM8T-2 5/8"	2.625	3.250	3.375	1.687	0.625	0.343
WM8T-2 3/4"	2.750	3.375	3.500	1.687	0.625	0.343
WM8T-2 7/8"	2.875	3.500	3.750	1.687	0.625	0.343
WM8T-3"	3.000	3.625	3.875	1.687	0.625	0.343





WM 9U9T

OPERATING CONDITIONS

PRESSURE: ≤ 1.7MPA

SPEED: ≤ 25M/S

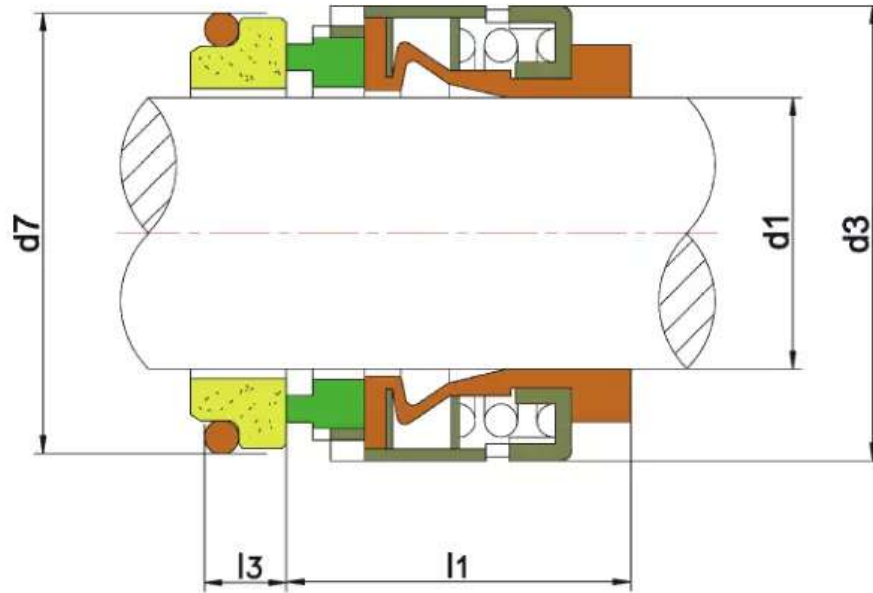
TEMPERATURE: -50℃ ~+250℃

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(Inch)	d3	d4	d5	l3	l4	l9	Model	d1(Inch)	d3	d4	d5	l3	l4	l9
WM9U-5/8"	0.625	1.187	1.250	1.593	0.750	0.812	0.156	WM9T-5/8"	0.625	1.062	1.250	1.593	0.937	0.812	0.156
WM9U-3/4"	0.750	1.312	1.375	1.718	0.875	0.812	0.187	WM9T-3/4"	0.750	1.187	1.375	1.718	0.937	0.812	0.187
WM9U-7/8"	0.875	1.437	1.500	1.843	0.937	0.812	0.187	WM9T-7/8"	0.875	1.312	1.500	1.843	0.937	0.812	0.187
WM9U-1"	1.000	1.562	1.625	1.968	1.000	0.812	0.187	WM9T-1"	1.000	1.437	1.625	1.968	1.000	0.812	0.187
WM9U-1 1/8"	1.125	1.687	1.750	2.093	1.062	0.812	0.218	WM9T-1 1/8"	1.125	1.562	1.750	2.093	1.000	0.812	0.218
WM9U-1 1/4"	1.250	1.875	1.875	2.218	1.062	0.812	0.187	WM9T-1 1/4"	1.250	1.687	1.875	2.218	1.375	0.812	0.187
WM9U-1 3/8"	1.375	2.000	2.000	2.593	1.125	0.875	0.187	WM9T-1 3/8"	1.375	1.937	2.000	2.593	1.000	0.875	0.187
WM9U-1 1/2"	1.500	2.125	2.125	2.593	1.125	0.875	0.187	WM9T-1 1/2"	1.500	1.937	2.125	2.593	1.125	0.875	0.187
WM9U-1 5/8"	1.625	2.375	2.375	2.906	1.375	0.875	0.281	WM9T-1 5/8"	1.625	2.250	2.375	2.903	1.156	0.875	0.281
WM9U-1 3/4"	1.750	2.500	2.500	2.968	1.375	0.875	0.281	WM9T-1 3/4"	1.750	2.312	2.500	2.968	1.375	0.875	0.281
WM9U-1 7/8"	1.875	2.625	2.625	3.156	1.375	0.875	0.281	WM9T-1 7/8"	1.875	2.500	2.625	3.156	1.375	0.875	0.281
WM9U-2"	2.000	2.750	2.750	3.406	1.375	1.000	0.281	WM9T-2"	2.000	2.625	2.750	3.406	1.375	1.000	0.281
WM9U-2 1/8"	2.125	3.000	3.000	3.593	1.687	1.000	0.343	WM9T-2 1/8"	2.125	2.812	3.000	3.593	1.687	1.000	0.343
WM9U-2 1/4"	2.250	3.125	3.125	3.625	1.687	1.000	0.343	WM9T-2 1/4"	2.250	2.843	3.125	3.625	1.375	1.000	0.343
WM9U-2 3/8"	2.375	3.250	3.250	3.781	1.687	1.000	0.343	WM9T-2 3/8"	2.375	3.000	3.250	3.781	1.687	1.000	0.343
WM9U-2 1/2"	2.500	3.375	3.375	3.906	1.687	1.000	0.343	WM9T-2 1/2"	2.500	3.125	3.375	3.906	1.375	1.000	0.343
WM9U-2 5/8"	2.625	3.500	3.375	4.031	1.687	1.000	0.343	WM9T-2 5/8"	2.625	3.250	3.375	4.031	1.687	1.000	0.343
WM9U-2 3/4"	2.750	3.625	3.500	4.156	1.687	1.000	0.343	WM9T-2 3/4"	2.750	3.375	3.500	4.156	1.687	1.000	0.343
WM9U-2 7/8"	2.875	3.750	3.750	4.281	1.687	1.000	0.343	WM9T-2 7/8"	2.875	3.500	3.750	4.281	1.687	1.000	0.343
WM9U-3"	3.000	3.812	3.875	4.406	1.687	1.000	0.343	WM9T-3"	3.000	3.625	3.875	4.406	1.687	1.000	0.343





WM 502

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

SPEED: $\leq 12\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

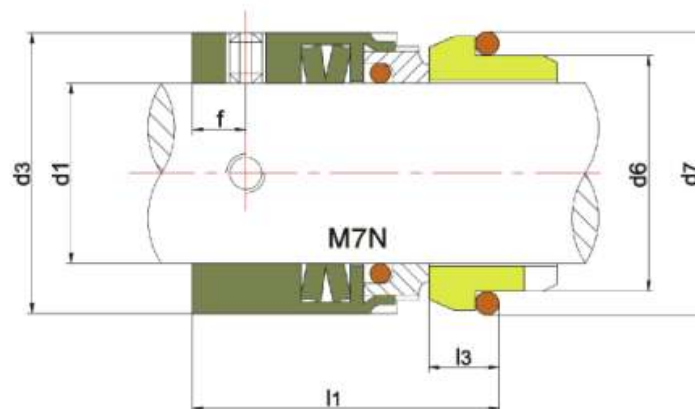
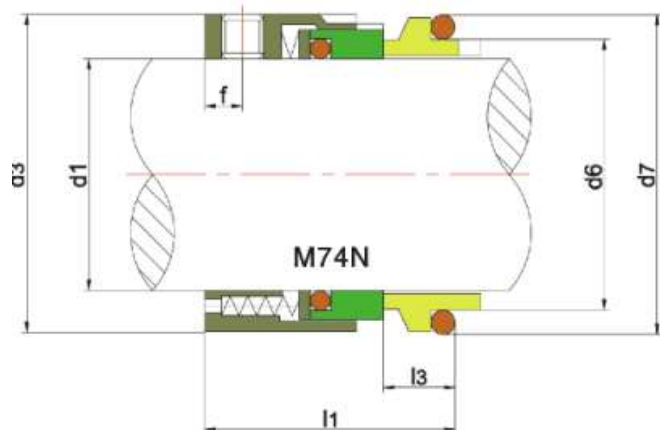
MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d3	d7	l3	l1
WM502-14	14	24	25	12	23.2
WM502-16	16	26	27	12	23.2
WM502-18	18	32	33	13.5	24.2
WM502-20	20	34	35	13.5	24.2
WM502-22	22	36	37	13.5	24.2
WM502-24	24	38	39	13.3	26.9
WM502-25	25	39	40	13	27.2
WM502-28	28	42	43	12.5	30.2
WM502-30	30	44	45	11.9	30.7
WM502-32	32	46	48	11.9	30.7
WM502-33	33	47	48	11.9	30.7
WM502-35	35	49	50	11.9	30.7
WM502-38	38	54	56	12.9	32.2
WM502-40	40	56	58	12.9	32.2
WM502-43	43	59	61	12.9	32.2
WM502-45	45	61	63	12.9	32.2

Model	d1(mm)	d3	d7	l3	l1
WM502-48	48	64	66	12.9	32.2
WM502-50	50	66	70	13.4	34.2
WM502-53	53	69	73	13.4	34.2
WM502-55	55	71	75	13.4	34.2
WM502-58	58	78	78	13.4	39.2
WM502-60	60	80	80	13.4	39.2
WM502-63	63	83	83	13.4	39.2
WM502-65	65	85	85	13.4	39.2
WM502-68	68	88	90	13.4	39.2
WM502-70	70	89	92	14.5	45.7
WM502-75	75	96	97	14.5	45.7
WM502-80	80	104	105	15	45.2
WM502-85	85	109	110	15	45.2
WM502-90	90	114	115	15	50.2
WM502-95	95	119	120	15	50.2
WM502-100	100	124	125	15	50.2





WM M7N

M74N

OPERATING CONDITIONS

PRESSURE: $\leq 1.6\text{MPa}$

SPEED: $\leq 20\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

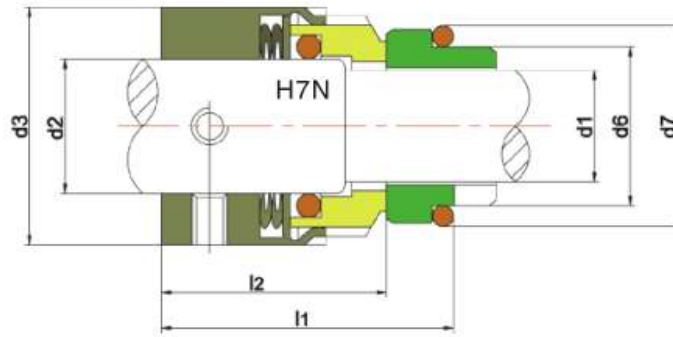
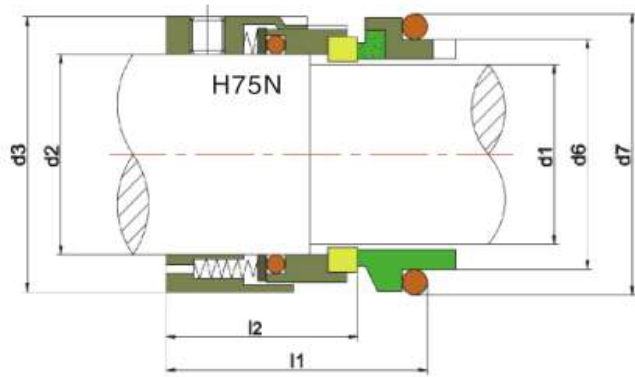
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d3	d6	d7	l1	l3	f
WMM7N-14	14	25.0	21	25.0	35.0	10.0	6.0
WMM7N-16	16	27.0	23	27.0	35.0	10.0	6.0
WMM7N-18	18	33.0	27	33.0	37.0	11.5	7.0
WMM7N-20	20	35.0	29	35.0	37.0	11.5	7.0
WMM7N-22	22	37.0	31	37.0	37.0	11.5	7.0
WMM7N-24	24	39.0	33	39.0	40.0	11.5	8.0
WMM7N-25	25	40.0	34	40.0	40.0	11.5	8.0
WMM7N-28	28	43.0	37	43.0	42.5	11.5	8.0
WMM7N-30	30	45.0	39	45.0	42.5	11.5	8.0
WMM7N-32	32	47.0	42	48.0	42.5	11.5	8.0
WMM7N-33	33	48.0	42	48.0	42.5	11.5	8.0
WMM7N-35	35	50.0	44	50.0	42.5	11.5	8.0
WMM7N-38	38	55.0	49	56.0	45.0	14.0	8.0
WMM7N-40	40	57.0	51	58.0	45.0	14.0	8.0
WMM7N-43	43	60.0	54	61.0	45.0	14.0	8.0
WMM7N-45	45	62.0	56	63.0	45.0	14.0	8.0

Model	d1(mm)	d3	d6	d7	l1	l3	f
WMM7N-48	48	65.0	59	66.0	45.0	14.0	8.0
WMM7N-50	50	67.0	62	70.0	47.5	15.0	8.0
WMM7N-53	53	70.0	65	73.0	47.5	15.0	8.0
WMM7N-55	55	72.0	67	75.0	47.5	15.0	8.0
WMM7N-58	58	79.0	70	78.0	52.5	15.0	9.0
WMM7N-60	60	81.0	72	80.0	52.5	15.0	9.0
WMM7N-63	63	84.0	75	83.0	52.5	15.0	9.0
WMM7N-65	65	86.0	77	85.0	52.5	15.0	9.0
WMM7N-68	68	89.0	81	90.0	52.5	18.0	9.0
WMM7N-70	70	91.0	83	92.0	60.0	18.0	9.0
WMM7N-75	75	99.0	85	97.0	60.0	18.0	10.0
WMM7N-80	80	104.0	95	105.0	60.0	18.2	10.0
WMM7N-85	85	109.0	100	110.0	60.0	18.2	10.0
WMM7N-90	90	114.0	105	115.0	65.0	18.2	10.0
WMM7N-95	95	119.0	110	120.0	65.0	17.2	10.0
WMM7N-100	100	124.0	115	125.0	65.0	17.2	10.0





WM H7N

H75N

OPERATING CONDITIONS

PRESSURE: ≤ 2.5 MPA

SPEED: ≤ 20 M/S

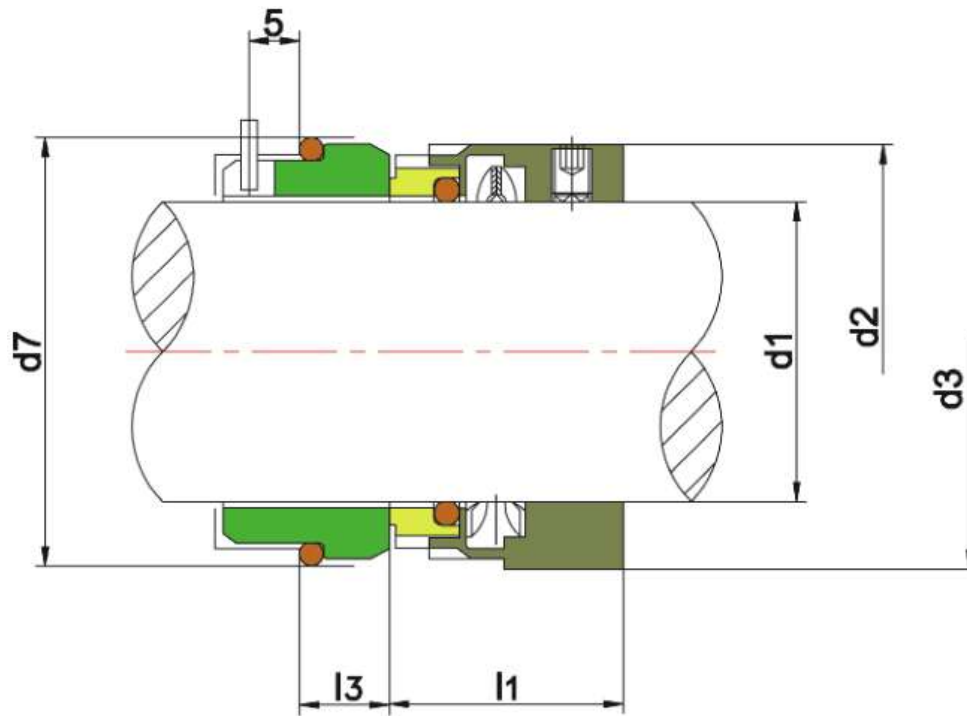
TEMPERATURE: $-20 \sim +200$ °C

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d2	d3	d6	d7	l2	l1
WMH7N-25	25	30	45	34	40	36.0	47.5
WMH7N-28	28	33	48	37	43	38.5	50.0
WMH7N-30	30	35	50	39	45	38.5	50.0
WMH7N-33	33	38	55	42	48	38.5	50.0
WMH7N-35	35	40	57	44	50	38.5	50.0
WMH7N-38	38	43	60	49	56	38.5	52.5
WMH7N-40	40	45	62	51	58	38.5	52.5
WMH7N-43	43	48	65	54	61	38.5	52.5
WMH7N-45	45	50	67	56	63	38.5	52.5
WMH7N-48	48	53	70	59	66	38.5	52.5
WMH7N-50	50	55	72	62	70	42.5	57.5
WMH7N-53	53	58	79	65	73	42.5	57.5
WMH7N-55	55	60	81	67	75	42.5	57.5
WMH7N-60	60	65	86	72	80	47.5	62.5
WMH7N-65	65	70	91	77	85	47.5	62.5
WMH7N-70	70	75	99	83	92	52	70.0
WMH7N-75	75	80	104	88	97	52	70.0
WMH7N-80	80	85	109	95	105	51.8	70.0
WMH7N-85	85	90	114	100	110	56.8	75.0
WMH7N-90	90	95	119	105	115	56.8	75.0
WMH7N-95	95	100	124	110	120	57.8	75.0





