

Uni-Seals Product Catalog
Category: Mechanical Seal



UNI-SEALS

Unimax Seals Company Limited
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Silicone Carbide



Silicone carbide is an ideal sealing material. It has good resistance to corrosion, wear and high temperature, high mechanical strength, good self-lubricity and heat conductivity, low friction factor, and easy combination property. The pressureless sintered silicone carbide can especially suit hard working conditions.

Silicone carbide products include: SiC rings, bushings, bearings etc.

As an excellent high-temperature structural material, the silicone carbide has been widely used in industries of petroleum, chemical, machinery, military, shipping, spaceflight, automobile, etc. It is also widely applied as friction material in the mechanical seals, especially for slush pump.

Specifications:

Material	SP1001 Reaction bonded silicone carbide (RSIC)	SP1002 Pressureless sintered silicone carbide (SSIC)	SP1003 Silicone carbide + carbon (SiC +C)
Purity	SiC >90%	SiC >97%	18~20% carbon
Density	>3.05g/cm ³	3.05~3.15g/cm ³	2.65g/cm ³
Hardness	115~125 (HS)	>92 (HRA)	≥85 (HS)
Grain size	8~20μm	0.5~0.7μm	20~40μm
Elastic modulus	420Gpa	400Gpa	---
Bend strength	350~450Mpa	400~580Mpa	200Mpa
Compressive strength	3000Mpa	3900Mpa	1800Mpa
Fracture toughness	4Mpa	4.5Mpa	---
Thermal conductivity	35~110wm/k	125.6wm/k	125wm/k
Coefficient of thermal expansion	4.3 x 10 ⁻⁶ /°C	4.02 x 10 ⁻⁶ /°C	3 x 10 ⁻⁶ /°C
Heat Resistance (atmosphere)	1300°C	1650°C	800°C
Poisson ratio	0.15	0.14	---

Tungsten Carbide



SP2000 Tungsten carbide

Tungsten carbide (TC) occupies an important position in the sealing materials, due to its high hardness, rigidity, wearability, good thermal conductivity, and small heat expansion co-efficient.

It is widely used as seal faces, especially suitable in heavy load mediums containing solid particles and which are easy crystallizing.

Specifications:

Material		YG6	YG8	YWN6	YWN8
Composition	WC	94%	94%	92%	92%
	Ni	---	6%	8%	---
	Co	6%	---	---	8%
Density		14.6~15g/cm ³	14.5~14.9g/cm ³	14.5~14.9g/cm ³	14.4~14.8g/cm ³
Hardness		89.5 (HRA)	89 (HRA)	88.5 (HRA)	88 (HRA)
Fractural strength		1421MPa	1470MPa	1490MPa	1470MPa
Heat expansion co-efficient		5 x 10 ⁻⁶ /K	5.1 x 10 ⁻⁶ /K	5.2 x 10 ⁻⁶ /K	5.3 x 10 ⁻⁶ /K

Graphite

**SP3010 Hot-pressed graphite**

Hot-pressed graphite is made from the mixture of high-purity graphite powder, resin and other additives, which are hot pressed and solidified in mould. It is widely applied in clear water medium, in water seal devices of automobiles, small pumps, household electrical equipment, etc.

Specifications:

Density	1.65g/cm ³
Hardness	≥55 (HS)
Compression strength	≥135Mpa
Bend strength	50Mpa

SP3020 Carbon-graphite

Carbon-graphite has the advantages of good resistance to corrosion, wear and high temperature, good self-lubricity and heat conductivity, low friction factor and expansion coefficient. It is the ideal friction material used in various mechanical seals.

Specifications:

Material		Density	Bending strength	Compression strength	Hardness	Porosity
Epoxy resin impregnated (H)	M106H	1.75g/cm ³	65Mpa	200Mpa	85 (HS)	2.5%
	M120H	1.70g/cm ³	60Mpa	180Mpa	80 (HS)	2.5%
	M205H	1.70g/cm ³	60Mpa	200Mpa	70 (HS)	2.5%
	M252H	1.72g/cm ³	45Mpa	120Mpa	45 (HS)	2.5%
Furan resin impregnated (K)	M106K	1.75g/cm ³	67Mpa	200Mpa	90 (HS)	2.0%
	M120K	1.70g/cm ³	62Mpa	180Mpa	85 (HS)	2.0%
	M205K	1.70g/cm ³	62Mpa	180Mpa	75 (HS)	2.0%
	M252K	1.72g/cm ³	47Mpa	120Mpa	48 (HS)	2.0%
	KC170	1.82g/cm ³	68Mpa	200Mpa	80 (HS)	2.0%
Phenol aldehyde resin impregnated (F)	M106F	1.75g/cm ³	60Mpa	200Mpa	85 (HS)	2.0%
	M120F	1.70g/cm ³	55Mpa	180Mpa	80 (HS)	2.0%
	M205F	1.70g/cm ³	55Mpa	200Mpa	70 (HS)	2.0%
	M252F	1.72g/cm ³	40Mpa	120Mpa	45 (HS)	2.0%
	KC573	1.85g/cm ³	85Mpa	370Mpa	110 (HS)	2.0%
	KC673	1.87g/cm ³	78Mpa	245Mpa	87 (HS)	2.0%
Antimony impregnated (D)	M104D	2.25g/cm ³	99Mpa	340Mpa	90 (HS)	0.57%