WM M74D

OPERATING CONDITIONS

PRESSURE: $\leq 2.5\text{MPa}$

SPEED: $\leq 20\text{M/S}$

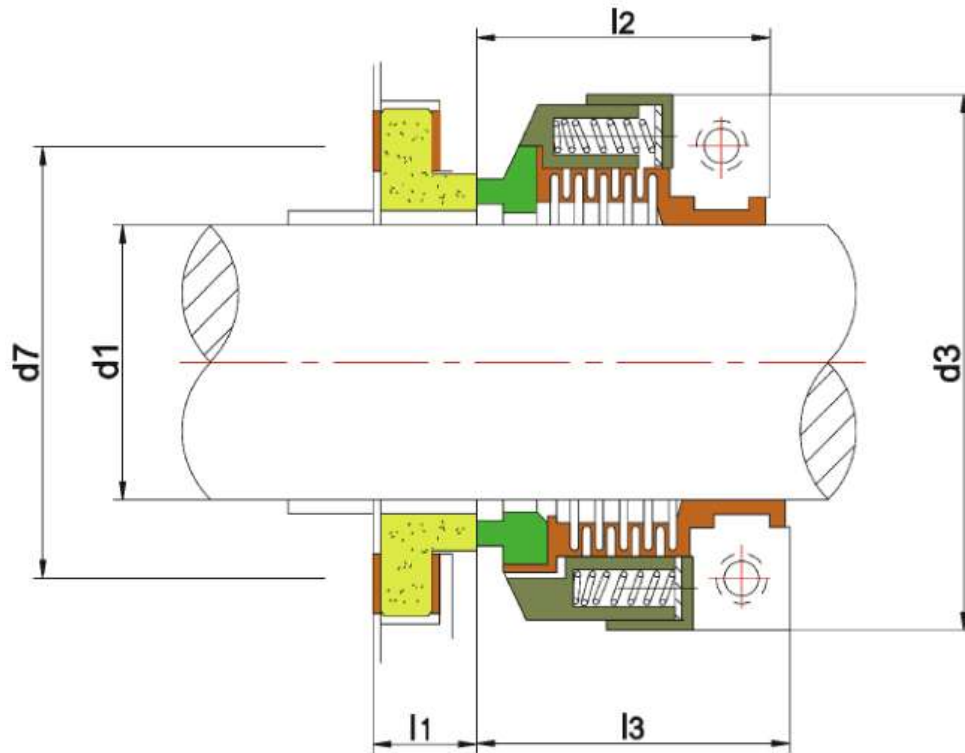
TEMPERATURE: $-20^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d2	d7	d3	l3	l1	Model	d1(mm)	d2	d7	d3	l3	l1
WMM74D-14	14	25	25	33	10	25.2	WMM74D-48	48	65	66	68	14	31.2
WMM74D-16	16	27	27	35	10	25.2	WMM74D-50	50	67	70	70	15	32.7
WMM74D-18	18	33	33	37	11.5	26.2	WMM74D-53	53	70	73	74	15	32.7
WMM74D-20	20	35	35	39	11.5	26.2	WMM74D-55	55	72	75	75	15	32.7
WMM74D-22	22	37	37	41	11.5	26.2	WMM74D-58	58	79	78	82	15	32.7
WMM74D-24	24	39	39	43	11.5	28.7	WMM74D-60	60	81	80	84	15	32.7
WMM74D-25	25	40	40	44	11.5	28.7	WMM74D-63	63	84	83	87	15	32.7
WMM74D-28	28	43	43	46	11.5	31.2	WMM74D-65	65	86	85	94	15	32.7
WMM74D-30	30	45	45	48	11.5	31.2	WMM74D-68	68	89	90	92	18	34.7
WMM74D-32	32	47	48	50	11.5	31.2	WMM74D-70	70	91	92	94	18	42.2
WMM74D-33	33	48	48	50	11.5	31.2	WMM74D-75	75	99	97	104	18	42.2
WMM74D-35	35	50	50	53	11.5	31.2	WMM74D-80	80	104	105	108	18.2	42
WMM74D-38	38	55	50	60	14	31.2	WMM74D-85	85	109	110	113	18.2	42
WMM74D-40	40	57	53	64	14	31.2	WMM74D-90	90	114	115	118	18.2	47
WMM74D-43	43	60	58	65	14	31.2	WMM74D-95	95	119	120	123	17.2	48
WMM74D-45	45	62	60	68	14	31.2	WMM74D-100	100	124	125	128	17.2	48





WM 152

OPERATING CONDITIONS

PRESSURE: $\leq 0.5\text{MPa}$

SPEED: $\leq 10\text{M/S}$

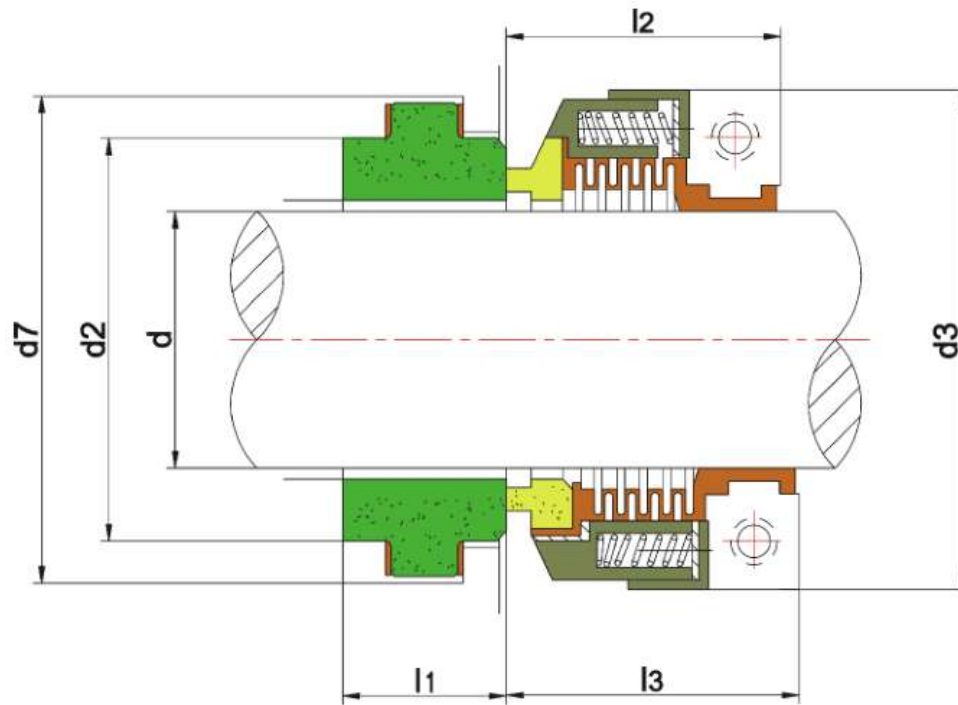
TEMPERATURE: $\leq 120^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d7	d3	l1	l2	l3
WM152-25	25	60	48	13	42	45
WM152-30	30	67	53	13	42	45
WM152-35	35	72	58	13	42	45
WM152-40	40	78	63	13	42	45
WM152-45	45	84	68	16	44	46
WM152-50	50	88	73	16	46	46
WM152-55	55	95	78	16	46	46
WM152-60	60	100	83	17	46	46
WM152-65	65	105	88	17	46	46





WM WB2

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

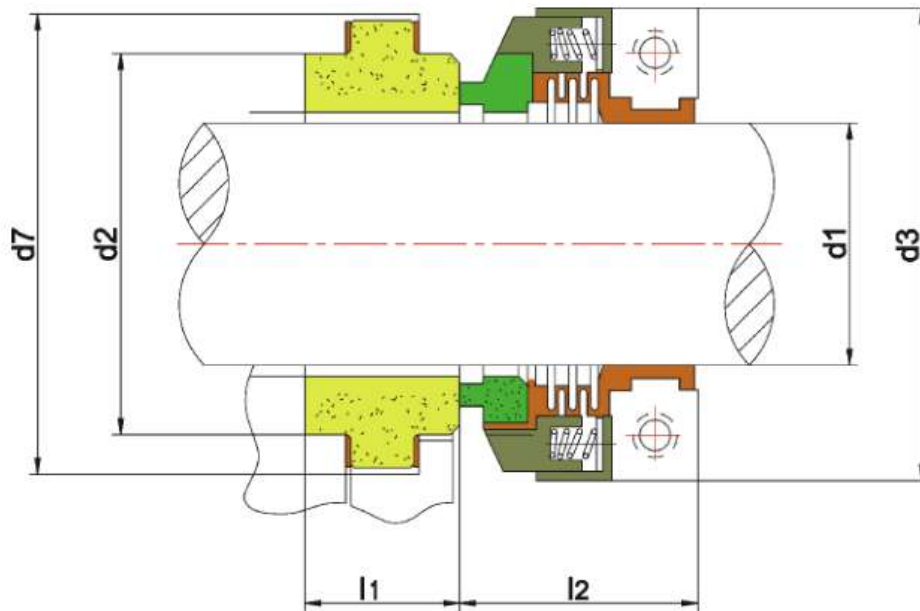
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d(Inch)	d3	d7	d2	l1	l2	l3
WMWB2-1"	25.4	60	54	42.86	17.5	42	45
WMWB2-1 1/8"	28.6	67	60	46.03	27	42	45
WMWB2-1 1/4"	31.75	69	65	50.8	27	42	45
WMWB2-1 3/8"	34.93	72	68	53.98	27	42	45
WMWB2-1 1/2"	38.1	76	71	57.15	27	42	45
WMWB2-1 5/8"	41.28	80	78	63.5	27	42	45
WMWB2-1 3/4"	44.45	84	81	66.68	27	44	46
WMWB2-1 7/8"	47.63	86	84	69.85	27	44	46
WMWB2-2"	50.8	90	87	73.03	27	46	46
WMWB2-2 1/8"	53.98	95	97	79.38	33.5	46	46
WMWB2-2 1/4"	57.15	98	100	82.55	33.5	46	46
WMWB2-2 3/8"	60.3	100	103	85.73	33.5	46	46

Model	d(mm)	d3	d7	d2	l1	l2	l3
WMWB2-25	25	60	60	47	27	42	45
WMWB2-30	30	67	67	53	27	42	45
WMWB2-32	32	69	64	50.7	27	42	45
WMWB2-35	35	72	70	57	27	42	45
WMWB2-40	40	78	76	62	26	42	45
WMWB2-45	45	84	82	67	27	44	46
WMWB2-50	50	88	86	72	27	46	46
WMWB2-55	55	95	90	77	27	46	46
WMWB2-60	60	100	95	82	27	46	46
WMWB2-65	65	105	100	87	27	46	46





WM 10T

OPERATING CONDITIONS

PRESSURE: $\leq 0.5\text{MPa}$

SPEED: $\leq 10\text{M/S}$

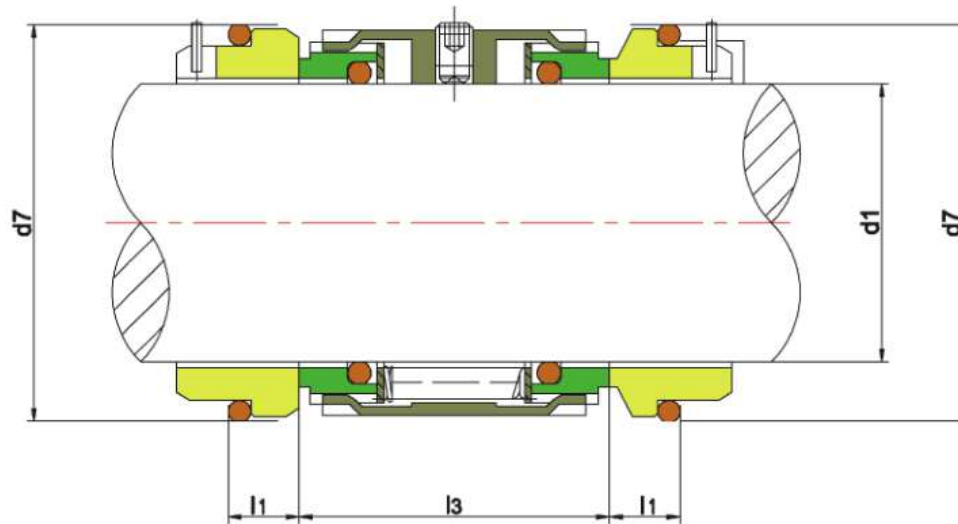
TEMPERATURE: $\leq 120^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(Inch)	d3	d7	d2	l1	l2
WM10R WM10T-1"	25.4	60	54	42.89	17.6	33.2
WM10R WM10T-1 1/8"	28.6	67	65	50.8	27	36.2
WM10R WM10T-1 1/4"	31.75	69	68	53.98	27	37.2
WM10R WM10T-1 3/8"	34.93	72	71	57.15	27	38.2
WM10R WM10T-1 1/2"	38.1	76	78	63.5	27	38.2
WM10R WM10T-1 5/8"	41.28	80	81	66.68	27	40.2
WM10R WM10T-1 3/4"	44.45	84	84	69.85	27	40.2
WM10R WM10T-1 7/8"	47.63	86	87	73.03	27	43.2
WM10R WM10T-2"	50.8	90	97	79.38	33.3	43.2





WM 50D

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-20^{\circ}\text{C} \sim +180^{\circ}\text{C}$

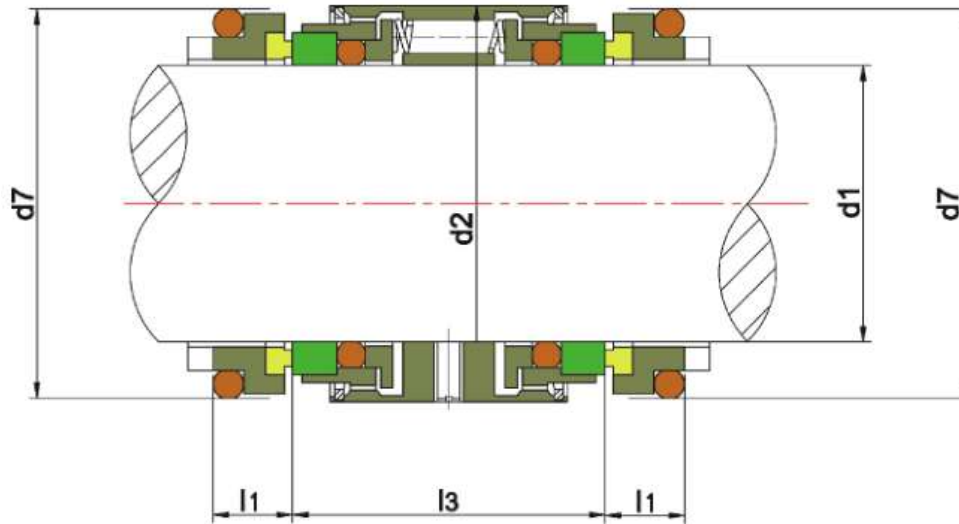
MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d7	d7	l1	l3
WM50D-18	18	33	33	11.5	38
WM50D-20	20	35	35	11.5	38
WM50D-22	22	37	37	11.5	38
WM50D-24	24	39	39	11.5	38
WM50D-25	25	40	40	11.5	38
WM50D-28	28	43	43	11.5	39
WM50D-30	30	45	45	11.5	39
WM50D-32	32	47	48	11.5	39
WM50D-33	33	48	48	11.5	39
WM50D-35	35	50	50	11.5	39
WM50D-38	38	55	56	14	41
WM50D-40	40	57	58	14	42
WM50D-43	43	60	61	14	42
WM50D-45	45	62	63	14	42
WM50D-48	48	65	66	14	42

Model	d1(mm)	d7	d7	l1	l3
WM50D-50	50	67	70	15	43
WM50D-53	53	70	73	15	43
WM50D-55	55	72	75	15	43
WM50D-58	58	79	78	15	56
WM50D-60	60	81	80	15	56
WM50D-63	63	84	83	15	55
WM50D-65	65	86	85	15	55
WM50D-68	68	89	90	18	55
WM50D-70	70	91	92	18	55
WM50D-75	75	99	97	18	56
WM50D-80	80	104	105	18.2	56
WM50D-85	85	109	110	18.2	56
WM50D-90	90	114	115	18.2	56
WM50D-95	95	119	120	17.2	56
WM50D-100	100	124	125	17.2	56





WM 5ED

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 13\text{M/S}$

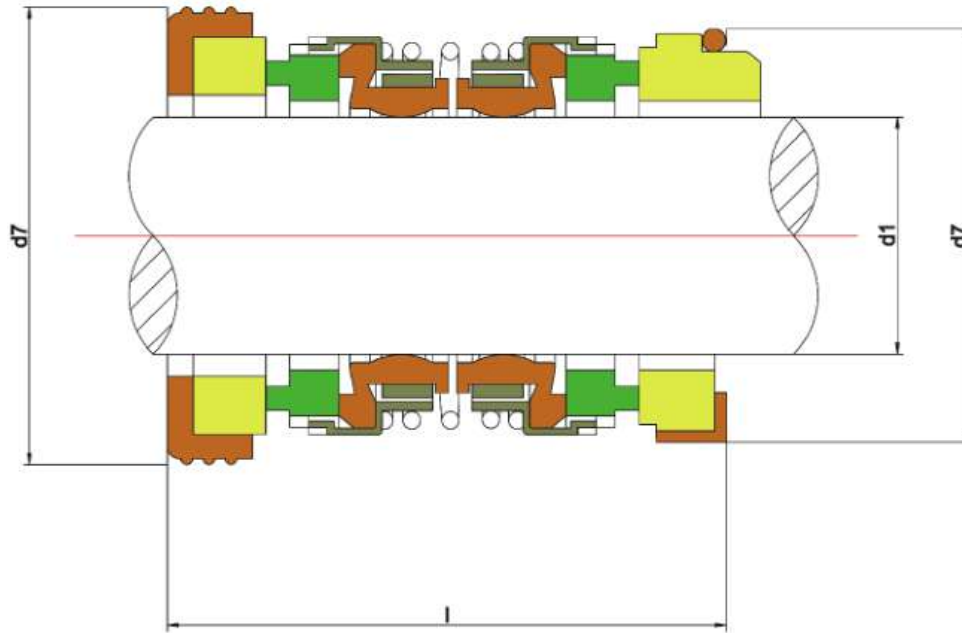
TEMPERATURE: $-20 \sim +180\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d7	d2	l1	l3
WM5ED-20	20	38	35	11.5	39
WM5ED-25	25	43	40	11.5	39
WM5ED-30	30	48	45	11.5	42
WM5ED-35	35	53	50	12	40
WM5ED-40	40	61	58	12	45
WM5ED-45	45	66	63	12	45
WM5ED-50	50	73	70	13	46
WM5ED-55	55	78	75	13	46
WM5ED-60	60	83	80	14	56
WM5ED-65	65	88	85	14	56
WM5ED-70	70	95	92	17	58
WM5ED-75	75	100	97	17	58
WM5ED-80	80	108	105	17	58