PTFE

**SP4000 PTFE spare parts**

PTFE (polytetrafluoroethylene) has the best chemical resistance among known plastics. It also has good aging stability, electrical insulation, wear resistance, and extremely low friction coefficient. The unloaded operating temperature range is $-180\sim+260^{\circ}\text{C}$.

It is widely used in mediums of corrosion condition, due to its excellent corrosion resistant to strong acid, alkali and oxidant even in high temperature.

However, PTFE has low thermal conductivity. If pure PTFE is selected as the friction material, the heat will be difficult to be conducted and the temperature will get very high, making the sealing performance worse eventually. So usually different additives are used to fill in and improve the conductivity of PTFE.

Specifications:

Material	Pure PTFE	20% fiberglass	20% graphite
Density	2.2g/cm ³	2.22~2.24g/cm ³	1.98~2.16g/cm ³
Hardness	4.65 (HRA)	5.57 (HRA)	7 (HRA)
Tensile strength	≥27.6Mpa	≥17.3Mpa	≥16.4Mpa
Bend strength	≥20.6Mpa	≥21Mpa	≥29Mpa
Elongation at break	≥250%	≥276%	≥151%

Alumina Ceramic



SP5000 Alumina ceramic

Alumina ceramic friction material is sintered from high temperature. It includes Al_2O_3 (95%), high purity Al_2O_3 (99%), and metal Al_2O_3 (metal ceramic) (mainly contains Fe).

Alumina has the property of wear resistant, high temperature resistant, and good sealing property. It resists general corrosive mediums except hydrofluoric acid and strong alkali. Alumina is brittle and can crack under severe temperature changing.

Specifications:

Material	95% Al_2O_3	99% Al_2O_3	Metal Al_2O_3
Density	3.6g/cm ³	3.8g/cm ³	4g/cm ³
Hardness	82 (HRA)	87 (HRA)	84 (HRA)
Bend strength	2400Mpa	2600Mpa	3000Mpa
Thermal conductivity	8~20wm/k	0.5~0.7wm/k	20~40wm/k
Coefficient of thermal expansion	16~18 x 10 ⁻⁶ /°C	16~18 x 10 ⁻⁶ /°C	25~30 x 10 ⁻⁶ /°C

Mechanical Seal MS1101

MS1101 has unbalanced single-end-face structure with multi-springs. The driving through transmission sleeve ensures fine sealing property on the surface of seals.

In addition, different combinations of the face materials enable the seals to be applied in wider working conditions.

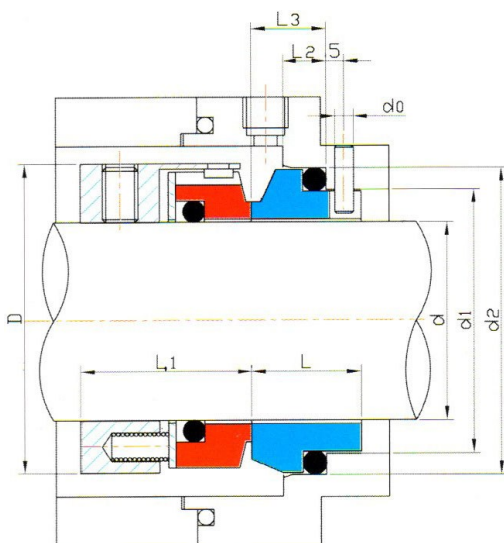
Specifications:

Pressure: $\leq 16\text{bar}$.

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

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: water, oil, acid, alkali, moderate and low corrosive mediums.

Structure:

MS1101 Dimensions:

Size	d	D	d1	d2	L1	L2	L3	L	d0
MS1101-110	110	143	128.2	140.3	47	12	20	30	5
MS1101-120	120	153	138.2	150.3	47	12	20	30	5
MS1101-130	130	163	146.2	158.3	47	12	20	30	5
MS1101-140	140	173	156.2	168.3	47	12	20	30	5
MS1101-145	145	178	161.2	173.3	47	12	20	30	5
MS1101-150	150	183	168.2	180.3	47	12	22	32	5
MS1101-155	155	191	173.2	185.3	56	14	24	34	5
MS1101-160	160	196	178.2	190.3	56	14	24	34	5
MS1101-165	165	201	183.2	195.3	56	14	24	34	5
MS1101-170	170	206	188.2	200.3	56	14	24	34	5
MS1101-175	175	211	193.2	205.3	56	14	24	34	5
MS1101-180	180	216	207.5	219.3	56	14	28	38	5
MS1101-195	195	231	222.5	234.3	56	14	28	38	5

Mechanical Seal MS1102

MS1102 offers reliable transmission as the transmission of rotating ring goes through shifting fork. There are eight kinds of sealing structures according to the balance styles, arrangements of spring and structures of static ring. The balanced style seal can be applied to pressure of 3MPa maximally.