WM 47D

OPERATING CONDITIONS

PRESSURE: $\leq 0.5\text{MPa}$

SPEED: $\leq 8\text{M/S}$

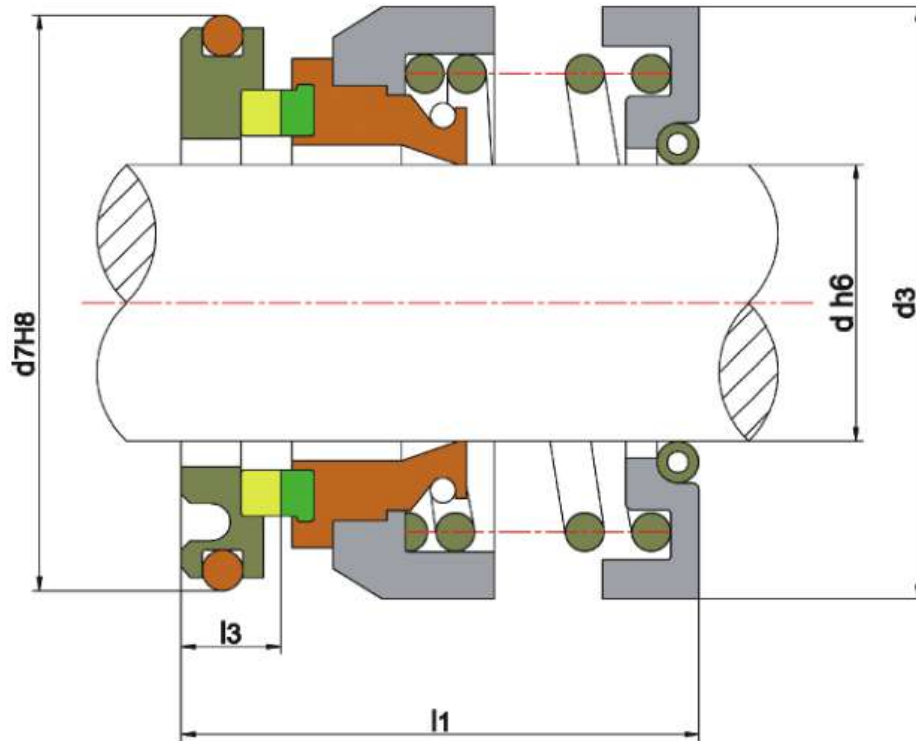
TEMPERATURE: $-20^{\circ}\text{C} \sim +100^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

Model	d1(mm)	d7	d7	l
WM47D-16	16	27	27	36
WM47D-18	18	33	33	36
WM47D-20	20	35	35	49
WM47D-22	22	37	37	49
WM47D-24	24	39	39	49
WM47D-25	25	40	40	51
WM47D-28	28	43	43	51
WM47D-30	30	45	45	59
WM47D-32	32	48	48	61
WM47D-33	33	48	48	61
WM47D-35	35	50	50	61
WM47D-38	38	56	56	61
WM47D-40	40	58	58	64.5
WM47D-43	43	61	61	65
WM47D-45	45	63	63	65
WM47D-48	48	66	66	65
WM47D-50	50	70	70	69.5
WM47D-53	53	73	73	69.5
WM47D-55	55	75	75	71





WM X

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 5\text{M/S}$

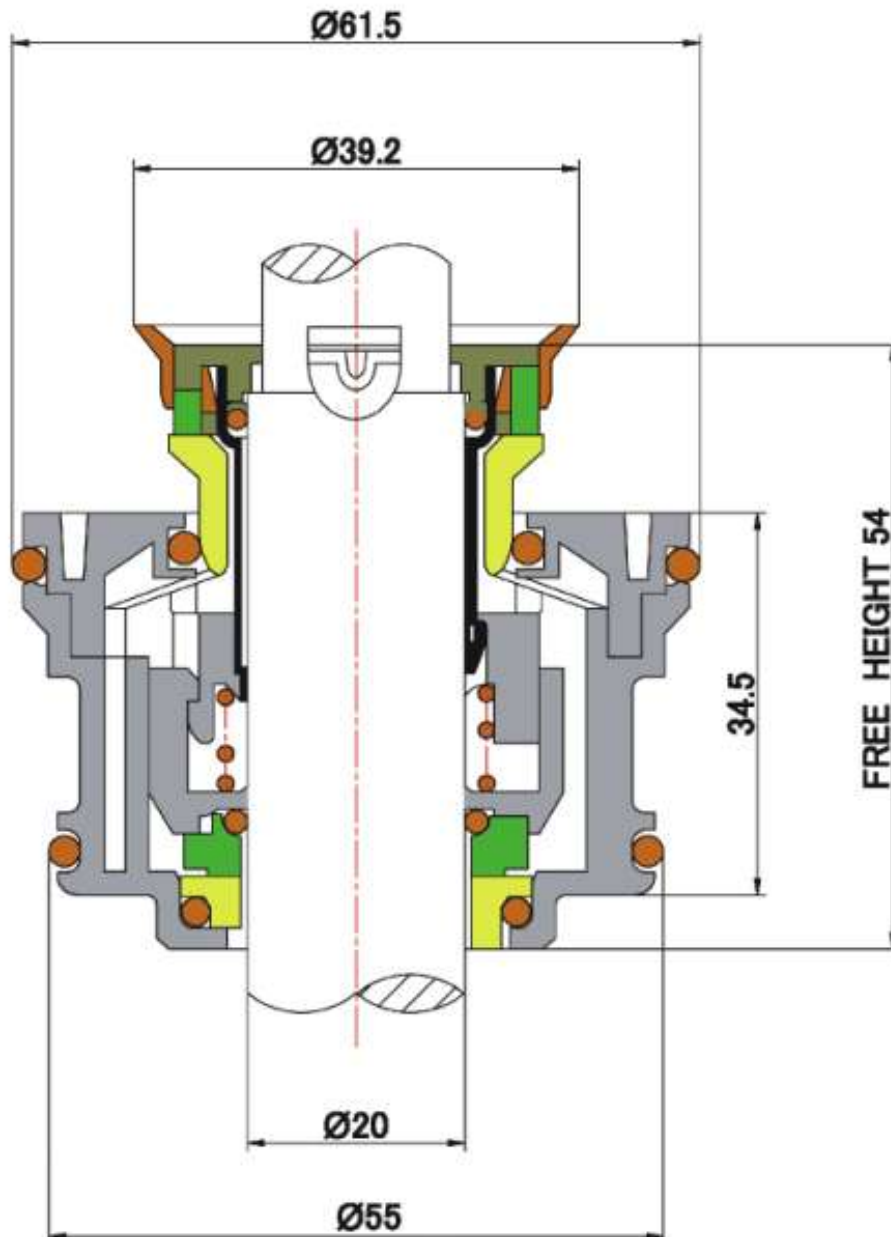
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (SIC/TC)
- O-RING (NBR/EPDM/VITON)
- SPRING (SUS304/SUS316)
- TENSION SPRING(SUS321)
- STATIONARY SEAT (SUS304/SUS316)
- SPRING COVER (BAKELITE/ALUMINA)
- RETAINER (BAKELITE/ALUMINA)

Model	d(mm)	d3	d7	l1	l3
WMX-20	20	42.5	55.5	36.5	11.0
WMX-22	22	47.0	45.5	32.6	9.0
WMX-25	25	54.0	50.5	38.6	10.0
WMX-28	28	54.0	50.5	38.6	10.0
WMX-30	30	54.0	50.5	38.6	10.0
WMX-35	35	62.0	60.5	39.8	11.0





WM XE

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

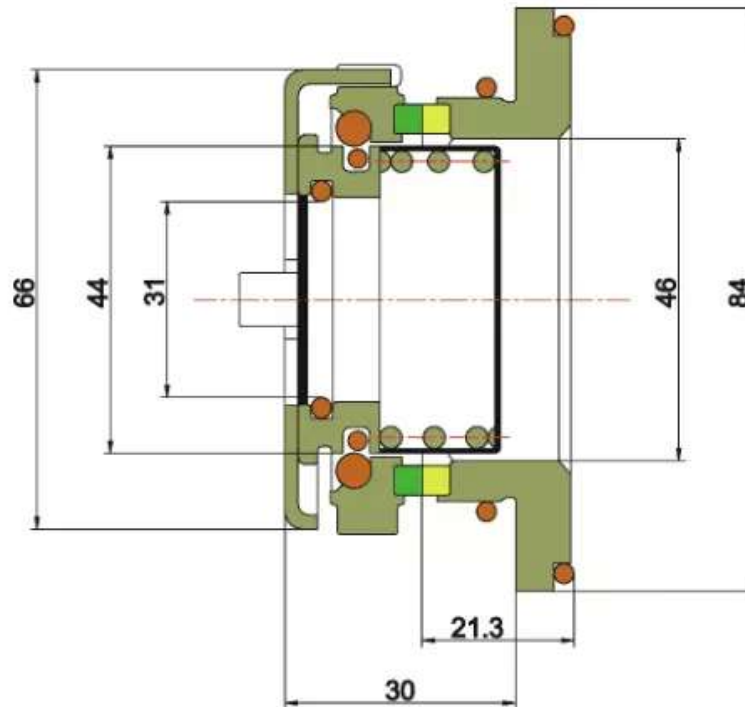
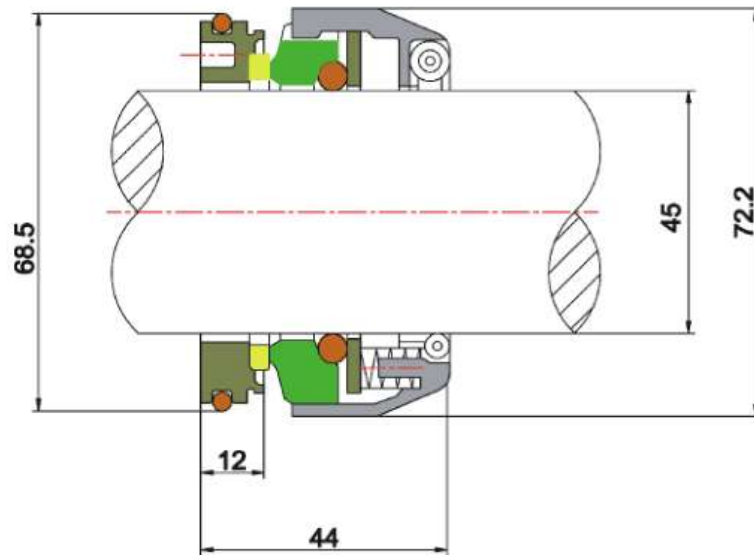
SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +180^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING(TC)
- STATIONARY RING (TC)
- SECONDARY SEAL(NBR/VITON/EPDM)
- SPRING & OTHER PARTS(SUS304/SUS316)
- OTHER PARTS(PLASTIC)





WM XC-35

XC-45

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

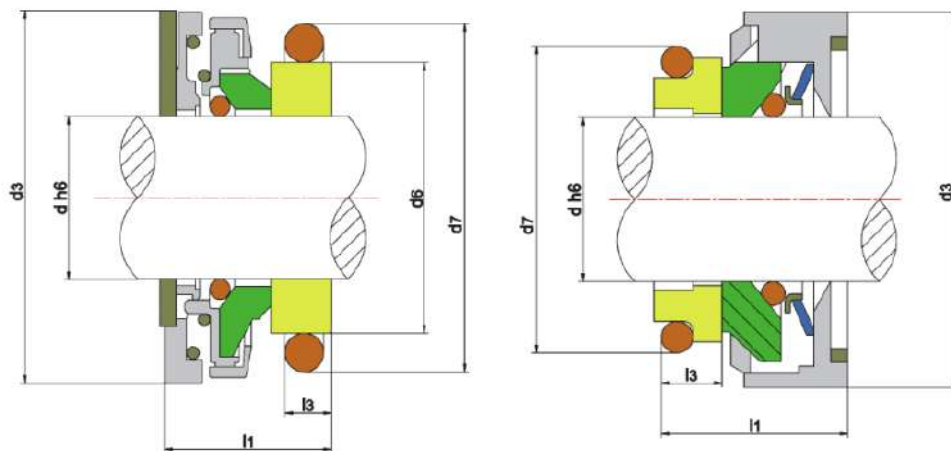
SPEED: $\leq 10\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC/TC)
- STATIONARY RING (CERAMIC/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING & OTHER PARTS(65MN/SUS304/SUS316)
- OTHER PARTS(PLASTIC)





WM XA

OPERATING CONDITIONS

PRESSURE: $\leq 1.0\text{MPa}$

SPEED: $\leq 10\text{M/S}$

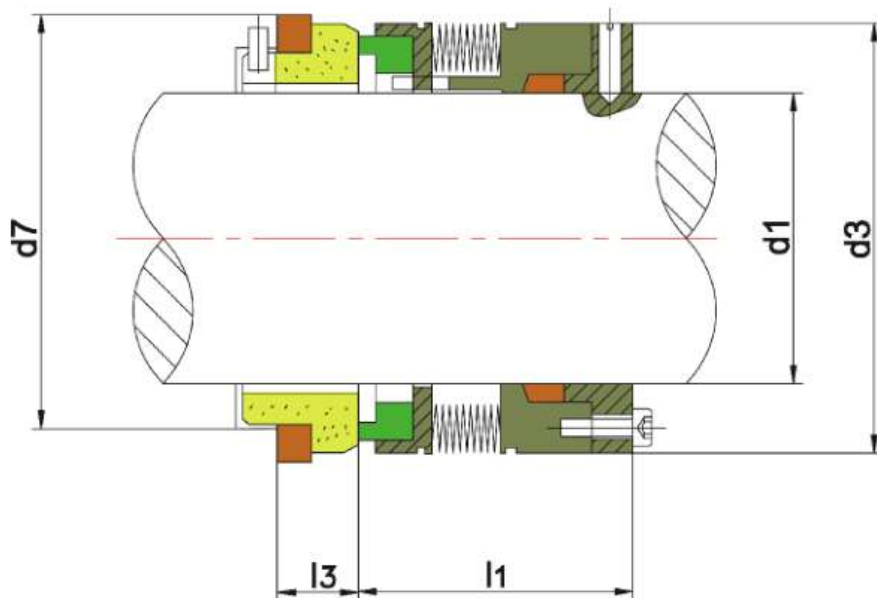
TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- ROTARY RING (TC)
- STATIONARY RING (TC)
- SECONDARY SEAL(NBR/VITON/EPDM)
- SPRING & OTHER PARTS(SUS304/SUS316)
- OTHER PARTS(PLASTIC)

Model	d(mm)	d3	d6	d7	l1	l3
WMXA-20	20	45.2	\	36	21.5	7.2
WMXA-25	25	54.0	35.2	42	21.0	6.0
WMXA-35	35	69.8	50.3	56	25.7	10.2





WM 785

OPERATING CONDITIONS

PRESSURE: $\leq 2.0\text{MPa}$

SPEED: $\leq 23\text{M/S}$

TEMPERATURE: $-20 \sim +200\text{ }^{\circ}\text{C}$

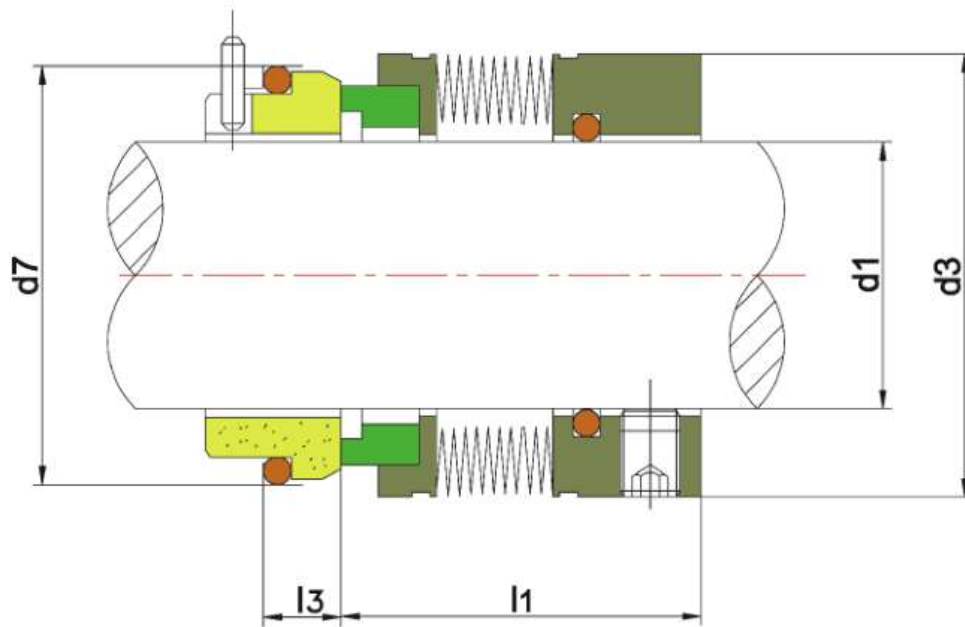
MATERIALS COMBINATION

- STATIONARY RING (SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- BELLOWS(AM350/LNCONE17180)
- METAL PARTS(STAINLESS STEEL304,316)