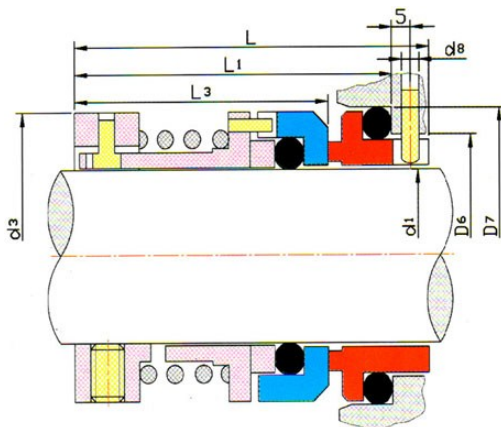
Specifications:

Pressure: $\leq 10\text{bar}$.

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

Linear velocity: $\leq 25\text{m/s}$.

Suitable mediums: water, oil, acid, alkali, moderate and low corrosive mediums.

Structure:

MS1102 Dimensions:

Size	d1 h6	D7 H8	D6 H11	d3	d8	L	L1	L3
MS1102-25	25	40	34	39	3	68	61	48
MS1102-35	35	50	44	49	3	74	67	54
MS1102-40	40	58	51	56	4	81	74	59
MS1102-45	45	63	56	61	4	81	74	59
MS1102-48	48	66	59	64	4	81	74	59
MS1102-50	50	70	62	66	4	85	78	62
MS1102-60	60	80	72	80	4	89	82	66
MS1102-65	65	85	77	85	4	93	86	70
MS1102-70	70	92	83	90	4	96	89	71
MS1102-75	75	97	88	99	4	100	93	75
MS1102-80	80	105	95	104	4	100	93	75
MS1102-85	85	110	100	109	4	105	98	80
MS1102-90	90	115	105	114	4	105	98	80
MS1102-95	95	120	110	119	4	110	103	85
MS1102-100	100	125	115	124	4	110	103	85
MS1102-105	105	130	120	129	4	115	108	90
MS1102-110	110	136	125	138	4	115	108	90

Mechanical Seal MS1103

MS1103 offers unbalanced structure of multi-springs and single end face with internal flow and is installed internally.

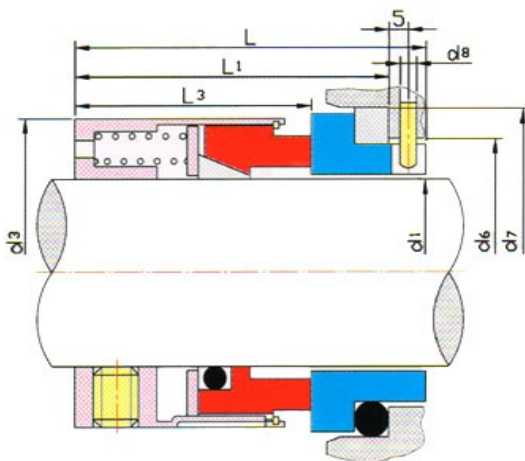
Specifications:

Pressure: $\leq 10\text{bar}$.

Temperature: $-50^{\circ}\text{C} \sim +200^{\circ}\text{C}$.

Linear velocity: $\leq 25\text{m/s}$.

Suitable mediums: water, oil, moderate and low corrosive mediums.

Structure:

MS1103 Dimensions:

Size	d1 h6	d3	d6 H11	d7 H8	d8	L	L1	L3
MS1103-20	20	34	29	35	3	45	37.5	24
MS1103-24	24	38	33	39	3	47	40	26.7
MS1103-25	25	39	34	40	3	47	40	27
MS1103-28	28	42	37	43	3	50	42.5	30
MS1103-30	30	44	39	45	3	50	42.5	30.5
MS1103-33	33	47	42	48	3	50	42.5	30.5
MS1103-35	35	49	44	50	3	50	42.5	30.5
MS1103-38	38	54	49	56	4	52	45	32
MS1103-40	40	56	51	58	4	52	45	32
MS1103-45	45	61	56	63	4	52	45	32
MS1103-50	50	66	62	70	4	55	47.5	34
MS1103-55	55	71	67	75	4	55	47.5	34
MS1103-60	60	80	72	80	4	60	52.5	39
MS1103-65	65	85	77	85	4	60	52.5	39
MS1103-70	70	90	83	92	4	67	60	45.5
MS1103-90	90	114	105	115	4	72	65	50
MS1103-95	95	119	110	120	4	72	65	50

Mechanical Seal MS1104

MS1104 has unbalanced single-end-face structure with multi-springs, offering a reliable drive for rotating ring. With different friction pairs, the seal can be applied in different working conditions.