Model	d1(mm)	d3	d7	l3	l1
WM785-16	16	30	27	10	32.7
WM785-18	18	32	33	7	30.7
WM785-20	20	33.5	35	7	30.7
WM785-22	22	36.5	37	7	30.7
WM785-24	24	39	39	11.5	28.7
WM785-25	25	39.6	40	11.5	28.7
WM785-28	28	42.8	43	11.5	31.2
WM785-30	30	45	45	11.5	31.2
WM785-32	32	46	48	11.5	31.2
WM785-33	33	48	48	11.5	31.2
WM785-35	35	49.2	50	11.5	31.2
WM785-38	38	52.3	56	14	31.2
WM785-40	40	55.5	58	14	31.2
WM785-43	43	57.5	61	14	31.2
WM785-45	45	58.7	63	14	31.2
WM785-48	48	61.9	66	14	31.2

Model	d1(mm)	d3	d7	l3	l1
WM785-50	50	65	70	15	32.7
WM785-53	53	68.2	73	15	32.7
WM785-55	55	70	75	15	32.7
WM785-58	58	71.7	78	15	37.7
WM785-60	60	74.6	80	15	37.7
WM785-63	63	79	83	15	37.7
WM785-65	65	84.1	85	15	37.7
WM785-68	68	87.3	90	18	34.7
WM785-70	70	87.3	92	18	42.2
WM785-75	75	95	97	18	42.2
WM785-80	80	98.4	105	18.2	42
WM785-85	85	104.7	110	18.2	42
WM785-90	90	111	115	18.2	47
WM785-95	95	114	120	17.2	48
WM785-100	100	117.4	125	17.2	48





WM 780

OPERATING CONDITIONS

PRESSURE: $\leq 2.0\text{MPa}$

SPEED: $\leq 23\text{M/S}$

TEMPERATURE: $-20 \sim +200\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- BELLOWS(AM350/LNCONE17180)
- METAL PARTS(STAINLESS STEEL304,316)

Model	d1(mm)	d3	d7	l3	l1
WM780-16	16	38	35	11.5	46.7
WM780-18	18	40	37	11.5	46.7
WM780-20	20	42	40	11.5	46.7
WM780-22	22	44	43	11.5	46.7
WM780-24	24	46	43	11.5	46.7
WM780-25	25	47	45	11.5	46.7
WM780-28	28	50	48	11.5	46.7
WM780-30	30	52	50	11.5	46.7
WM780-32	32	54	56	14	46.7
WM780-33	33	55	56	14	46.7
WM780-35	35	57	58	14	46.7
WM780-38	38	60	61	14	46.7
WM780-40	40	66	63	14	47.7
WM780-43	43	69	66	14	47.7
WM780-45	45	71	70	15	47.7
WM780-48	48	74	73	15	47.7

Model	d1(mm)	d3	d7	l3	l1
WM780-50	50	76	75	15	47.7
WM780-53	53	79	78	15	47.7
WM780-55	55	81	80	15	47.7
WM780-58	58	85	83	15	53.2
WM780-60	60	87	85	15	53.2
WM780-63	63	90	90	18	53.2
WM780-65	65	92	92	18	53.2
WM780-68	68	95	97	18	53.2
WM780-70	70	97	97	18	53.2
WM780-75	75	102	105	18.2	53
WM780-80	80	107	110	18.2	53
WM780-85	85	112	115	18.2	53
WM780-90	90	117	120	17.2	54
WM780-95	95	122	125	17.2	54
WM780-100	100	127	134.3	20	54.2



WM GLF-1



WM GLF-2

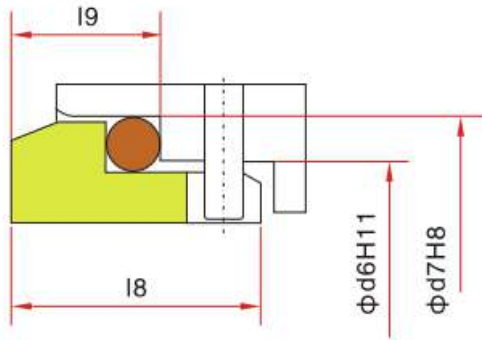


WM GLF-3

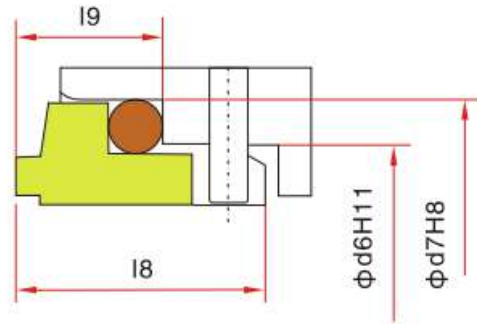


WM GLF-5

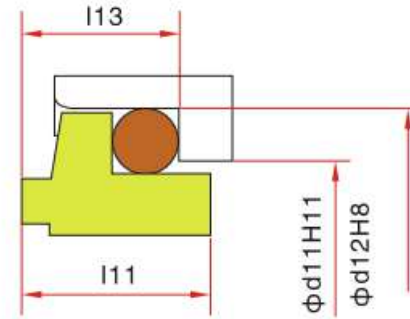
STATIONARY SEATS



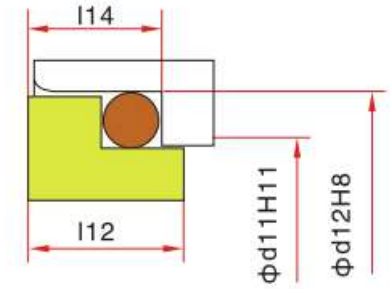
G9/DIN24960



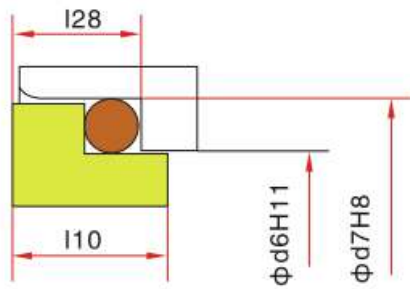
G9/DIN24960(Carbon)



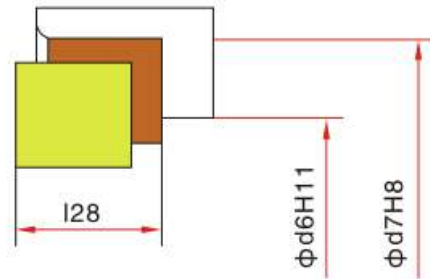
G13/DIN24250



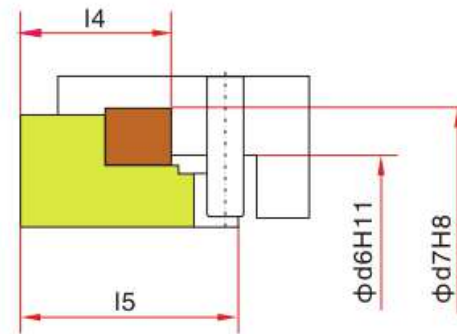
G4/DIN24250



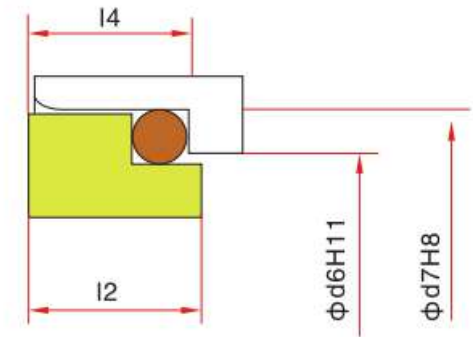
G6/DIN24960



G60/DIN24960

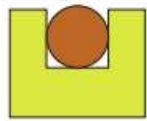


BP/DIN24960

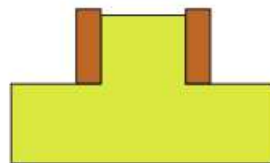


BO/DIN24960

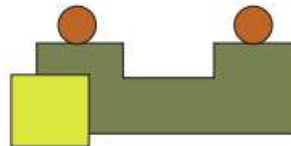
Besides the stationary seats Listed above, Our company also provide following stationary seats or manufacture as per clients' drawing or sample



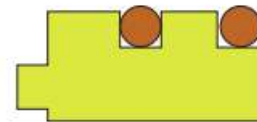
TYPE4



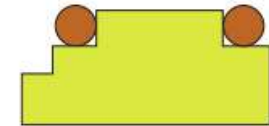
V



G15



B

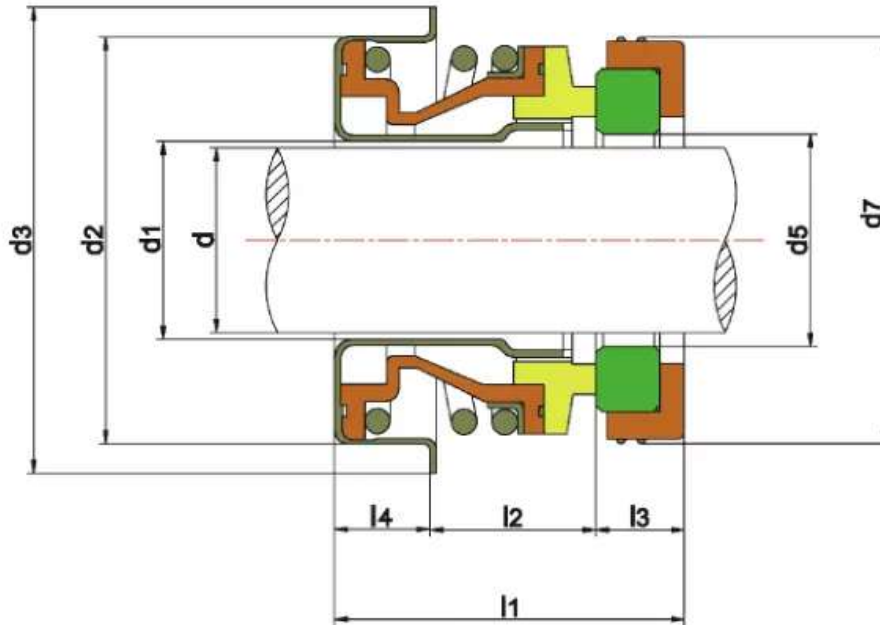


C

STATIONARY SEATS DIMENSIONAL DATA (MM)

Shaft	d6	d7	d11	d12	l2	l4	l5	l8	l9	l10	l11	l12	l13	l14	l28
10	17	21	15.5	19.2				17.5	10	7.5	9	7.5	7.1	6.6	6.6
12	19	23	17.5	21.6				17.5	10	7.5	10	6.5	7.6	5.6	6.6
14	21	25	20.5	24.6	12.8	12	18.5	17.5	10	7.5	10	6.5	7.6	5.6	6.6
15			20.5	24.6							11	7.5	8.6	6.6	
16	23	27	22	28	12.8	12	18.5	17.5	10	7.5	11.5	8.5	9	7.5	6.6
18	27	33	24	30	14.5	13.5	20.5	19.5	11.5	8.5	12.5	9.0	10	8	7.5
20	29	35	29.5	35	14.5	13.5	20.5	19.5	11.5	8.5	12.5	8.5	9.5	7.5	7.5
22	31	37	29.5	35	14.5	13.5	20.5	19.5	11.5	8.5	12.5	8.5	9.5	7.5	7.5
24	33	39	32	38	14.3	13.3	20.3	19.5	11.5	8.5	12.5	8.5	9.5	7.5	7.5
25	34	40	32	38	14	13	20	19.5	11.5	8.5	12.5	8.5	9.5	7.5	7.5
26			34	40							13	9	10	8	
28	37	43	36	42	13.5	12.5	19.5	19.5	11.5	8.5	14	10	11	9	7.5
30	39	45	39.2	45	13	12	19	19.5	11.5	8.5	14	11.5	11	10.5	7.5
32	42	48	42.2	48	13	12	19	19.5	11.5	8.5	14	11.5	11	10.5	7.5
33	42	48	44.2	50	13	12	19	19.5	11.5	8.5		12		10.5	7.5
35	44	50	46.2	52	13	12	19	19.5	11.5	8.5	14.5	12	11.5	11	7.5
38	49	56	49.2	55	14	13	20	22	14	10	14.5	11.3	11.5	10.3	9
40	51	58	52.2	58	14	13	20	22	14	10	14.5	11.8	11.5	10.8	9
42			53.3	62							17	13.2	14.3	12	
43	54	61	53.3	62	14	13	20	22	14	10	17	13.2	14.3	12	9
45	56	63	55.3	64	14	13	20	22	14	10	17	12.8	14.3	11.6	9
48	59	66	59.7	68.4	14	13	20	22	14	10	17	12.8	14.3	11.6	9
50	62	70	60.8	69.3	14.5	13.5	20.5	23	15	10.5	17	12.8	14.3	11.6	9.5
53	65	73	63.8	72.3	14.5	13.5	20.5	23	15	12	18	13.5	15.3	12.3	11
55	67	75	66.5	75.4	14.5	13.5	20.5	23	15	12	18	14.5	15.3	13.3	11
58	70	78	69.5	78.4	14.2	13.5	20.5	23	15	12	18	14.5	15.3	13.3	11
60	72	80	71.5	80.4	14.2	13.5	20.5	23	15	12	18	14.5	15.3	13.3	11
63	75	83	74.5	83.4	14.2	13.5	20.5	23	15	12		14.2		13.3	11
65	77	85	76.5	85.4	14.2	13.5	20.5	23	15	12	18	14.2	15.3	13	11
68	81	90	82.7	91.5	14.2	13.5	20.5	26	18	12.5	19	14.9	16	13.7	11.3
70	83	92	83	92	15.2	14.5	21.5	26	18	12.5	18	14.2	15.3	13	11.3
75	88	97	90.2	99	15.2	14.5	21.5	26	18	12.5	18	15.2	15.3	14.8	11.3
80	95	105	95.2	104	15.7	15	22	26.2	18.2	13	19	16.2	16.3	14.8	12
85	100	110	100.2	109	15.7	15	22	26.2	18.2	15		16		14.8	14
90	105	115	105.2	114	15.7	15	22	26.2	18.2	15		16		14.8	14
95	110	120	111.6	120.3	15.7	15	22	26.2	17.2	15		17		15.8	14
100	115	125	114.5	123.3	15.7	15	22	26.2	17.2	15		17		15.8	14





WM F

OPERATING CONDITIONS

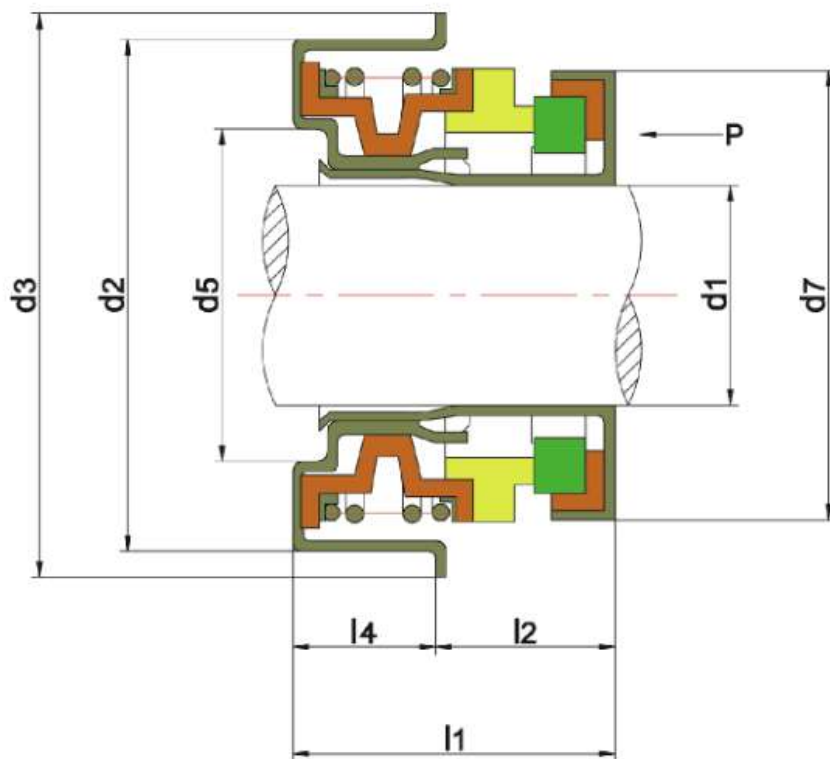
- PRESSURE: $\leq 0.3\text{MPa}$
 ROTARY SPEED: $\leq 5000\text{R/MIN}$
 TEMPERATURE: $-30 \sim +150\text{ }^{\circ}\text{C}$
 MEDIUM: CLEAN WATER, SEAWATER, GAS
 ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SECONDARY SEAL(NBR/EPDM/HNBR/ VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d (Inch)	d1	d2	d3	d5	d7	l1	l2	l3	l4
WMF-1/2*	12.700	14.2	30	35	13.5	25.4	19.2	5	6.2	8
WMF-5/8*	15.875	18.2	36.5	41.5	17.5	31.75	25	6.7	10.3	8
WMF-3/4*	19.050	21.2	40	43.8	20	34.925	25.8	5.5	10.3	10
WMF-1*	25.400	26.4	47	51	27	41.275	29	5.9	11.1	12
Model	d (mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4
WMF-10	10	11	24	29	12	23	17	6	4	7
WMF-12S	12	14.2	28.57	32	14	25	18.2	5.2	5	8
WMF-12M	12	14.2	30	35	15	24/23	18	5	5	8
WMF-12L	12	14.2	33.3	38	14	25	18	6.3	5	6.7
WMF-16	16	18.2	36.5	41.5	18	31	19.8	6.8	5	8
WMF-16L	16	18.2	38.1	43.5	18	31	19.8	6	5	8.8
WMF-16LD	16	18.2	38.1	43.5	18	31	19.8	6	5	8.8
WMF-20S	20	21.2	38	43.8	21	35	20.5	5.5	5	10
WMF-20	20	21.2	40	43.8	21	35	20.5	5.5	5	10
WMF-25S	25	26.4	46	51	26	44	25	8	7	10
WMF-25	25	26.4	47	51	26	44	25	6	7	12
WMF-25L	25	26.4	52	57	27	48	25	6	7	12
WMF-30	30	31	52	57	32	48	27	8	8	11