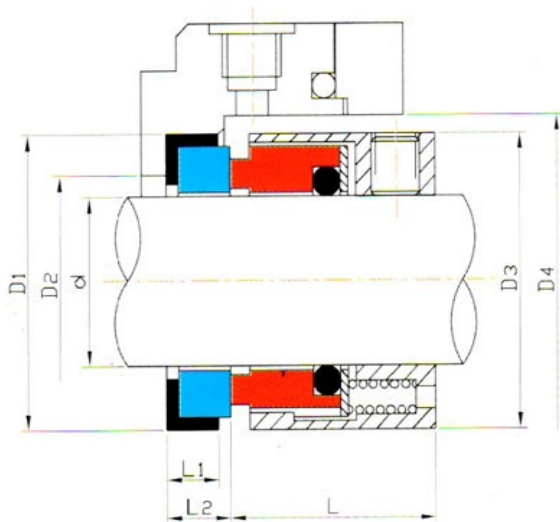
Specifications:

Pressure: $\leq 10\text{bar}$.

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

Linear velocity: $\leq 20\text{m/sec}$.

Suitable mediums: water, oil, acid, alkali, moderate and low corrosive mediums.

Structure:

MS1104 Dimensions:

Size	d h6	D1 H8	D2 H11	D3	D4	L	L1	L2
MS1104-30	30	45	32	45	47	31	7.5	9
MS1104-32	32	48	34	47	49	31	7.5	9
MS1104-33	33	48	35	48	50	31	7.5	9
MS1104-35	35	50	37	50	52	31	7.5	9
MS1104-38	38	56	40	55	58	31	7.5	9
MS1104-45	45	63	47.5	62	65	31	8	9.5
MS1104-50	50	70	52.2	67	70	32.5	8	9.5
MS1104-60	60	80	62.5	81	85	37.5	8	9.5
MS1104-70	70	92	73	91	95	42	9.5	11
MS1104-75	75	97	78	99	104	42	10	12
MS1104-80	80	104	83	104	109	41.8	10	12
MS1104-85	85	109	88	109	114	41.8	10	12
MS1104-90	90	114	93	114	119	46.8	10	12
MS1104-100	100	133.35	103	124	129	47.8	18.5	19

Mechanical Seal MS1105

MS1105 is a common seal offering rubber bellows structure with unbalanced single end face and large spring. Torque is passed through helical spring.

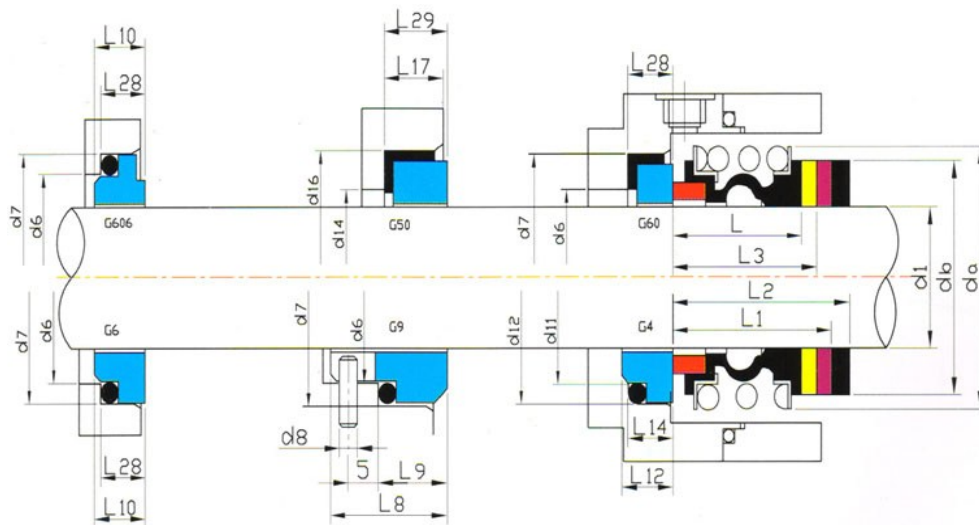
Specifications:

Pressure: $\leq 10\text{bar}$.

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

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: waste water with particles, sewage, common weak corrosive mediums.