WM FB

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 9000\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

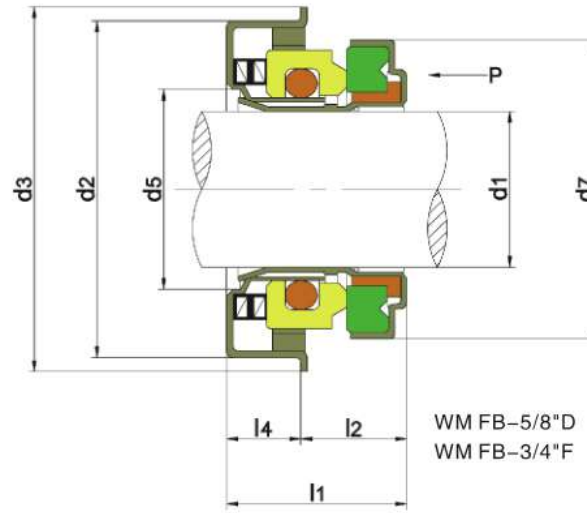
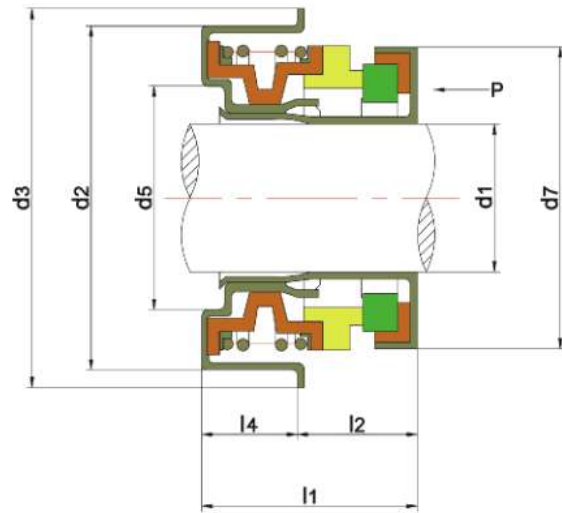
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/
CARBON/ SIC)
- SECONDARY SEAL(NBR/EPDM/HNBR/
VITON/)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1 (mm)	d2	d3	d5	d7	l1	l2	l4
WMFB-12S	12	28.57	32.0	18.5	25/26	18.2	10.2	8
WMFB-12M	12	30.0	35.0	18.5	25/26	18.2	10.2	8
WMFB-12L	12	33.3	38.0	18.5	25/26	18.2	11.5	6.7
WMFB-13	13	30	35.0	18.5	25	18	10	8
WMFB-15	15	36.5	41.5	22.5	30.5	20.5	12	8.5
WMFB-16	16	36.5	41.5	22.5	30.5	20.5	12	8.5
WMFB-16B	16	36.5	41.5	22.5	28	20	12	8.5
WMFB-16T	16	36.5	41.5	19.3	31.5	20.5	11.5	9
WMFB-16L	16	38.1	43.5	22.5	30.5	20.5	11.7	8.8
WMFB-16LD	16	38.1	43.5	22.5	28.5	20.5	11.7	8.8
WMFB-20	20	38/40	43.8	26.5	37	22	12.5	9.5
WMFB-20T	20	40.0	43.8	28	37	22	12.5	9.5





WM FB INCH

OPERATING CONDITIONS

- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 9000\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SECONDARY SEAL(NBR/EPDM/HNBR/ VITON/)
- SPRING & OTHER PARTS(SUS304/SUS316/ RED COOPER)

Model	d1 (mm)	d2	d3	d5	d7	l1	l2	l4
WMFB-16 E	16	36.5	41.5	22.5	28	20.5	12	8.5
Model	d1(Inch)	d2	d3	d5	d7	l1	l2	l4
WMFB-1/2"S	12.7	28.57	32	18.5	25	17.5	9.5	8
WMFB-1/2"M	12.7	30	35	18.5	25	17.5	9.5	8
WMFB-5/8"	15.875	36.5	41.5	22.5	30.5	20.5	12	8.5
WMFB-3/4"	19	40	43.8	26.5	37	22	12.5	9.5
WMFB-5/8"A	15.875	36.5	41.5	22	29	20	11.5	8.5
WMFB-5/8"B	15.875	36.5	41.8	22	28	21	12.5	8.5
WMFB-5/8"D	15.875	36.5	41	20.8	32	20	11	9
WMFB-3/4"B	19.05	40	43.8	23	35.8	22	12.8	9.2
WMFB-3/4"C	19.05	40	43.8	23	34	22	12.8	9.2
WMFB-3/4"D	19.05	40	44	22	36.5	19.5	10.9	8.6
WMFB-3/4"F	19.05	40	43.8	24.2	36	20	11.1	8.9
WMFB-1"A	25.4	50.8	55.6	30.2	42.3	28	15.2	12.8



WM FBWE

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 7000\text{R/MIN}$

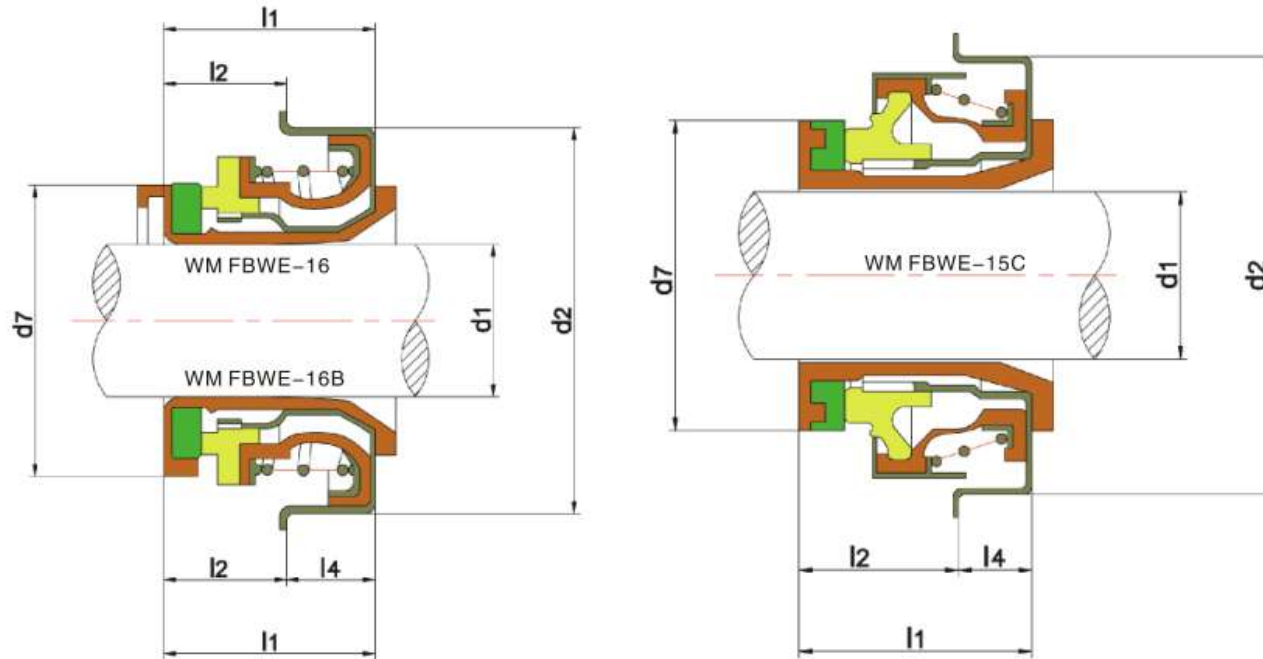
TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

ENGINE ANTIFREEZE

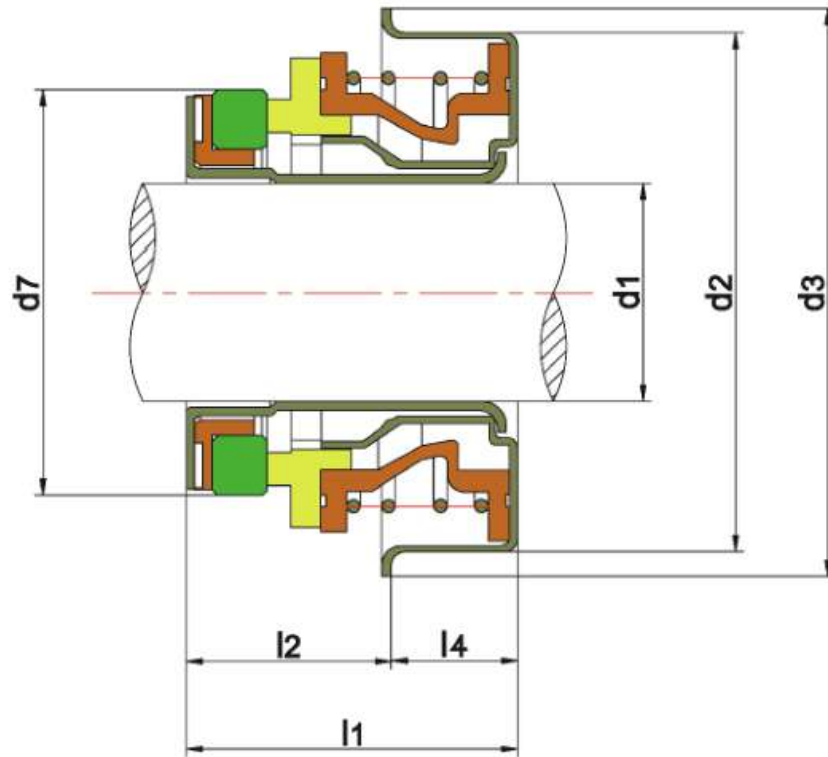
MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (SUS304/SUS316)
- AXIAL PIPE(NBR/HNBR/VITON/)
- SECONDARY SEAL(BRASS/SUS304)
- BELLOWS (NBR/HNBR/VITON/)
- SPRING HOLDER(BRASS/SUS304)
- DRIVE RING (BRASS/SUS304)



Model	d1 (mm)	d2	d7	l1	l2	l4
WMFBWE-16	16	36.5	28.65	19.5	12	7.5
WMFBWE-16B	16	36.5	31.5	19.5	11.5	8
WMFBWE-15C	15	36.5	28.5	18.5	11.5	7
WMFBWE-16D	16	36.5	27	19.9	12.4	7.5





WM FBM

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 9000\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

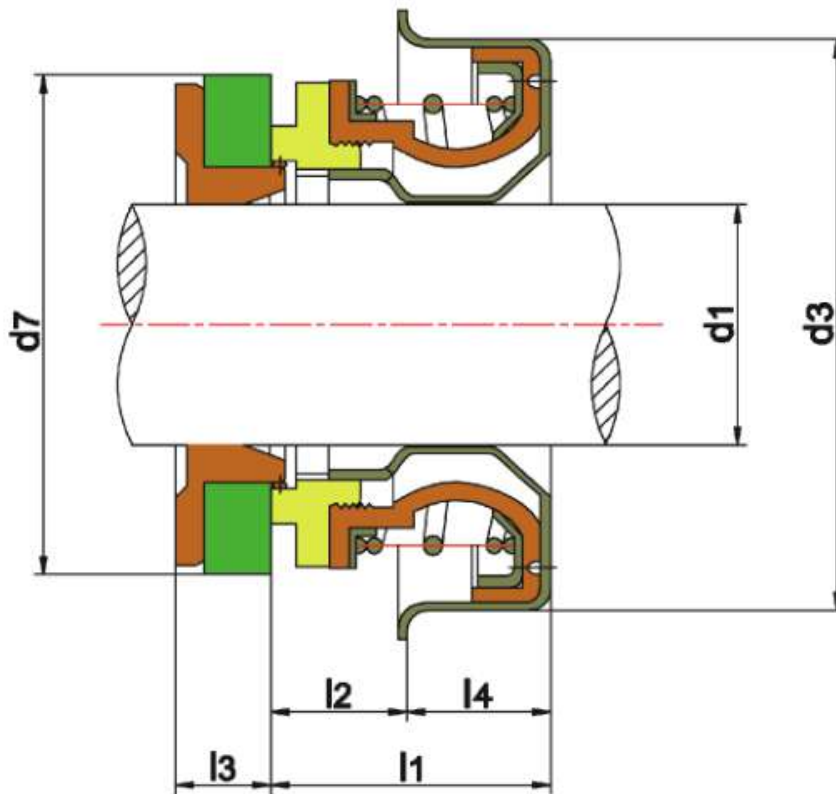
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- AXIAL PIPE(SUS304/SUS316)
- SECONDARY SEAL(SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON/)
- CUP GASET(NBR/EPDM/VITON)

Model	d1 (mm)	d2	d3	d7	l1	l2	l4
WMFBM-12S	12	28.57	32	24	18.5	10.5	8
WMFBM-12M	12	30	35	24	18.5	10.5	8
WMFBM-12L	12	33.4	38	24	18.5	11.8	6.7
WMFBM-16	16	36.5	41.6	26	20.5	12	8.5
WMFBM-16L	16	38.1	43.5	26	20.5	11.7	8.8
WMFBM-16LX	16	39.3	43.6	26	20	11.3	8.7
WMFBM-20	20	40	43.8	29.5	21.5	12	9.5





WM FW

OPERATING CONDITIONS

- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 5000\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING (CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- SECONDARY SEAL (SUS304/SUS316)
- DRIVE RING (SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON/)
- SPRING RETAINER (SUS304/SUS316)
- CUP GASET (INBR/NBR/EPDM/VITON)

Model	d1 (mm)	d3	d7	l1	l2	l3	l4
WMFW-12	12	30	24	14.5	6.5	5	8
WMFW-15	15	36.5	28.4	15.7	7.7	5	8
WMFW-16	16	36.5	28.4	15.7	7.7	5	8
WMFW-16L	16	38.1	28.4	15.7	7	5	8.7
WMFW-19	19	40	34	17.5	6.5	6	11
WMFW-20	20	40	34	17.5	6.5	6	11



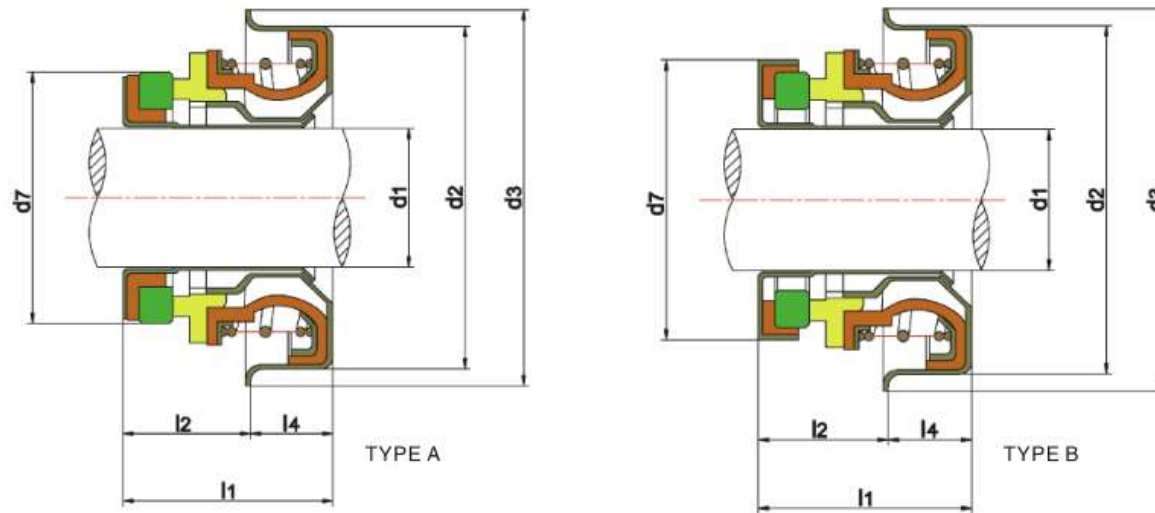
WM FBW

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$
 ROTARY SPEED: $\leq 9000\text{R/MIN}$
 TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
 MEDIUM: CLEAN WATER, SEAWATER, GAS
 ENGINE ANTIFREEZE

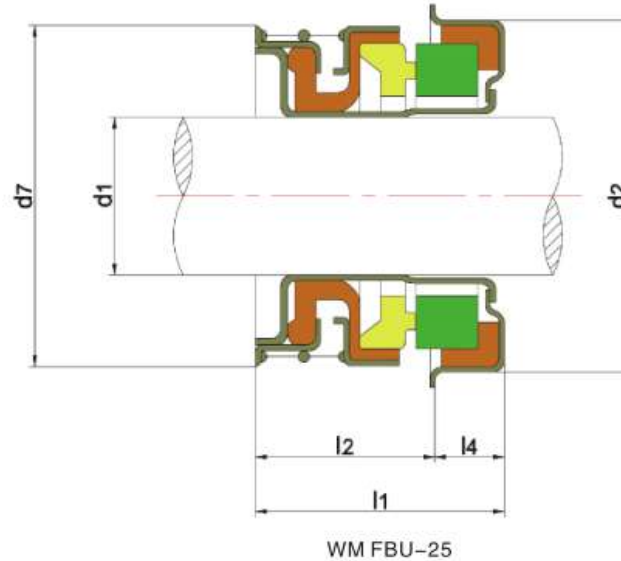
MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/
CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- AXIAL PIPE(SUS304/SUS316)
- SECONDARY SEAL(SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON)



Model	d1(mm)	d2	d3	d7	l2	l4	TYPE
WMFBW-10	10	30	35	23.5	13	8	B
WMFBW-12C	12	30	35	28.5	14.7	7	B
WMFBW-12M	12	30	35	24	20	8	A
WMFBW-15	15	36.5	41	29	19.9	8	A
WMFBW-15A	15	36.5	41	32.5	19.3	8	B
WMFBW-16	16	36.5	41	29	19.9	8	A
WMFBW-16B	16	36.5	41	32.5	19.4	8.2	B
WMFBW-16C	16	36.5	41	30.5	20.1	8.7	B
WMFBW-16L	16	38.1	43.6	29	19.8	8.5	A
WMFBW-20	20	40	43.8	34	20	9.5	A
Model	d1 (Inch)	d2	d3	d7	l2	l4	TYPE
WMFBW-1/2"A	12.7	30	35	28.5	14.7	7	B
WMFBW-1/2"C	12.7	30	35	24.8	17.5	9.5	B





WM FBU

OPERATING CONDITIONS

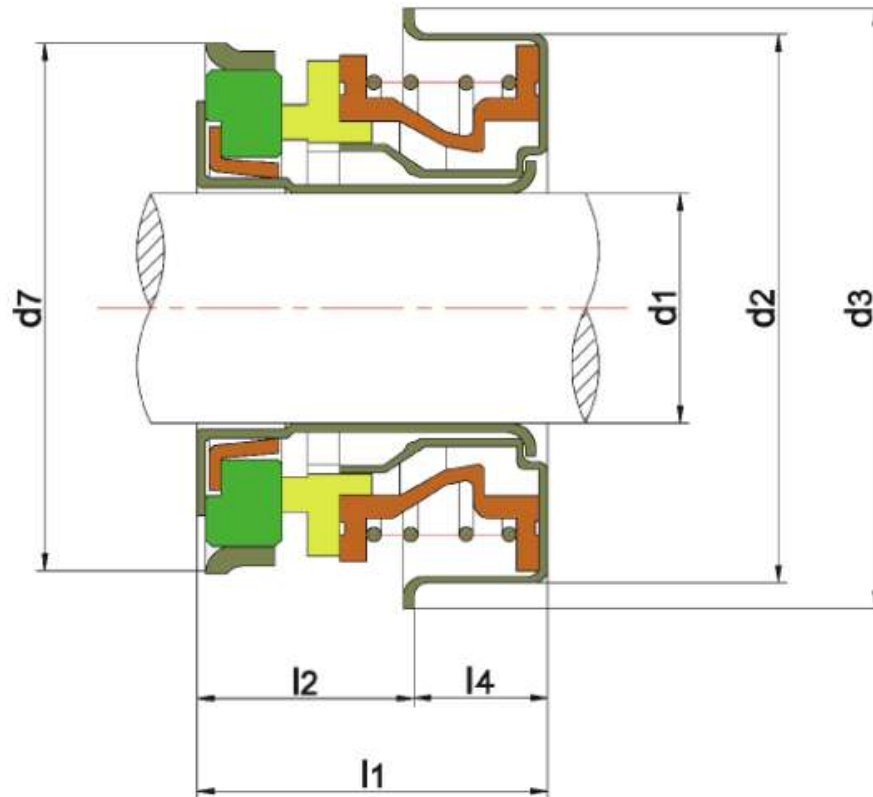
- PRESSURE: ≤ 0.3 MPA
- ROTARY SPEED: ≤ 7000 R/MIN
- TEMPERATURE: $-30^{\circ}\text{C} \sim +150^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS
- ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING (CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- AXIAL PIPE (SUS304/SUS316)
- STATIONARY SEAT (SUS304/SUS316)
- DRIVE RING (BRASS/SUS304)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- SPRING HOLDER (SUS304/SUS316)
- CUP GASKET (NBR/EPDM/HNBR/VITON)

Model	d1 (mm)	d2	d7	l1	l2	l4
WMFBU-15	15	36.5	32.5	20.8	11.3	9.5
WMFBU-16S	16	36.5	28/28.5	21	11.5	9.5
WMFBU-16L	16	36.5	32.5	20.8	11.3	9.5
WMFBU-25	25	41.3	40.8	30	21.2	8.8





WM FBS

OPERATING CONDITIONS

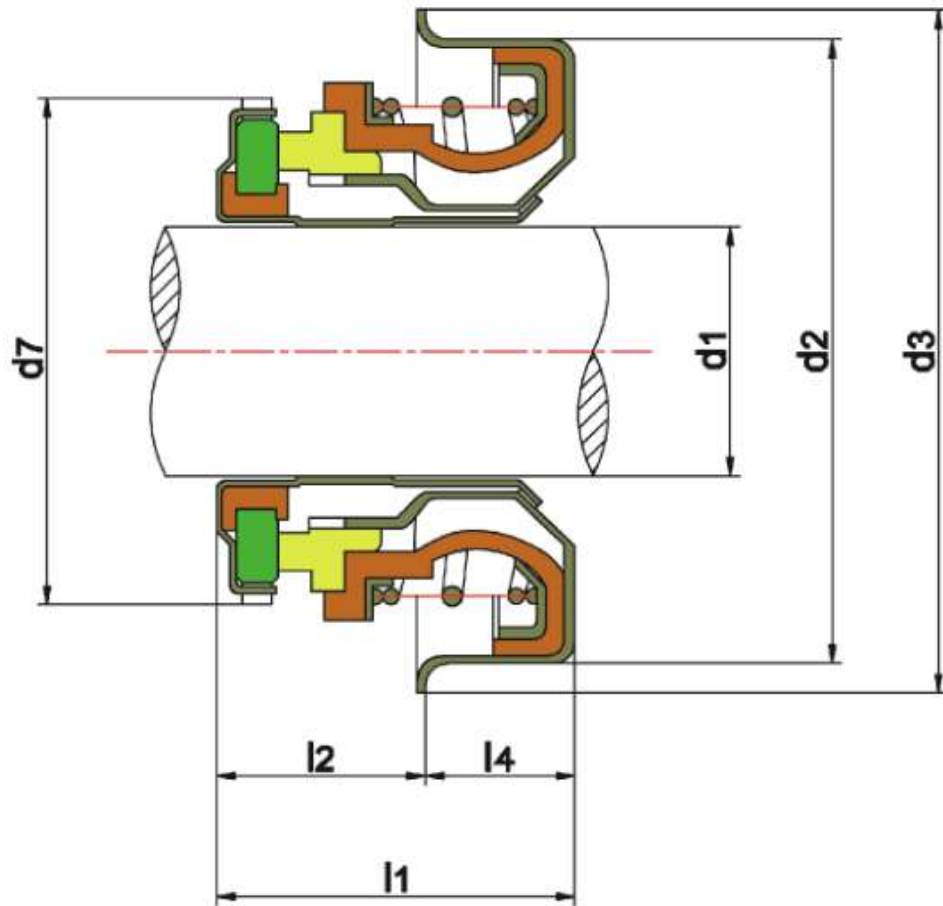
- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 6800\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- AXIAL PIPE(SUS304/SUS316)
- STATIONARY SEAT(SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON/)
- OUTSIDE CUP GASKET (SUS304/SUS316)
- INSIDE CUP GASKET (NBR/EPDM/HNBR/ VITON)

Model	d1 (mm)	d2	d3	d7	l1	l2	l4
WMFBS-16S	16	34.2	38.8	30.6	18	12.4	5.6
WMFBS-16M	16	36.5	41.6	30.6	20.5	12	8.5
WMFBS-16L	16	38.1	43.5	30.6	20.5	11.8	8.7
Model	d1(Inch)	d2	d3	d7	l1	l2	l4
WMFBS-1/2"L	12.7	33.3	38.1	27.5	18	9.3	8.7





WM FBMT

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 9000\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

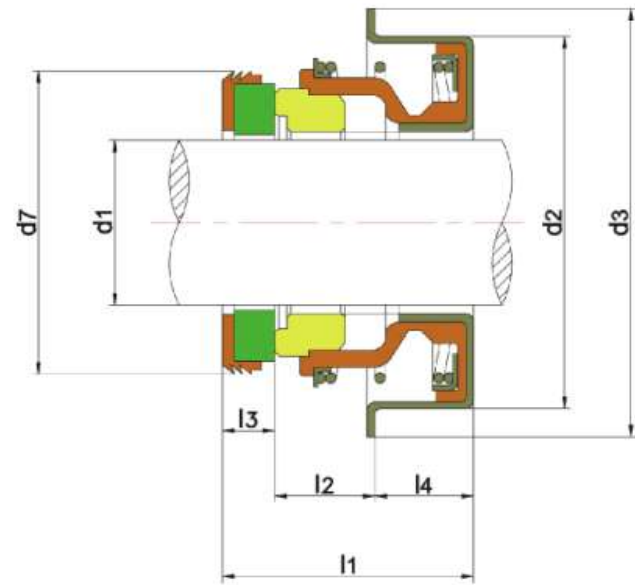
ENGINE ANTIFREEZE

MATERIALS COMBINATION

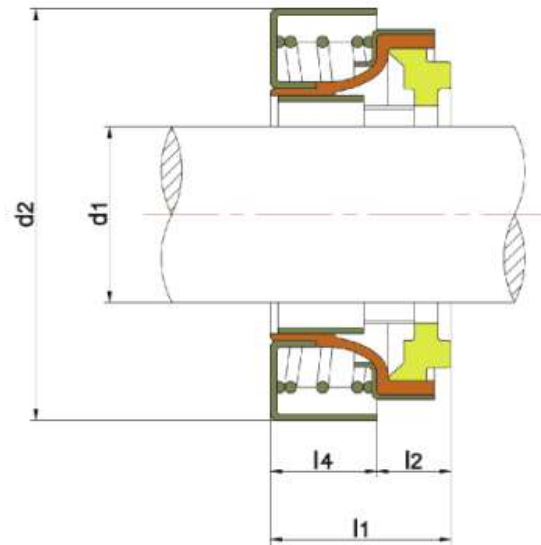
- ROTARY RING (CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (SUS304/SUS316)
- STATIONARY SEAT (SUS304/SUS316/RED COOPER)
- DRIVE RING A (SUS304/SUS316)
- DRIVE RING B (SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- CUP GASET (NBR/EPDM/HNBR/VITON)
- AXIAL PIPE (SUS304/SUS316)

Model	d1(mm)	d2	d3	d7	l1	l2	l4
WMFBMT-12	12	30	35	26.5	17.6	9.6	8
WMFBMT-12A	12	30	34	26.5	16.9	9.3	7.6
WMFBMT-15	15	36.5	40	31.2	18.5	10.5	8
WMFBMT-15A	15	36.5	42	31.2	18	10	8
Model	d1(Inch)	d2	d3	d7	l1	l2	l4
WMFBMT-5/8"	15.875	36.5	40	31.2	18.5	10.5	8
WMFBMT-5/8"A	15.875	36.5	42	31.2	18	10	8





WM FG-16/20



WM FG-25/25L/30

WM FG

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 4800\text{R/MIN}$

TEMPERATURE: $-30 \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

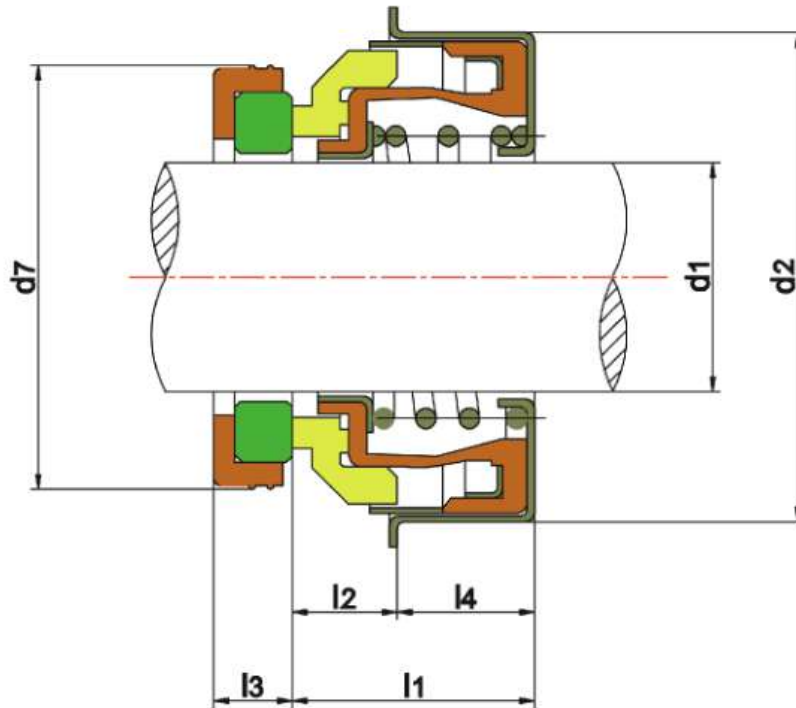
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (SUS304/SUS316)
- STATIONARY SEAT(SUS304/SUS316/RED COOPER)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- CUP GASET(NBR/EPDM/HNBR/VITON)

Model	d1 (mm)	d2	d3	d7	l1	l2	l3	l4
WMFG-15	15	36.5	40	28.4	20	6.5	5	8.5
WMFG-16	16	36.5	42	29.5	22.8	7.8	5	10
WMFG-16A	16	36.5	40	29.5	22.5	9	5	8.5
WMFG-20	20	40	44	35	20.5	6.9	5	8.6
WMFG-25	25	47	\	\	20.3	5.3	\	15
WMFG-25L	25	52	\	\	22.8	10.8	\	12
WMFG-30	30	52	\	\	22	6	\	16





WM FH

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 4000\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

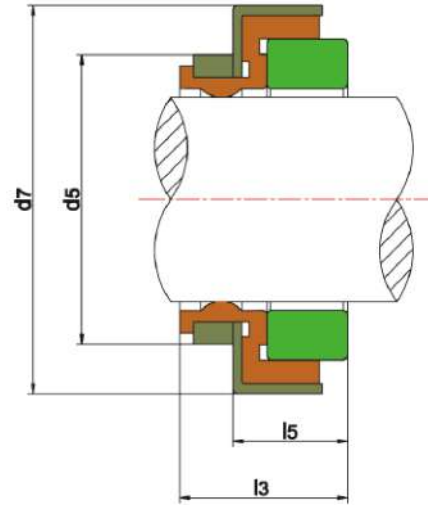
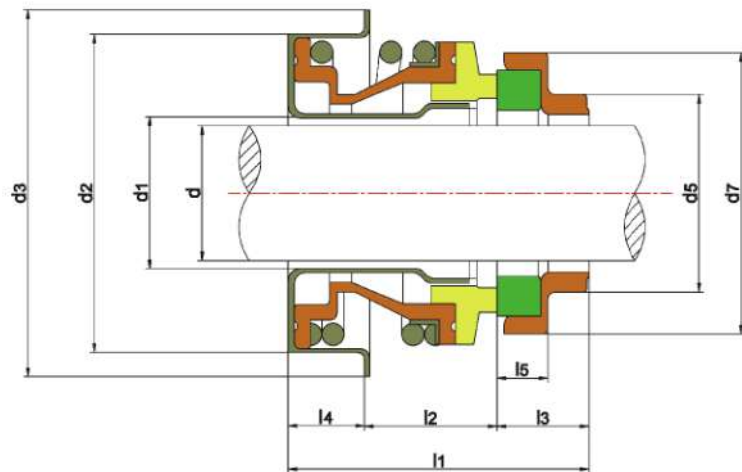
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (65MN/SUS304/SUS316)
- SPRING HOLDER (BRASS)
- RETAINER (BRASS)
- DRIVE RING (BRASS)
- BELLOWS (NBR/EPDM/HNBR/VITON/)
- STATIONARY SEAT(SUS304/SUS316/RED COOPER)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- CUP GASET(NBR/EPDM/HNBR/VITON/)

Model	d1 (mm)	d2	d7	l1	l3	l2	l4
WMFH-20A	20	40	33/33.5	17.5	6.5/5.5	6.5	11
WMFH-20B	20	40	33/33.5	17.5	6.5/5.5	6.5	11





WM FK-30/40

WM FK

OPERATING CONDITIONS

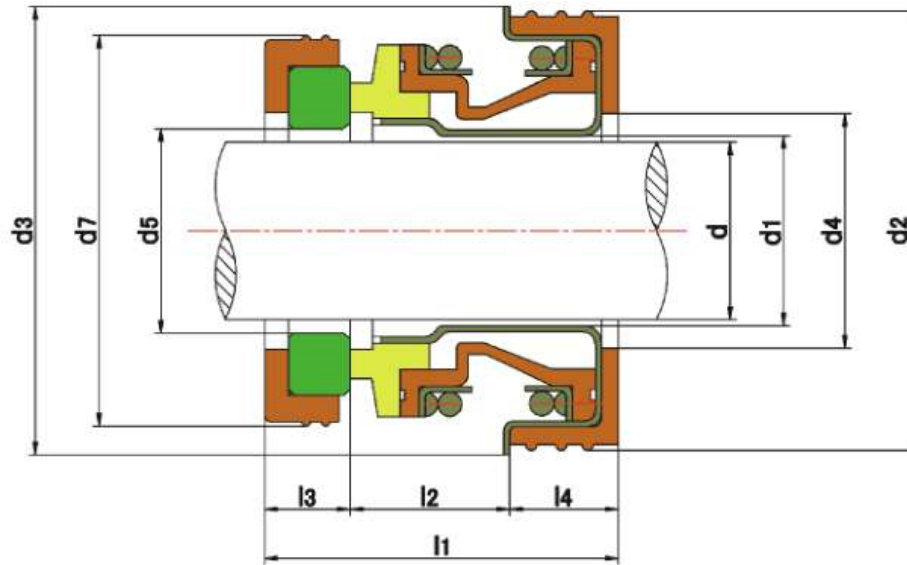
- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 4500\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS
- ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING (SUS304/SUS316)
- STATIONARY SEAT(SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- ROTARY RING HOLDER(SUS304/SUS316/ Q235-A)