Structure:

MS1105 Dimensions:

d1	d6	d7	d8	d11	d12	d16	da	L	L1
14	21	25	3	20.5	24.6	30.95	28.5	17.0	28.4
18	27	33	3	24.0	30.0	34.15	32.0	19.5	30.0
20	29	35	3	29.5	35.0	35.70	37.0	21.5	30.0
22	31	37	3	29.5	35.0	37.30	37.0	21.5	30.0
24	33	39	3	32.0	38.0	40.50	42.5	22.5	32.5
25	34	40	3	32.0	38.0	40.50	42.5	23.0	32.5
28	37	43	3	36.0	42.0	46.65	49.0	26.5	35.0
30	39	45	3	39.2	45.0	50.80	49.0	26.5	35.0
32	42	48	3	42.2	48.0	50.80	53.5	27.5	35.0
35	44	50	3	46.2	52.0	54.00	57.0	28.5	35.0
38	49	56	4	49.2	55.0	57.15	59.0	30.0	36.0
40	51	58	4	52.2	58.0	60.35	62.0	30.0	36.0
45	56	63	4	55.3	64.0	63.50	68.0	30.0	36.0
50	62	70	4	60.8	69.3	69.85	74.0	30.5	38.0
53	65	73	4	63.8	72.3	73.05	78.5	33.0	36.5
55	67	75	4	66.5	75.4	76.20	81.0	35.0	36.5
60	72	80	4	71.5	80.4	79.40	88.5	38.0	41.5
65	77	85	4	76.5	85.4	92.10	93.5	40.0	41.5
70	83	92	4	83.0	92.0	95.25	99.5	40.0	48.7
75	88	97	4	90.2	99.0	101.60	107.0	40.0	48.7
80	95	105	4	95.2	104.0	114.30	112.0	40.0	48.0
85	100	110	4	100.2	109.0	117.50	120.0	41.0	46.0
90	105	115	4	105.2	114.0	123.85	127.0	45.0	51.0
95	110	120	4	111.6	120.3	127.00	132.0	46.0	51.0
100	115	125	4	114.5	123.3	133.35	137.0	47.0	51.0

d1	L2	L3	L8	L9	L10	L12	L14	L2	L29
14	33.4	25	17.5	10.0	7.5	6.5	5.6	6.6	10.5
18	37.5	25	19.5	11.5	8.5	9.0	8.0	7.5	10.5
20	37.5	25	19.5	11.5	8.5	8.5	7.5	7.5	10.5
22	37.5	25	19.5	11.5	8.5	8.5	7.5	7.5	10.5
24	42.5	25	19.5	11.5	8.5	8.5	7.5	7.5	10.5
25	42.5	25	19.5	11.5	8.5	8.5	7.5	7.5	10.5
28	42.5	33	19.5	11.5	8.5	10.0	9.0	7.5	12.0
30	42.5	33	19.5	11.5	8.5	11.5	10.5	7.5	12.0
32	47.5	33	19.5	11.5	8.5	11.5	10.5	7.5	12.0
35	47.5	33	19.5	11.5	8.5	12.0	11.0	7.5	12.0
38	46.0	33	22.0	14.0	10.0	11.3	10.3	9.0	12.0
40	46.0	33	22.0	14.0	10.0	11.8	10.8	9.0	12.0
45	51.0	41	22.0	14.0	10.0	12.8	11.6	9.0	12.0
50	50.5	41	23.0	15.0	10.5	12.8	11.6	9.5	13.5
53	59.0	41	23.0	15.0	12.0	13.5	12.3	11.0	13.5
55	59.0	41	23.0	15.0	12.0	14.5	13.3	11.0	13.5
60	59.0	41	23.0	15.0	12.0	14.5	13.3	11.0	13.5
65	69.0	49	23.0	15.0	12.0	14.2	13.0	11.0	16.0
70	68.7	49	26.0	18.0	12.5	14.2	13.0	11.3	16.0
75	68.7	52	26.0	18.0	12.5	15.2	14.0	11.3	16.0
80	78.0	56	26.2	18.2	13.0	16.2	15.0	12.0	20.0
85	76.0	56	26.2	18.2	15.0	16.0	14.8	14.0	20.0
90	76.0	59	26.2	18.2	15.0	16.0	14.8	14.0	20.0
95	76.0	59	25.2	17.2	15.0	17.0	15.8	14.0	20.0
100	76.0	62	25.2	17.2	15.0	17.0	15.8	14.0	20.0

Mechanical Seal MS1106

MS1106 is one of the most commonly used mechanical seals. It is internally installed with internal flow. The kind of drive is that the rubber bellows drives the rotating ring in circumvolution by fastening force from fixture. The structure is simple and compact.

A two-end-faces technical seal can be formed if two sets of MS1106 seals are installed back to back.

Specifications:

Pressure: $\leq 8\text{bar}$.