Model	d(mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4	l5
WMFK-16	16	18.2	36.5	41.5	23	33	24.8	6.8	10	8	5
WMFK-16L	16	18.2	38.1	43.5	23	33	24.8	6	10	8.8	5
WMFK-19	19	19.2	32.5	36	23	32	26.5	8.5	10	8	5.5
WMFK-20S	20	21.2	38.1	43.8	32	37	28	8.5	11.5	8	5
WMFK-20L	20	21.2	40	43.8	27	38	26.5	6.5	10	10	5
WMFK-25S	25	26.4	46	51	30.5	47	31.8	8.8	13	10	8.5
WMFK-25	25	26.4	47	51	30.5	47	31.8	6.8	13	12	8.5
WMFK-30	30	31	52	57	42.8	50	35.5	9.5	15	11	9.5
WMFK-40	40	41.2	69	75	50.8	65	45.8	12	21	12.8	13





WM FT/SB

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 5000\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

ENGINE ANTIFREEZE

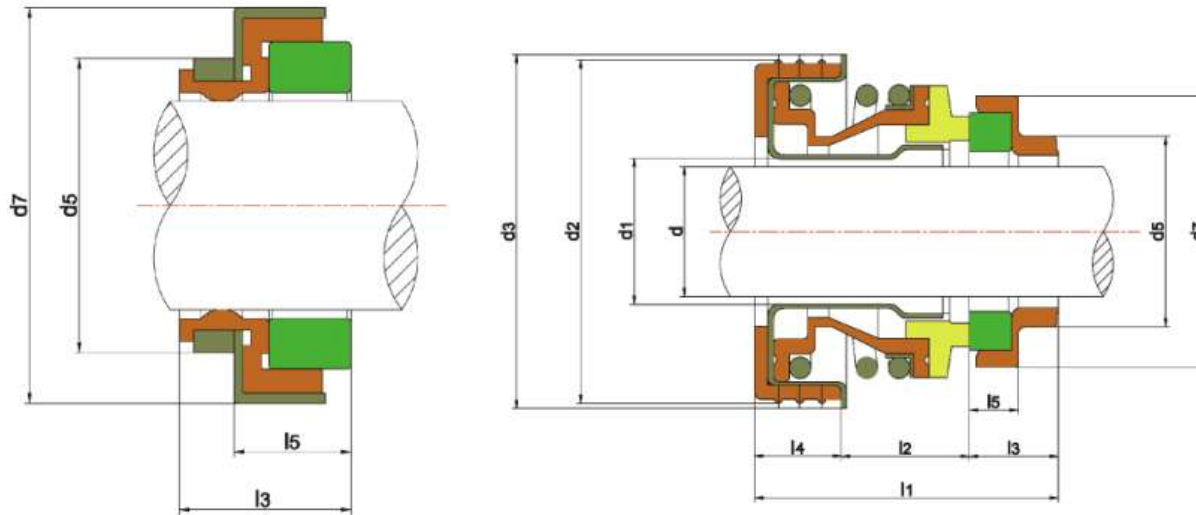
MATERIALS COMBINATION

- ROTARY RING (CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- STATIONARY SEAT ((NBR/EPDM/HNBR/ VITON)
- SPRING & OTHER PARTS (SUS304/SUS316)

Model	d (mm)	d1	d2	d3	d4	d5	d7	l1	l2	l3	l4
WMFT-10	10	11	27	29	15	12	23	18	3.5	4	10.5
WMFT-12	12	14.2	32	32	20	14	25	19.2	5.2	5	9
WMFT-16	16	18.2	41	41.5	22	18	31	21.8	7.8	5	9
WMFT-20	20	21.2	45	43.8	30	21	35	22.5	5.5	5	12
WMFT-25	25	26.4	52	51	35	26	44	27	5.5	7	14.5
WMFT-30	30	31	58	57	40	32	48	29	7.7	8	13.3

Model	d(mm)	d2	d3	d7	l1	l2	l3	l4
WMSB-12S	12	26	32	18	20.8	6	6.8	8
WMSB-12	12	30	35	24	19.5	5.5	4.5	9.5
WMSB-13	13	30	38	25	18.7	5.2	5	8.5
WMSB-15S	15	30	41.3	21.5	22.8	7	6.8	9
WMSB-17S	17	35	41.3	25	27	10.5	7.5	9
WMSB-20	20	40	43.8	36	29.5	12	7	10.5
WMSB-25	25	50	51	42	31.5	10	8	13.5
WMSB-28	28	54	57	45	31.5	9.5	7.5	14.5
WMSB-30	30	54	57	45	32.2	9.5	8.2	14.5





WM FTK

OPERATING CONDITIONS

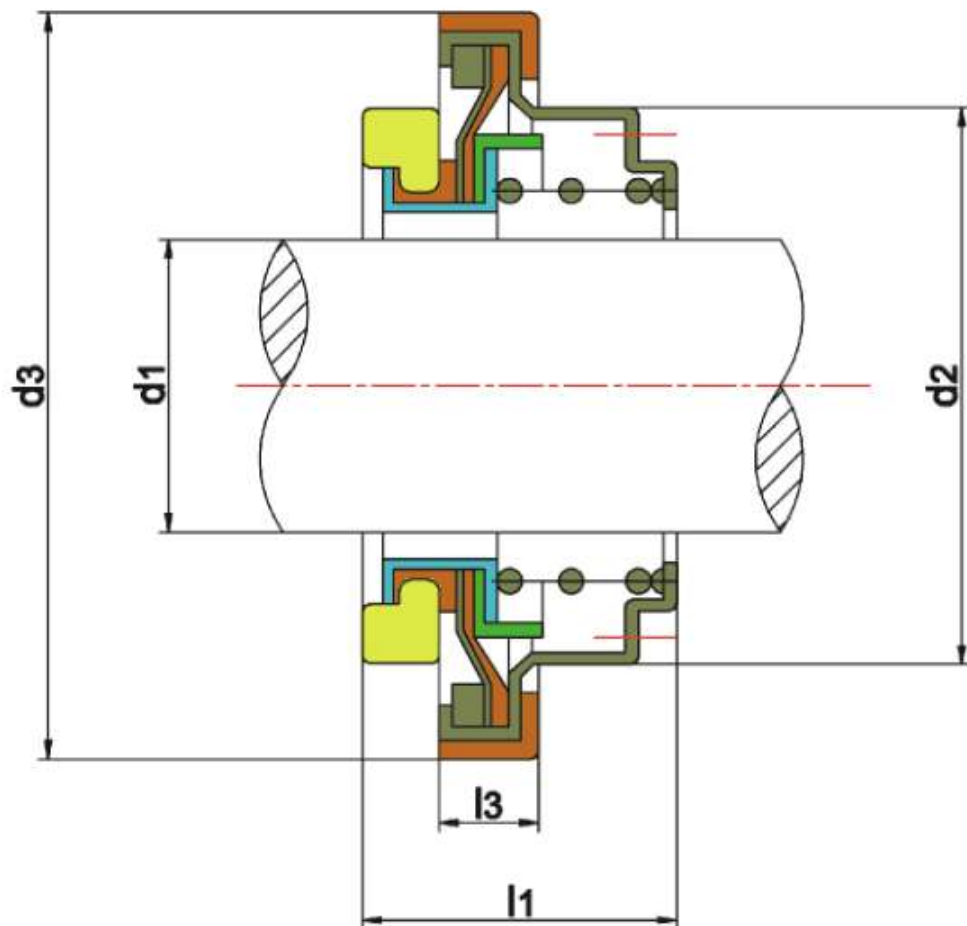
- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 4500\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING(CERAMIC/SIC)
- STATIONARY RING (PLASTIC CARBON/ CARBON/SIC)
- SPRING(SUS304/SUS316)
- STATIONARY SEAT(SUS304/SUS316)
- SECONDARY SEAL(NBR/EPDM/VITON)
- ROTARY RING HOLDER(SUS304/SUS316/ Q235-A)

Model	d (mm)	d1	d2	d3	d5	d7	l1	l2	l3	l4	l5
WMFTK-16	16	18.2	41	41.5	23	33	26.5	7.5	10	9	5
WMFTK-20	20	21.2	45	43.8	27	38	29	7	10	12	5
WMFTK-25	25	26.4	52	51	30.5	47	34.5	7	13	14.5	8.5
WMFTK-40	40	41.2	75	75	50.5	65	48.6	12	21	15.6	13
WMFTK-45	45	46.3	80	80	55.5	73.8	53	16	21	16	13





WM FTS

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 3500\text{R}/\text{MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

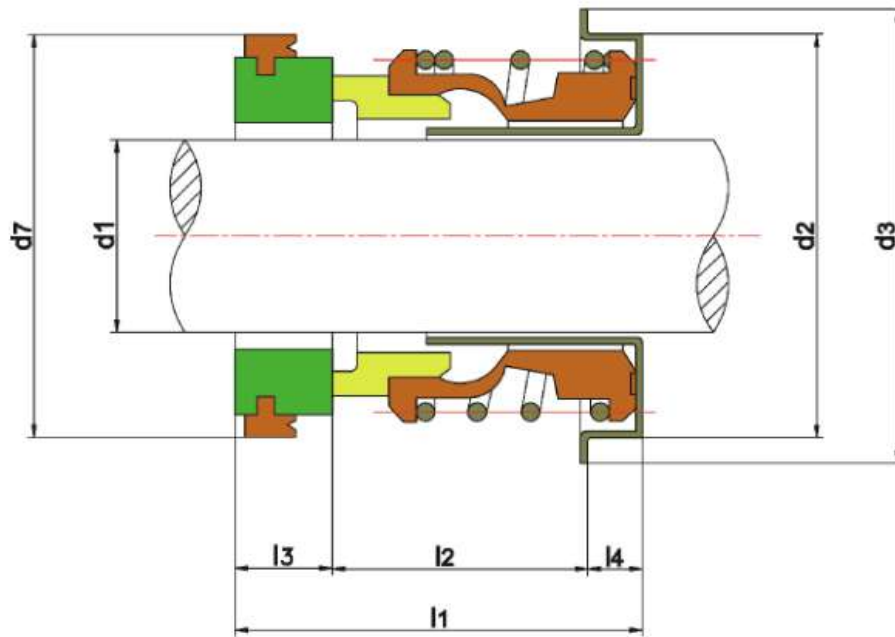
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- STATIONARY RING (PLASTIC CARBON/
CARBON/SIC)
- CUP GASET (NBR/EPDM/HNBR/VITON/)
- STATIONARY SEAT (BRASS/SUS304)
- SECONDARY SEAL (NBR/EPDM/HNBR/
VITON)
- SPRING (SUS304/SUS316)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- HALTED RING (Q235-A)
- ELASTIC GASET (SUS304/SUS316)
- RETAINER (BRASS/SUS304)

Model	d1(mm)	d2	d3	l1	l3
WMFTS-25	25	43.6	58	21	6





WM FL

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$

ROTARY SPEED: $\leq 3500\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

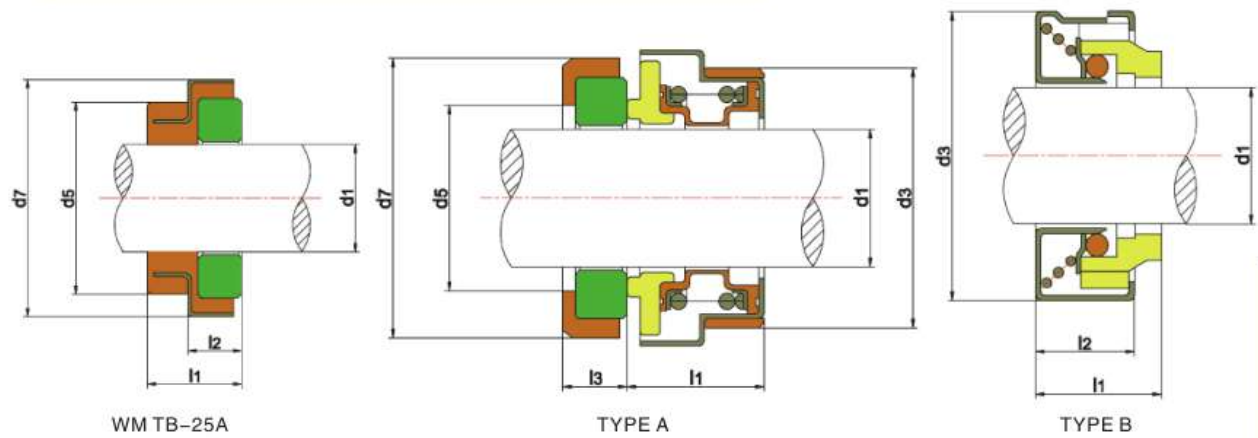
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING (CARBON/SIC)
- STATIONARY RING(PLASTIC CARBON/ CARBON/SIC)
- CUP GASET(NBR/EPDM/HNBR/VITON/)
- STATIONARY SEAT(BRASS/SUS304/SUS316)
- SPRING (65MN/SUS304)
- BELLOWS (NBR/EPDM/HNBR/VITON)

Model	d1(mm)	d2	d3	d7	l1	l2	l3	l4
WMFL-25S	25	47	53	47	44.5	24.5	14	6
WMFL-25L	25	52	58	47	47.5	26.5	14	7





WM TB

OPERATING CONDITIONS

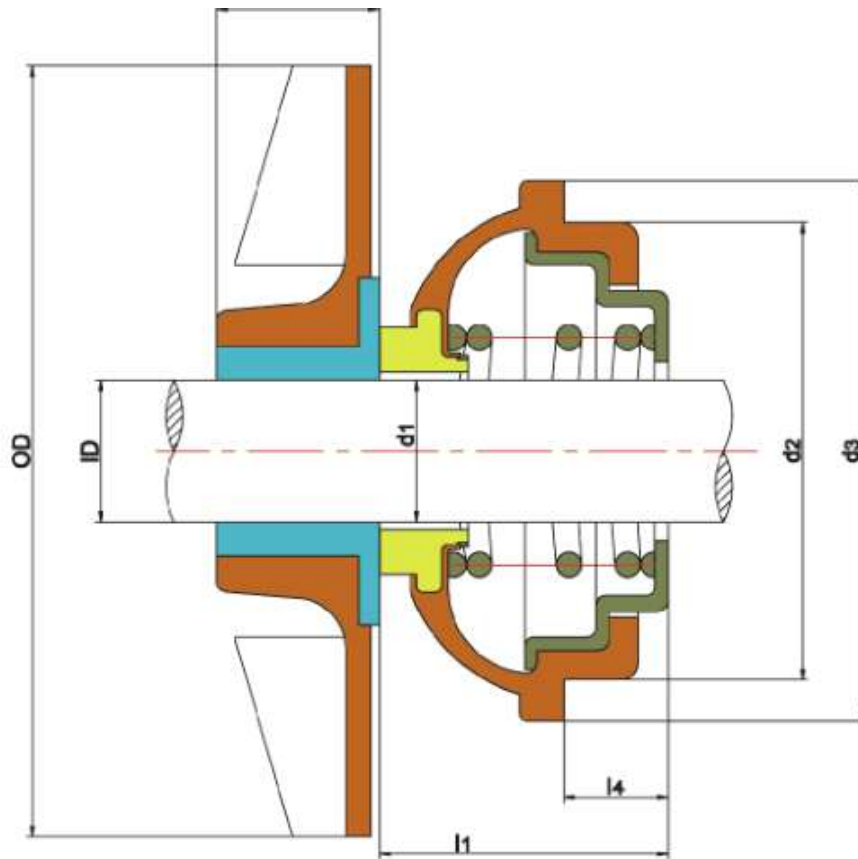
- PRESSURE: $\leq 0.3\text{MPa}$
- ROTARY SPEED: $\leq 4500\text{R/MIN}$
- TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING (CERAMIC/SIC) •
- STATIONARY RING(PLASTIC CARBON/ CARBON/SIC)
- CUP GASET(NBR/EPDM/HNBR/VITON/)
- BELLOWS (NBR/EPDM/HNBR/VITON)
- SPRING HOLDER(BRASS)
- SPRING (SUS304/SUS316)
- RETAINER (BRASS)

Model	d1(mm)	d3	d5	d7	l1	l2	l3	TYPE
WMTB-12	12	40	/	28.575	10.7	10.3	4.45	B
WMTB-25	25	44	32	44	21.5	/	8.5	A
WMTB-25A	25	44	35	41	21.5	5	10	A
WMTB-25H	25	44	32	44	21.5	/	10	A
Model	d1(Inch)	d3	d5	d7	l1	l2	l3	TYPE
WMTB-3/8"	9.525	20.6	/	/	8.5	7.2	/	B
WMTB-3/8"A	9.525	20.6	/	/	6.5	5.9	/	B
WMTB-5/8"	15.875	28.6	/	25.5	9.8	9.6	5.7	B
WMTB-11/16"	17.5	30.1	/	/	9	8.4	/	B
WMTB-1"	25.4	50.8	/	/	10.16	9.65	/	B





WM K

OPERATING CONDITIONS

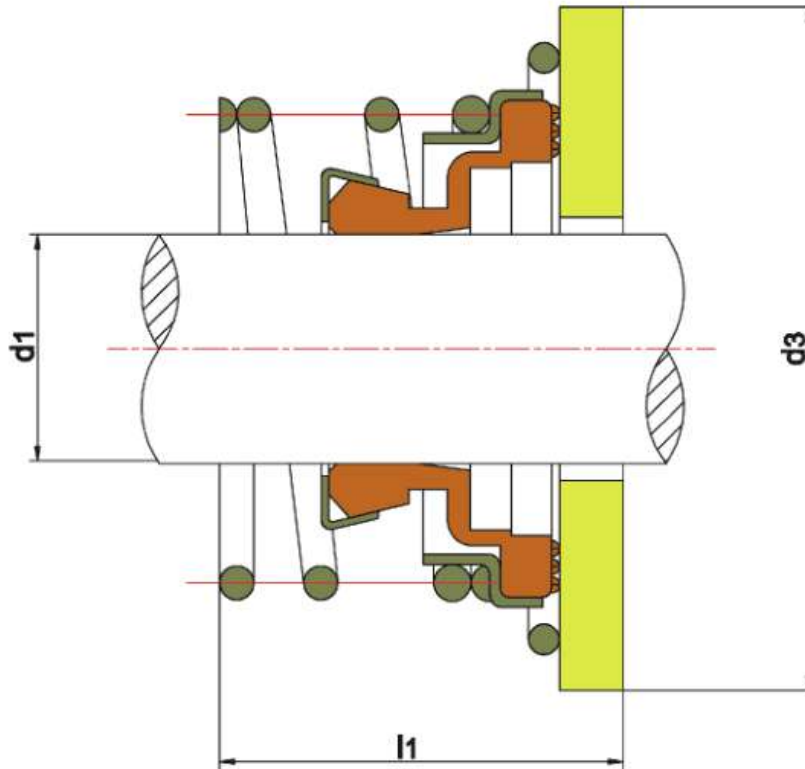
- PRESSURE: ≤ 0.1 MPA
- ROTARY SPEED: ≤ 5000 R/MIN
- TEMPERATURE: $-30^{\circ}\text{C} \sim +150^{\circ}\text{C}$
- MEDIUM: CLEAN WATER, SEAWATER, GAS ENGINE ANTIFREEZE