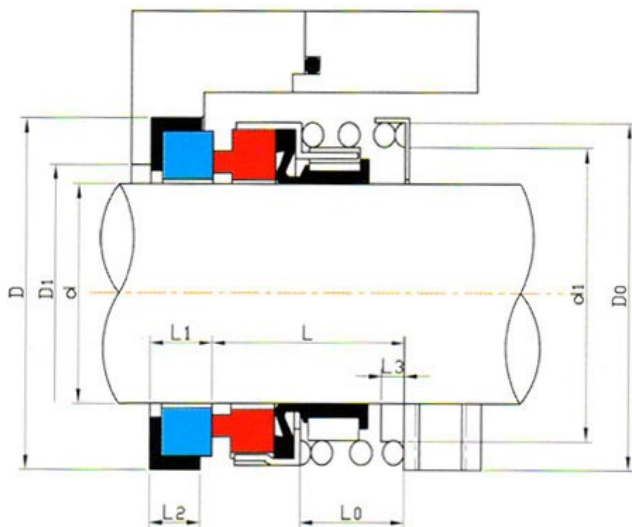
Temperature:

$-20^{\circ}\text{C} \sim +100^{\circ}\text{C}$ (NBR rubber);

$-20^{\circ}\text{C} \sim +150^{\circ}\text{C}$ (Fluorine rubber).

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: water, oil, weak corrosive mediums.

Structure:

MS1106 Dimensions:

Size	d h6	d1 +0.5 +0.3	D H8	D0	D1	L	L0	L1	L2	L3
MS1106-14	14	22.4	30	27	17	18.7	9.7	5	4.5	2.5
MS1106-16	16	23	32	28.5	18	21	12	5	4.5	2.5
MS1106-18	18	25.5	35	30.5	20	22.5	13	7.5	6	2.5
MS1106-20	20	26	35	31.8	24	21	11.5	8	6.5	3
MS1106-24	24	34	39	39	26	25.5	15	8	6.5	3
MS1106-25	25	34	40	39	27	25.5	15	8	6.5	3
MS1106-28	28	36.5	43	42	30	25.5	15	8	6.5	3
MS1106-30	30	38.5	45	44	32	25.5	15	9	7.5	3
MS1106-32	32	40	48	46	34	33.5	21	9	7.5	4.5
MS1106-33	33	40.5	48	47	35	33.5	21	9	7.5	4.5
MS1106-35	35	42.5	50	49	37	33.5	21	9	7.5	4.5
MS1106-38	38	46.5	56	54	40	33.5	21	9	7.5	4.5
MS1106-40	40	48	58	56	42.5	33.5	21	9	7.5	4.5
MS1106-43	43	51	61	59	45.5	36.5	24	9.5	8	5.5
MS1106-45	45	52.5	63	61	47.5	38	24	9.5	8	5.5
MS1106-48	48	55.5	66	64	50.5	38	24	9.5	8	5.5
MS1106-50	50	57	70	66	52.5	38	24	9.5	8	5.5
MS1106-53	53	60	73	69	55.5	41	26	9.5	8	6
MS1106-55	55	62	75	71	57.5	41	26	9.5	8	6
MS1106-58	58	68	78	78	60.5	42	26	9.5	8	6
MS1106-60	60	70	80	80	62.5	42	26	9.5	8	6
MS1106-65	65	75	85	85	67.5	42	26	9.5	8	6
MS1106-70	70	80	92	90	73	45	28	11	9.5	6.5
MS1106-75	75	85	97	96	78	45	28	12	10	8
MS1106-80	80	90	104	104	83	55	39	12	10	8
MS1106-85	85	95	109	108	88	64.2	48	12	10	8
MS1106-90	90	100	114	113	93	66.2	50	12	10	8
MS1106-100	100	108.5	133.35	123	103	62	46	19	18.5	8

Mechanical Seal MS1107

MS1107 is specially developed in accordance with the illustration provided by Japan's EAGLE Company. It is internally installed with internal flow. The kind of drive is that the rubber bellows drives the rotating ring in circumvolution by fastening force from fixture

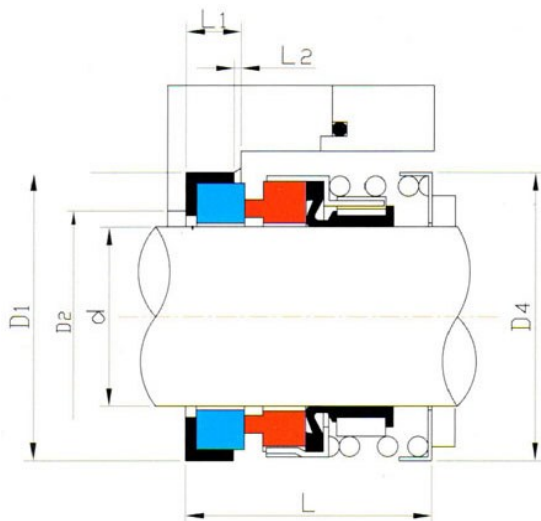
Specifications:

Pressure: $\leq 8\text{bar}$.

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

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: water, oil, weak corrosive mediums.

Structure:

MS1107 Dimensions:

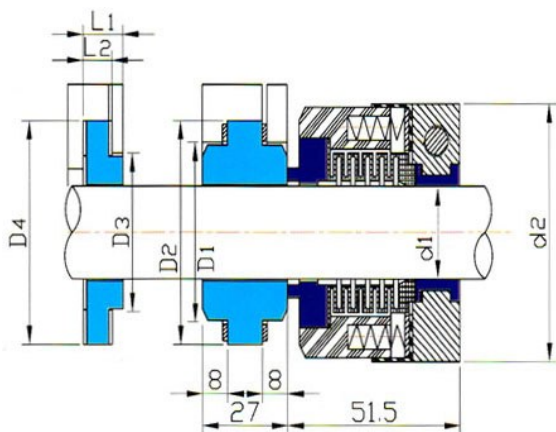
Size	d h8	D1 H8	D2	D4 max	L	L1	L2
MS1107-20	20	38	27	35.5	28	8	2
MS1107-22	22	40	29	37.5	28	8	2
MS1107-25	25	44	32	42	29	9	2
MS1107-28	28	46	34	45.5	30	9	2
MS1107-30	30	50	38	48	31	9	2
MS1107-32	32	54	40	50	33	9	2
MS1107-35	35	58	44	54.5	36	10	2
MS1107-40	40	64	48	62.5	38	10	2
MS1107-45	45	66	52	66.6	40	10	2
MS1107-50	50	72	58	72.5	42	10	2
MS1107-5/8"	15.87	31.75	20.6	30	32.5	8.7	1
MS1107-1"	25.40	41.28	30.2	44	36.5	9.5	1
MS1107-1-1/4"	31.75	47.63	36.5	50	38.1	9.5	1
MS1107-1-1/2"	38.10	53.98	42.9	58.5	39.7	9.5	1
MS1107-2"	50.80	69.85	55.6	73.5	50.8	11.1	1

Mechanical Seal MS1201**Specifications:**

Temperature	20°C	40°C	60°C	80°C	100°C	125°C
Pressure	10bar	8bar	7bar	5bar	3.5bar	2bar

Linear velocity: $\leq 15\text{m/s}$.

Suitable mediums: all kinds of strong corrosive mediums such as H_2SO_4 , HNO_3 , HCL , organic acid, etc.

Structure:

MS1201 Dimensions:

Size	d1 h6	d2	D1 A11	D2 H8	D3 A11	D4 H8	L1	L2
MS1201-25	25	69	47	60	38	48	12	8
MS1201-30	30	74	52	66	43	53	12	8
MS1201-35	35	79	57	70	48	58	12	8
MS1201-40	40	84	62	76	53	63	12	8
MS1201-45	45	89	67	82	58	68	14	9
MS1201-50	50	96	72	86	63	73	14	9
MS1201-55	55	101	78	94	68	78	14	9
MS1201-60	60	106	86	102	73	83	14	9

Mechanical Seal MS2101

MS2101 is in unbalanced back-to-back two-end-faces structure with internal-external flow. The kind of drive is that rubber bellows and shafts drive to rotating ring by fastening force from fixture. It is suitable to work in sump pumps.

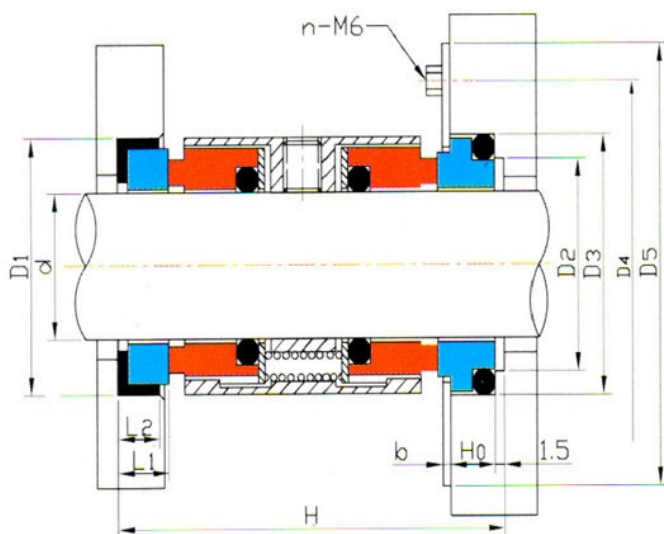
Specifications:

Pressure: $\leq 3\text{bar}$.

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

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: sewage with volume content of solid particle less than 4%, and other weak corrosive mediums.