MATERIALS COMBINATION

- ROTARY RING (FREE-CUTTING LRON) WITH PA66 IMPELLER
- STATIONARY RING(PLASTIC CARBON/ CARBON/SIC)
- SECONDARY SEAL(NBR/EPDM/HNBR/ VITON)
- SPRING(SUS304/SUS316/G5MN)
- OTHER PARTS(SUS304/SUS316/Q235-A)

Model	d1(mm)	d2	d3	l1	l4	Equivalent
WMK-12	12	29	36	14	8	\
WMK-12A(with impeller)	12	30	37	13.5	6	\
WMK-14A	14	34	40.6	15.5	7	\
WMK-14B	14	30	36	16.5	7	K-14D
WMK-14C	14	35	40.6	15.5	7	\
WMK-16A	16	38	43.6	16.5	8	\
WMK-16B	16	37	42.5	16.5	8	K-16E
WMK-16C	16	36	42	16.5	8	K-16F
WMK-19	19	40	49	15.5	8	K-20
WMK-28	28	49	56.5	27.5	9.5	\





WM XP

OPERATING CONDITIONS

PRESSURE: $\leq 0.1\text{MPa}$

ROTARY SPEED: $\leq 4500\text{R/MIN}$

TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MEDIUM: CLEAN WATER, SEAWATER, GAS

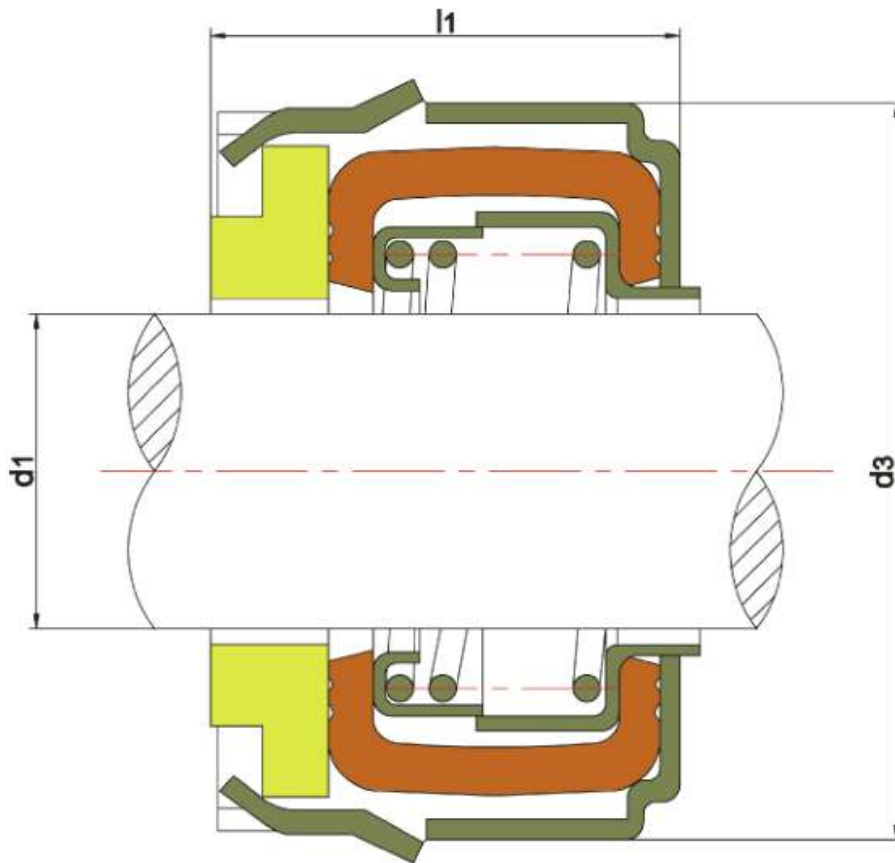
ENGINE ANTIFREEZE

MATERIALS COMBINATION

- STATIONARY RING(PLASTIC CARBON/ CARBON)
- SECONDARY SEAL(NBR/EPDM/HNBR/ VITON)
- SPRING & OTHER PARTS(SUS304/SUS316)

Model	d1(mm)	d3	l1
WMXP-15	15	42.8	27.5
WMXP-17	17	42	22.5
WMXP-19	19	42.5	26.8
WMXP-24	24	50.3	29
WMXP-24A	24	46.9	22





WM T

OPERATING CONDITIONS

PRESSURE: $\leq 0.3\text{MPa}$
 ROTARY SPEED: $\leq 4000\text{R/MIN}$
 TEMPERATURE: $-30\text{ }^{\circ}\text{C} \sim +150\text{ }^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING(PLASTIC CARBON/ CARBON/SIC)
- SECONDARY SEAL(NBR/EPDM/HNBR/ VITON)
- SPRING(SUS304/SUS316/65MN)
- OTHER PARTS(SUS304/SUS316/Q235-A)

Model	d1(mm)	d3	l1
WMT-08	16	36.5	16.5
WMT-08S	16	33.4	14.5
WMT-04	20	43	18
WMT-04H	20	40.8	22.5
WMT-02S	25	51	25.5
WMT-02M	25	52	23
WMT-02L	25	52.5/52.0	27



WM G1/G12/ G13/GS20

OPERATING CONDITIONS

PRESSURE: $\leq 1.2\text{MPa}$

SPEED: $\leq 12\text{M/S}$

TEMPERATURE: $-30^{\circ}\text{C} \sim +200^{\circ}\text{C}$

MATERIALS COMBINATION

- STATIONARY RING (CERAMIC/SIC/TC)
- ROTARY RING (CARBON/SIC/TC)
- SECONDARY SEAL(NBR/EPDM/VITON)
- SPRING AND PUNCHED PARTS(STEEL)

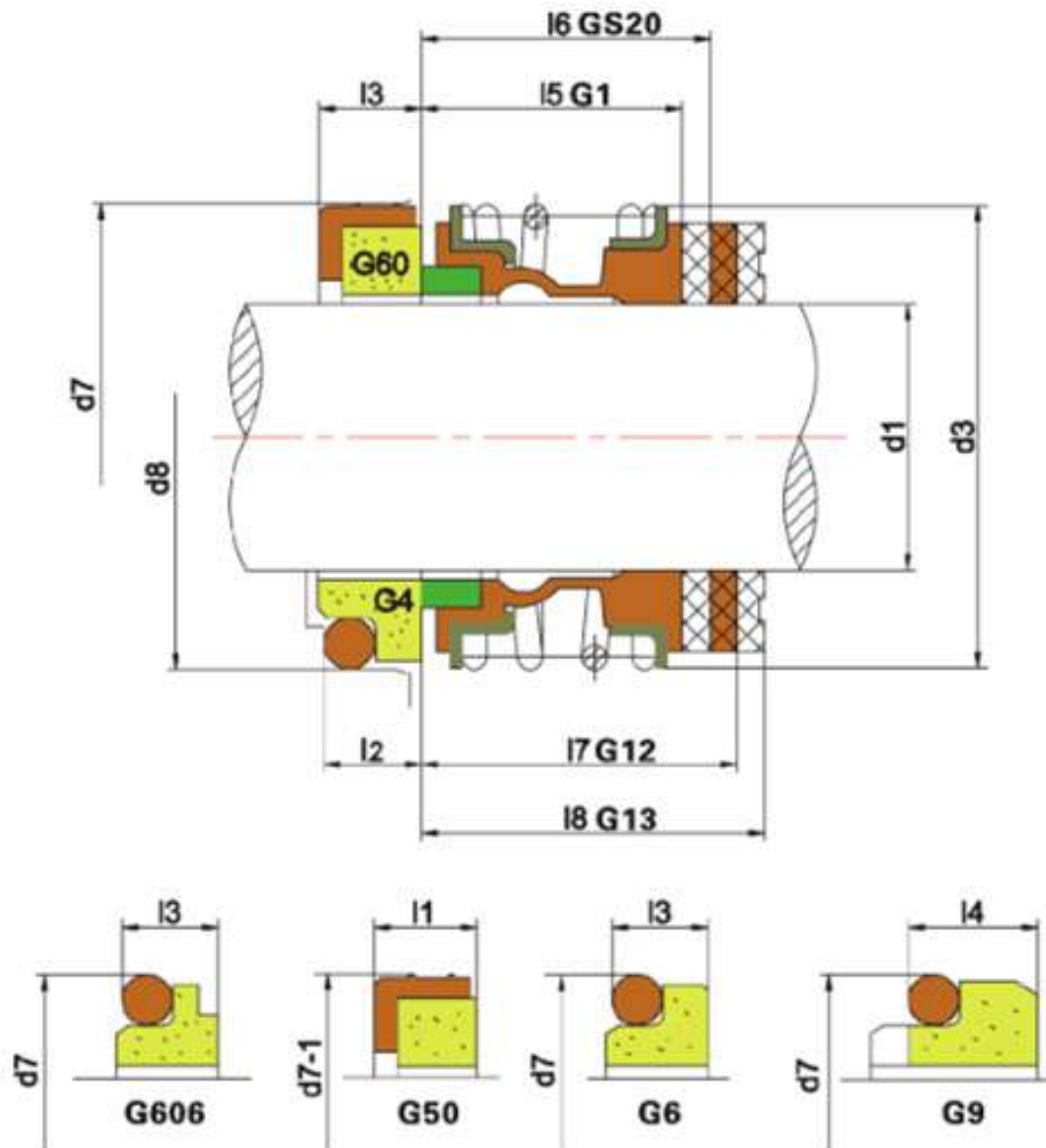
PUMPS ;ALL TYPES OF ROTATING EQUIPMENT,SUCH AS CENTRIFUGAL PUMPS, AGITATORS , FOR MOST GENERAL AND LIGHT CHEMICAL DUTIES.

WHEREVER AN ELASTOMER SECONDARY SEAL CAN BE USED.

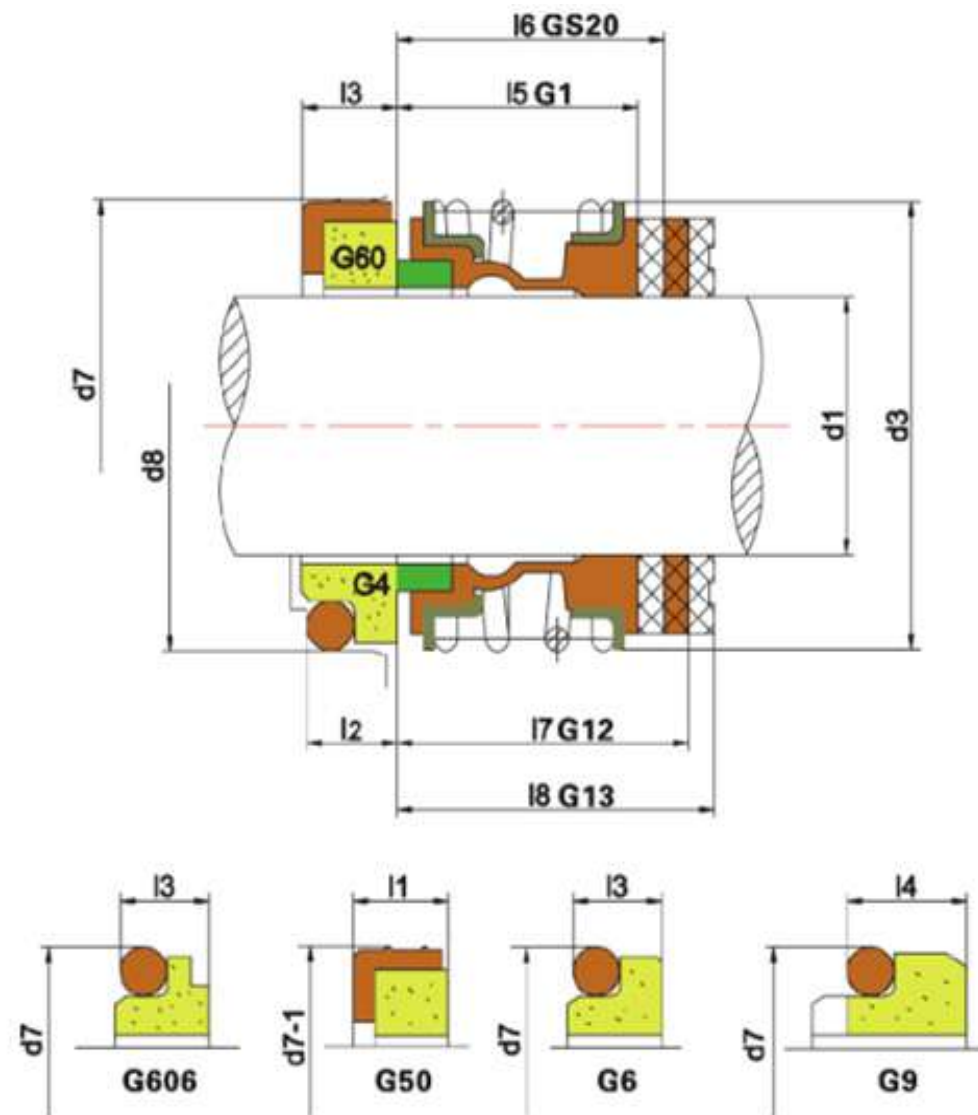
DESIGN FEATURES:

ELASTOMERIC BELLOWS SEAL DESIGN INCLUDING

KINDS OF STATCONARY RING , COMPLYING WITH DIN24960 AND ISO3069, COMBINED WITH G60, G50, G6, G4, G9, G606, ETC.



d1	d3	d7	d8	d7-1	l3	l2	l1	l4	l5	l6	l7	l8
10	22	21	19.2	24.6	6.5	6.5	9	10	14.7	25.5	26	33.5
12	24.5	23	21.6	27.8	6.5	5.5	9	10	15.2	25.5	26	33.5
14	28	25	24.6	30.95	6.5	5.5	10.5	10	17.2	25.5	28.5	33.5
15	28	27	24.6	30.95	6.5	6.5	10.5	10	17.2	25.5	28.5	33.5
16	28	27	28	30.95	6.5	7.5	10.5	10	17.2	25.5	28.5	33.5
18	31.5	33	30	34.15	7.5	8	10.5	11.4	19.7	25.5	30.1	37.7
19	36.5	35	35	34.15	7.5	7.5	10.5	11.4	21.7	25.5	30.1	37.7
20	36.5	35	35	35.7	7.5	7.5	10.5	11.4	21.7	25.5	30.1	37.7
22	36.5	37	35	37.3	7.5	7.5	10.5	11.4	21.7	25.5	30.1	37.7
24	42	39	38	40.5	7.5	7.5	10.5	11.4	22.7	25.5	32.7	42.7
25	42	40	38	40.5	7.5	7.5	10.5	11.4	23.2	25.5	32.7	42.7
28	48.5	43	42	46.65	7.5	9	12	11.4	26.7	33.5	35.2	42.7
30	48.5	45	45	50.8	7.5	10.5	12	11.4	26.7	33.5	35.2	42.7
32	53	48	48	50.8	7.5	10.5	12	11.4	27.7	33.5	35.2	47.7
33	53	48	50	54	7.5	11	12	11.4	27.7	33.5	35.2	47.7
35	56.5	50	52	54	7.5	11	12	11.4	28.7	33.5	35.2	47.7
38	58.5	56	55	57.15	9	10.5	12	14	30.2	33.5	36.2	46.2
40	61.5	58	58	60.35	9	10.8	12	14	30.2	33.5	36.2	46.2
42	65	61	62	63.5	9	12	12	14	30.2	41.5	36.2	46.2
43	65	61	62	63.5	9	12	12	14	30.2	41.5	36.2	51.2
45	67.5	63	64	63.5	9	11.5	12	14	30.2	41.5	36.2	51.2
48	70	66	68.4	66.7	9	11.5	12	14	30.7	41.5	36.2	51.2
50	73.5	70	69.3	69.85	9.5	11.5	13.5	15	30.7	41.5	38.2	50.7
53	78	73	72.3	73.05	11	12.5	13.5	15	33.2	41.5	36.7	59.2
55	80.5	75	75.4	76.2	11	13.5	13.5	15	35.2	41.5	36.7	59.2
58	85	78	78.4	79.4	11	13.5	13.5	15	37.2	41.5	41.7	59.2
60	88	80	80.4	79.4	11	13.5	13.5	15	38.2	41.5	41.7	59.2
65	93	85	85.4	92.1	11	13	16	15	40.2	49.5	41.7	69.2
68	96	90	91.5	95.25	11.5	13.7	16	18	40.2	49.5	41.3	69
70	99	92	92	95.25	11.5	13	16	18	40.2	49.5	49	69
75	106.5	97	99	101.6	11.5	14	16	18	40.2	52.5	49	69
80	111.5	105	104	114.3	12	15	20	18.3	40.2	56.5	48.2	78.2
85	119.5	110	109	117.5	14	15	20	18.3	41.2	56.5	46.2	76.2
90	126.5	115	114	123.85	14	15	20	18.3	15.2	59.5	51.2	76.2
95	131.5	120	120.3	127	14	16	20	17.3	46.2	59.5	51.2	76.2
100	136.5	125	123.3	133.35	14	16	20	17.3	47.2	62.5	51.2	76.2





THANK YOU
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Have A Nice Day

Thanks for being a partner

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