Structure:

MS2101 Dimensions:

Size	d h6	D2 H11	D3 H8	D4 ±0.1	D5	D1 H8
MS2101-25	25	34	40	60	72	40
MS2101-30	30	39	45	65	82	45
MS2101-32	32	42	48	68	84	48
MS2101-35	35	44	50	75	94	50
MS2101-38	38	49	56	80	97	56
MS2101-40	40	51	58	82	100	58
MS2101-45	45	56	63	87	105	63
MS2101-50	50	62	70	93	109	70
MS2101-53	53	65	73	96	112	73
MS2101-55	55	67	75	98	114	75
MS2101-60	60	72	80	105	124	80

Size	H	L2	L1	H0	b	n
MS2101-25	51	6.5	8	7.5	1	3
MS2101-30	59	7.5	9	7	1.5	3
MS2101-32	61	7.5	9	7	1.5	3
MS2101-35	61	7.5	9	7	1.5	3
MS2101-38	61	7.5	9	7.6	1.5	3
MS2101-40	64.5	7.5	9	9.1	1.5	3
MS2101-45	65	8	9.5	7.6	1.5	3
MS2101-50	69.5	8	9.5	8.7	1.5	6
MS2101-53	69.5	8	9.5	9.7	2	6
MS2101-55	71	8	9.5	10.2	2	6
MS2101-60	74.5	8	9.5	9.7	2	6

Mechanical Seal MS2102

MS2102 is an improved style developed from MS2101. It offers compact structure and reliable transmission, and overcomes the shortcomings of rubber bellows. It is suitable to sump pumps, underwater pumps, etc.

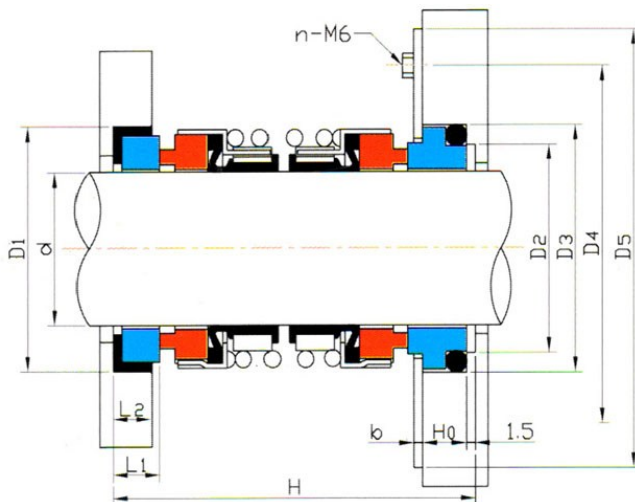
Specifications:

Pressure: $\leq 3\text{bar}$.

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

Linear velocity: $\leq 10\text{m/s}$.

Suitable mediums: sewage with volume content of solid particle less than 4%, and other weak corrosive mediums.

Structure:

MS2102 Dimensions:

Size	D h6	D1 H8	D2 H11	D3 H8	D4 ±0.1	D5
MS2102-20	20	35	29	35	50	60
MS2102-25	25	40	34	40	60	72
MS2102-28	28	43	37	43	61	73
MS2102-30	30	45	39	45	65	82
MS2102-32	32	48	42	48	68	84
MS2102-35	35	50	44	50	75	94
MS2102-38	38	56	49	56	80	97
MS2102-40	40	58	51	58	82	100
MS2102-45	45	63	56	63	87	105
MS2102-50	50	70	62	70	93	109
MS2102-53	53	73	65	73	96	112
MS2102-55	55	75	67	75	98	114
MS2102-60	60	80	72	80	105	124
MS2102-65	65	85	77	85	112	130
MS2102-70	70	92	83	92	117	135
MS2102-75	75	97	88	97	122	140
MS2102-85	85	109	100	107	132	150
MS2102-100	100	133.35	121	133	155	175

Size	H	L2	L1	H0	b	n
MS2102-20	49	6.5	8	7	1	3
MS2102-25	51	6.5	8	7.5	1	3
MS2102-28	51	6.5	8	7	1.5	3
MS2102-30	59	7.5	9	7	1.5	3
MS2102-32	61	7.5	9	7	1.5	3
MS2102-35	61	7.5	9	7	1.5	3
MS2102-38	61	7.5	9	7.6	1.5	3
MS2102-40	64.5	7.5	9	9.1	1.5	3
MS2102-45	65	8	9.5	7.6	1.5	3
MS2102-50	69.5	8	9.5	8.7	1.5	6
MS2102-53	69.5	8	9.5	9.7	2	6
MS2102-55	71	8	9.5	10.2	2	6
MS2102-60	74.5	8	9.5	9.7	2	6
MS2102-65	79	8	9.5	11.8	2	6
MS2102-70	79	9.5	11	11.3	2	6
MS2102-75	84.5	10	12	11.3	3	6
MS2102-85	105	10	12	11	3	6
MS2102-100	110	18.5	19	19.5	3	6

**Note:**

1. All technical details quoted throughout this catalogue are based on our extensive tests and years of experience, however, they can only serve as guide values. Your specific application should not be undertaken without independent study and evaluation for suitability. Failure to select proper products and specifications could result in property damage and/or personal injury.
2. Technical details subject to change without notice. This edition cancels all previous issues.

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